

## Cover Page

**Order ID :** Q2201

**Project ID :** Former Schlumberger STC PTC Site D3868221

**Client :** JACOBS Engineering Group, Inc.

**Lab Sample Number**

Q2201-01

**Client Sample Number**

MW-01-6.5-060325

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: 6/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**JACOBS Engineering Group, Inc.**

**Project Name: Former Schlumberger STC PTC Site D3868221**

**Project # N/A**

**Order ID # Q2201**

**Test Name: VOCMS Group3**

### **A. Number of Samples and Date of Receipt:**

1 Water sample was received on 06/03/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOCMS Group3 was based on method 8260D.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

### **E. Additional Comments:**

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

Trip Blank was not provided with this set of samples.

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



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**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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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\_\_\_\_\_

## 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 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: Q2201

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<br>ASP CLP, CLP AND NJ)                                                                             |    |    | ✓   |
| 3.  | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                   |    |    | ✓   |
| 4.  | GC/MS Calibration - Initial Calibration performed before sample analysis and<br>continuing calibration performed within 24 hours of sample analysis for 600 series and<br>12 hours for 8000 series. |    |    | ✓   |
| 5.  | GC/MS Calibration Requirements.<br>The Initial Calibration met the requirements.<br>The Continuous Calibration met the requirements.                                                                |    |    | ✓   |
| 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<br>ranges.                                                        |    |    | ✓   |
| 8.  | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>range.                               |    |    | ✓   |
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria<br><br>Comments:                                                                                                                          |    |    | ✓   |
| 10. | Analysis Holding Time Met<br><br>If not met, list number of days exceeded for each sample:                                                                                                          |    |    | ✓   |

**ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

NA NO YES

ADDITIONAL COMMENTS:

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

Trip Blank was not provided with this set of samples.

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

\_\_\_\_\_  
QA REVIEW

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2201

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 Custody

✓

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: 06/07/2025



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## LAB CHRONICLE

|                 |                                |                   |                                           |
|-----------------|--------------------------------|-------------------|-------------------------------------------|
| <b>OrderID:</b> | Q2201                          | <b>OrderDate:</b> | 6/3/2025 4:10:00 PM                       |
| <b>Client:</b>  | JACOBS Engineering Group, Inc. | <b>Project:</b>   | Former Schlumberger STC PTC Site D3868221 |
| <b>Contact:</b> | John Ynfante                   | <b>Location:</b>  | VOA Ref. #3 Water                         |

| LabID    | ClientID         | Matrix | Test         | Method   | Sample Date | Prep Date | Anal Date | Received |
|----------|------------------|--------|--------------|----------|-------------|-----------|-----------|----------|
| Q2201-01 | MW-01-6.5-060325 | Water  | VOCMS Group3 | 8260-Low | 06/03/25    |           | 06/04/25  | 06/03/25 |



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Hit Summary Sheet  
SW-846

SDG No.: Q2201  
Client: JACOBS Engineering Group, Inc.

| Sample ID  | Client ID        | Matrix | Parameter              | Concentration | C    | MDL   | RDL  | Units |
|------------|------------------|--------|------------------------|---------------|------|-------|------|-------|
| Client ID: | MW-01-6.5-060325 |        |                        |               |      |       |      |       |
| Q2201-01   | MW-01-6.5-060325 | Water  | cis-1,2-Dichloroethene | 4.40          |      | 0.19  | 1.00 | ug/L  |
| Q2201-01   | MW-01-6.5-060325 | Water  | Trichloroethene        | 34.7          |      | 0.090 | 1.00 | ug/L  |
|            |                  |        | Total Voc :            |               | 39.1 |       |      |       |
|            |                  |        | Total Concentration:   |               | 39.1 |       |      |       |



# QC SUMMARY

### Surrogate Summary

SDG No.: Q2201

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

| Lab Sample ID | Client ID        | Parameter             | Spike | Result | RecoveryQual | Limits  |           |
|---------------|------------------|-----------------------|-------|--------|--------------|---------|-----------|
|               |                  |                       |       |        |              | Low     | High      |
| Q2201-01      | MW-01-6.5-060325 | 1,2-Dichloroethane-d4 | 50    | 51.5   | 103          | 70 (74) | 130 (125) |
|               |                  | Dibromofluoromethane  | 50    | 50.4   | 101          | 70 (75) | 130 (124) |
|               |                  | Toluene-d8            | 50    | 50.0   | 100          | 70 (86) | 130 (113) |
|               |                  | 4-Bromofluorobenzene  | 50    | 50.5   | 101          | 70 (77) | 130 (121) |
| VX0604WBL01   | VX0604WBL01      | 1,2-Dichloroethane-d4 | 50    | 53.4   | 107          | 70 (74) | 130 (125) |
|               |                  | Dibromofluoromethane  | 50    | 50.4   | 101          | 70 (75) | 130 (124) |
|               |                  | Toluene-d8            | 50    | 50.4   | 101          | 70 (86) | 130 (113) |
|               |                  | 4-Bromofluorobenzene  | 50    | 53.1   | 106          | 70 (77) | 130 (121) |
| VX0604WBS01   | VX0604WBS01      | 1,2-Dichloroethane-d4 | 50    | 50.1   | 100          | 70 (74) | 130 (125) |
|               |                  | Dibromofluoromethane  | 50    | 51.3   | 103          | 70 (75) | 130 (124) |
|               |                  | Toluene-d8            | 50    | 47.3   | 95           | 70 (86) | 130 (113) |
|               |                  | 4-Bromofluorobenzene  | 50    | 49.1   | 98           | 70 (77) | 130 (121) |
| VX0604WBSD0   | VX0604WBSD01     | 1,2-Dichloroethane-d4 | 50    | 51.7   | 103          | 70 (74) | 130 (125) |
|               |                  | Dibromofluoromethane  | 50    | 52.1   | 104          | 70 (75) | 130 (124) |
|               |                  | Toluene-d8            | 50    | 49.0   | 98           | 70 (86) | 130 (113) |
|               |                  | 4-Bromofluorobenzene  | 50    | 51.4   | 103          | 70 (77) | 130 (121) |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q2201

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260-Low

**Datafile :** VX046491.D

| Lab Sample ID | Parameter              | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|---------------|------------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| VX0604WBS01   | Vinyl chloride         | 20    | 15.5   | ug/L | 78  |     |      | 70 (65) | 130 (117)      |     |
|               | 1,1-Dichloroethene     | 20    | 17.2   | ug/L | 86  |     |      | 70 (74) | 130 (110)      |     |
|               | 1,1-Dichloroethane     | 20    | 19.6   | ug/L | 98  |     |      | 70 (78) | 130 (112)      |     |
|               | cis-1,2-Dichloroethene | 20    | 19.6   | ug/L | 98  |     |      | 70 (77) | 130 (110)      |     |
|               | 1,1,1-Trichloroethane  | 20    | 19.4   | ug/L | 97  |     |      | 70 (80) | 130 (108)      |     |
|               | Benzene                | 20    | 18.6   | ug/L | 93  |     |      | 70 (82) | 130 (109)      |     |
|               | 1,2-Dichloroethane     | 20    | 19.8   | ug/L | 99  |     |      | 70 (80) | 130 (115)      |     |
|               | Trichloroethene        | 20    | 18.4   | ug/L | 92  |     |      | 70 (77) | 130 (113)      |     |
|               | 1,1,2-Trichloroethane  | 20    | 20.5   | ug/L | 103 |     |      | 70 (83) | 130 (112)      |     |
|               | Tetrachloroethene      | 20    | 19.0   | ug/L | 95  |     |      | 70 (67) | 130 (123)      |     |



**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q2201

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260-Low

**Datafile :** VX046497.D

| Lab Sample ID | Parameter              | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD     |
|---------------|------------------------|-------|--------|------|-----|-----|------|---------|----------------|---------|
| VX0604WBSD01  | Vinyl chloride         | 20    | 18.8   | ug/L | 94  | 19  |      | 70 (65) | 130 (117)      | 20 (20) |
|               | 1,1-Dichloroethene     | 20    | 20.3   | ug/L | 102 | 17  |      | 70 (74) | 130 (110)      | 20 (20) |
|               | 1,1-Dichloroethane     | 20    | 22.2   | ug/L | 111 | 12  |      | 70 (78) | 130 (112)      | 20 (20) |
|               | cis-1,2-Dichloroethene | 20    | 22.0   | ug/L | 110 | 12  |      | 70 (77) | 130 (110)      | 20 (20) |
|               | 1,1,1-Trichloroethane  | 20    | 22.5   | ug/L | 113 | 15  |      | 70 (80) | 130 (108)      | 20 (20) |
|               | Benzene                | 20    | 21.4   | ug/L | 107 | 14  |      | 70 (82) | 130 (109)      | 20 (20) |
|               | 1,2-Dichloroethane     | 20    | 21.6   | ug/L | 108 | 9   |      | 70 (80) | 130 (115)      | 20 (20) |
|               | Trichloroethene        | 20    | 21.3   | ug/L | 106 | 14  |      | 70 (77) | 130 (113)      | 20 (20) |
|               | 1,1,2-Trichloroethane  | 20    | 22.2   | ug/L | 111 | 7   |      | 70 (83) | 130 (112)      | 20 (20) |
|               | Tetrachloroethene      | 20    | 20.6   | ug/L | 103 | 8   |      | 70 (67) | 130 (123)      | 20 (20) |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0604WBL01

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2201

SAS No.: Q2201 SDG NO.: Q2201

Lab File ID: VX046490.D

Lab Sample ID: VX0604WBL01

Date Analyzed: 06/04/2025

Time Analyzed: 11:04

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_X

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| VX0604WBS01       | VX0604WBS01      | VX046491.D     | 06/04/2025       |
| VX0604WBSD01      | VX0604WBSD01     | VX046497.D     | 06/04/2025       |
| MW-01-6.5-060325  | Q2201-01         | VX046505.D     | 06/04/2025       |

COMMENTS: \_\_\_\_\_

\_\_\_\_\_



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05  
Lab Code: CHEM Case No.: Q2201 SAS No.: Q2201 SDG NO.: Q2201  
Lab File ID: VX046038.D BFB Injection Date: 05/05/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 09:37  
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            | 22.1                 |
| 75  | 30.0 - 60.0% of mass 95            | 56.2                 |
| 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         | 0.5 ( 0.7 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 68.8                 |
| 175 | 5.0 - 9.0% of mass 174             | 5 ( 7.3 ) 1          |
| 176 | 95.0 - 101.0% of mass 174          | 66.7 ( 97 ) 1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.6 ( 6.9 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDIC020         | VSTDIC020        | VX046041.D     | 05/05/2025       | 11:35            |
| VSTDIC050         | VSTDIC050        | VX046042.D     | 05/05/2025       | 11:58            |
| VSTDIC100         | VSTDIC100        | VX046043.D     | 05/05/2025       | 12:21            |
| VSTDIC150         | VSTDIC150        | VX046044.D     | 05/05/2025       | 12:45            |
| VSTDIC005         | VSTDIC005        | VX046046.D     | 05/05/2025       | 16:04            |
| VSTDIC001         | VSTDIC001        | VX046047.D     | 05/05/2025       | 16:27            |



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05  
Lab Code: CHEM Case No.: Q2201 SAS No.: Q2201 SDG NO.: Q2201  
Lab File ID: VX046487.D BFB Injection Date: 06/04/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 09:43  
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            | 22                   |
| 75  | 30.0 - 60.0% of mass 95            | 55.2                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.9                  |
| 173 | Less than 2.0% of mass 174         | 0.8 ( 1.2 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 68.4                 |
| 175 | 5.0 - 9.0% of mass 174             | 4.8 ( 7 ) 1          |
| 176 | 95.0 - 101.0% of mass 174          | 67.2 ( 98.3 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.5 ( 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:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDCCC050        | VSTDCCC050       | VX046488.D     | 06/04/2025       | 10:12            |
| VX0604WBL01       | VX0604WBL01      | VX046490.D     | 06/04/2025       | 11:04            |
| VX0604WBS01       | VX0604WBS01      | VX046491.D     | 06/04/2025       | 11:27            |
| VX0604WBSD01      | VX0604WBSD01     | VX046497.D     | 06/04/2025       | 13:52            |
| MW-01-6.5-060325  | Q2201-01         | VX046505.D     | 06/04/2025       | 17:01            |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05  
 Lab Code: CHEM Case No.: Q2201 SAS No.: Q2201 SDG NO.: Q2201  
 Lab File ID: VX046488.D Date Analyzed: 06/04/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 10:12  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                  | IS1<br>AREA # | RT #  | IS2<br>AREA # | RT # | IS3<br>AREA # | RT #   |
|------------------|---------------|-------|---------------|------|---------------|--------|
| 12 HOUR STD      | 97475         | 5.54  | 165033        | 6.75 | 141151        | 10.05  |
| UPPER LIMIT      | 194950        | 6.043 | 330066        | 7.25 | 282302        | 10.549 |
| LOWER LIMIT      | 48737.5       | 5.043 | 82516.5       | 6.25 | 70575.5       | 9.549  |
| EPA SAMPLE NO.   |               |       |               |      |               |        |
| MW-01-6.5-060325 | 62450         | 5.55  | 122833        | 6.76 | 114448        | 10.06  |
| VX0604WBL01      | 69580         | 5.55  | 139946        | 6.76 | 133992        | 10.05  |
| VX0604WBS01      | 92897         | 5.54  | 164481        | 6.76 | 139452        | 10.05  |
| VX0604WBSD01     | 84483         | 5.55  | 152834        | 6.76 | 133225        | 10.06  |

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05  
 Lab Code: CHEM Case No.: Q2201 SAS No.: Q2201 SDG NO.: Q2201  
 Lab File ID: VX046488.D Date Analyzed: 06/04/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 10:12  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                  | IS4<br>AREA # | RT #   |  |  |  |  |
|------------------|---------------|--------|--|--|--|--|
| 12 HOUR STD      | 69016         | 12.018 |  |  |  |  |
| UPPER LIMIT      | 138032        | 12.518 |  |  |  |  |
| LOWER LIMIT      | 34508         | 11.518 |  |  |  |  |
| EPA SAMPLE NO.   |               |        |  |  |  |  |
| MW-01-6.5-060325 | 48812         | 12.02  |  |  |  |  |
| VX0604WBL01      | 59967         | 12.02  |  |  |  |  |
| VX0604WBS01      | 63937         | 12.02  |  |  |  |  |
| VX0604WBSD01     | 62838         | 12.02  |  |  |  |  |

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

## Report of Analysis

|                    |                                           |                 |          |
|--------------------|-------------------------------------------|-----------------|----------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 06/03/25 |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 06/03/25 |
| Client Sample ID:  | MW-01-6.5-060325                          | SDG No.:        | Q2201    |
| Lab Sample ID:     | Q2201-01                                  | Matrix:         | Water    |
| Analytical Method: | 8260D                                     | % Solid:        | 0        |
| Sample Wt/Vol:     | 5                                         | Units:          | mL       |
| Soil Aliquot Vol:  |                                           |                 | uL       |
| GC Column:         | DB-624UI                                  | ID :            | 0.18     |
| Prep Method :      |                                           | Level :         | LOW      |
|                    |                                           |                 |          |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX046505.D        | 1         |           | 06/04/25 17:01 | VX060425      |

| CAS Number         | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|--------------------|------------------------|--------|-----------|---------------------|------------|---------|
| TARGETS            |                        |        |           |                     |            |         |
| 75-01-4            | Vinyl Chloride         | 0.26   | U         | 0.26                | 1.00       | ug/L    |
| 75-35-4            | 1,1-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    |
| 156-59-2           | cis-1,2-Dichloroethene | 4.40   |           | 0.19                | 1.00       | ug/L    |
| 71-55-6            | 1,1,1-Trichloroethane  | 0.20   | U         | 0.20                | 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        | 34.7   |           | 0.090               | 1.00       | ug/L    |
| 79-00-5            | 1,1,2-Trichloroethane  | 0.21   | U         | 0.21                | 1.00       | ug/L    |
| 127-18-4           | Tetrachloroethene      | 0.23   | U         | 0.23                | 1.00       | ug/L    |
| SURROGATES         |                        |        |           |                     |            |         |
| 17060-07-0         | 1,2-Dichloroethane-d4  | 51.5   |           | 70 (74) - 130 (125) | 103%       | SPK: 50 |
| 1868-53-7          | Dibromofluoromethane   | 50.4   |           | 70 (75) - 130 (124) | 101%       | SPK: 50 |
| 2037-26-5          | Toluene-d8             | 50.0   |           | 70 (86) - 130 (113) | 100%       | SPK: 50 |
| 460-00-4           | 4-Bromofluorobenzene   | 50.5   |           | 70 (77) - 130 (121) | 101%       | SPK: 50 |
| INTERNAL STANDARDS |                        |        |           |                     |            |         |
| 363-72-4           | Pentafluorobenzene     | 62500  | 5.55      |                     |            |         |
| 540-36-3           | 1,4-Difluorobenzene    | 123000 | 6.763     |                     |            |         |
| 3114-55-4          | Chlorobenzene-d5       | 114000 | 10.055    |                     |            |         |
| 3855-82-1          | 1,4-Dichlorobenzene-d4 | 48800  | 12.018    |                     |            |         |

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\_X\Data\VX060425\  
 Data File : VX046505.D  
 Acq On : 04 Jun 2025 17:01  
 Operator : JC/MD  
 Sample : Q2201-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-01-6.5-060325

Quant Time: Jun 05 02:02:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

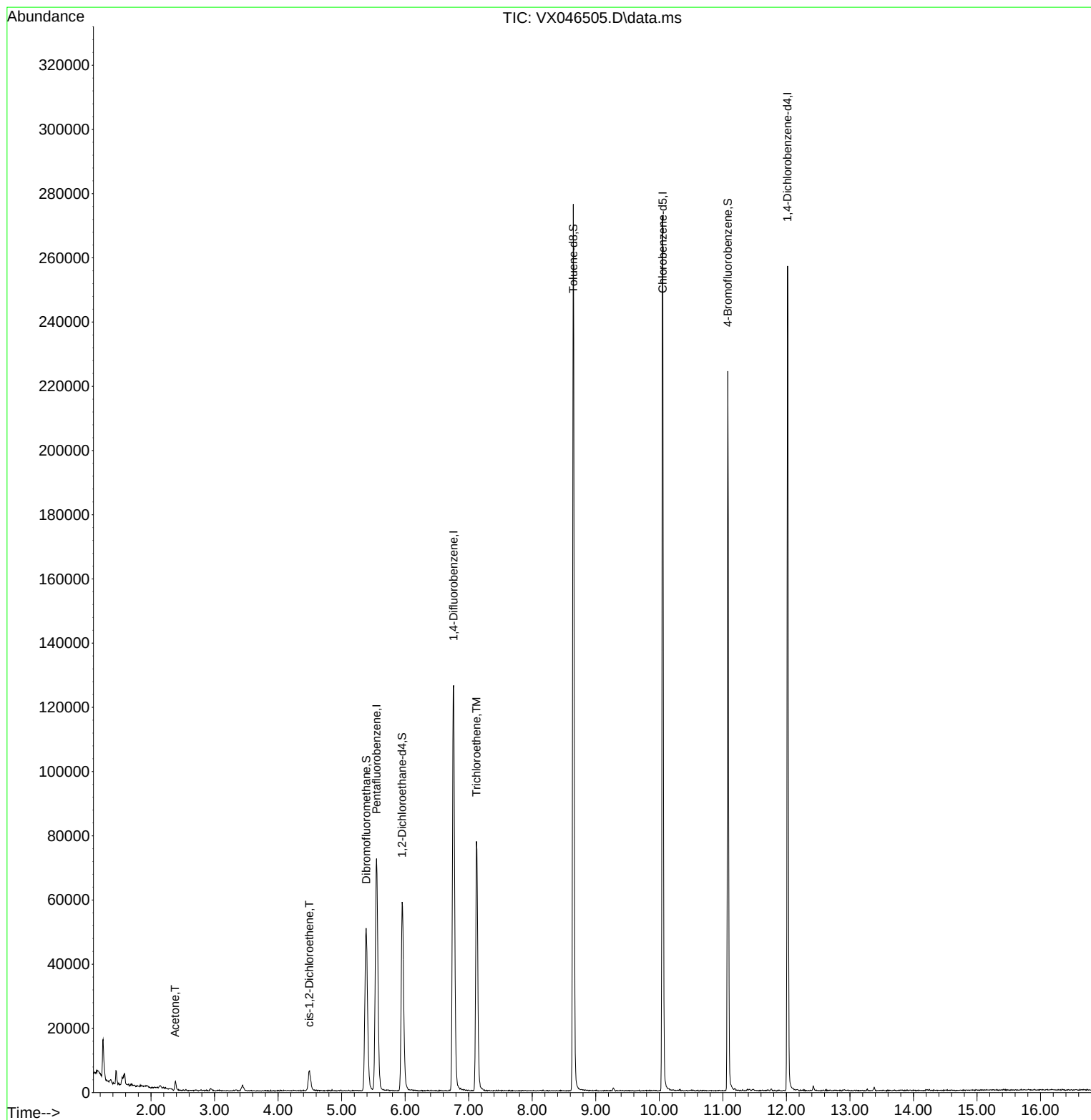
| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Pentafluorobenzene       | 5.550     | 168   | 62450    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.763     | 114   | 122833   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 10.055    | 117   | 114448   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.018    | 152   | 48812    | 50.000   | ug/l       | 0.00     |
|                             |           |       |          |          |            |          |
| System Monitoring Compounds |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 5.952     | 65    | 59937    | 51.480   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 74 - 125 | Recovery | = 102.960% |          |
| 35) Dibromofluoromethane    | 5.385     | 113   | 44599    | 50.421   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 75 - 124 | Recovery | = 100.840% |          |
| 50) Toluene-d8              | 8.647     | 98    | 153105   | 50.010   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 86 - 113 | Recovery | = 100.020% |          |
| 62) 4-Bromofluorobenzene    | 11.079    | 95    | 59280    | 50.480   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 77 - 121 | Recovery | = 100.960% |          |
|                             |           |       |          |          |            |          |
| Target Compounds            |           |       |          |          |            | Qvalue   |
| 16) Acetone                 | 2.380     | 43    | 2867     | 6.142    | ug/l       | 95       |
| 27) cis-1,2-Dichloroethene  | 4.489     | 96    | 3959     | 4.416    | ug/l       | 87       |
| 44) Trichloroethene         | 7.123     | 130   | 29049    | 34.672   | ug/l       | 90       |
| -----                       |           |       |          |          |            |          |

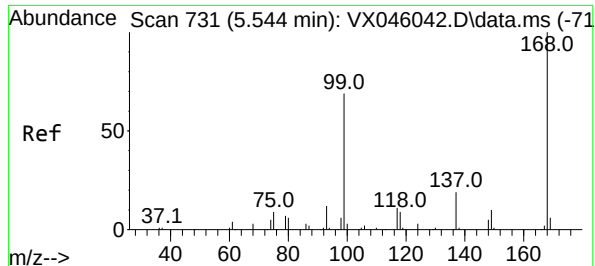
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046505.D  
Acq On : 04 Jun 2025 17:01  
Operator : JC/MD  
Sample : Q2201-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-01-6.5-060325

Quant Time: Jun 05 02:02:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

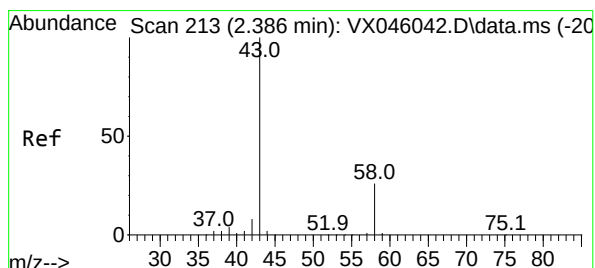
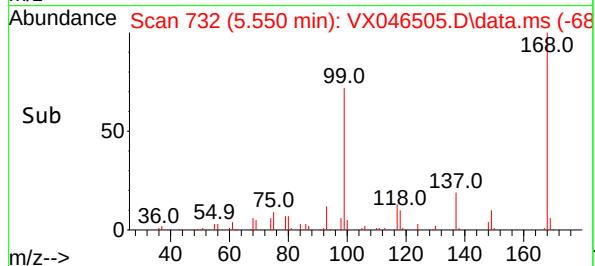
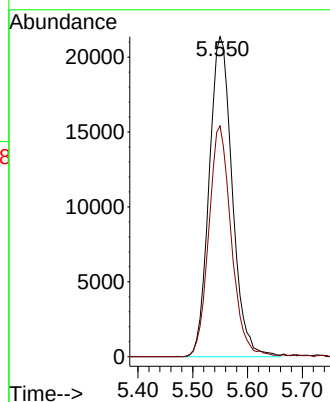
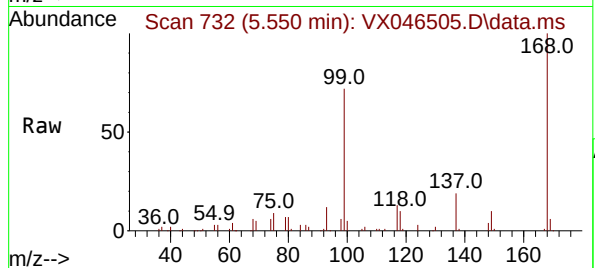




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

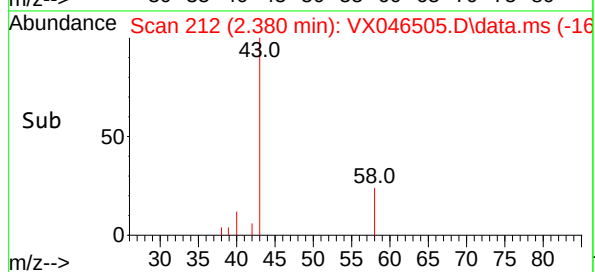
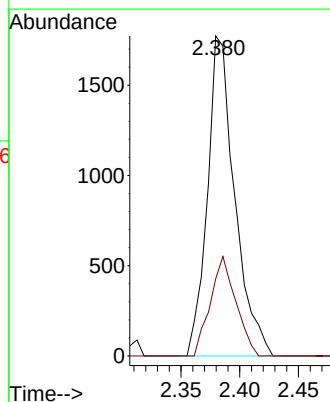
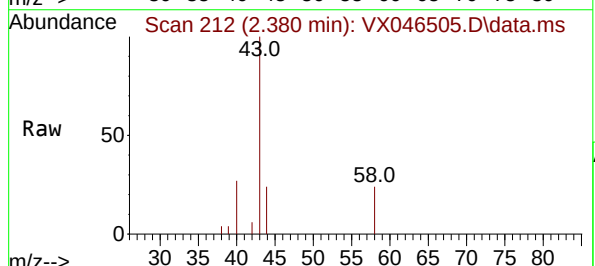
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-01-6.5-060325

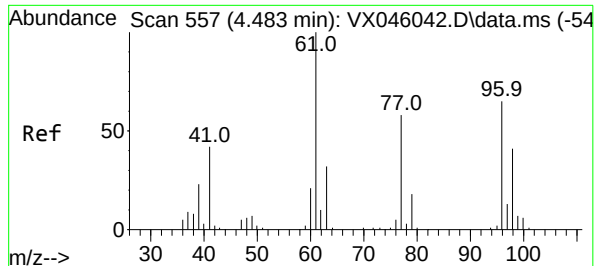
Tgt Ion:168 Resp: 62450  
Ion Ratio Lower Upper  
168 100  
99 72.2 54.9 82.3



#16  
Acetone  
Concen: 6.142 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

Tgt Ion: 43 Resp: 2867  
Ion Ratio Lower Upper  
43 100  
58 24.1 21.2 31.8





#27

cis-1,2-Dichloroethene

Concen: 4.416 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046505.D

Acq: 04 Jun 2025 17:01

Instrument :

MSVOA\_X

ClientSampleId :

MW-01-6.5-060325

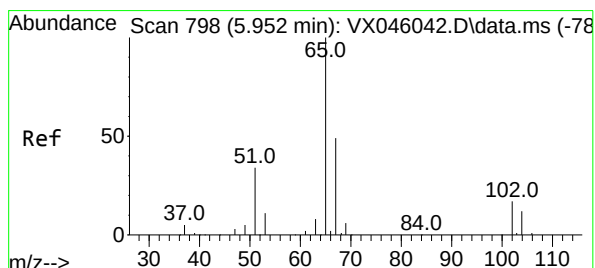
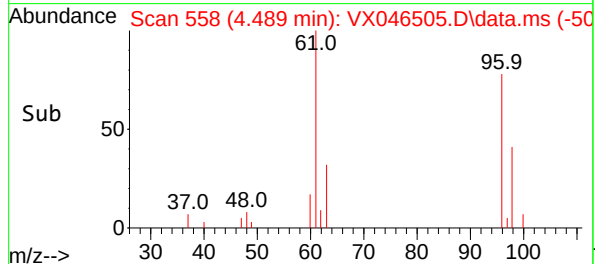
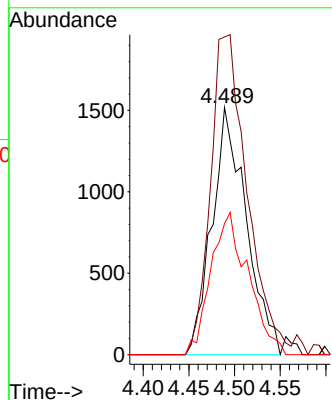
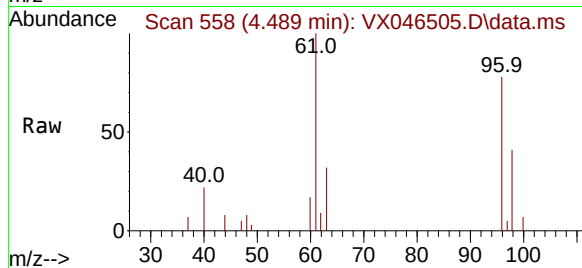
Tgt Ion: 96 Resp: 3959

Ion Ratio Lower Upper

96 100

61 138.4 0.0 322.8

98 62.8 0.0 129.0



#33

1,2-Dichloroethane-d4

Concen: 51.480 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046505.D

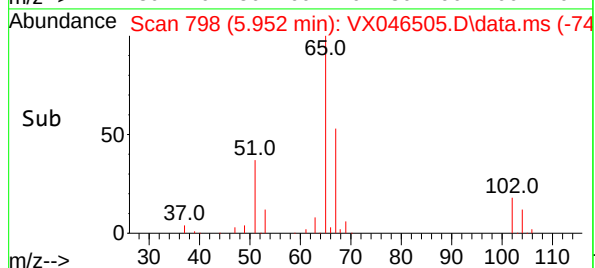
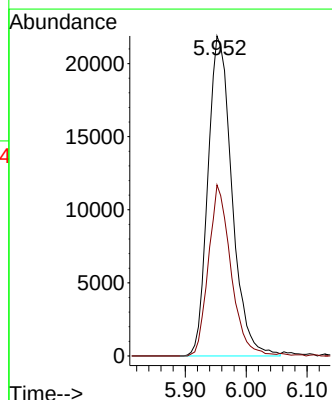
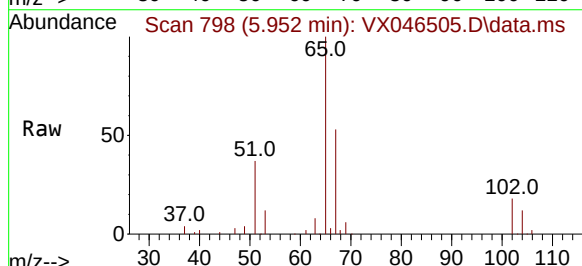
Acq: 04 Jun 2025 17:01

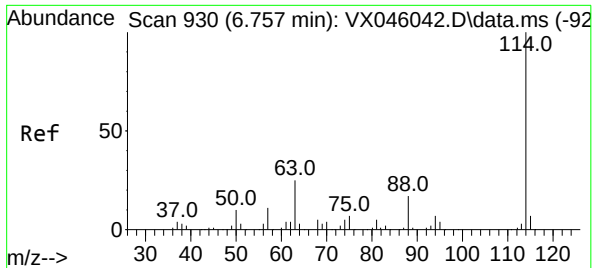
Tgt Ion: 65 Resp: 59937

Ion Ratio Lower Upper

65 100

67 50.0 0.0 99.0

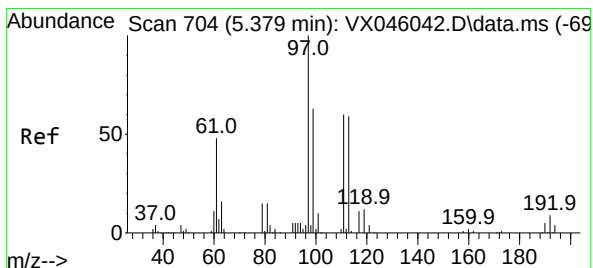
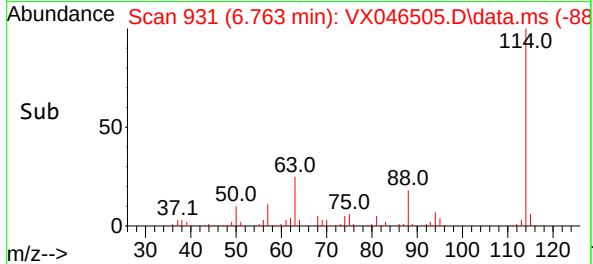
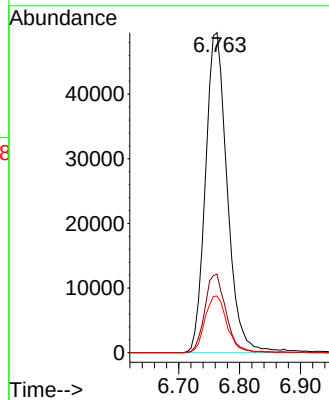
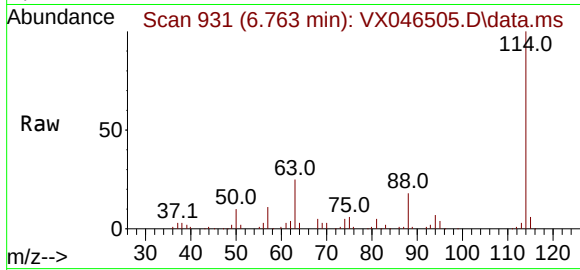




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

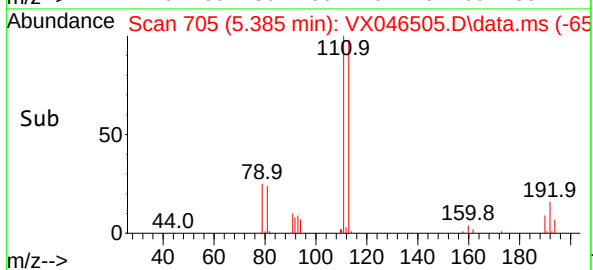
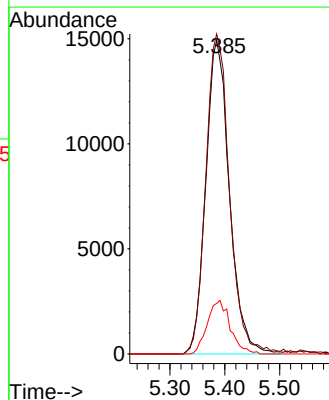
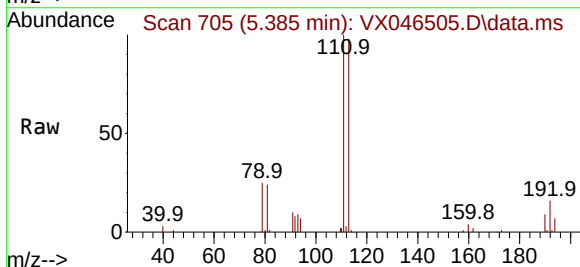
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-01-6.5-060325

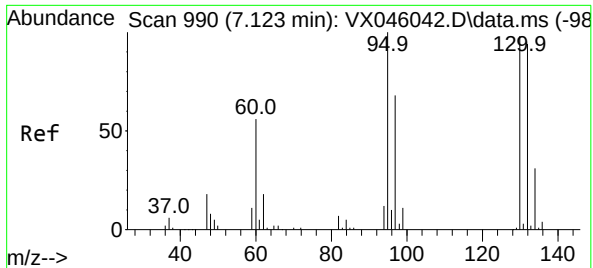
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.6  | 0.0   | 49.2  |
| 88      | 17.7  | 0.0   | 33.6  |



#35  
Dibromofluoromethane  
Concen: 50.421 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 83.1  | 124.7 |
| 192     | 16.6  | 13.3  | 19.9  |

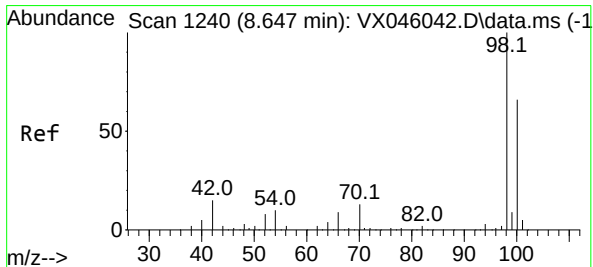
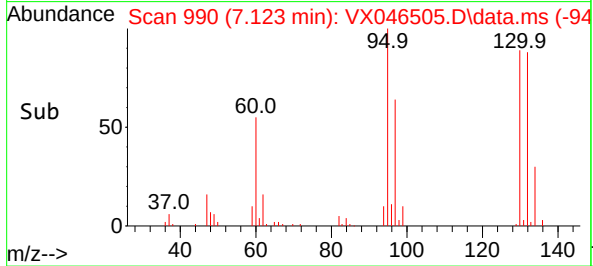
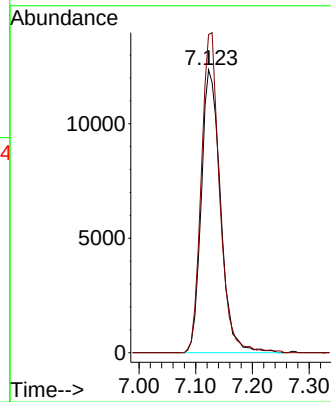
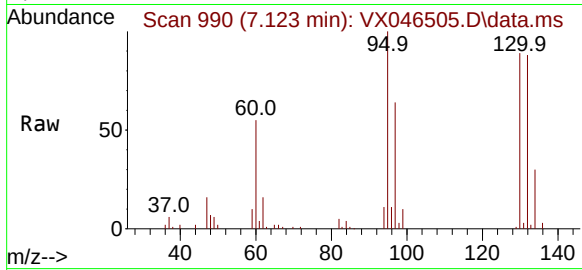




#44  
Trichloroethene  
Concen: 34.672 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

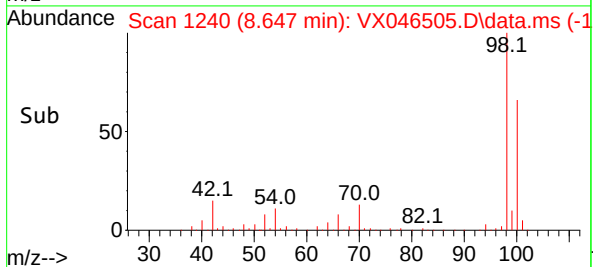
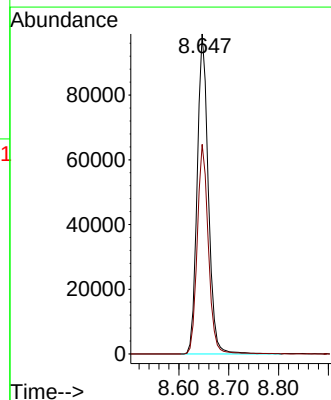
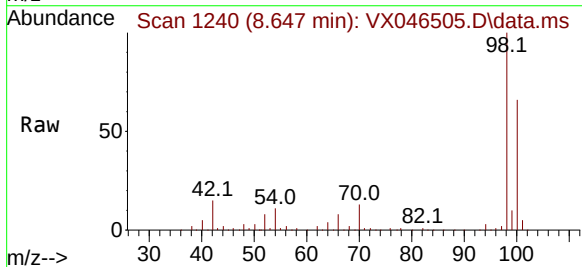
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-01-6.5-060325

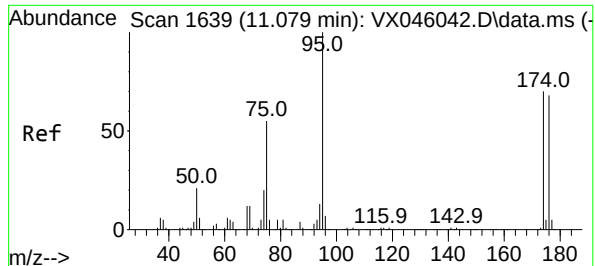
Tgt Ion:130 Resp: 29049  
Ion Ratio Lower Upper  
130 100  
95 112.4 0.0 204.2



#50  
Toluene-d8  
Concen: 50.010 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

Tgt Ion: 98 Resp: 153105  
Ion Ratio Lower Upper  
98 100  
100 65.4 53.5 80.3

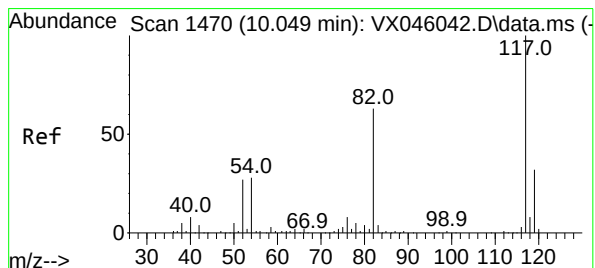
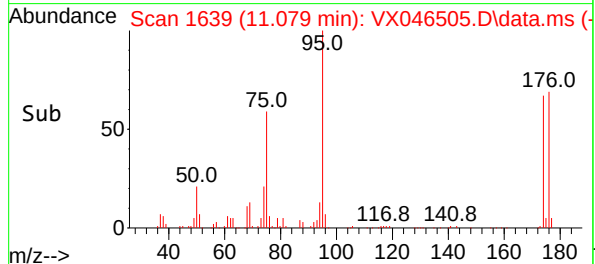
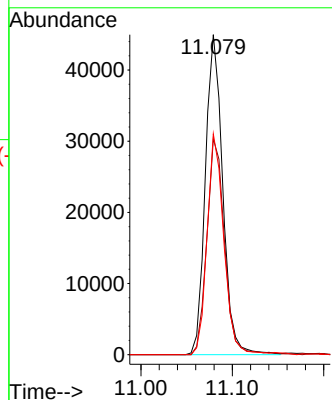
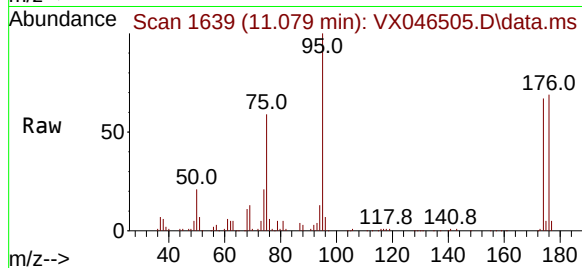




#62  
4-Bromofluorobenzene  
Concen: 50.480 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

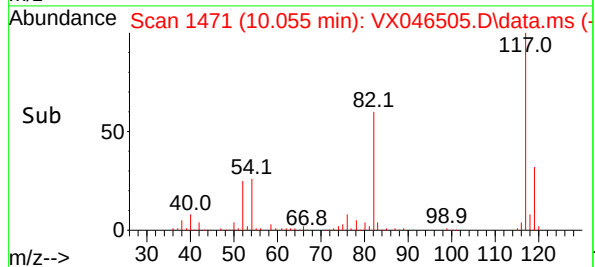
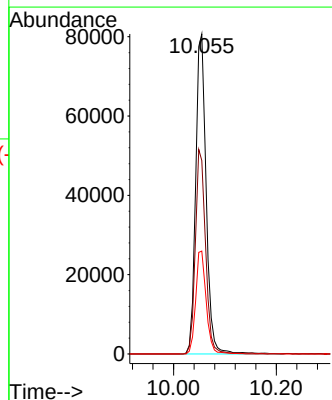
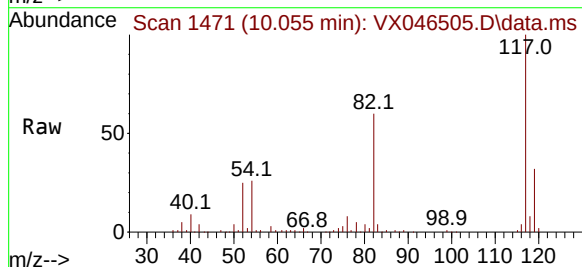
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-01-6.5-060325

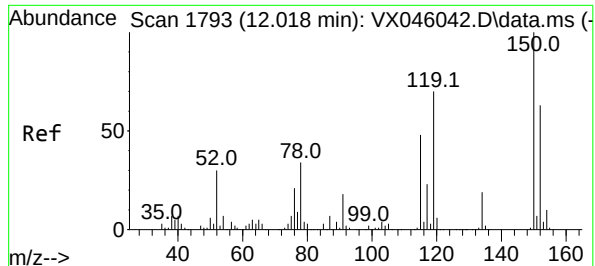
| Tgt Ion   | 95    | Resp  | 59280 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 68.6  | 0.0   | 135.8 |
| 176       | 66.2  | 0.0   | 131.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.006 min  
Lab File: VX046505.D  
Acq: 04 Jun 2025 17:01

| Tgt Ion   | 117   | Resp  | 114448 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 60.4  | 50.6  | 76.0   |
| 119       | 32.1  | 25.8  | 38.6   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046505.D

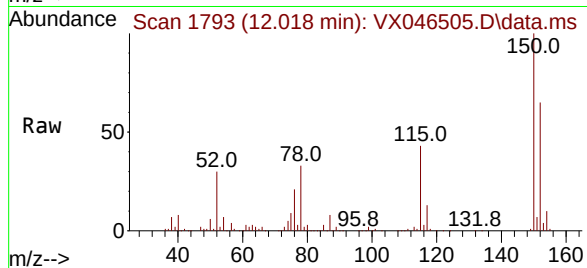
Acq: 04 Jun 2025 17:01

Instrument :

MSVOA\_X

ClientSampleId :

MW-01-6.5-060325



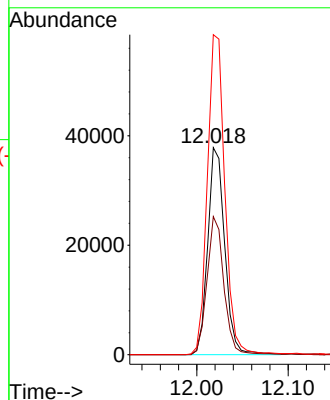
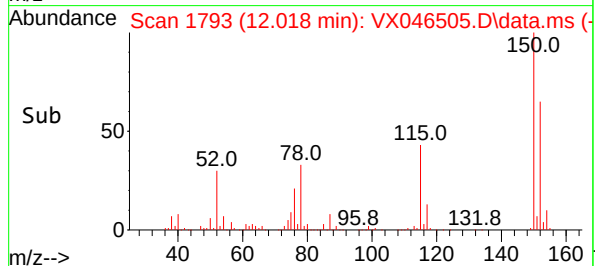
Tgt Ion:152 Resp: 48812

Ion Ratio Lower Upper

152 100

115 66.0 46.9 140.7

150 159.2 0.0 351.0







# CALIBRATION SUMMARY



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### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005  
 Lab Code: CHEM Case No.: Q2201 SAS No.: Q2201 SDG No.: Q2201  
 Instrument ID: MSVOA\_X Calibration Date(s): 05/05/2025 05/05/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27  
 GC Column: DB-624UI ID: 0.18 (mm)

| LAB FILE ID:           |        | RRF020 = VX046041.D |        | RRF050 = VX046042.D |        | RRF100 = VX046043.D |       |       |  |
|------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|--|
|                        |        | RRF150 = VX046044.D |        | RRF005 = VX046046.D |        | RRF001 = VX046047.D |       |       |  |
| COMPOUND               | RRF020 | RRF050              | RRF100 | RRF150              | RRF005 | RRF001              | RRF   | % RSD |  |
| Vinyl Chloride         | 0.660  | 0.710               | 0.727  | 0.755               | 0.619  | 0.673               | 0.691 | 7.2   |  |
| 1,1-Dichloroethene     | 0.565  | 0.601               | 0.607  | 0.625               | 0.567  | 0.594               | 0.593 | 3.9   |  |
| 1,1-Dichloroethane     | 1.233  | 1.263               | 1.263  | 1.286               | 1.154  | 1.116               | 1.219 | 5.6   |  |
| cis-1,2-Dichloroethene | 0.716  | 0.737               | 0.738  | 0.755               | 0.642  | 0.719               | 0.718 | 5.5   |  |
| 1,1,1-Trichloroethane  | 1.106  | 1.131               | 1.155  | 1.188               | 1.013  | 1.015               | 1.101 | 6.6   |  |
| Benzene                | 1.426  | 1.474               | 1.441  | 1.477               | 1.337  | 1.348               | 1.417 | 4.3   |  |
| 1,2-Dichloroethane     | 0.632  | 0.627               | 0.611  | 0.625               | 0.594  | 0.579               | 0.612 | 3.5   |  |
| Trichloroethene        | 0.344  | 0.355               | 0.345  | 0.362               | 0.315  | 0.324               | 0.341 | 5.3   |  |
| 1,1,2-Trichloroethane  | 0.349  | 0.354               | 0.351  | 0.356               | 0.337  | 0.308               | 0.343 | 5.3   |  |
| Tetrachloroethene      | 0.390  | 0.375               | 0.345  | 0.344               | 0.323  | 0.347               | 0.354 | 6.8   |  |
| 1,2-Dichloroethane-d4  | 0.953  | 0.910               | 0.930  | 0.932               | 0.935  |                     | 0.932 | 1.6   |  |
| Dibromofluoromethane   | 0.359  | 0.355               | 0.364  | 0.368               | 0.354  |                     | 0.360 | 1.7   |  |
| Toluene-d8             | 1.246  | 1.223               | 1.266  | 1.275               | 1.221  |                     | 1.246 | 2     |  |
| 4-Bromofluorobenzene   | 0.455  | 0.470               | 0.500  | 0.500               | 0.464  |                     | 0.478 | 4.4   |  |

\* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X050525W.M  
 Title : SW846 8260  
 Last Update : Tue May 06 07:12:22 2025  
 Response Via : Initial Calibration

## Calibration Files

1 =VX046047.D 5 =VX046046.D 20 =VX046041.D 50 =VX046042.D 100 =VX046043.D 150 =VX046044.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.658          | 0.639 | 0.697 | 0.864 | 0.859 | 0.875 | 0.765 | 14.62 |
| 3) P   | Chloromethane       | 0.694          | 0.679 | 0.727 | 0.775 | 0.787 | 0.791 | 0.742 | 6.58  |
| 4) C   | Vinyl Chloride      | 0.673          | 0.619 | 0.660 | 0.710 | 0.727 | 0.755 | 0.691 | 7.17# |
| 5) T   | Bromomethane        |                | 0.305 | 0.296 | 0.326 | 0.340 | 0.334 | 0.320 | 5.84  |
| 6) T   | Chloroethane        | 0.467          | 0.368 | 0.354 | 0.378 | 0.329 | 0.317 | 0.369 | 14.44 |
| 7) T   | Trichlorofluor...   | 1.064          | 0.990 | 1.035 | 1.068 | 0.983 | 0.985 | 1.021 | 3.92  |
| 8) T   | Diethyl Ether       | 0.403          | 0.311 | 0.340 | 0.337 | 0.338 | 0.355 | 0.347 | 8.83  |
| 9) T   | 1,1,2-Trichlor...   | 0.633          | 0.610 | 0.628 | 0.641 | 0.629 | 0.648 | 0.632 | 2.10  |
| 10) T  | Methyl Iodide       |                | 0.608 | 0.767 | 0.806 | 0.793 | 0.763 | 0.747 | 10.68 |
| 11) T  | Tert butyl alc...   |                | 0.114 | 0.122 | 0.129 | 0.144 | 0.146 | 0.131 | 10.45 |
| 12) CM | 1,1-Dichloroet...   | 0.594          | 0.567 | 0.565 | 0.601 | 0.607 | 0.625 | 0.593 | 3.94# |
| 13) T  | Acrolein            |                | 0.117 | 0.158 | 0.152 | 0.154 | 0.163 | 0.149 | 12.33 |
| 14) T  | Allyl chloride      | 1.052          | 1.058 | 1.127 | 1.179 | 1.187 | 1.196 | 1.133 | 5.75  |
| 15) T  | Acrylonitrile       | 0.363          | 0.345 | 0.378 | 0.388 | 0.381 | 0.390 | 0.374 | 4.52  |
| 16) T  | Acetone             | 0.380          | 0.408 | 0.361 | 0.362 | 0.361 | 0.370 | 0.374 | 4.90  |
| 17) T  | Carbon Disulfide    | 1.423          | 1.141 | 1.295 | 1.455 | 1.522 | 1.597 | 1.406 | 11.68 |
| 18) T  | Methyl Acetate      | 1.006          | 0.816 | 0.814 | 0.848 | 0.845 | 0.875 | 0.867 | 8.27  |
| 19) T  | Methyl tert-bu...   | 1.949          | 1.908 | 2.044 | 2.160 | 2.172 | 2.239 | 2.079 | 6.39  |
| 20) T  | Methylene Chlo...   | 0.853          | 0.689 | 0.689 | 0.684 | 0.691 | 0.691 | 0.716 | 9.39  |
| 21) T  | trans-1,2-Dich...   | 0.604          | 0.557 | 0.573 | 0.610 | 0.612 | 0.622 | 0.596 | 4.27  |
| 22) T  | Diisopropyl ether   | 2.095          | 1.924 | 2.219 | 2.278 | 2.295 | 2.321 | 2.189 | 6.97  |
| 23) T  | Vinyl Acetate       | 1.660          | 1.698 | 1.928 | 2.048 | 2.082 | 2.134 | 1.925 | 10.52 |
| 24) P  | 1,1-Dichloroet...   | 1.116          | 1.154 | 1.233 | 1.263 | 1.263 | 1.286 | 1.219 | 5.60  |
| 25) T  | 2-Butanone          | 0.495          | 0.539 | 0.540 | 0.555 | 0.558 | 0.569 | 0.543 | 4.77  |
| 26) T  | 2,2-Dichloropr...   | 0.965          | 0.850 | 0.910 | 0.957 | 1.003 | 1.039 | 0.954 | 7.03  |
| 27) T  | cis-1,2-Dichlo...   | 0.719          | 0.642 | 0.716 | 0.737 | 0.738 | 0.755 | 0.718 | 5.55  |
| 28) T  | Bromochloromet...   | 0.576          | 0.553 | 0.628 | 0.578 | 0.595 | 0.590 | 0.587 | 4.28  |
| 29) T  | Tetrahydrofuran     | 0.318          | 0.318 | 0.340 | 0.350 | 0.351 | 0.362 | 0.340 | 5.36  |
| 30) C  | Chloroform          | 1.265          | 1.199 | 1.287 | 1.296 | 1.277 | 1.300 | 1.271 | 2.95# |
| 31) T  | Cyclohexane         |                | 1.059 | 1.090 | 1.128 | 1.128 | 1.150 | 1.111 | 3.26  |
| 32) T  | 1,1,1-Trichlor...   | 1.015          | 1.013 | 1.106 | 1.131 | 1.155 | 1.188 | 1.101 | 6.60  |
| 33) S  | 1,2-Dichloroet...   |                | 0.935 | 0.953 | 0.910 | 0.930 | 0.932 | 0.932 | 1.65  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.354 | 0.359 | 0.355 | 0.364 | 0.368 | 0.360 | 1.70  |
| 36) T  | 1,1-Dichloropr...   | 0.493          | 0.462 | 0.463 | 0.495 | 0.483 | 0.505 | 0.484 | 3.68  |
| 37) T  | Ethyl Acetate       | 0.586          | 0.582 | 0.569 | 0.611 | 0.609 | 0.631 | 0.598 | 3.83  |
| 38) T  | Carbon Tetrach...   | 0.541          | 0.505 | 0.528 | 0.558 | 0.552 | 0.577 | 0.544 | 4.61  |
| 39) T  | Methylcyclohexane   | 0.627          | 0.587 | 0.596 | 0.641 | 0.627 | 0.658 | 0.623 | 4.34  |
| 40) TM | Benzene             | 1.348          | 1.337 | 1.426 | 1.474 | 1.441 | 1.477 | 1.417 | 4.30  |
| 41) T  | Methacrylonitrile   | 0.233          | 0.288 | 0.318 | 0.346 | 0.343 | 0.348 | 0.313 | 14.50 |
| 42) TM | 1,2-Dichloroet...   | 0.579          | 0.594 | 0.632 | 0.627 | 0.611 | 0.625 | 0.612 | 3.45  |
| 43) T  | Isopropyl Acetate   | 0.764          | 0.826 | 0.905 | 0.963 | 0.982 | 1.030 | 0.912 | 11.05 |
| 44) TM | Trichloroethene     | 0.324          | 0.315 | 0.344 | 0.355 | 0.345 | 0.362 | 0.341 | 5.28  |
| 45) C  | 1,2-Dichloropr...   | 0.317          | 0.324 | 0.356 | 0.371 | 0.368 | 0.378 | 0.352 | 7.37# |
| 46) T  | Dibromomethane      | 0.263          | 0.262 | 0.285 | 0.287 | 0.280 | 0.289 | 0.278 | 4.35  |
| 47) T  | Bromodichlorom...   | 0.485          | 0.498 | 0.557 | 0.577 | 0.573 | 0.594 | 0.547 | 8.22  |
| 48) T  | Methyl methacr...   | 0.370          | 0.426 | 0.465 | 0.502 | 0.500 | 0.531 | 0.466 | 12.75 |
| 49) T  | 1,4-Dioxane         | 0.007          | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.009 | 8.45  |
| 50) S  | Toluene-d8          |                | 1.221 | 1.246 | 1.223 | 1.266 | 1.275 | 1.246 | 1.95  |
| 51) T  | 4-Methyl-2-Pen...   | 0.561          | 0.555 | 0.620 | 0.634 | 0.630 | 0.631 | 0.605 | 6.04  |
| 52) CM | Toluene             | 0.803          | 0.838 | 0.884 | 0.898 | 0.885 | 0.904 | 0.869 | 4.54# |
| 53) T  | t-1,3-Dichloro...   | 0.371          | 0.406 | 0.468 | 0.528 | 0.555 | 0.591 | 0.487 | 17.86 |
| 54) T  | cis-1,3-Dichlo...   | 0.423          | 0.469 | 0.531 | 0.578 | 0.602 | 0.623 | 0.538 | 14.61 |
| 55) T  | 1,1,2-Trichlor...   | 0.308          | 0.337 | 0.349 | 0.354 | 0.351 | 0.356 | 0.343 | 5.30  |
| 56) T  | Ethyl methacry...   | 0.377          | 0.508 | 0.540 | 0.595 | 0.617 | 0.639 | 0.546 | 17.58 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X050525W.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.610          | 0.601 | 0.618 | 0.623 | 0.613 | 0.627 | 0.615 | 1.53  |
| 58) | T  | 2-Chloroethyl ...     | 0.230          | 0.247 | 0.270 | 0.307 | 0.303 | 0.313 | 0.278 | 12.41 |
| 59) | T  | 2-Hexanone            | 0.385          | 0.414 | 0.466 | 0.473 | 0.477 | 0.473 | 0.448 | 8.69  |
| 60) | T  | Dibromochlorom...     | 0.306          | 0.326 | 0.378 | 0.400 | 0.415 | 0.431 | 0.376 | 13.28 |
| 61) | T  | 1,2-Dibromoethane     | 0.322          | 0.333 | 0.359 | 0.373 | 0.368 | 0.381 | 0.356 | 6.54  |
| 62) | S  | 4-Bromofluorob...     |                | 0.464 | 0.455 | 0.470 | 0.500 | 0.500 | 0.478 | 4.41  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.347          | 0.323 | 0.390 | 0.375 | 0.345 | 0.344 | 0.354 | 6.84  |
| 65) | PM | Chlorobenzene         | 1.131          | 1.046 | 1.093 | 1.098 | 1.085 | 1.114 | 1.094 | 2.65  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.369          | 0.341 | 0.365 | 0.390 | 0.382 | 0.395 | 0.374 | 5.22  |
| 67) | C  | Ethyl Benzene         | 1.803          | 1.816 | 1.919 | 2.022 | 1.979 | 2.036 | 1.929 | 5.24# |
| 68) | T  | m/p-Xylenes           | 0.648          | 0.678 | 0.706 | 0.740 | 0.721 | 0.740 | 0.706 | 5.21  |
| 69) | T  | o-Xylene              | 0.642          | 0.639 | 0.688 | 0.727 | 0.706 | 0.726 | 0.688 | 5.75  |
| 70) | T  | Styrene               | 0.951          | 1.012 | 1.135 | 1.219 | 1.214 | 1.230 | 1.127 | 10.56 |
| 71) | P  | Bromoform             | 0.234          | 0.236 | 0.270 | 0.304 | 0.312 | 0.327 | 0.281 | 14.17 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.789          | 3.562 | 3.843 | 4.130 | 3.876 | 4.156 | 3.893 | 5.72  |
| 74) | T  | N-amyl acetate        | 1.715          | 1.652 | 1.846 | 2.067 | 2.068 | 2.192 | 1.924 | 11.32 |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.552          | 1.350 | 1.315 | 1.338 | 1.284 | 1.345 | 1.364 | 6.97  |
| 76) | T  | 1,2,3-Trichlor...     | 1.405          | 1.167 | 1.151 | 1.187 | 1.131 | 1.181 | 1.204 | 8.36  |
| 77) | T  | Bromobenzene          | 0.926          | 0.862 | 0.896 | 0.928 | 0.883 | 0.928 | 0.904 | 3.08  |
| 78) | T  | n-propylbenzene       | 4.272          | 4.186 | 4.394 | 4.854 | 4.583 | 4.868 | 4.526 | 6.45  |
| 79) | T  | 2-Chlorotoluene       | 3.184          | 2.748 | 2.832 | 2.994 | 2.805 | 2.953 | 2.919 | 5.45  |
| 80) | T  | 1,3,5-Trimethy...     | 3.036          | 3.053 | 3.275 | 3.487 | 3.255 | 3.405 | 3.252 | 5.60  |
| 81) | T  | trans-1,4-Dich...     |                | 0.269 | 0.335 | 0.385 | 0.410 | 0.449 | 0.370 | 18.91 |
| 82) | T  | 4-Chlorotoluene       | 3.226          | 2.939 | 3.196 | 3.430 | 3.255 | 3.379 | 3.238 | 5.32  |
| 83) | T  | tert-Butylbenzene     | 3.341          | 3.098 | 3.115 | 3.435 | 3.255 | 3.411 | 3.276 | 4.44  |
| 84) | T  | 1,2,4-Trimethy...     | 3.150          | 3.034 | 3.274 | 3.522 | 3.335 | 3.444 | 3.293 | 5.52  |
| 85) | T  | sec-Butylbenzene      | 3.708          | 3.767 | 3.937 | 4.282 | 4.095 | 4.343 | 4.022 | 6.55  |
| 86) | T  | p-Isopropyltol...     | 3.025          | 3.084 | 3.206 | 3.555 | 3.450 | 3.599 | 3.320 | 7.44  |
| 87) | T  | 1,3-Dichlorobe...     | 1.619          | 1.558 | 1.633 | 1.701 | 1.656 | 1.729 | 1.649 | 3.71  |
| 88) | T  | 1,4-Dichlorobe...     | 1.817          | 1.606 | 1.629 | 1.693 | 1.639 | 1.722 | 1.684 | 4.64  |
| 89) | T  | n-Butylbenzene        | 2.443          | 2.650 | 2.748 | 3.147 | 3.139 | 3.346 | 2.912 | 12.00 |
| 90) | T  | Hexachloroethane      | 0.511          | 0.523 | 0.551 | 0.622 | 0.622 | 0.680 | 0.585 | 11.44 |
| 91) | T  | 1,2-Dichlorobe...     | 1.710          | 1.577 | 1.613 | 1.696 | 1.634 | 1.702 | 1.655 | 3.34  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.259          | 0.248 | 0.299 | 0.322 | 0.329 | 0.356 | 0.302 | 13.89 |
| 93) | T  | 1,2,4-Trichlor...     | 0.862          | 0.842 | 0.861 | 0.981 | 1.035 | 1.123 | 0.951 | 12.03 |
| 94) | T  | Hexachlorobuta...     | 0.393          | 0.414 | 0.394 | 0.427 | 0.418 | 0.445 | 0.415 | 4.79  |
| 95) | T  | Naphthalene           | 3.499          | 2.929 | 3.204 | 3.613 | 3.690 | 3.984 | 3.487 | 10.69 |
| 96) | T  | 1,2,3-Trichlor...     | 0.941          | 0.846 | 0.921 | 1.019 | 1.051 | 1.107 | 0.981 | 9.74  |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046041.D  
 Acq On : 05 May 2025 11:35  
 Operator : JC/MD  
 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.543          | 168  | 83671      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 147096     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 127829     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 60503      | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 31909      | 12.820   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 25.640%# |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 21112      | 12.804   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 25.600%# |        |          |
| 50) Toluene-d8               | 8.646          | 98   | 73333      | 13.200   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 26.400%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 26760      | 13.236   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 26.480%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 23341      | 12.638   | ug/l   | 96       |
| 3) Chloromethane             | 1.306          | 50   | 24316      | 13.371   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.373          | 62   | 22096      | 13.868   | ug/l   | 94       |
| 5) Bromomethane              | 1.593          | 94   | 9920       | 12.279   | ug/l   | 93       |
| 6) Chloroethane              | 1.666          | 64   | 11832      | 14.414   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 1.873          | 101  | 34636      | 14.271   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.129          | 74   | 11392      | 14.278   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 2.324          | 101  | 21027      | 14.499   | ug/l   | 98       |
| 10) Methyl Iodide            | 2.446          | 142  | 25661      | 15.070   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 20370      | 68.662   | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 2.312          | 96   | 18899      | 13.385   | ug/l   | 98       |
| 13) Acrolein                 | 2.233          | 56   | 26427      | 76.689   | ug/l   | 95       |
| 14) Allyl chloride           | 2.660          | 41   | 37708      | 14.133   | ug/l   | 99       |
| 15) Acrylonitrile            | 3.062          | 53   | 63290      | 71.312   | ug/l   | 98       |
| 16) Acetone                  | 2.379          | 43   | 60363      | 70.884   | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.501          | 76   | 43348      | 13.251   | ug/l   | 100      |
| 18) Methyl Acetate           | 2.702          | 43   | 27234      | 13.397   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 68402      | 13.890   | ug/l   | 100      |
| 20) Methylene Chloride       | 2.782          | 84   | 23050      | 13.362   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 3.086          | 96   | 19161      | 13.294   | ug/l   | 96       |
| 22) Diisopropyl ether        | 3.763          | 45   | 74257      | 14.896   | ug/l   | 95       |
| 23) Vinyl Acetate            | 3.720          | 43   | 322598     | 73.230   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 41257      | 14.082   | ug/l   | 98       |
| 25) 2-Butanone               | 4.556          | 43   | 90331      | 73.489   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.470          | 77   | 30472      | 13.729   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 23970      | 13.791   | ug/l   | 98       |
| 28) Bromochloromethane       | 4.897          | 49   | 21028      | 13.497   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 56819      | 71.175   | ug/l   | 100      |
| 30) Chloroform               | 5.086          | 83   | 43065      | 14.144   | ug/l   | 95       |
| 31) Cyclohexane              | 5.458          | 56   | 36470      | 14.769   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 37003      | 14.092   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.684          | 75   | 27242      | 14.231   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.720          | 43   | 33458      | 13.931   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.671          | 117  | 31091      | 14.137   | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.372          | 83   | 35077      | 14.623   | ug/l   | 99       |
| 40) Benzene                  | 6.031          | 78   | 83898      | 14.140   | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046041.D  
 Acq On : 05 May 2025 11:35  
 Operator : JC/MD  
 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.915  | 41   | 18732    | 14.038  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 37203    | 15.165  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.342  | 43   | 53275    | 14.512  | ug/l   | 99       |
| 44) Trichloroethene           | 7.116  | 130  | 20239    | 14.429  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 20940    | 14.204  | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 16781    | 14.439  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.817  | 83   | 32762    | 14.545  | ug/l   | 94       |
| 48) Methyl methacrylate       | 7.689  | 41   | 27374    | 14.521  | ug/l   | 100      |
| 49) 1,4-Dioxane               | 7.659  | 88   | 10585    | 282.442 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 182455   | 75.775  | ug/l   | 98       |
| 52) Toluene                   | 8.713  | 92   | 52030    | 14.788  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 27549    | 14.566  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 31226    | 14.154  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.152  | 97   | 20536    | 14.442  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 31787    | 14.425  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 36341    | 14.417  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 79531    | 80.312  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 137054   | 74.997  | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.518  | 129  | 22267    | 14.387  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 21113    | 14.458  | ug/l   | 96       |
| 64) Tetrachloroethene         | 9.268  | 164  | 19924    | 15.263  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 55863    | 14.202  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131  | 18671    | 14.231  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.189 | 91   | 98113    | 14.631  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 72202    | 29.806  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 35178    | 14.408  | ug/l   | 96       |
| 70) Styrene                   | 10.652 | 104  | 58034    | 14.853  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 13825    | 14.030  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.957 | 105  | 93013    | 14.096  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 44684    | 13.581  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 31830    | 13.560  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.237 | 75   | 27845m   | 11.039  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 21695    | 14.212  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.298 | 91   | 106337   | 14.376  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.359 | 91   | 68534    | 13.748  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 79261    | 14.468  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 8104     | 13.371  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 77338    | 14.116  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 75382    | 14.011  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 79232    | 14.480  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 95271    | 14.263  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 77599    | 14.387  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 39520    | 13.898  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 39419    | 14.146  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 66506    | 14.184  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 13332    | 13.287  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 39031    | 14.092  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75   | 7232     | 13.535  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 20846    | 13.745  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 9524     | 13.426  | ug/l   | 97       |
| 95) Naphthalene               | 13.774 | 128  | 77542    | 14.040  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.956 | 180  | 22301    | 14.023  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046041.D  
Acq On : 05 May 2025 11:35  
Operator : JC/MD  
Sample : VSTDICC020  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration

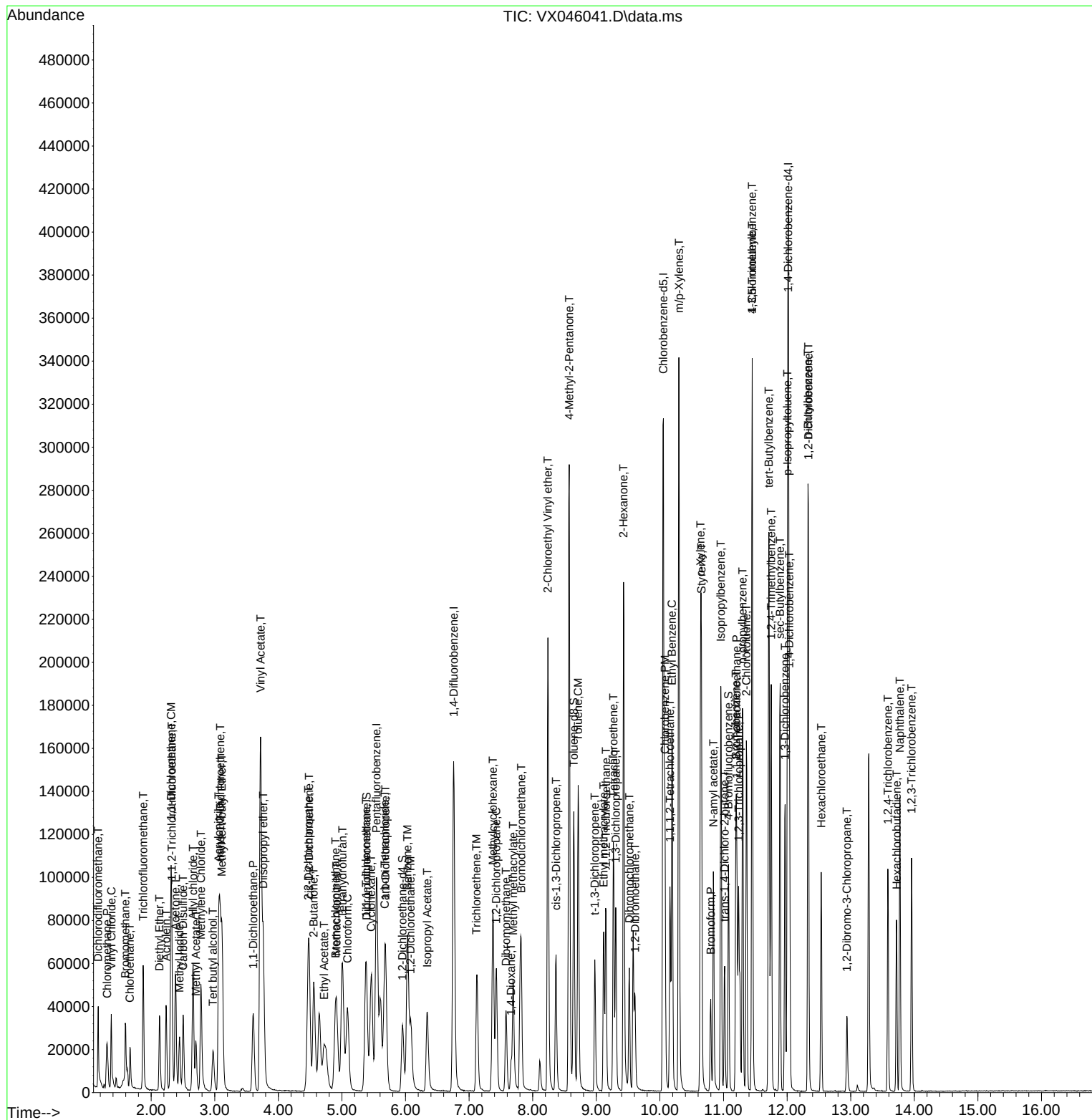
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

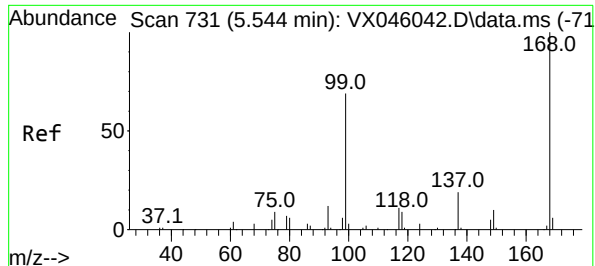
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC020

## Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025







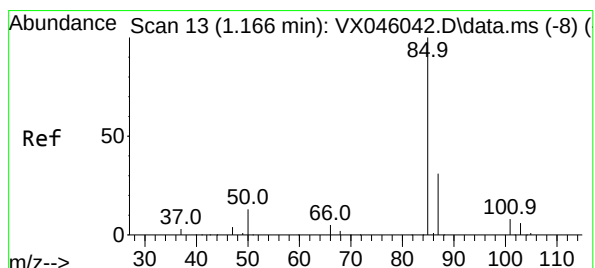
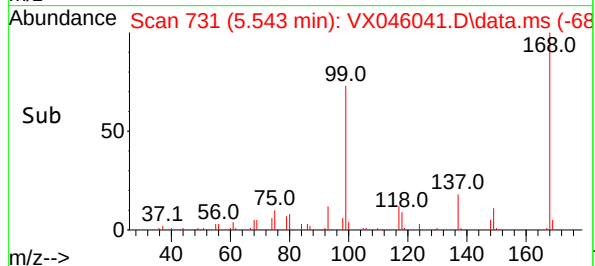
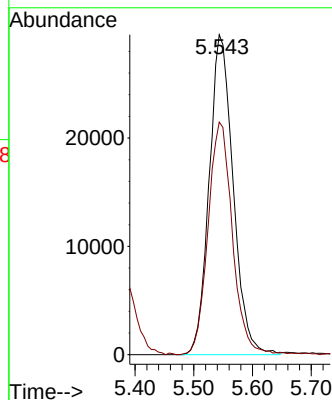
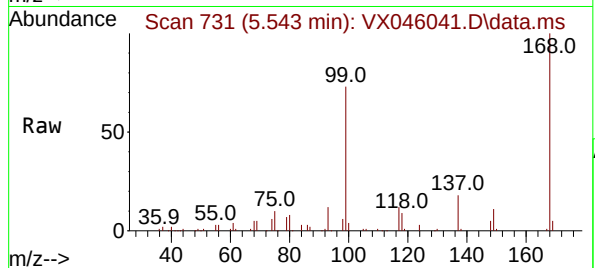
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Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020

Tgt Ion:168 Resp: 8367  
Ion Ratio Lower Upper  
168 100  
99 72.7 54.9 82.3

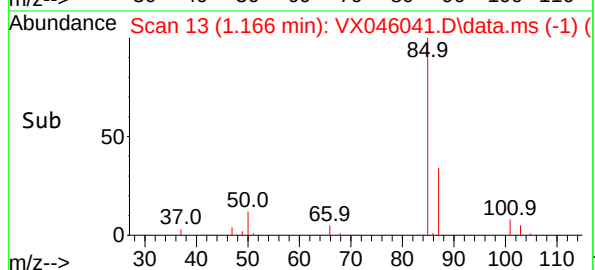
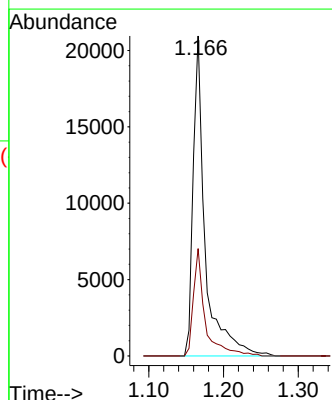
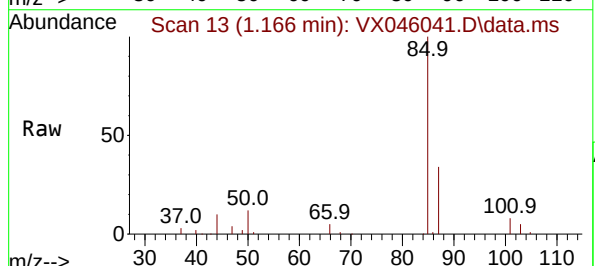
Manual Integrations  
APPROVED

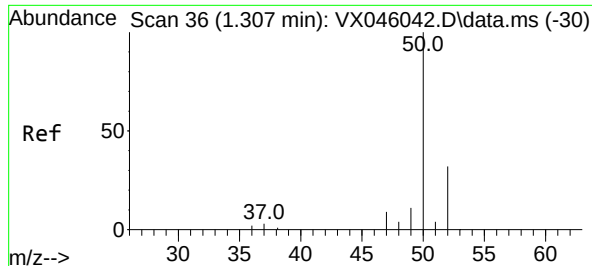
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#2  
Dichlorodifluoromethane  
Concen: 12.638 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 85 Resp: 23341  
Ion Ratio Lower Upper  
85 100  
87 33.5 15.7 47.1





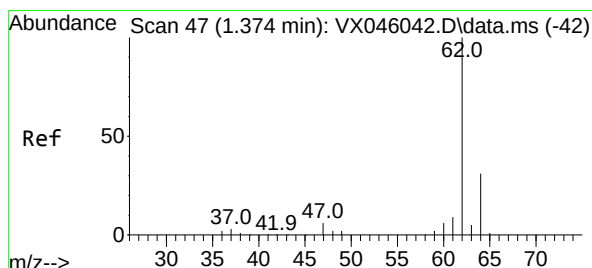
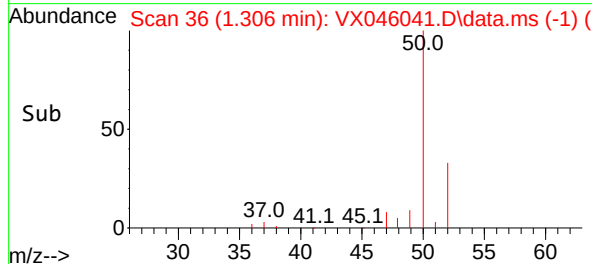
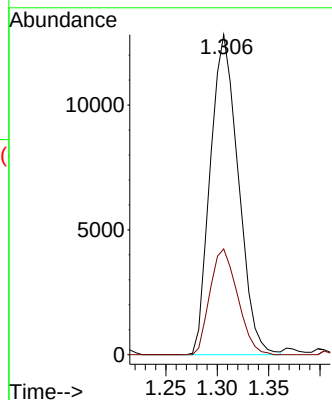
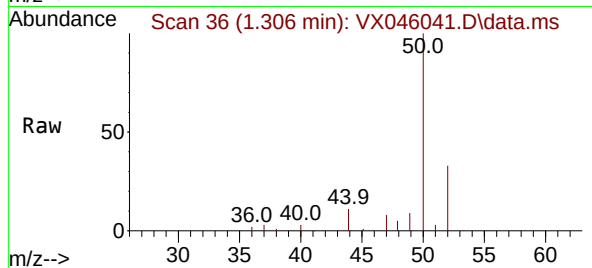
#3  
Chloromethane  
Concen: 13.371 ug/l  
RT: 1.306 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Tgt Ion: 50 Resp: 24310  
Ion Ratio Lower Upper  
50 100  
52 33.0 25.4 38.2

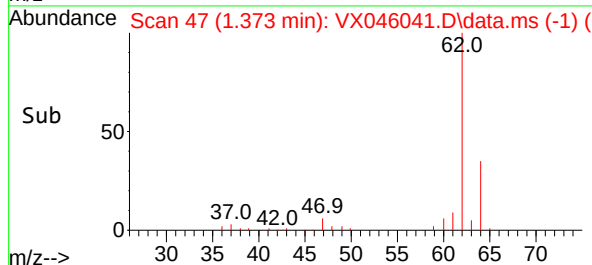
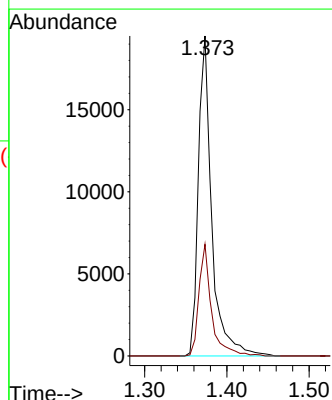
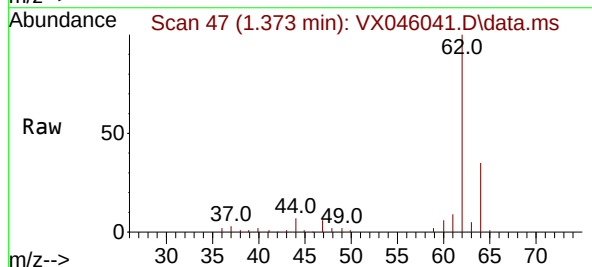
Manual Integrations  
APPROVED

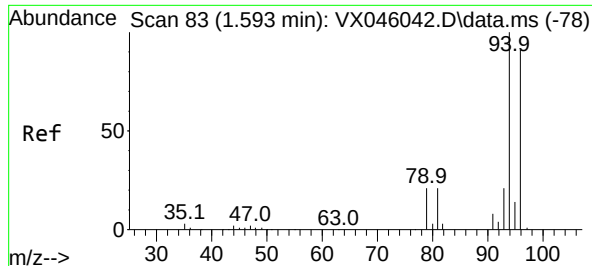
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 13.868 ug/l  
RT: 1.373 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

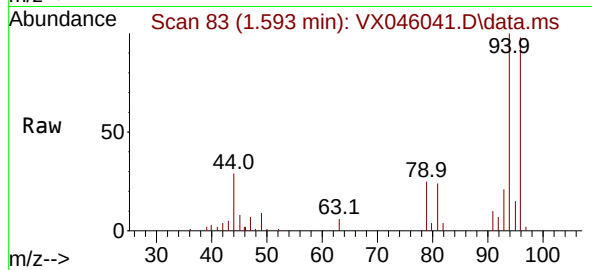
Tgt Ion: 62 Resp: 22096  
Ion Ratio Lower Upper  
62 100  
64 34.9 25.2 37.8





#5  
Bromomethane  
Concen: 12.279 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

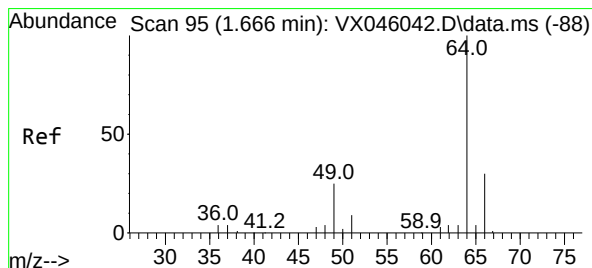
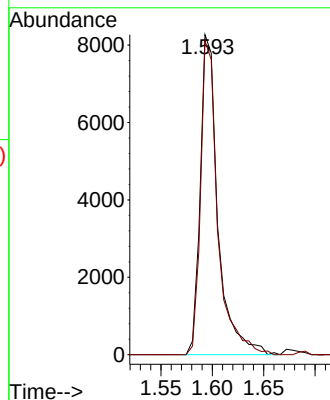
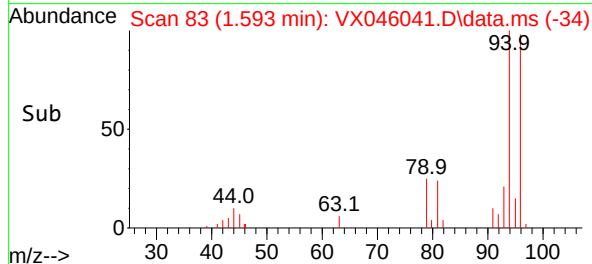
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion: 94 Resp: 9920  
Ion Ratio Lower Upper  
94 100  
96 98.1 72.8 109.2

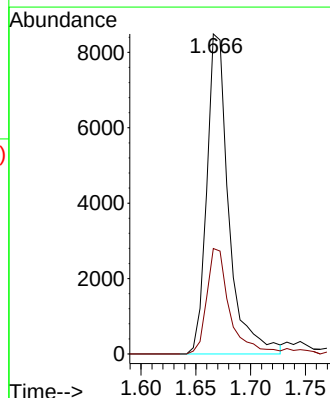
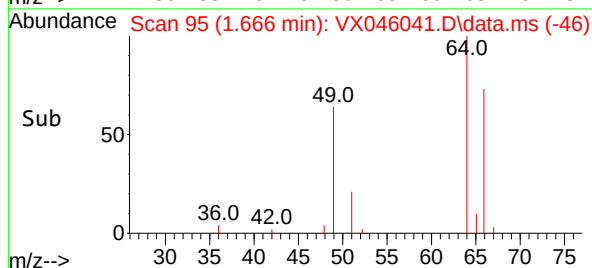
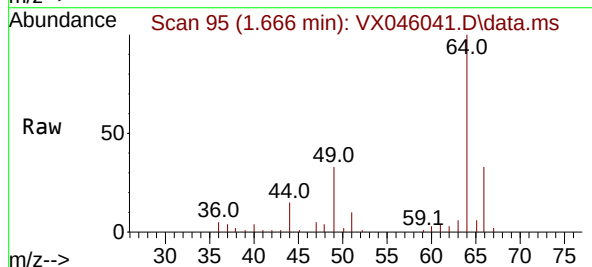
Manual Integrations  
APPROVED

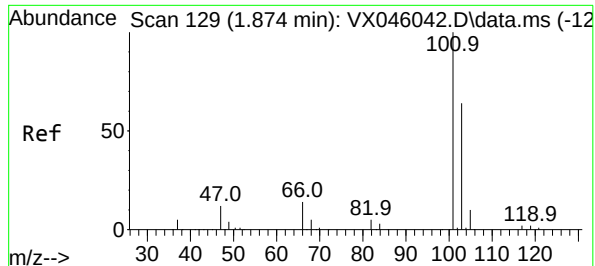
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#6  
Chloroethane  
Concen: 14.414 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

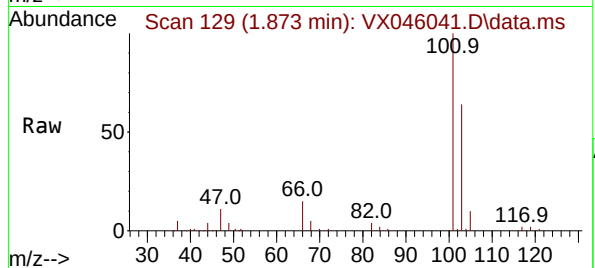
Tgt Ion: 64 Resp: 11832  
Ion Ratio Lower Upper  
64 100  
66 32.9 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 14.271 ug/l  
RT: 1.873 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

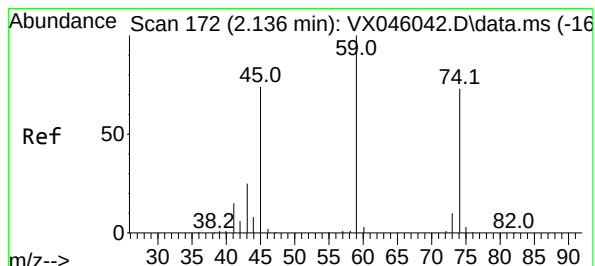
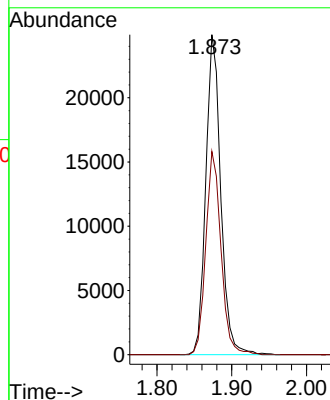
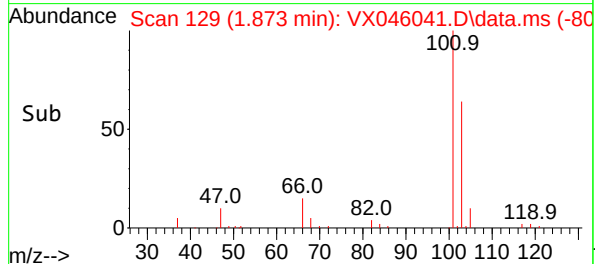
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020



Tgt Ion:101 Resp: 34630  
Ion Ratio Lower Upper  
101 100  
103 63.5 51.0 76.4

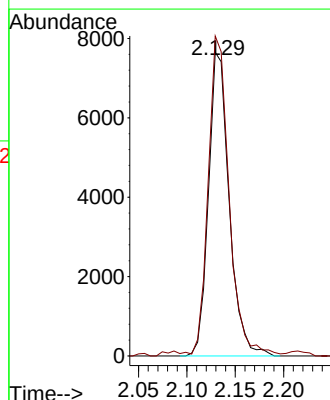
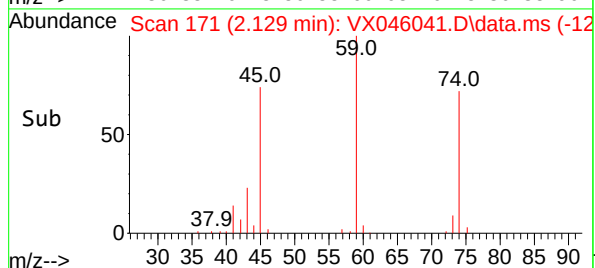
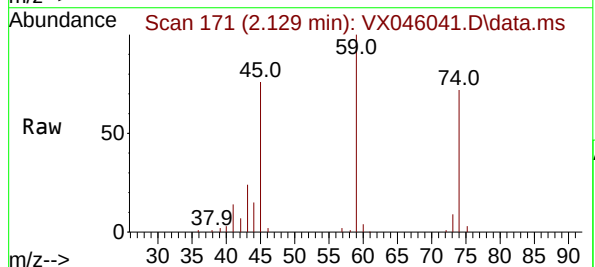
Manual Integrations  
APPROVED

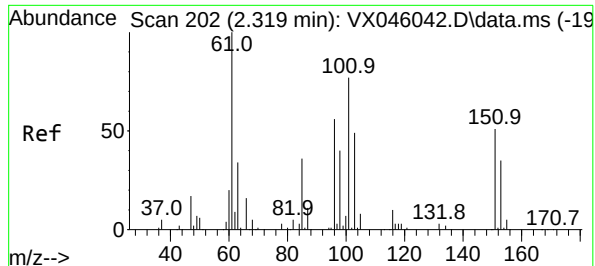
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#8  
Diethyl Ether  
Concen: 14.278 ug/l  
RT: 2.129 min Scan# 171  
Delta R.T. -0.006 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 74 Resp: 11392  
Ion Ratio Lower Upper  
74 100  
45 103.7 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 14.499 ug/l

RT: 2.324 min Scan# 202

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

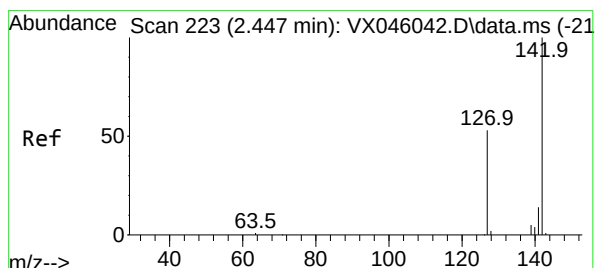
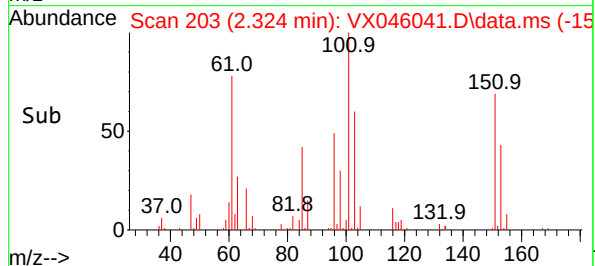
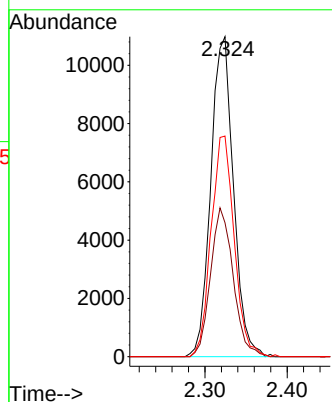
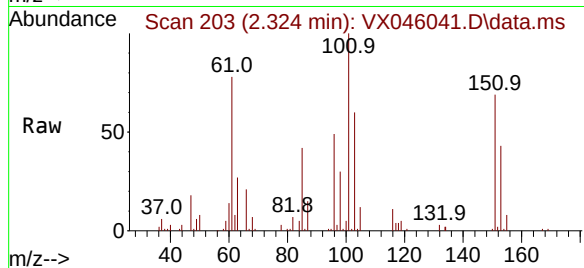
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|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 2102  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 46.6  | 38.6  | 58.0  |
| 151      | 70.4  | 55.2  | 82.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#10

Methyl Iodide

Concen: 15.070 ug/l

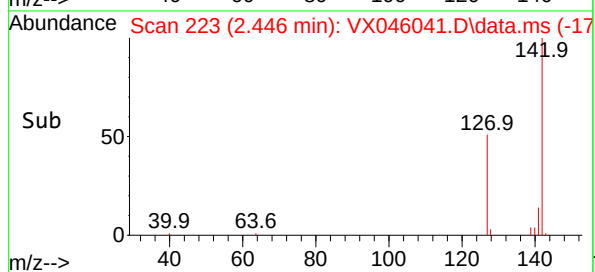
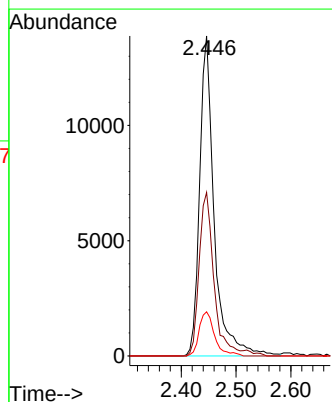
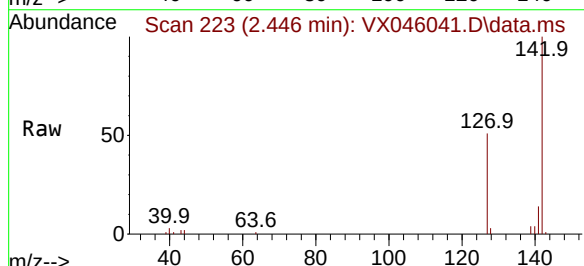
RT: 2.446 min Scan# 223

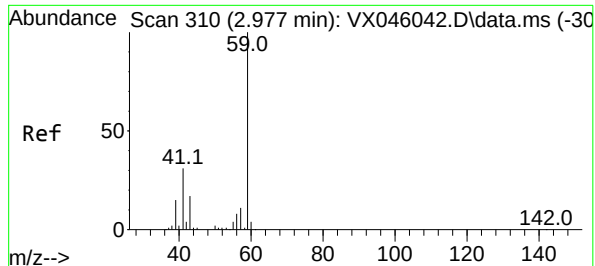
Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 25661 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 53.0  | 41.7  | 62.5  |
| 141      | 14.7  | 11.5  | 17.3  |





#11

Tert butyl alcohol

Concen: 68.662 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 20370

Ion Ratio Lower Upper

59 100

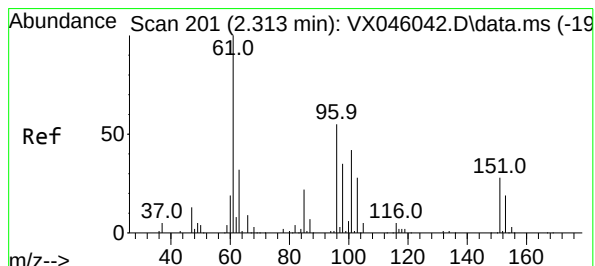
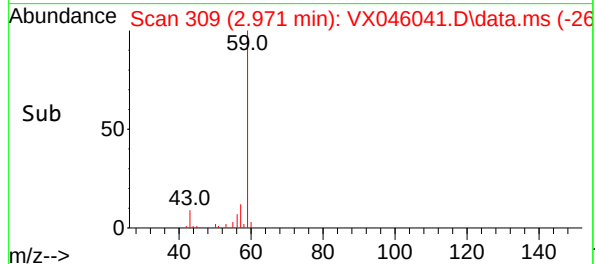
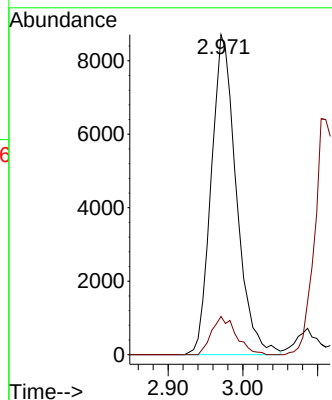
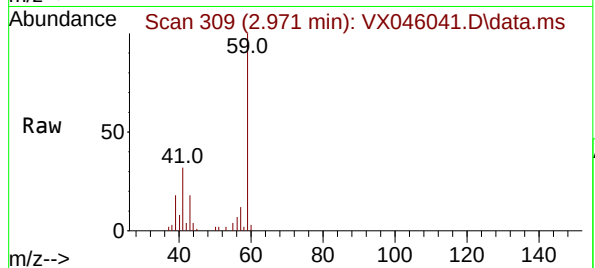
57 11.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#12

1,1-Dichloroethene

Concen: 13.385 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

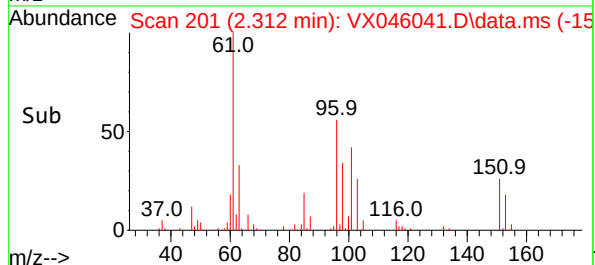
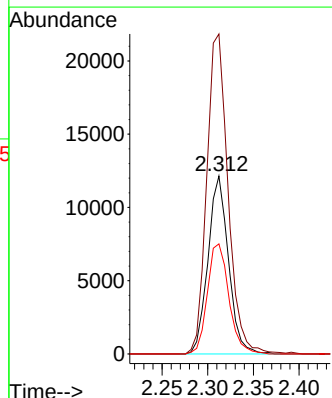
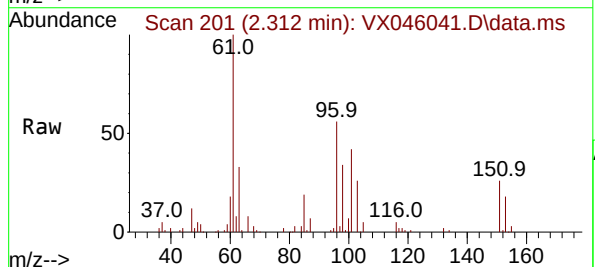
Tgt Ion: 96 Resp: 18899

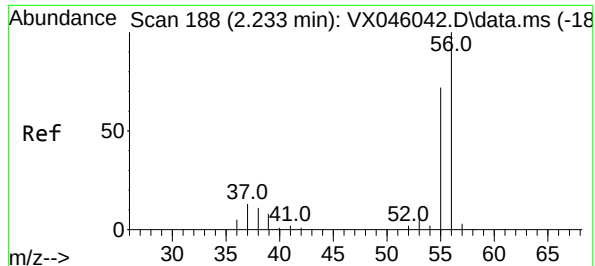
Ion Ratio Lower Upper

96 100

61 179.8 146.2 219.2

98 61.8 51.0 76.6





#13

Acrolein

Concen: 76.689 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2642

Ion Ratio Lower Upper

56 100

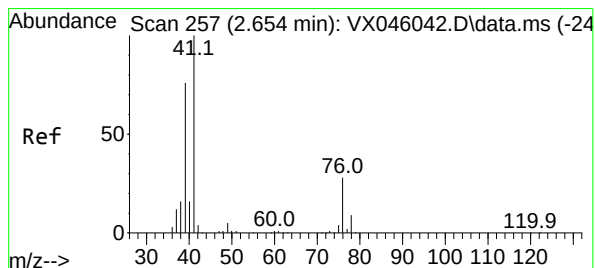
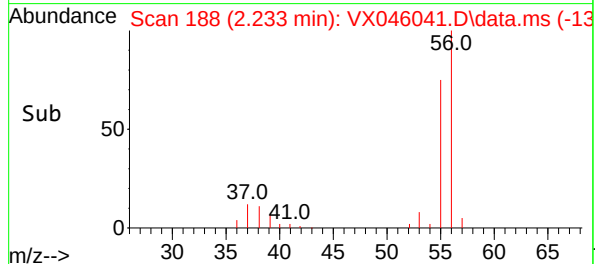
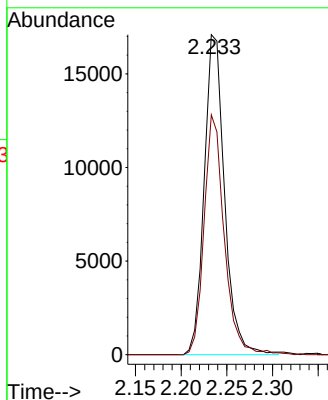
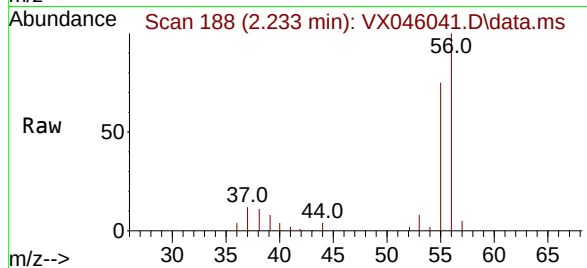
55 74.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 14.133 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

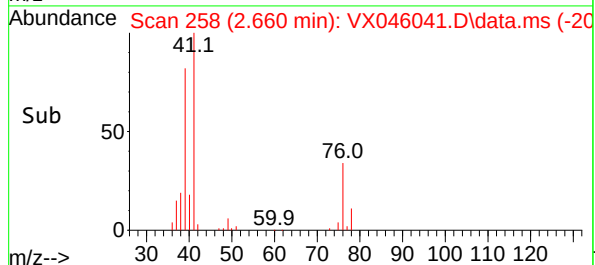
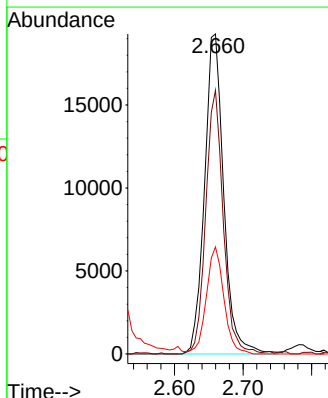
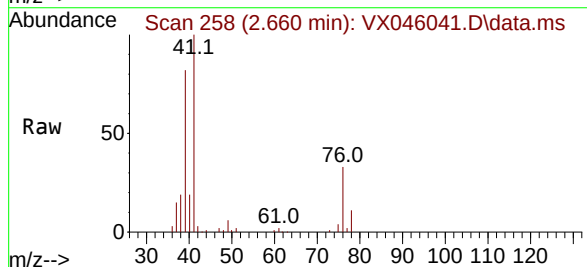
Tgt Ion: 41 Resp: 37708

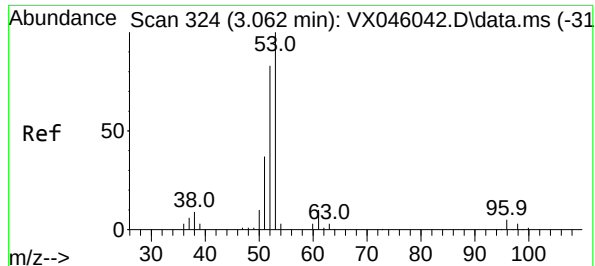
Ion Ratio Lower Upper

41 100

39 75.0 60.6 90.8

76 30.6 24.9 37.3





#15

Acrylonitrile

Concen: 71.312 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC020

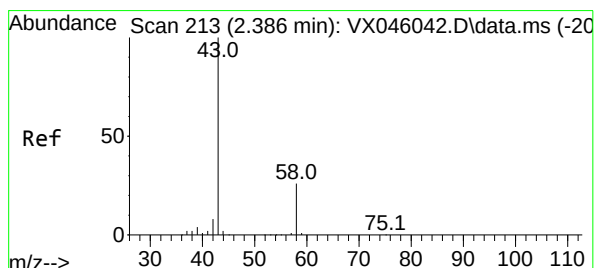
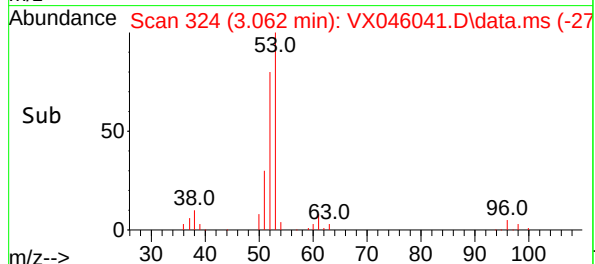
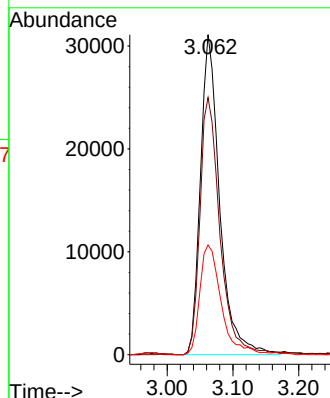
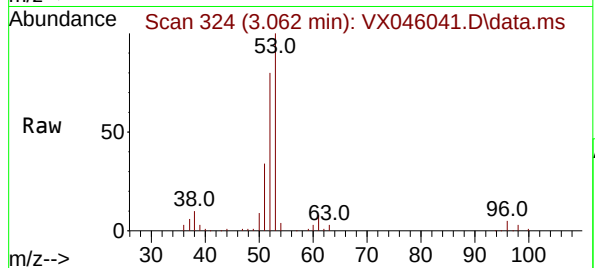
|             |             |
|-------------|-------------|
| Tgt Ion: 53 | Resp: 63290 |
| Ion Ratio   | Lower Upper |
| 53 100      |             |
| 52 83.5     | 65.3 97.9   |
| 51 38.4     | 29.8 44.8   |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 70.884 ug/l

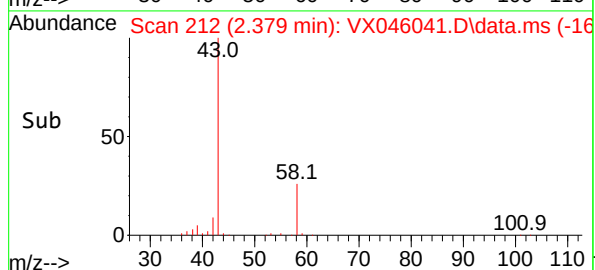
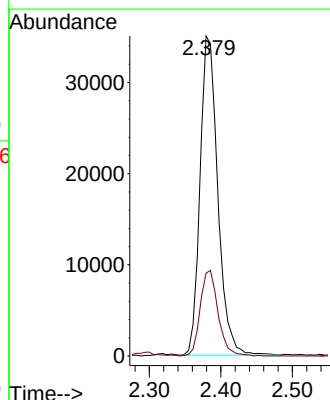
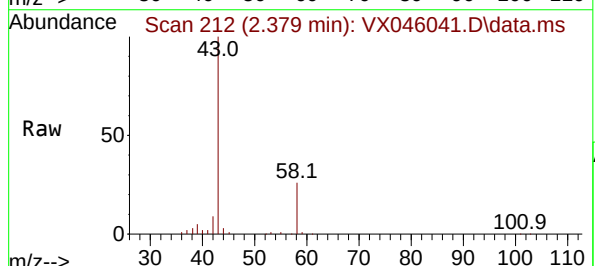
RT: 2.379 min Scan# 212

Delta R.T. -0.006 min

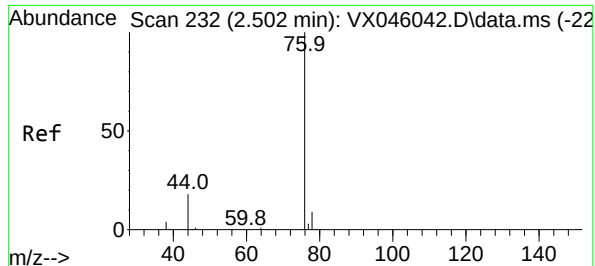
Lab File: VX046041.D

Acq: 05 May 2025 11:35

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 60363 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 26.0     | 21.2 31.8   |







#17

Carbon Disulfide

Concen: 13.251 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 4334

Ion Ratio Lower Upper

76 100

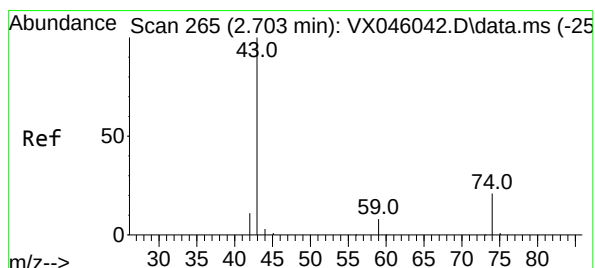
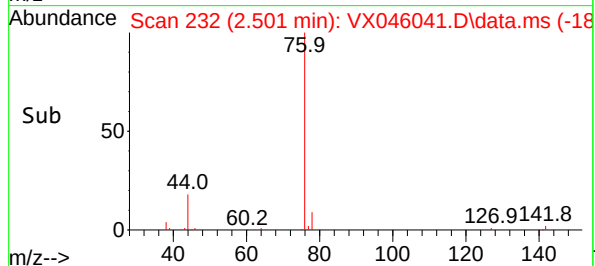
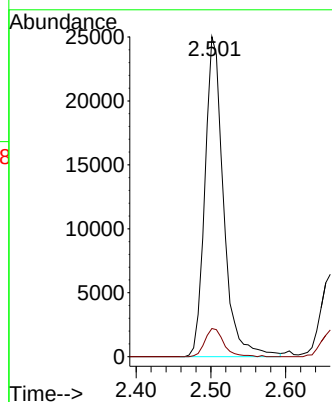
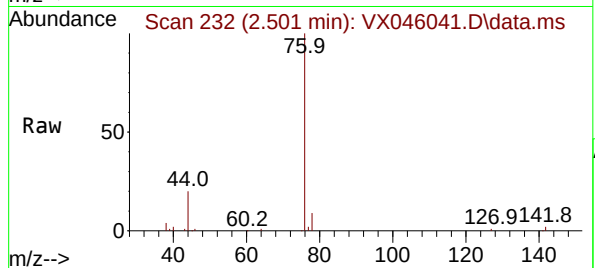
78 8.8 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 13.397 ug/l

RT: 2.702 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX046041.D

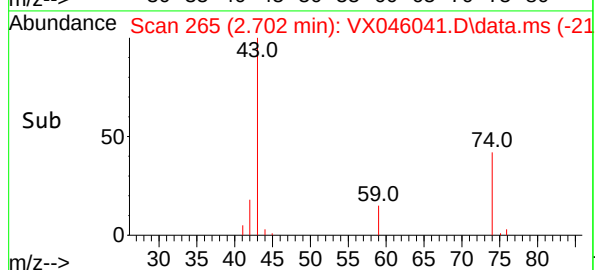
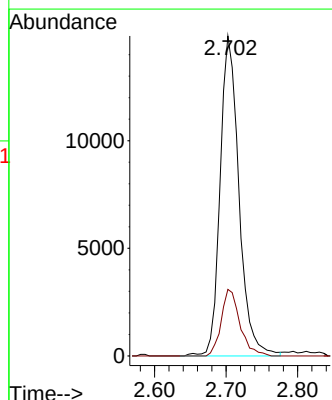
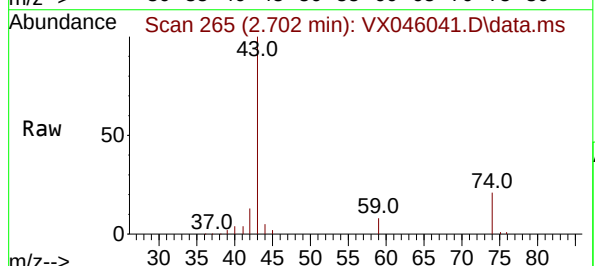
Acq: 05 May 2025 11:35

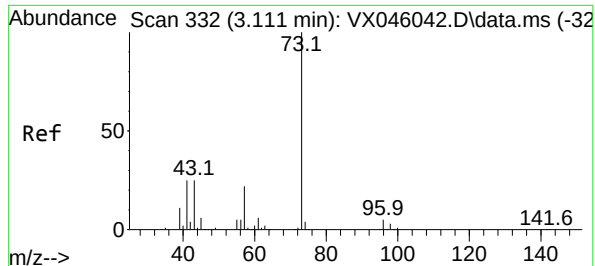
Tgt Ion: 43 Resp: 27234

Ion Ratio Lower Upper

43 100

74 20.7 16.7 25.1





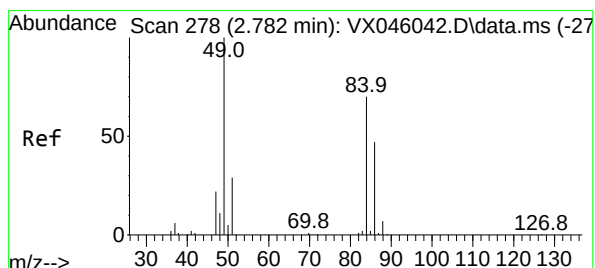
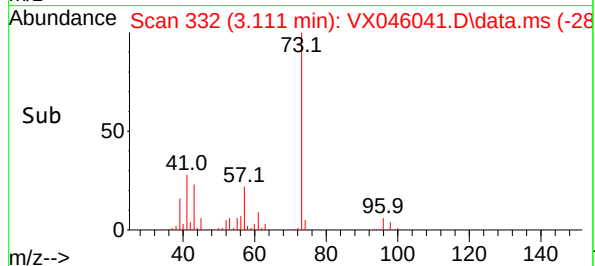
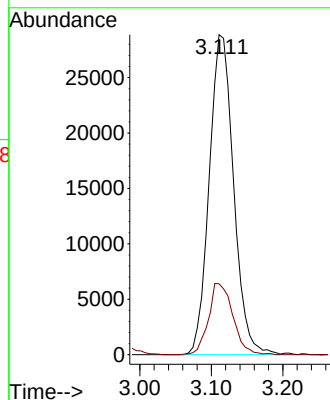
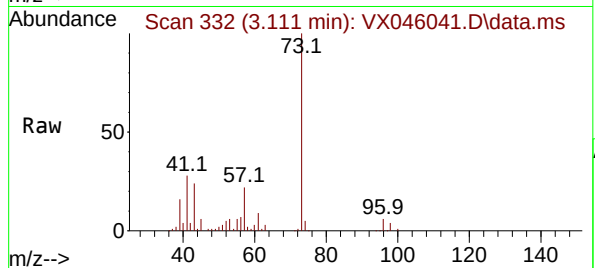
#19  
Methyl tert-butyl Ether  
Concen: 13.890 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020

Tgt Ion: 73 Resp: 6840  
Ion Ratio Lower Upper  
73 100  
57 22.2 17.7 26.5

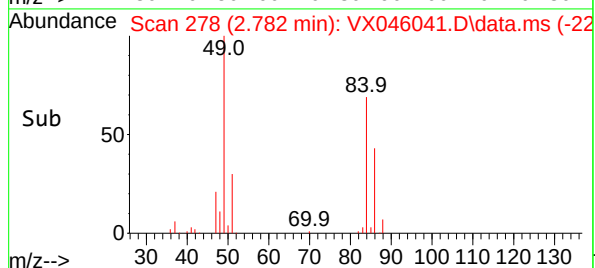
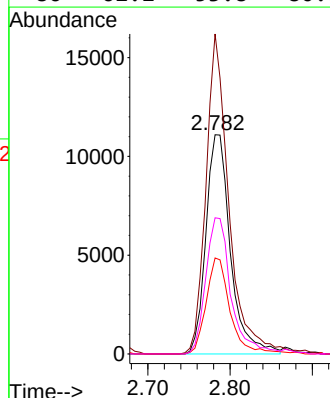
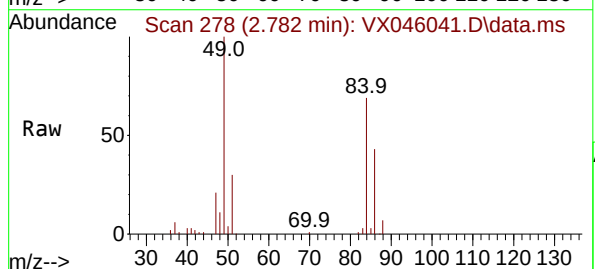
Manual Integrations  
APPROVED

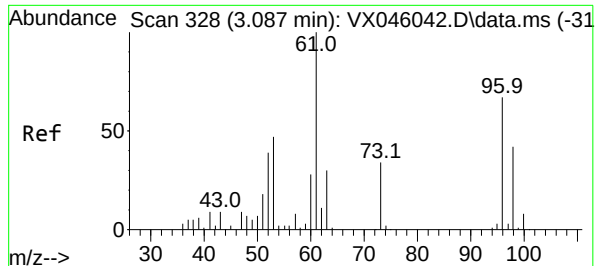
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#20  
Methylene Chloride  
Concen: 13.362 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

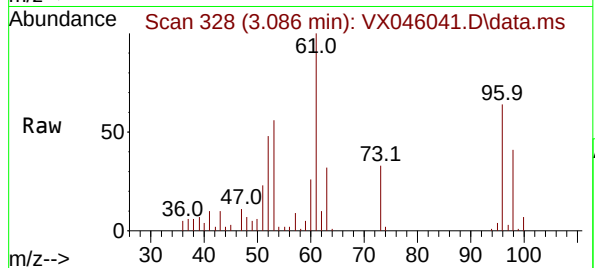
Tgt Ion: 84 Resp: 23050  
Ion Ratio Lower Upper  
84 100  
49 146.0 113.9 170.9  
51 43.8 33.5 50.3  
86 62.2 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 13.294 ug/l  
RT: 3.086 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

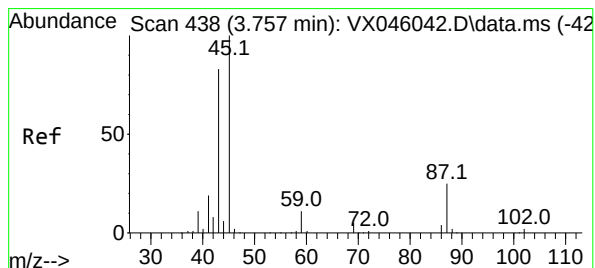
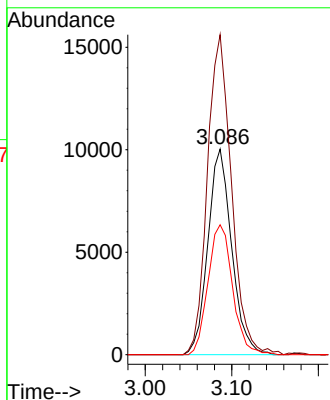
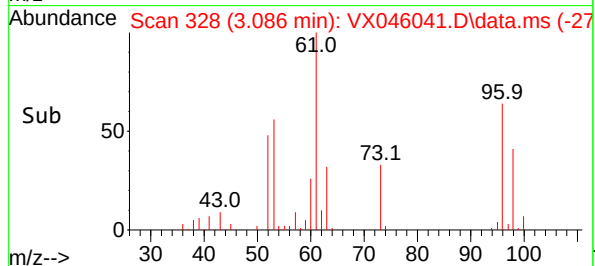
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020



Tgt Ion: 96 Resp: 1916  
Ion Ratio Lower Upper  
96 100  
61 155.6 119.5 179.3  
98 63.2 50.0 75.0

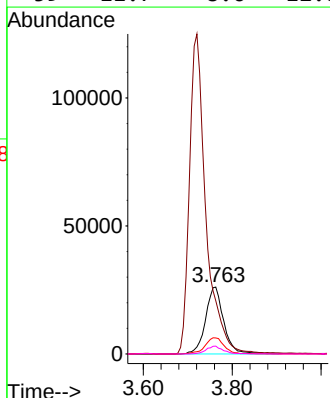
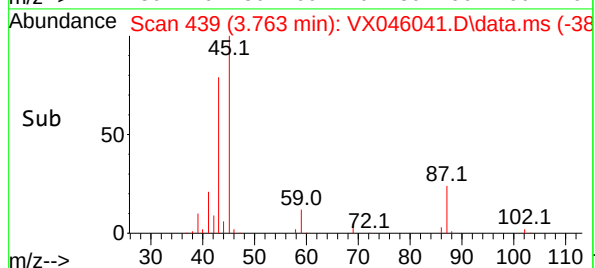
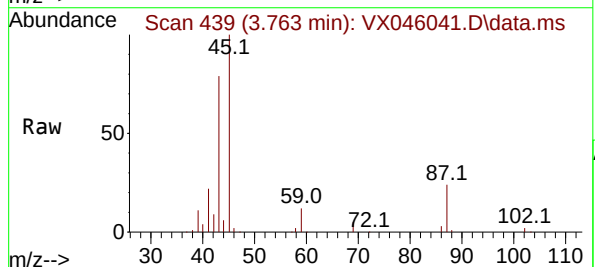
Manual Integrations  
APPROVED

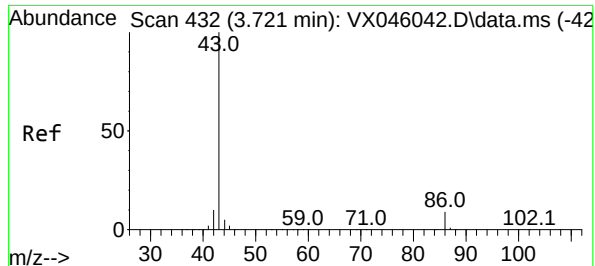
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 14.896 ug/l  
RT: 3.763 min Scan# 439  
Delta R.T. 0.006 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 45 Resp: 74257  
Ion Ratio Lower Upper  
45 100  
43 78.2 66.6 100.0  
87 24.0 19.8 29.6  
59 11.7 8.6 12.8





#23

Vinyl Acetate

Concen: 73.230 ug/l

RT: 3.720 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 322598

Ion Ratio Lower Upper

43 100

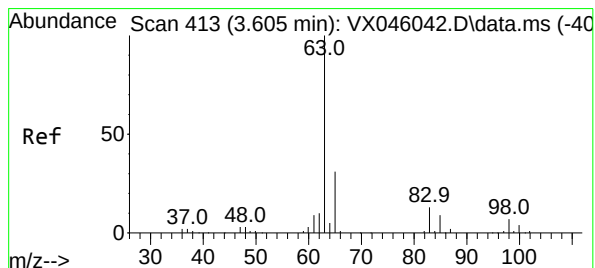
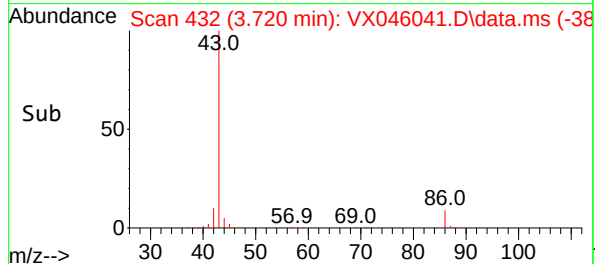
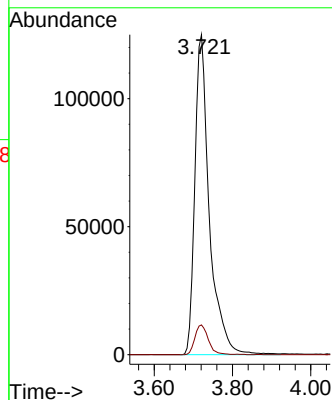
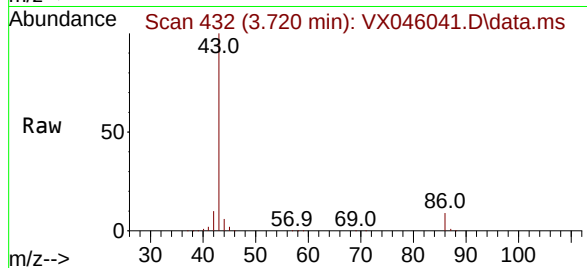
86 9.3 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#24

1,1-Dichloroethane

Concen: 14.082 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

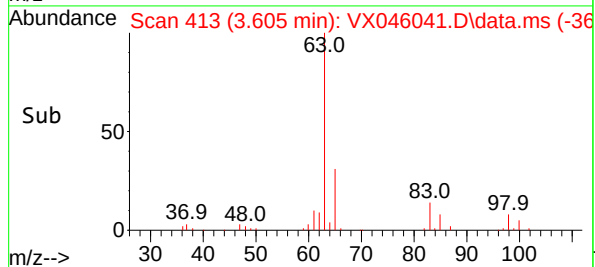
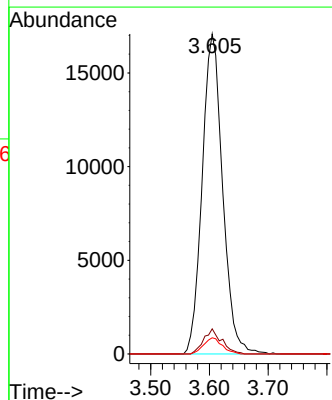
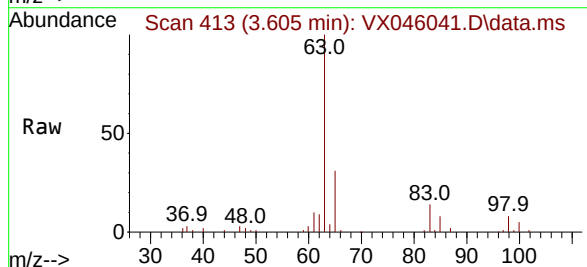
Tgt Ion: 63 Resp: 41257

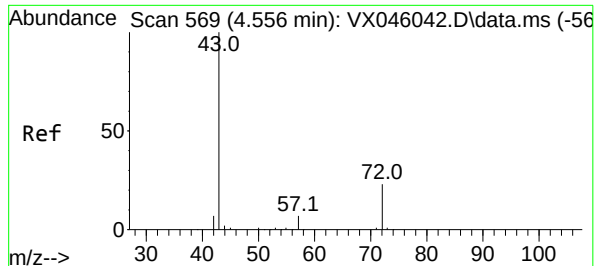
Ion Ratio Lower Upper

63 100

98 7.9 3.6 10.8

100 5.0 2.1 6.3





#25

2-Butanone

Concen: 73.489 ug/l

RT: 4.556 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 9033

Ion Ratio Lower Upper

43 100

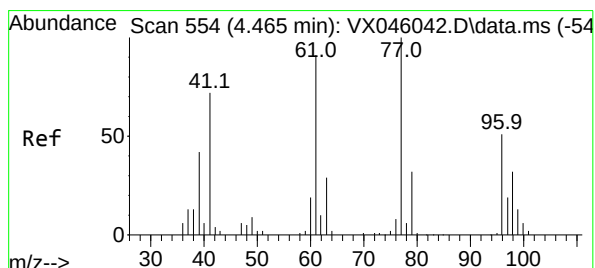
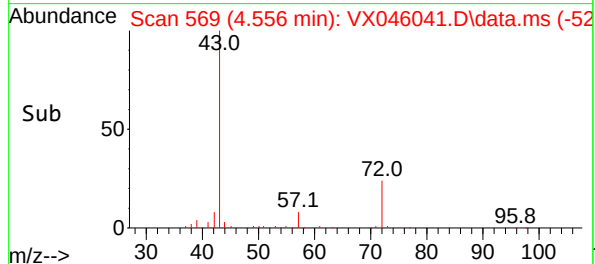
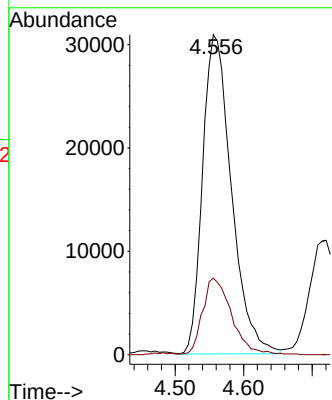
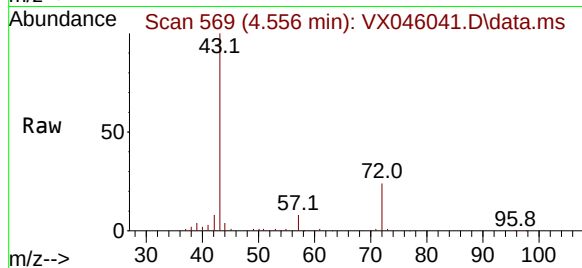
72 23.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 13.729 ug/l

RT: 4.470 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX046041.D

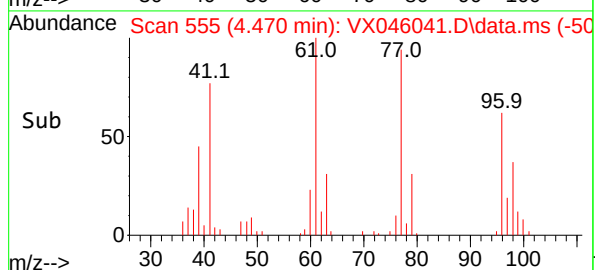
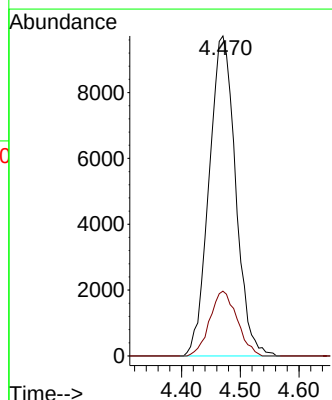
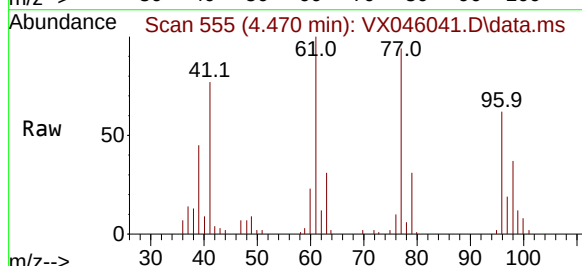
Acq: 05 May 2025 11:35

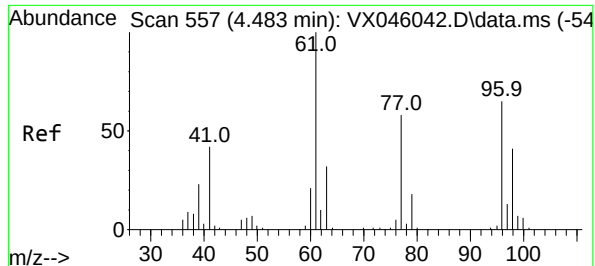
Tgt Ion: 77 Resp: 30472

Ion Ratio Lower Upper

77 100

97 20.9 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 13.791 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 23970

Ion Ratio Lower Upper

96 100

61 158.3 0.0 322.8

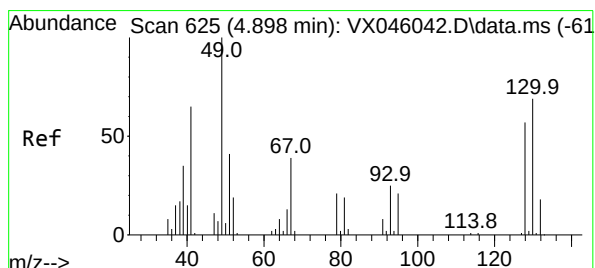
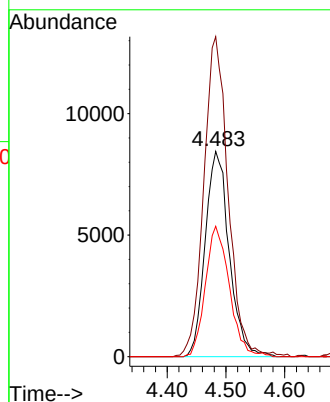
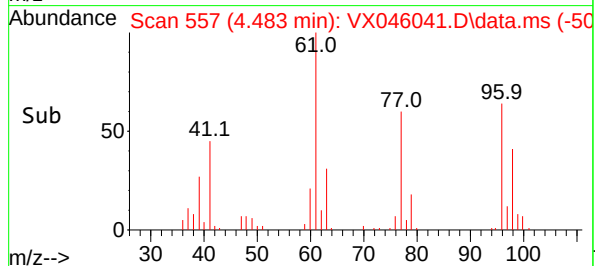
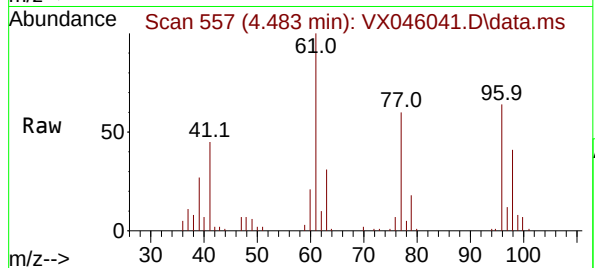
98 63.5 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 13.497 ug/l

RT: 4.897 min Scan# 625

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

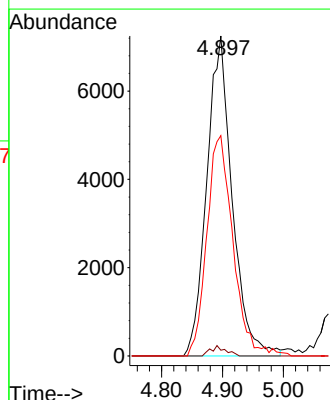
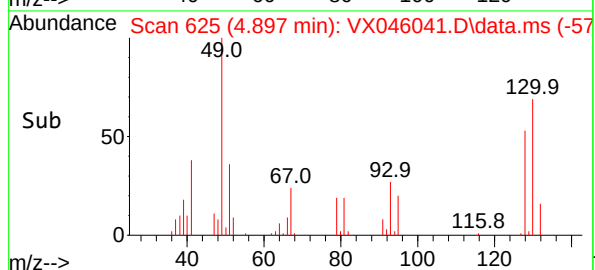
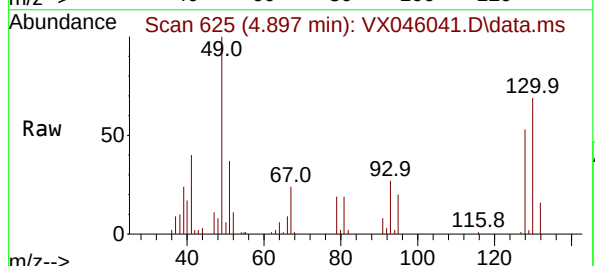
Tgt Ion: 49 Resp: 21028

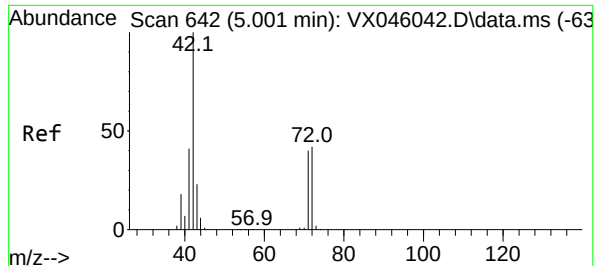
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 70.9 56.2 84.2





#29

Tetrahydrofuran

Concen: 71.175 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

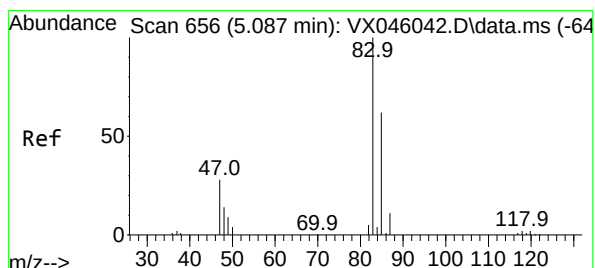
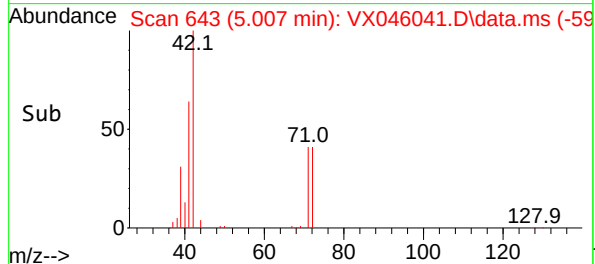
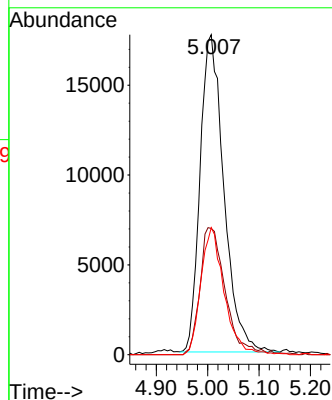
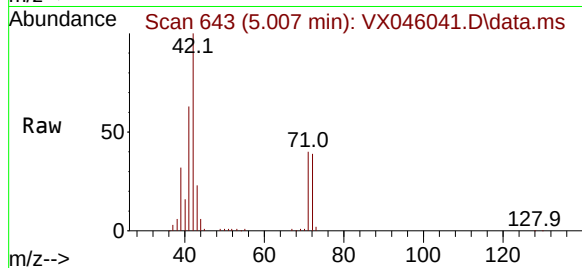
VSTDIC020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 56819 |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 42.3  | 33.7  | 50.5  |
| 71        | 39.2  | 31.4  | 47.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 14.144 ug/l

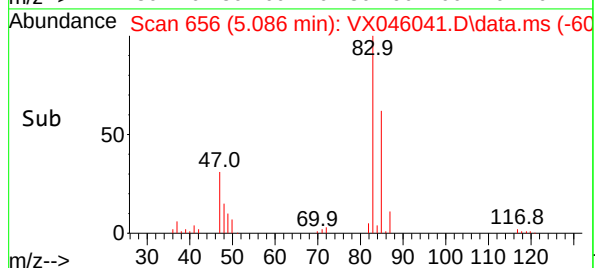
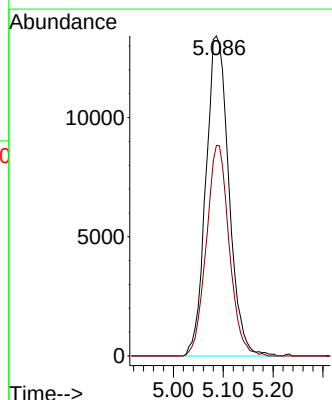
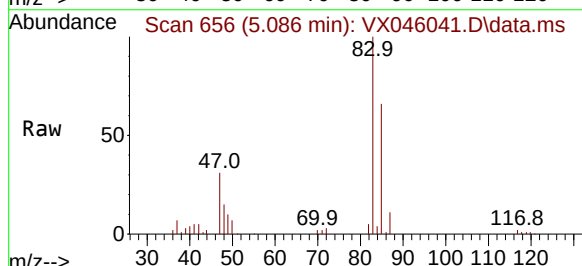
RT: 5.086 min Scan# 656

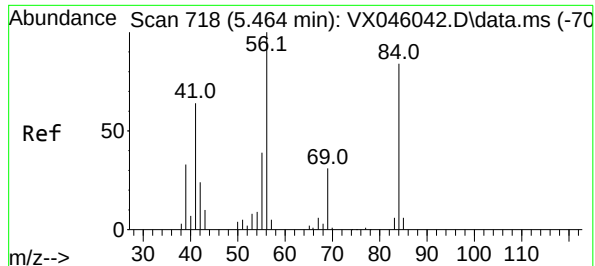
Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 43065 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 65.7  | 49.3  | 73.9  |





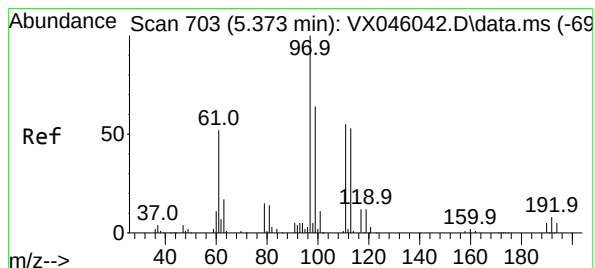
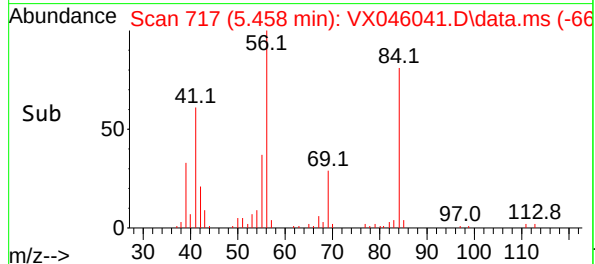
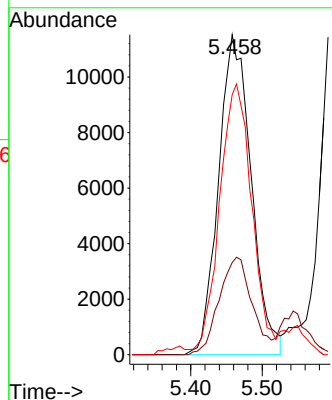
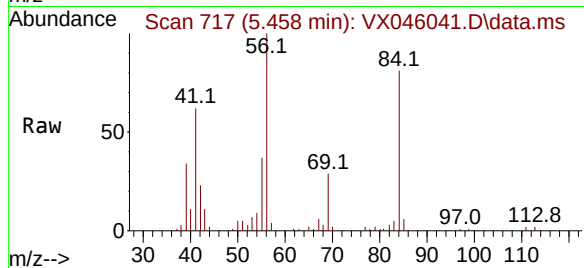
#31  
Cyclohexane  
Concen: 14.769 ug/l  
RT: 5.458 min Scan# 718  
Delta R.T. -0.006 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Tgt Ion: 56 Resp: 36470  
Ion Ratio Lower Upper  
56 100  
69 28.8 24.4 36.6  
84 78.5 66.9 100.3

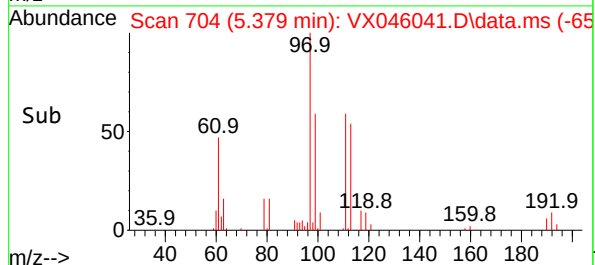
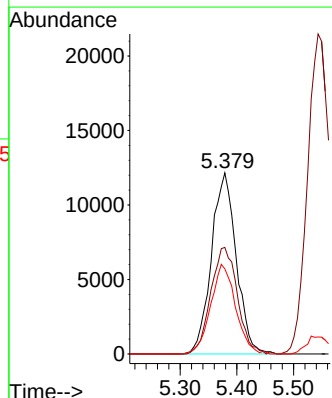
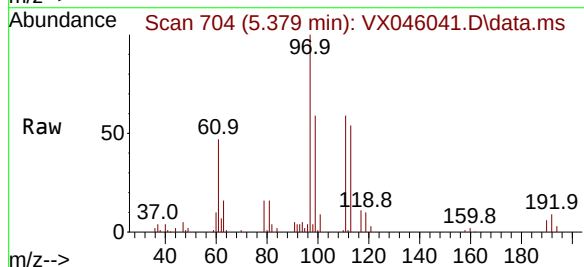
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

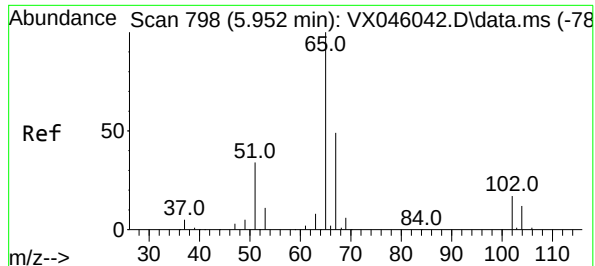


#32  
1,1,1-Trichloroethane  
Concen: 14.092 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. 0.006 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 97 Resp: 37003  
Ion Ratio Lower Upper  
97 100  
99 62.8 51.8 77.6  
61 49.5 40.1 60.1







#33

1,2-Dichloroethane-d4

Concen: 12.820 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 31909

Ion Ratio Lower Upper

65 100

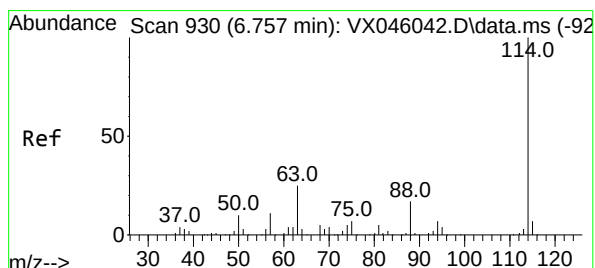
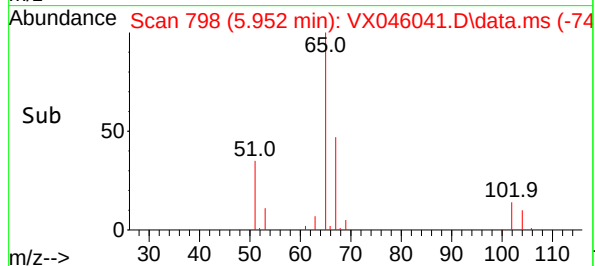
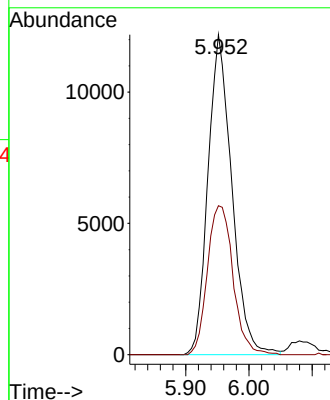
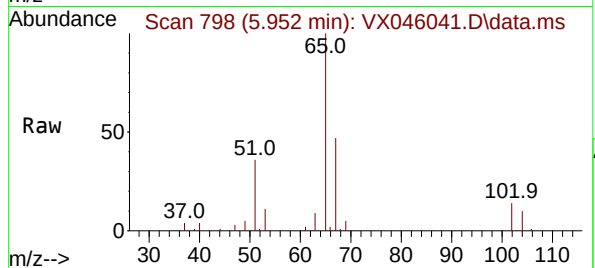
67 49.9 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

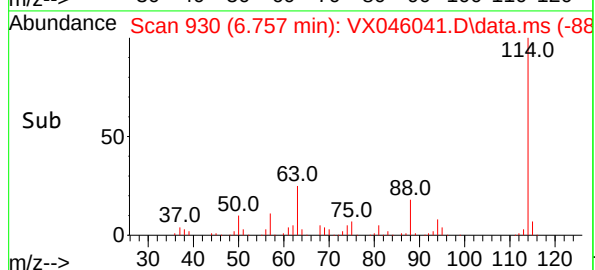
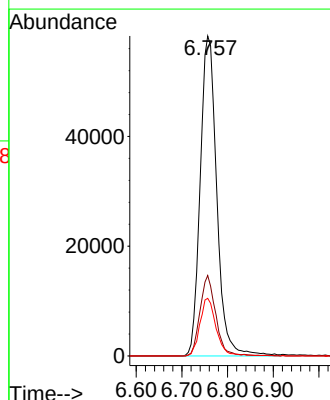
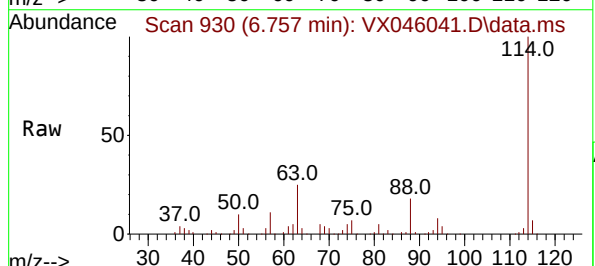
Tgt Ion:114 Resp: 147096

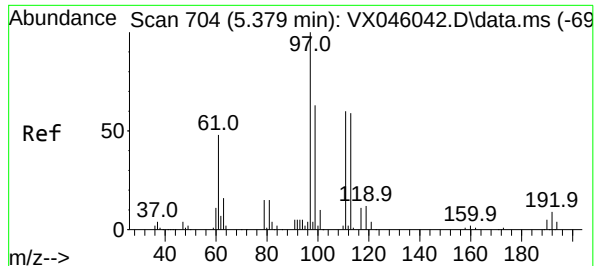
Ion Ratio Lower Upper

114 100

63 25.2 0.0 49.2

88 18.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 12.804 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

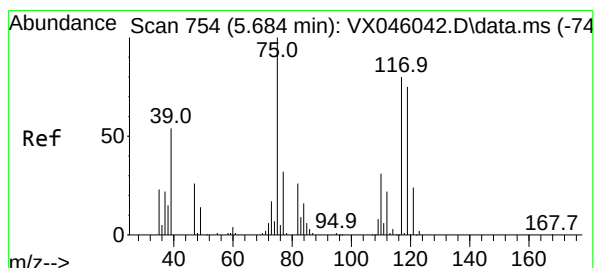
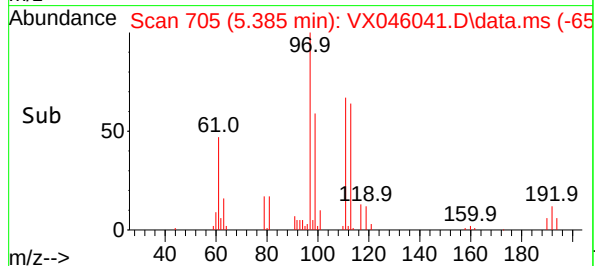
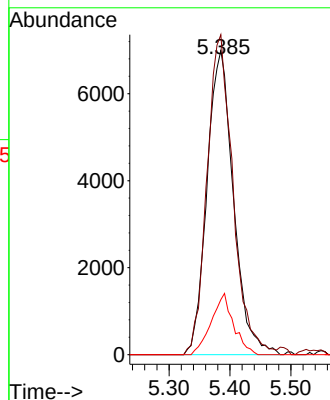
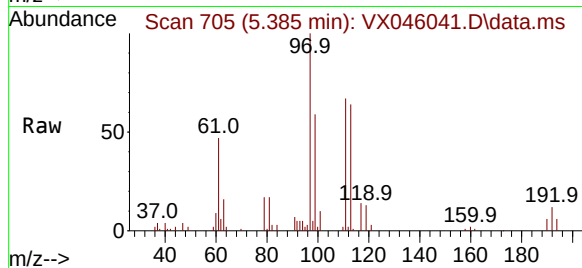
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 2111  |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.0 | 83.1  | 124.7 |
| 192      | 17.0  | 13.3  | 19.9  |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#36

1,1-Dichloropropene

Concen: 14.231 ug/l

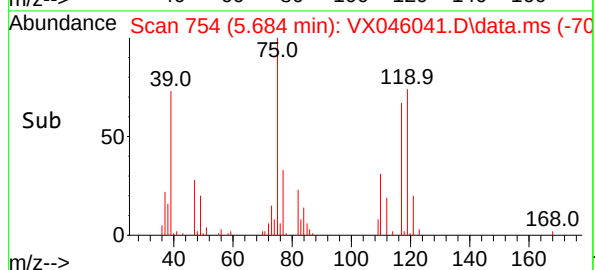
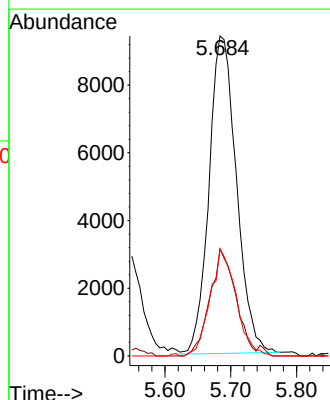
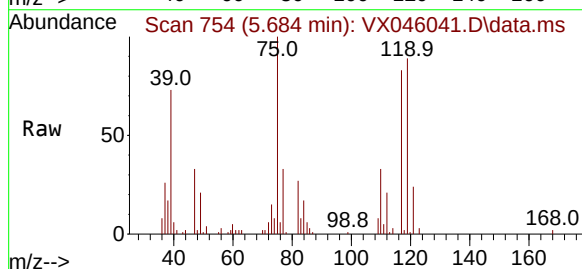
RT: 5.684 min Scan# 754

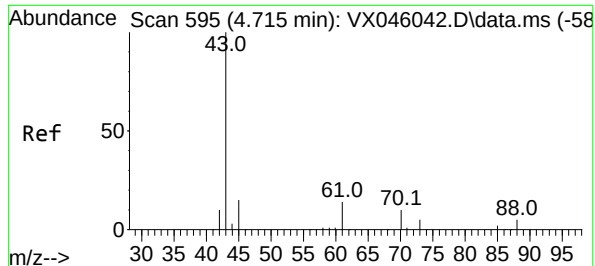
Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 27242 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 31.6  | 16.3  | 48.9  |
| 77       | 31.9  | 24.3  | 36.5  |





#37

Ethyl Acetate

Concen: 13.931 ug/l

RT: 4.720 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

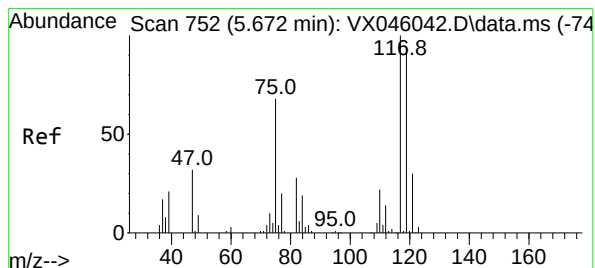
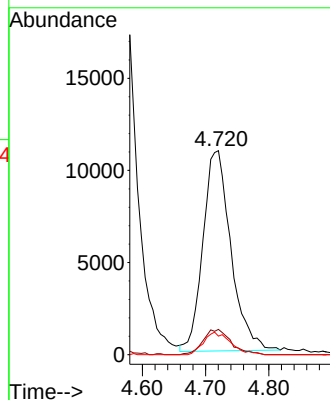
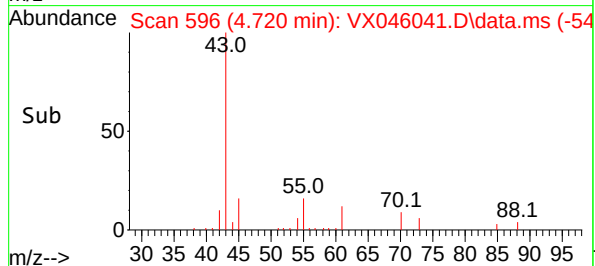
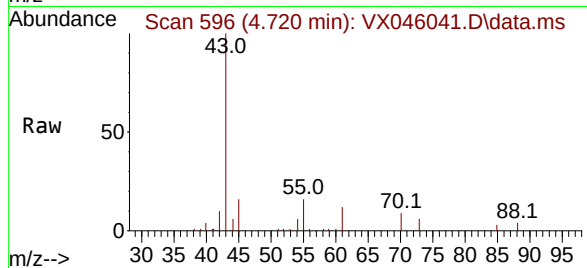
VSTDIC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3345  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 12.6  | 10.3  | 15.5  |
| 70       | 10.9  | 7.9   | 11.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#38

Carbon Tetrachloride

Concen: 14.137 ug/l

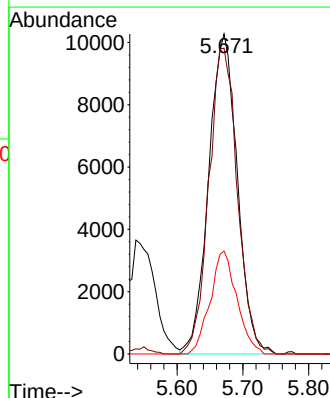
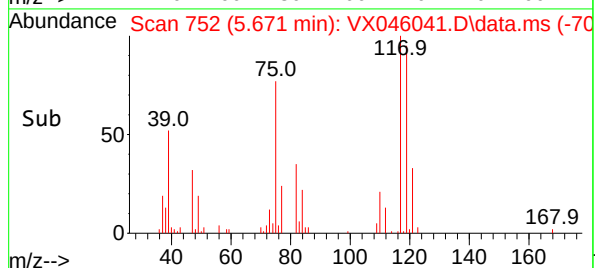
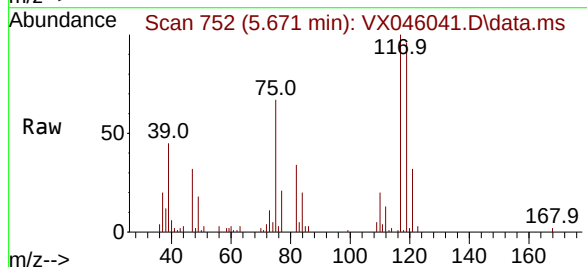
RT: 5.671 min Scan# 752

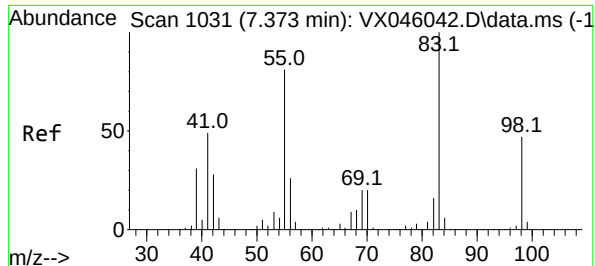
Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 31091 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 95.6  | 75.2  | 112.8 |
| 121      | 32.1  | 24.2  | 36.4  |





#39

Methylcyclohexane

Concen: 14.623 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

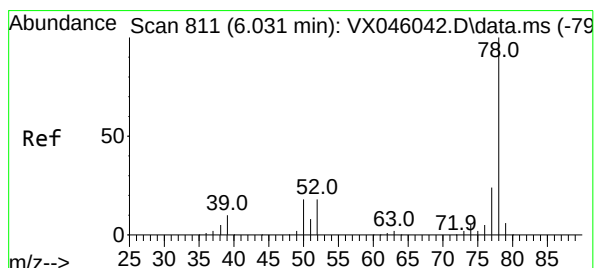
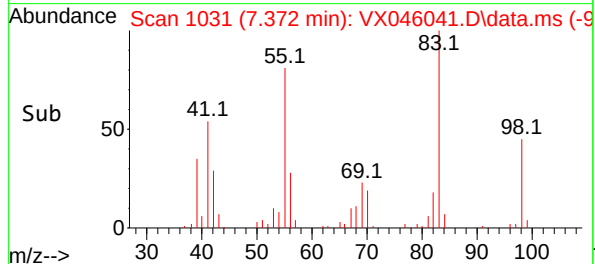
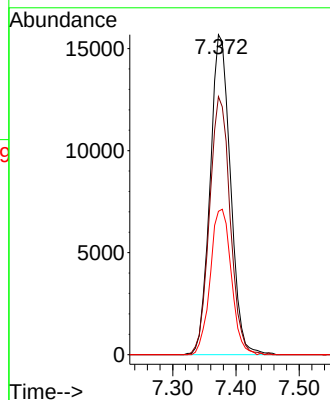
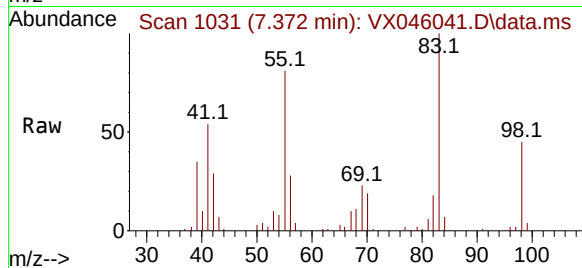
VSTDIC020

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 3507  |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 55 80.7     | 64.7 97.1   |
| 98 44.8     | 37.4 56.2   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#40

Benzene

Concen: 14.140 ug/l

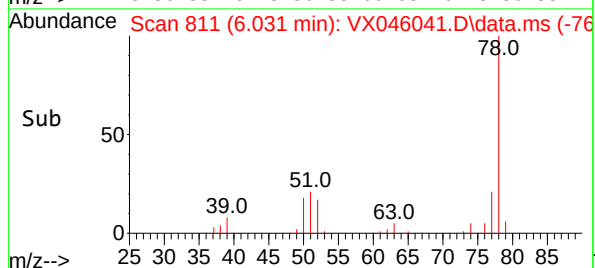
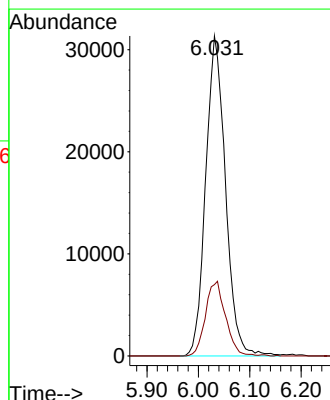
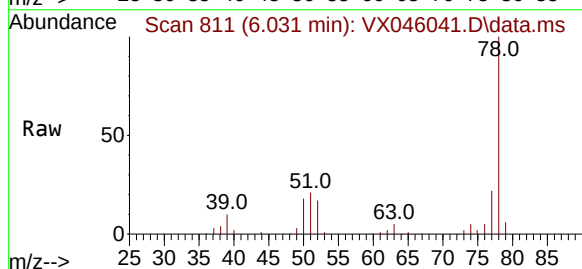
RT: 6.031 min Scan# 811

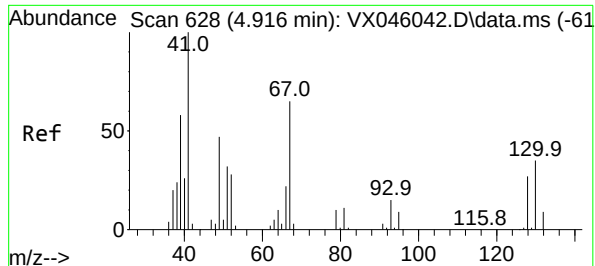
Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

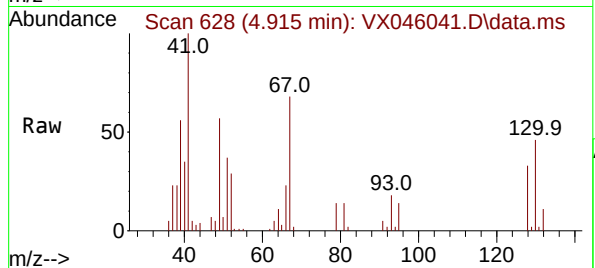
|             |             |
|-------------|-------------|
| Tgt Ion: 78 | Resp: 83898 |
| Ion Ratio   | Lower Upper |
| 78 100      |             |
| 77 22.3     | 19.0 28.4   |





#41  
Methacrylonitrile  
Concen: 14.038 ug/l  
RT: 4.915 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

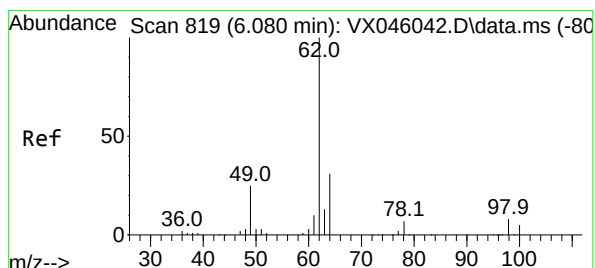
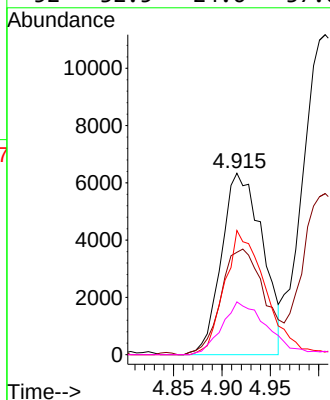
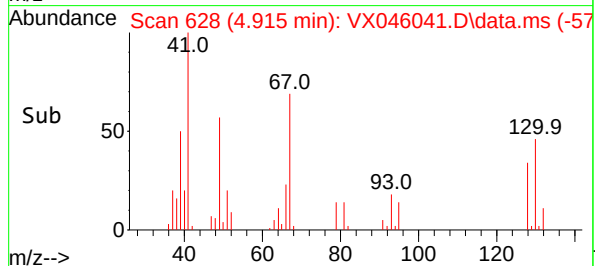
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion: 41 Resp: 18732  
Ion Ratio Lower Upper  
41 100  
39 62.6 47.2 70.8  
67 68.3 50.7 76.1  
52 32.5 24.6 37.0

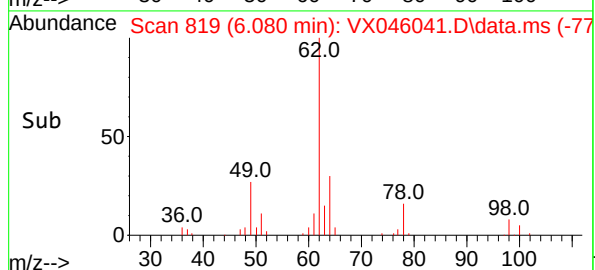
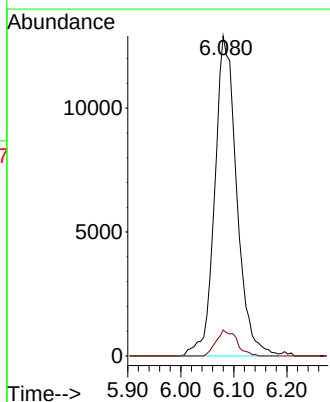
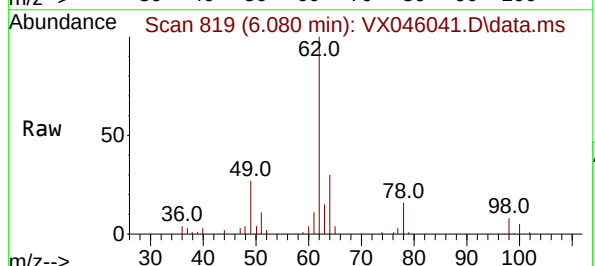
Manual Integrations  
APPROVED

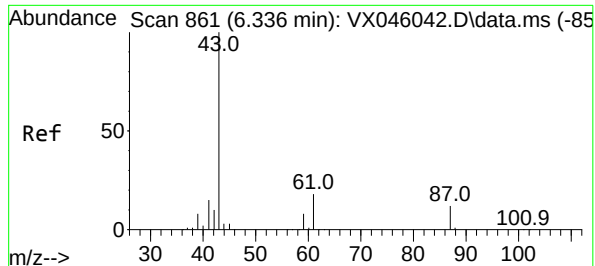
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#42  
1,2-Dichloroethane  
Concen: 15.165 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 37203  
Ion Ratio Lower Upper  
62 100  
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 14.512 ug/l

RT: 6.342 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

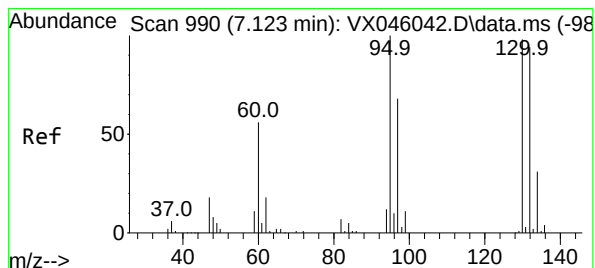
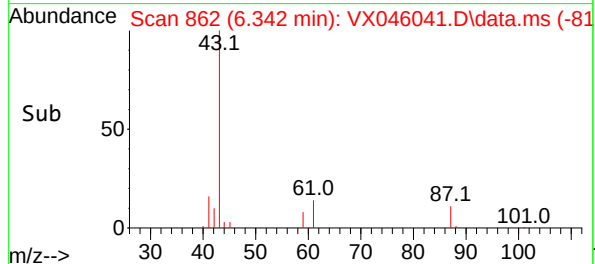
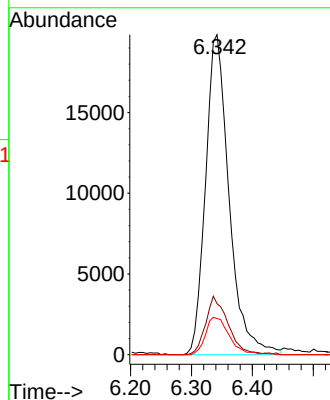
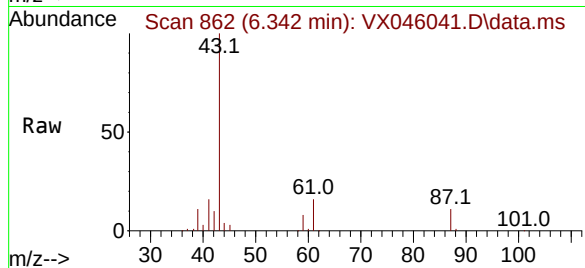
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5327  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 17.3  | 14.3  | 21.5  |
| 87       | 11.6  | 9.5   | 14.3  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#44

Trichloroethene

Concen: 14.429 ug/l

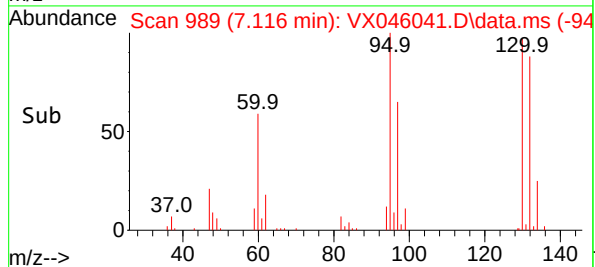
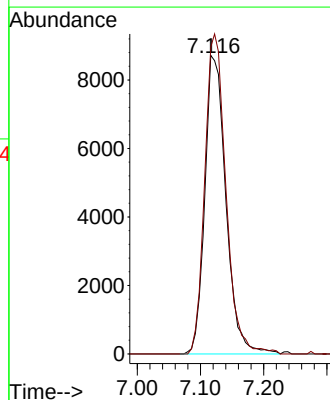
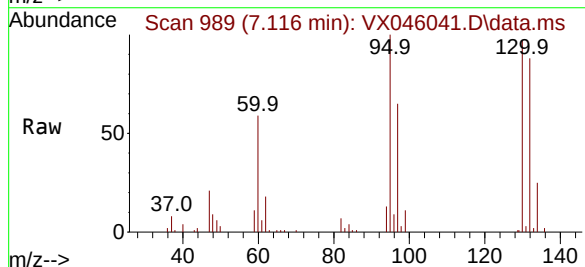
RT: 7.116 min Scan# 989

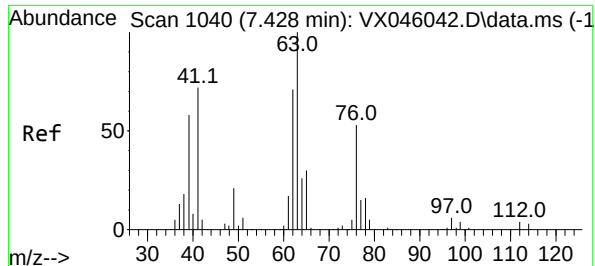
Delta R.T. -0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 20239 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 102.8 | 0.0   | 204.2 |





#45

1,2-Dichloropropane

Concen: 14.204 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 20940

Ion Ratio Lower Upper

63 100

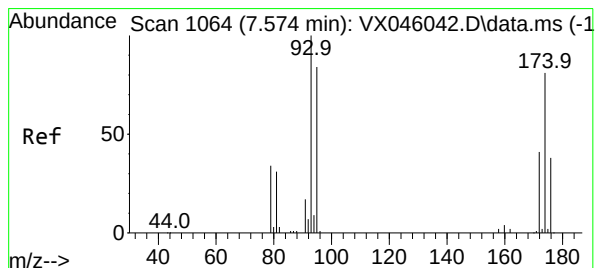
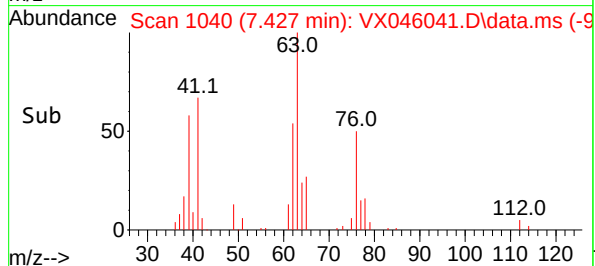
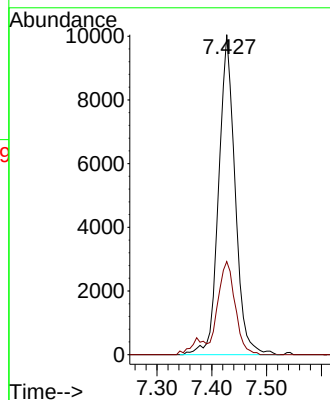
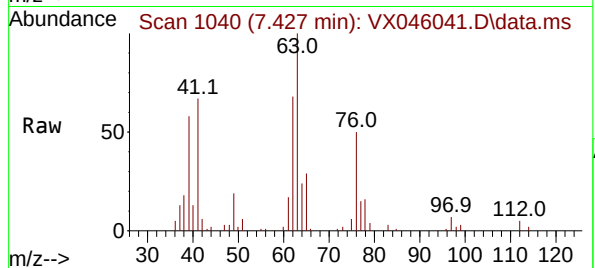
65 29.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#46

Dibromomethane

Concen: 14.439 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

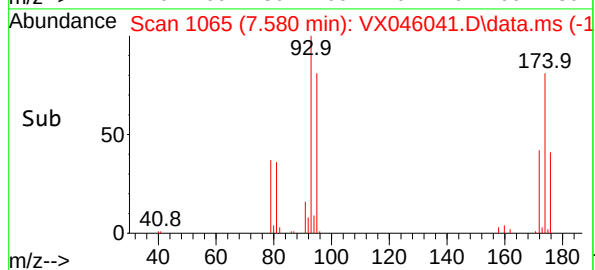
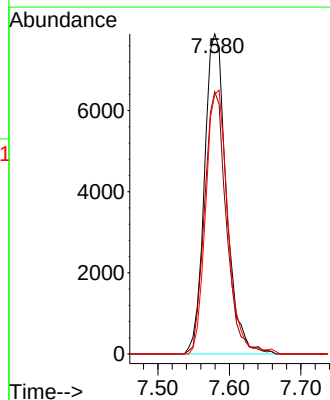
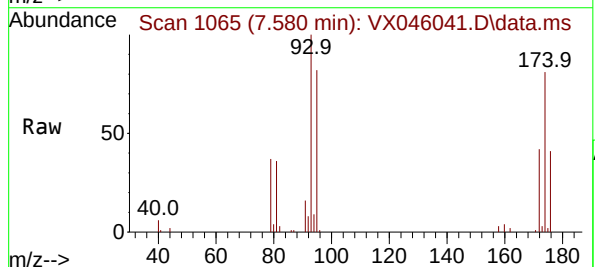
Tgt Ion: 93 Resp: 16781

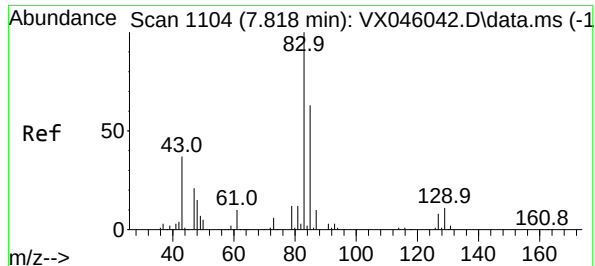
Ion Ratio Lower Upper

93 100

95 81.5 65.6 98.4

174 83.1 68.2 102.2





#47

Bromodichloromethane

Concen: 14.545 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 32762

Ion Ratio Lower Upper

83 100

85 68.4 50.5 75.7

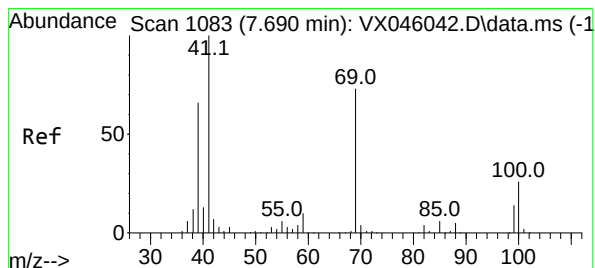
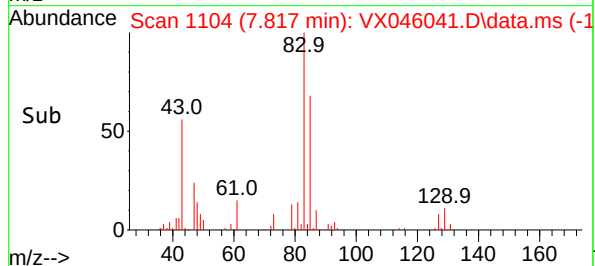
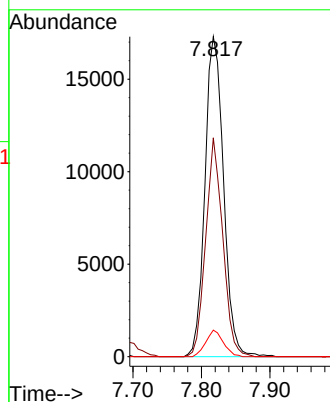
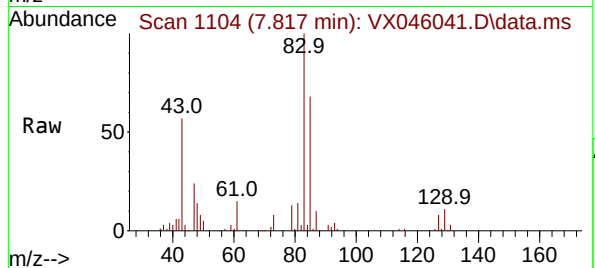
127 8.3 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#48

Methyl methacrylate

Concen: 14.521 ug/l

RT: 7.689 min Scan# 1083

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

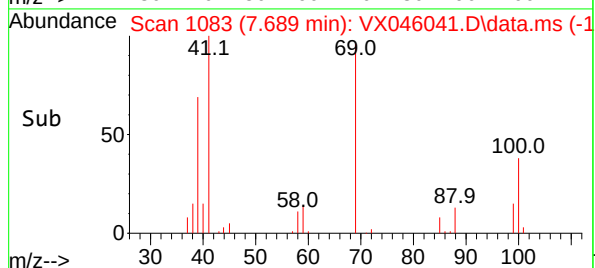
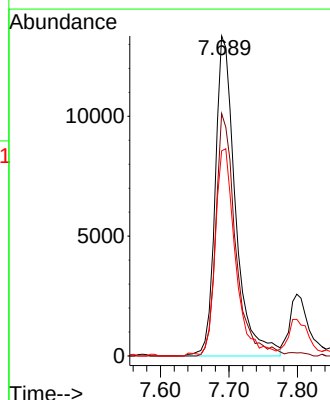
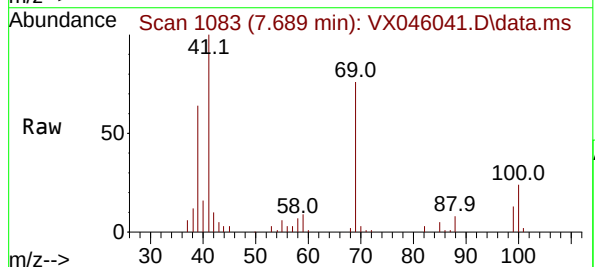
Tgt Ion: 41 Resp: 27374

Ion Ratio Lower Upper

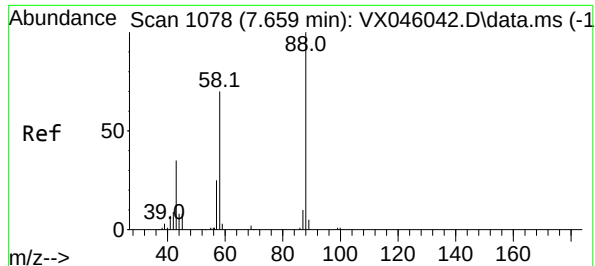
41 100

69 73.5 58.5 87.7

39 64.9 51.7 77.5







#49

1,4-Dioxane

Concen: 282.442 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC020

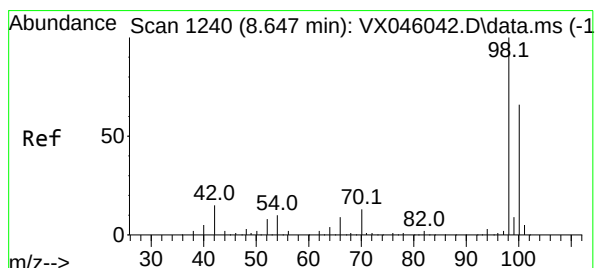
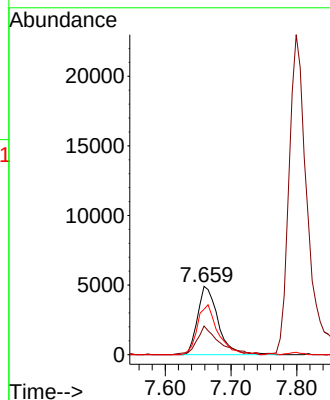
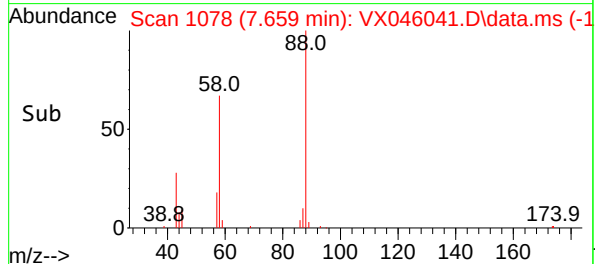
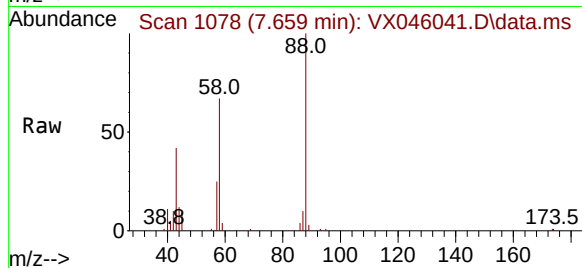
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 1058  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 45.5  | 33.4  | 50.2  |
| 58       | 73.6  | 58.6  | 88.0  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#50

Toluene-d8

Concen: 13.200 ug/l

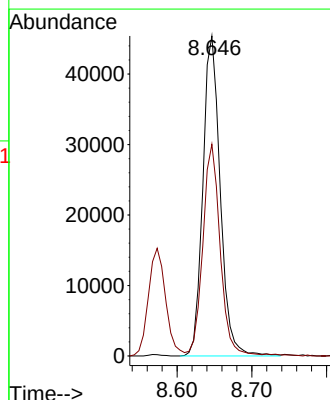
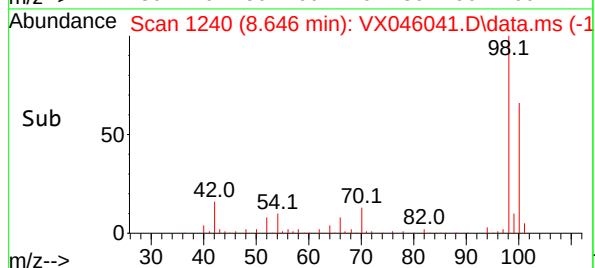
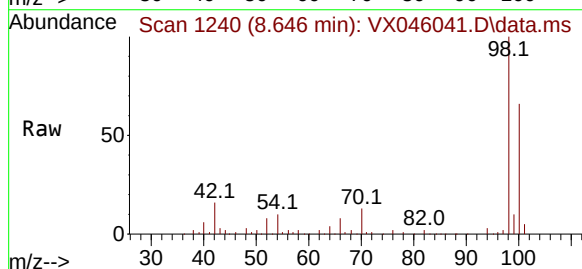
RT: 8.646 min Scan# 1240

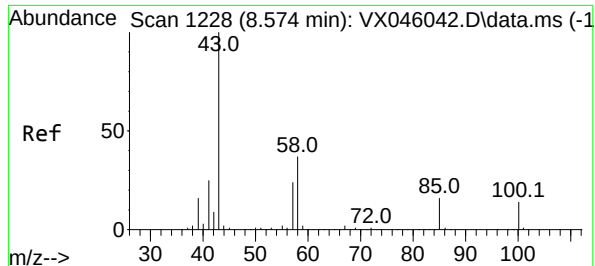
Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

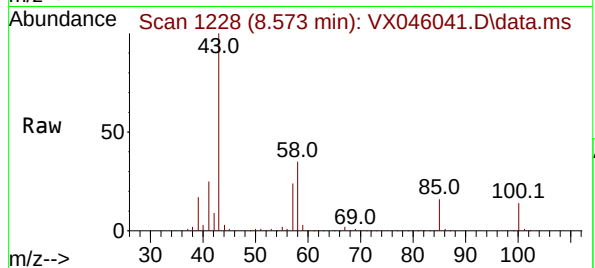
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 73333 |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 64.8  | 53.5  | 80.3  |





#51  
4-Methyl-2-Pentanone  
Concen: 75.775 ug/l  
RT: 8.573 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

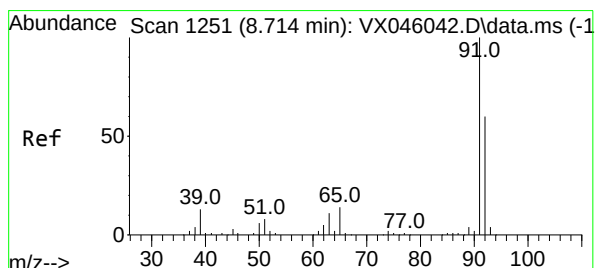
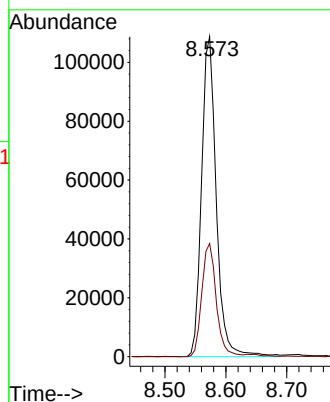
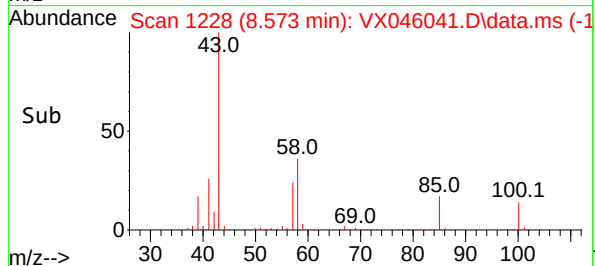
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion: 43 Resp: 18245  
Ion Ratio Lower Upper  
43 100  
58 34.8 28.9 43.3

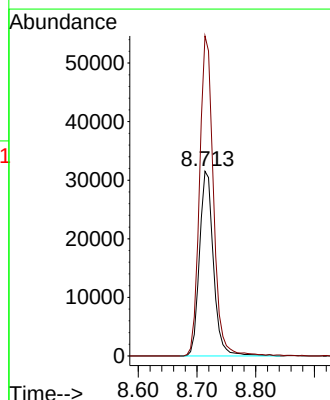
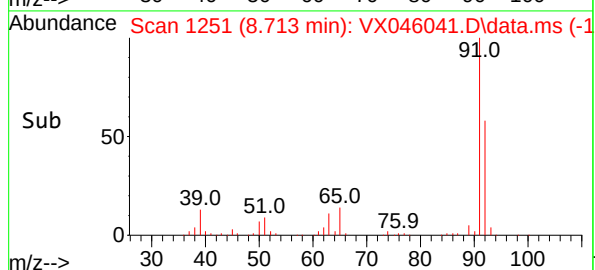
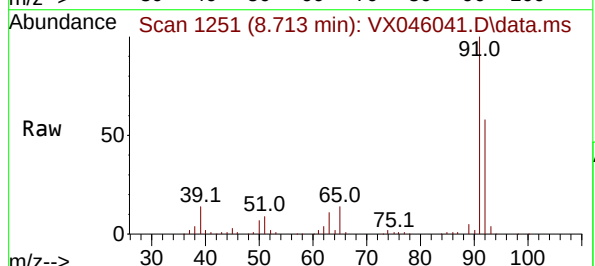
Manual Integrations  
APPROVED

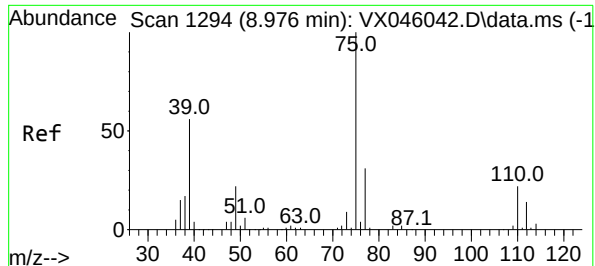
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#52  
Toluene  
Concen: 14.788 ug/l  
RT: 8.713 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 92 Resp: 52030  
Ion Ratio Lower Upper  
92 100  
91 172.2 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 14.566 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 27549

Ion Ratio Lower Upper

75 100

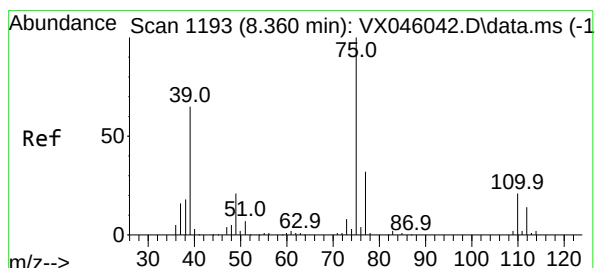
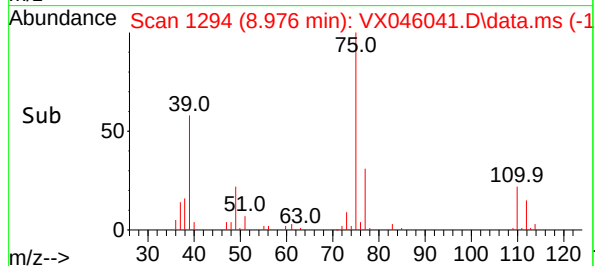
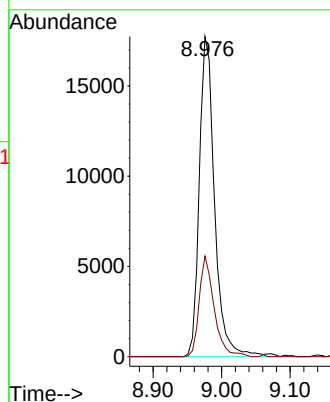
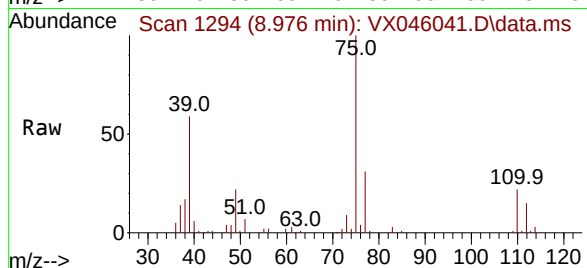
77 31.4 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#54

cis-1,3-Dichloropropene

Concen: 14.154 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

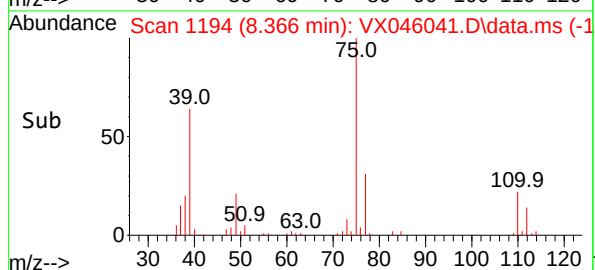
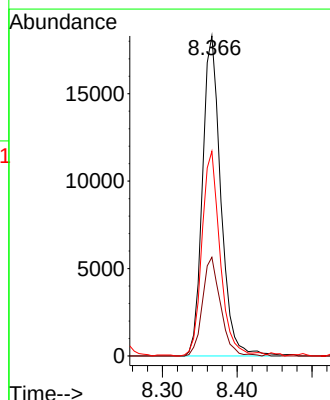
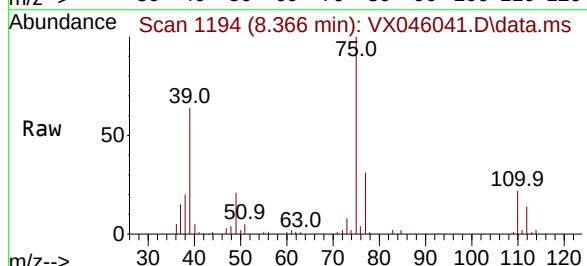
Tgt Ion: 75 Resp: 31226

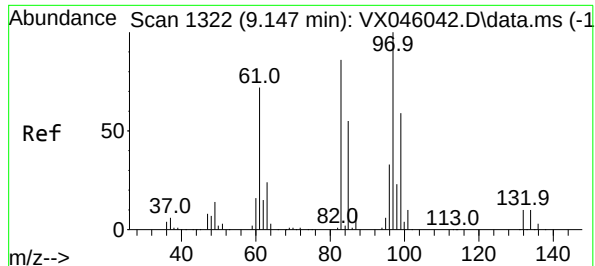
Ion Ratio Lower Upper

75 100

77 30.8 25.4 38.0

39 64.0 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 14.442 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 20530

Ion Ratio Lower Upper

97 100

83 87.0 69.0 103.6

85 58.7 44.3 66.5

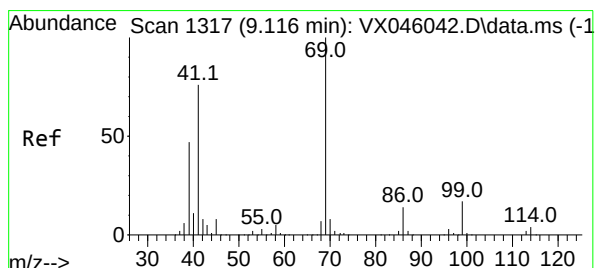
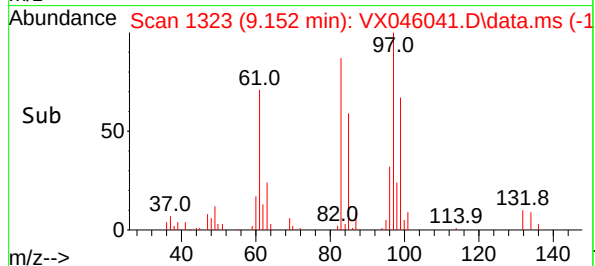
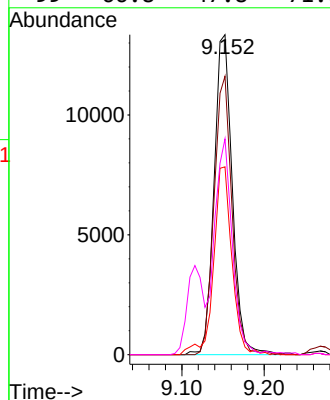
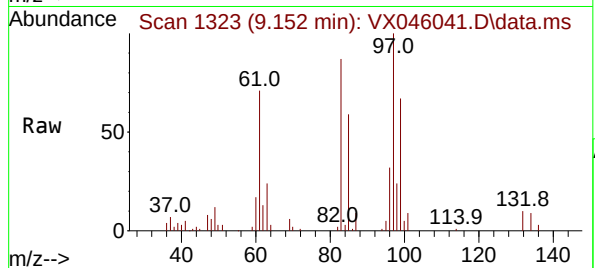
99 66.8 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#56

Ethyl methacrylate

Concen: 14.425 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

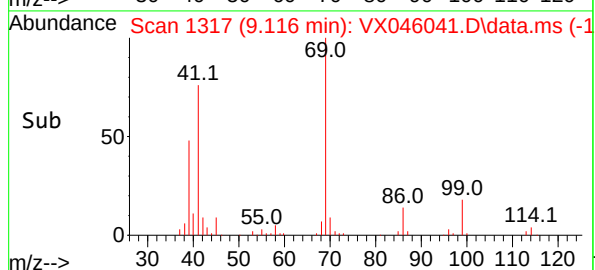
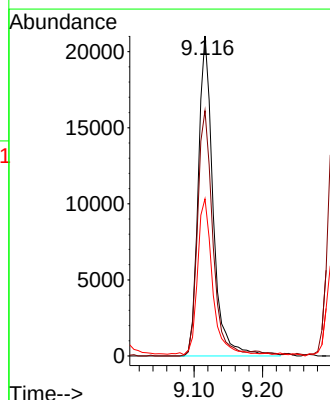
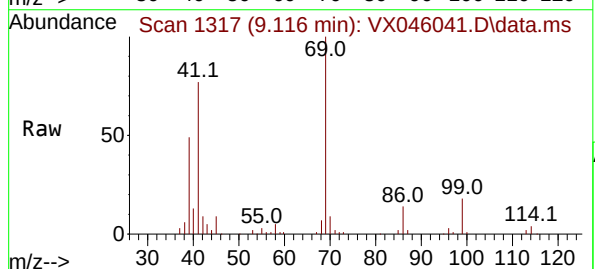
Tgt Ion: 69 Resp: 31787

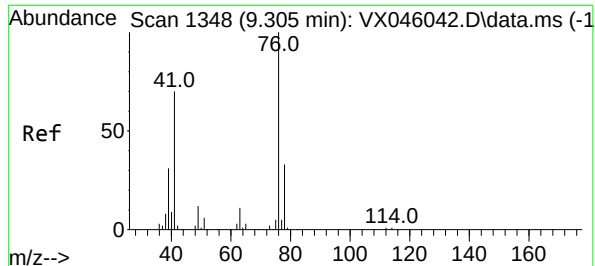
Ion Ratio Lower Upper

69 100

41 78.2 60.8 91.2

39 49.3 39.0 58.6





#57

1,3-Dichloropropane

Concen: 14.417 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 3634

Ion Ratio Lower Upper

76 100

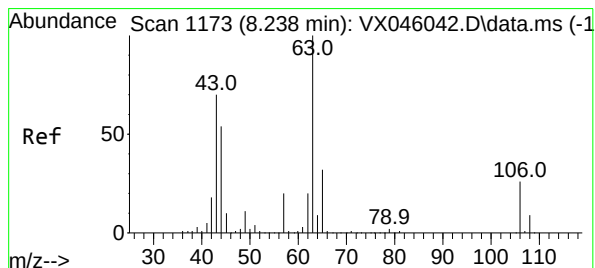
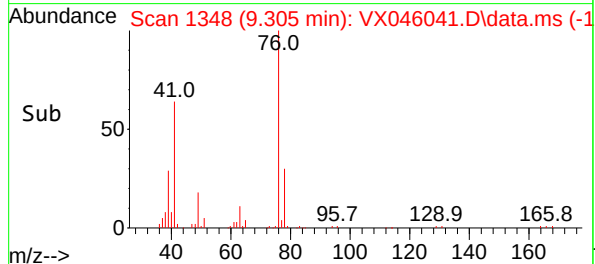
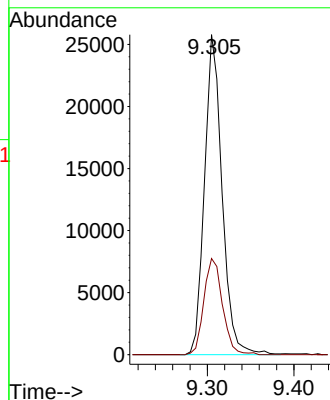
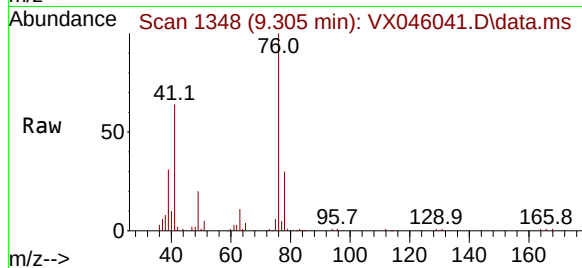
78 31.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 80.312 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046041.D

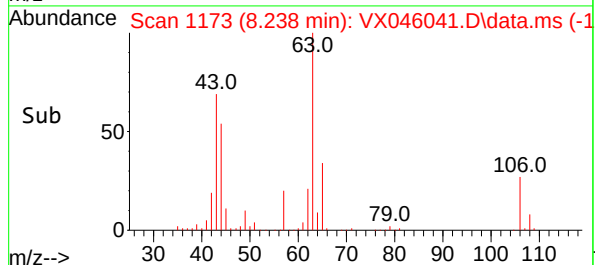
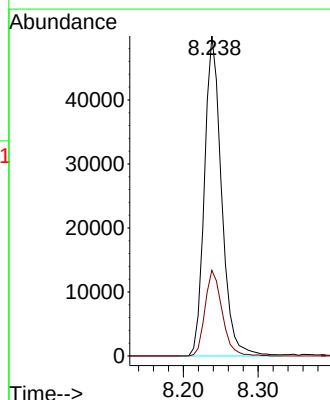
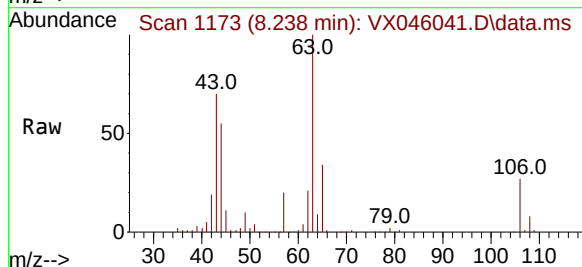
Acq: 05 May 2025 11:35

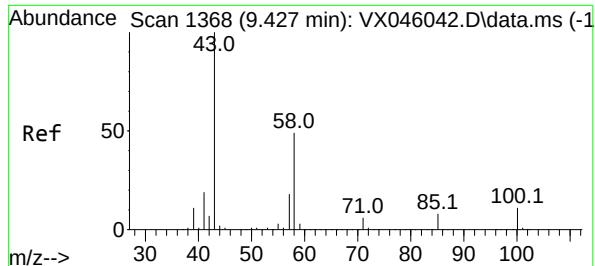
Tgt Ion: 63 Resp: 79531

Ion Ratio Lower Upper

63 100

106 26.7 21.5 32.3





#59

2-Hexanone

Concen: 74.997 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 137054

Ion Ratio Lower Upper

43 100

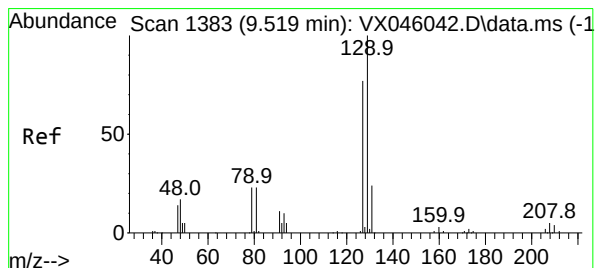
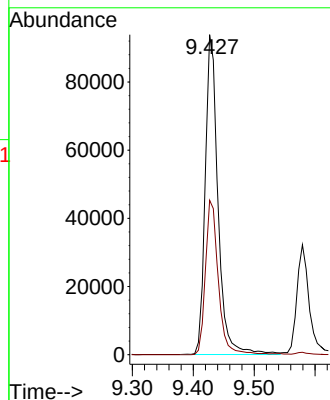
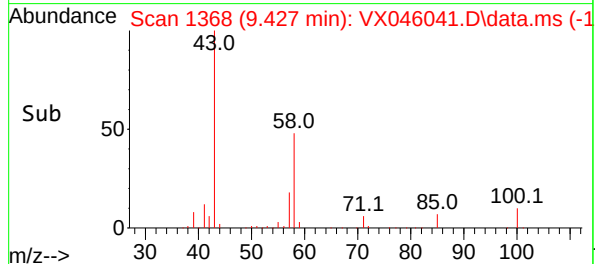
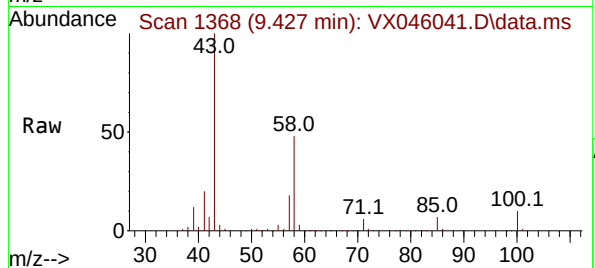
58 48.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#60

Dibromochloromethane

Concen: 14.387 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046041.D

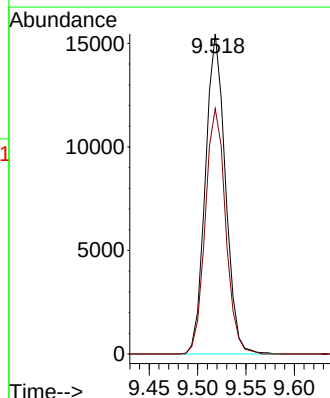
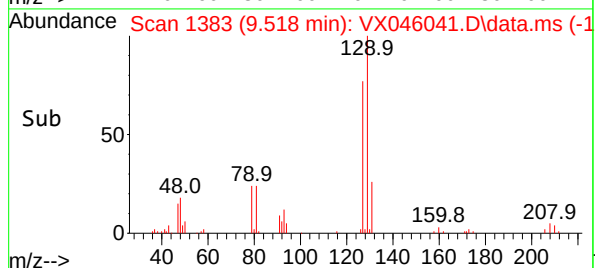
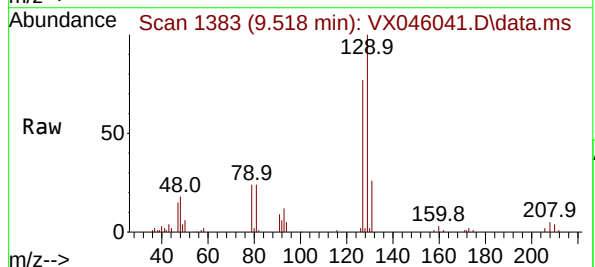
Acq: 05 May 2025 11:35

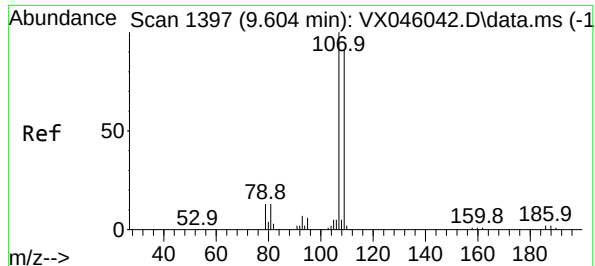
Tgt Ion:129 Resp: 22267

Ion Ratio Lower Upper

129 100

127 78.0 39.3 117.8





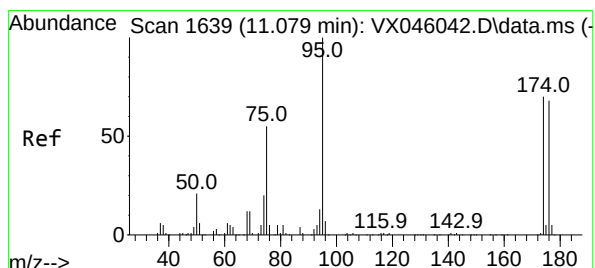
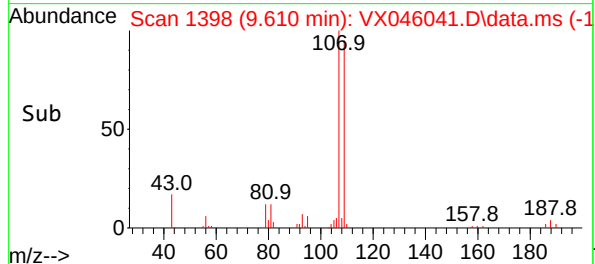
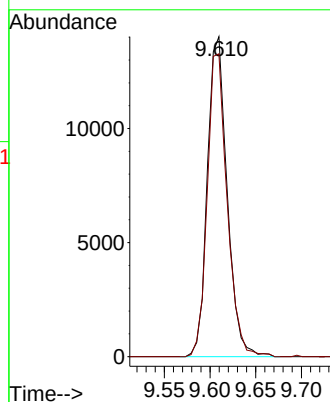
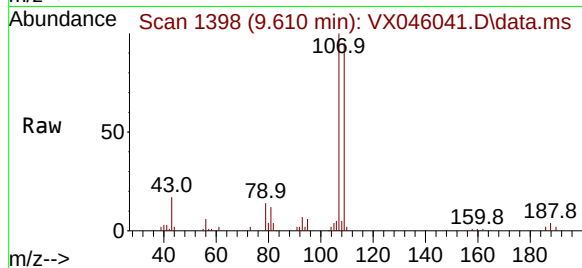
#61  
1,2-Dibromoethane  
Concen: 14.458 ug/l  
RT: 9.610 min Scan# 1398  
Delta R.T. 0.006 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020

Tgt Ion:107 Resp: 2111  
Ion Ratio Lower Upper  
107 100  
109 95.3 73.3 109.9

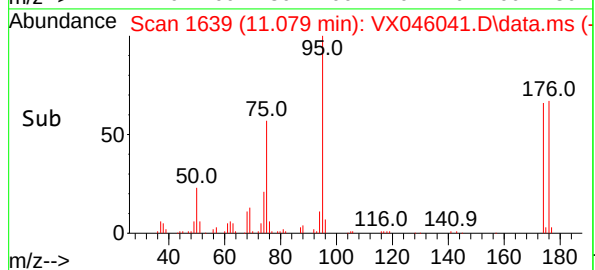
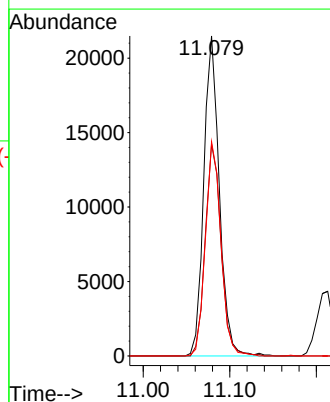
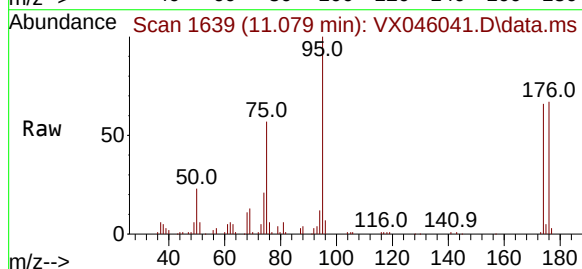
Manual Integrations  
APPROVED

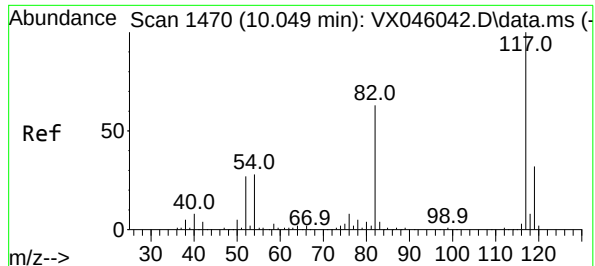
Reviewed By :John Carbone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#62  
4-Bromofluorobenzene  
Concen: 13.236 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 95 Resp: 26760  
Ion Ratio Lower Upper  
95 100  
174 67.4 0.0 135.8  
176 67.0 0.0 131.4





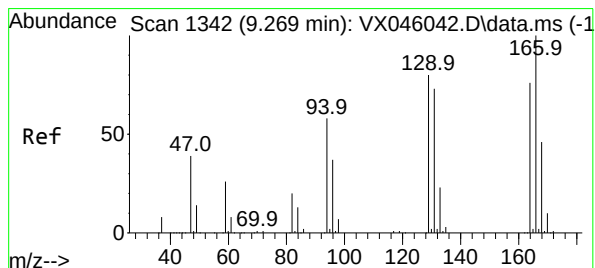
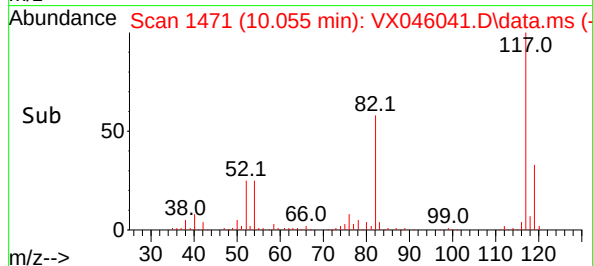
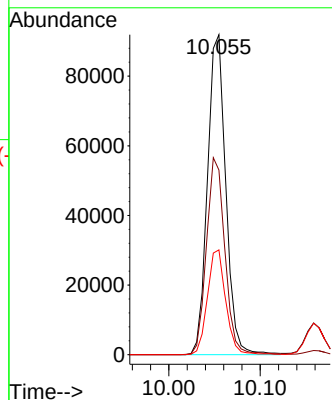
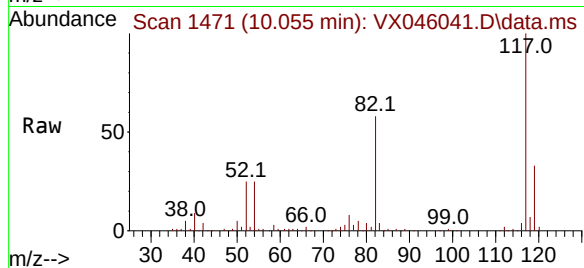
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1470  
Delta R.T. 0.006 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020

Tgt Ion:117 Resp: 127829  
Ion Ratio Lower Upper  
117 100  
82 57.7 50.6 76.0  
119 32.7 25.8 38.6

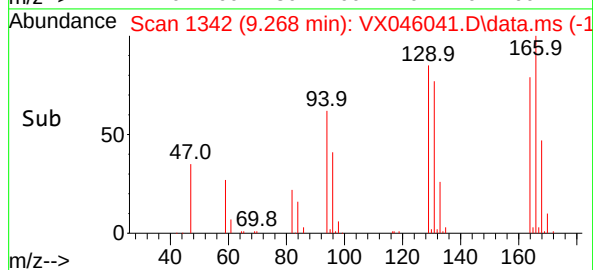
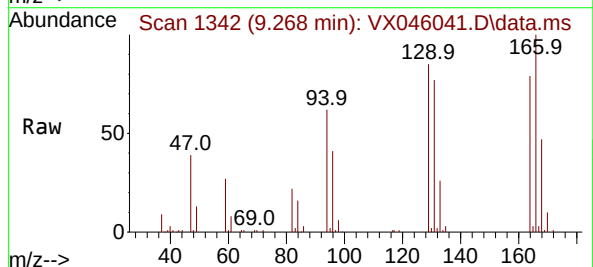
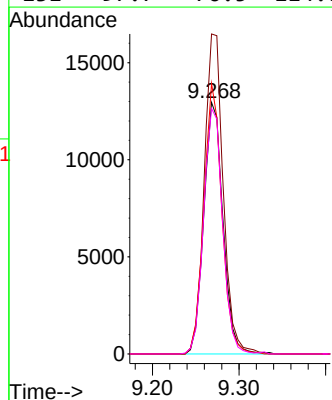
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

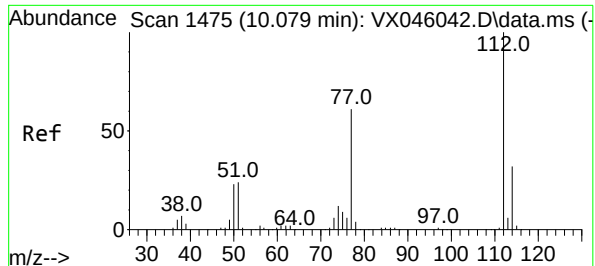


#64  
Tetrachloroethene  
Concen: 15.263 ug/l  
RT: 9.268 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:164 Resp: 19924  
Ion Ratio Lower Upper  
164 100  
166 127.2 105.0 157.6  
129 107.6 83.5 125.3  
131 97.7 76.5 114.7







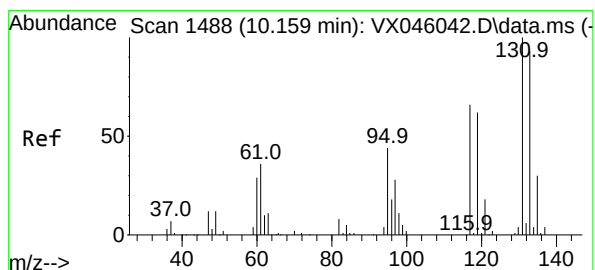
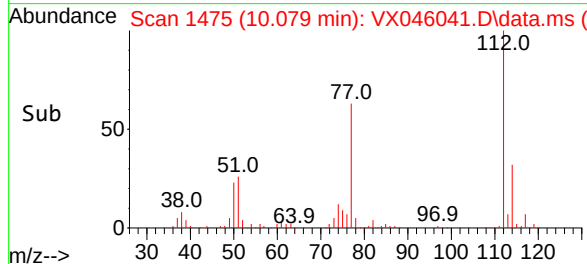
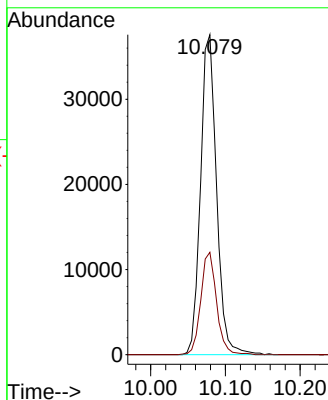
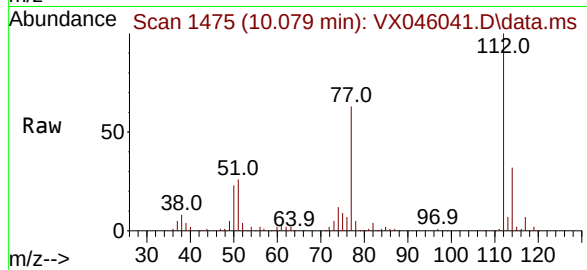
#65  
Chlorobenzene  
Concen: 14.202 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Tgt Ion:112 Resp: 5586  
Ion Ratio Lower Upper  
112 100  
114 32.0 25.4 38.2

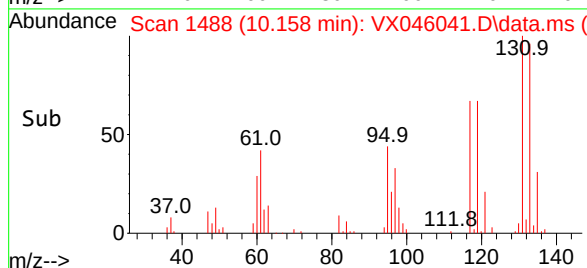
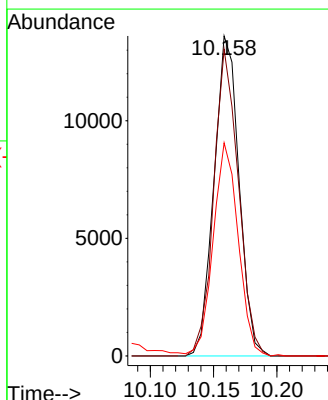
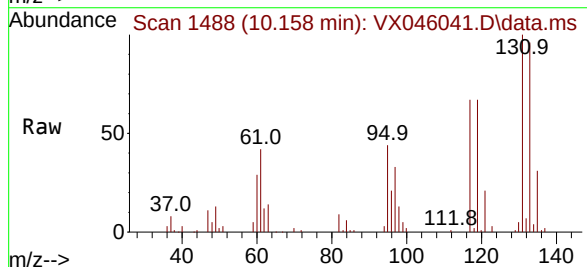
Manual Integrations  
APPROVED

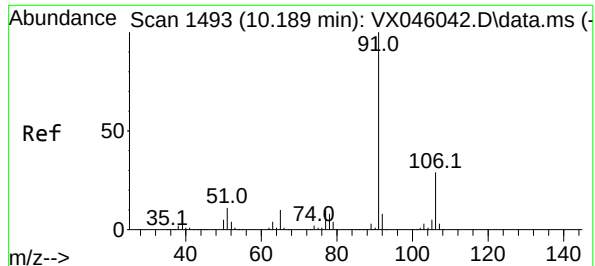
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 14.231 ug/l  
RT: 10.158 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:131 Resp: 18671  
Ion Ratio Lower Upper  
131 100  
133 94.5 47.3 141.9  
119 66.7 31.6 95.0





#67

Ethyl Benzene

Concen: 14.631 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 9811

Ion Ratio Lower Upper

91 100

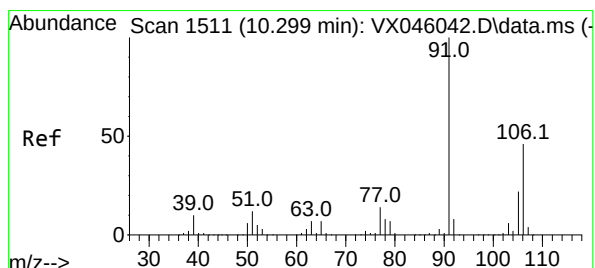
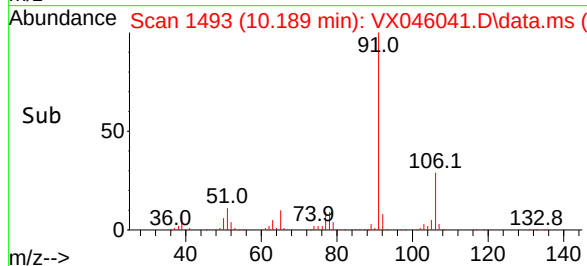
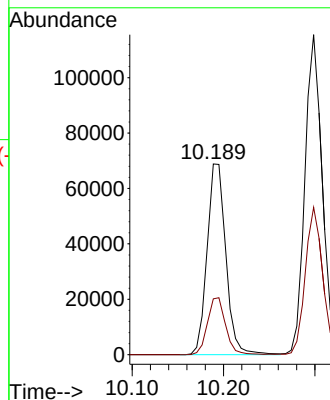
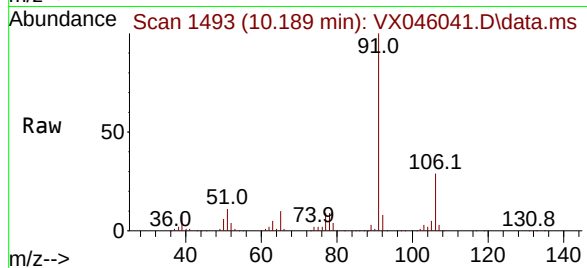
106 29.3 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#68

m/p-Xylenes

Concen: 29.806 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046041.D

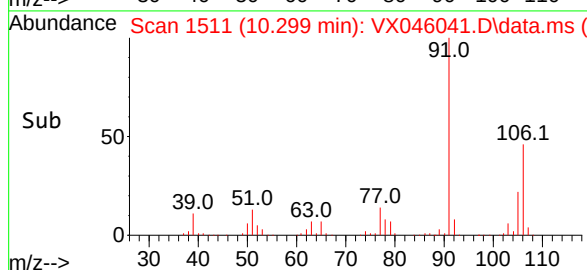
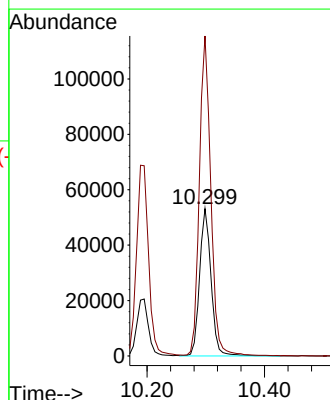
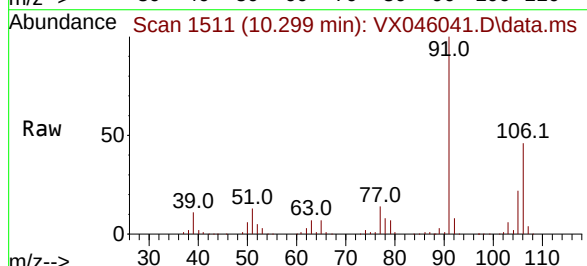
Acq: 05 May 2025 11:35

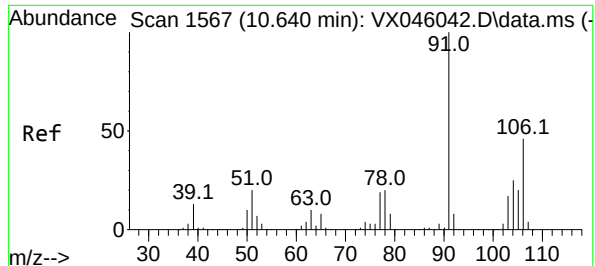
Tgt Ion:106 Resp: 72202

Ion Ratio Lower Upper

106 100

91 216.1 171.2 256.8





#69

o-Xylene

Concen: 14.408 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 35178

Ion Ratio Lower Upper

106 100

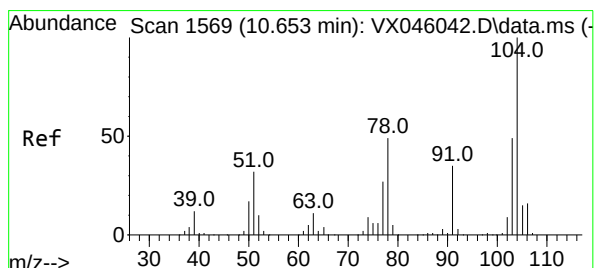
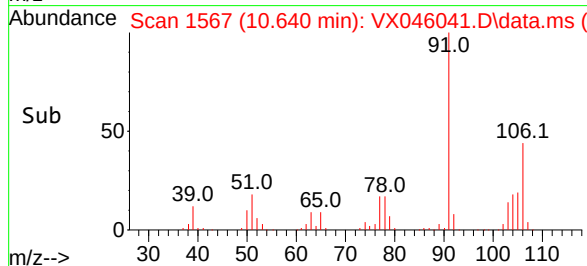
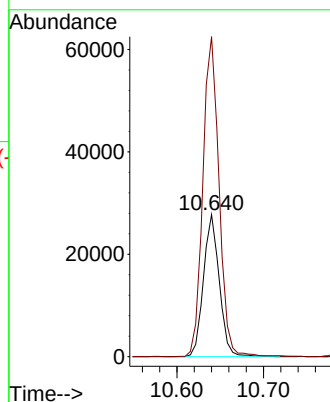
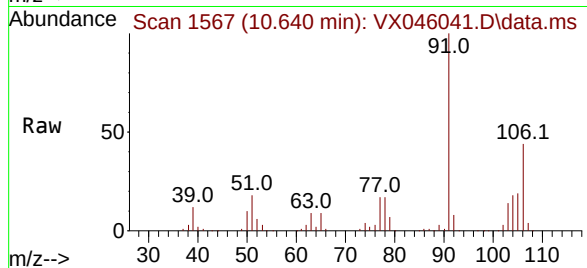
91 231.7 112.7 338.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#70

Styrene

Concen: 14.853 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

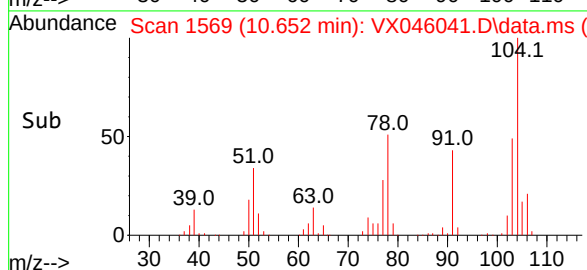
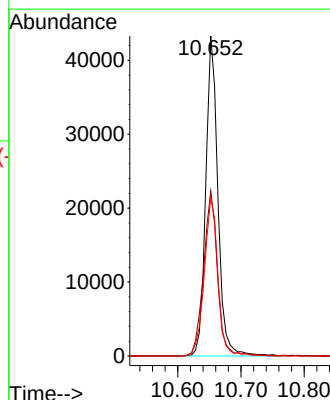
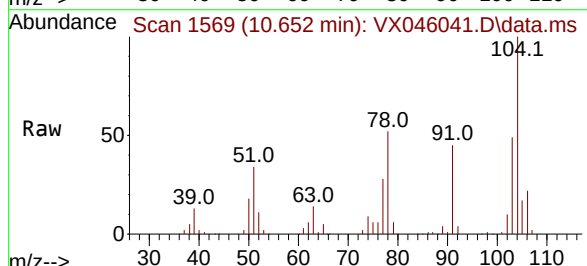
Tgt Ion:104 Resp: 58034

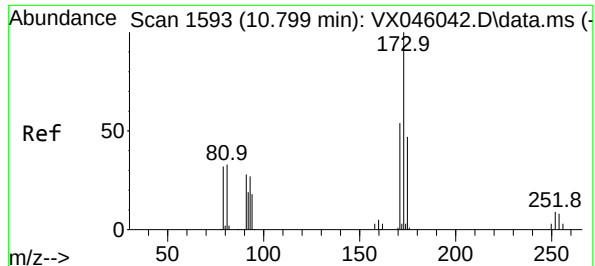
Ion Ratio Lower Upper

104 100

78 58.7 45.7 68.5

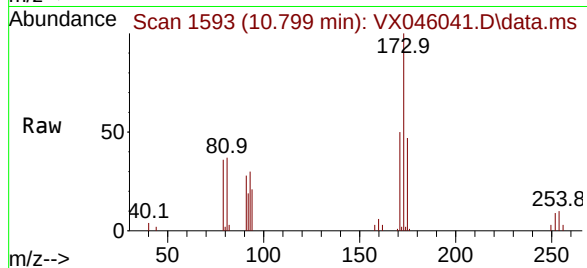
103 55.6 43.7 65.5





#71  
Bromoform  
Concen: 14.030 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

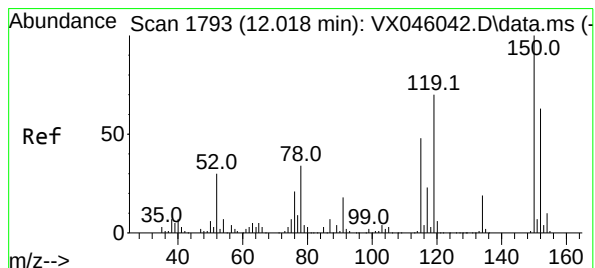
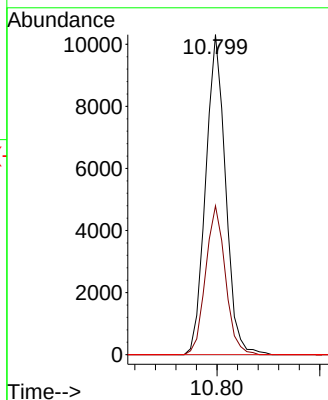
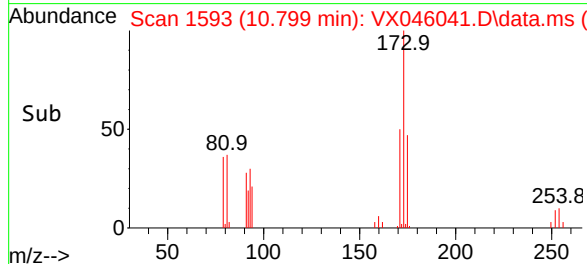
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion:173 Resp: 13825  
Ion Ratio Lower Upper  
173 100  
175 46.4 23.4 70.0  
254 0.0 0.0 0.0

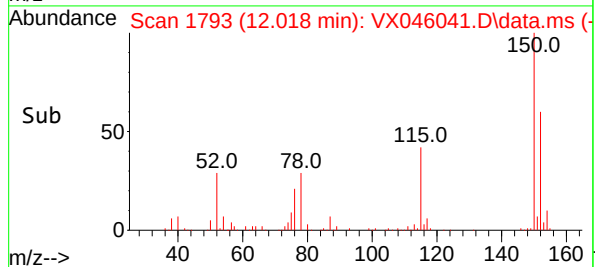
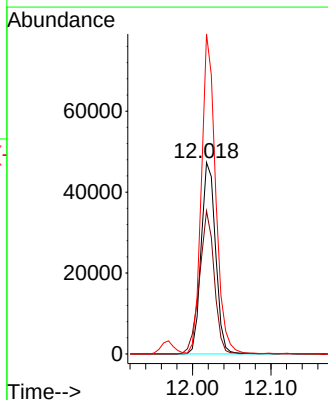
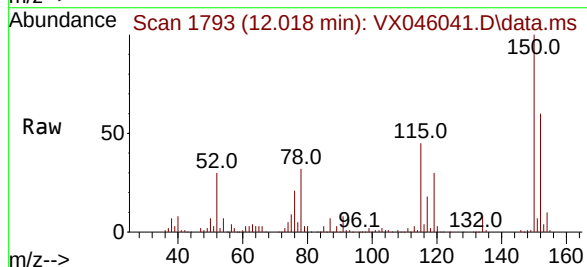
Manual Integrations  
APPROVED

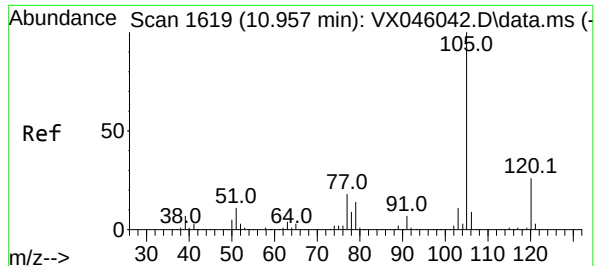
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:152 Resp: 60503  
Ion Ratio Lower Upper  
152 100  
115 76.6 46.9 140.7  
150 163.6 0.0 351.0





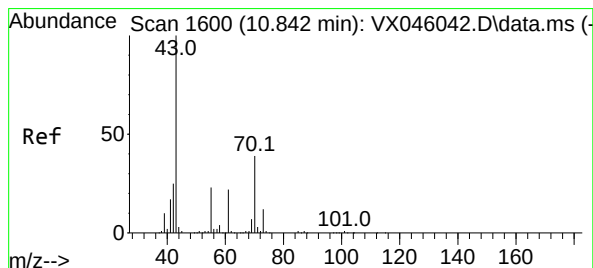
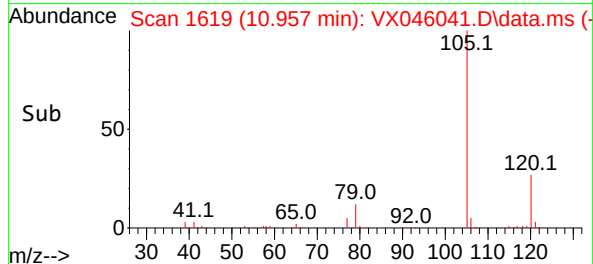
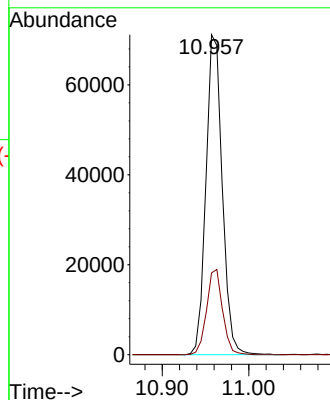
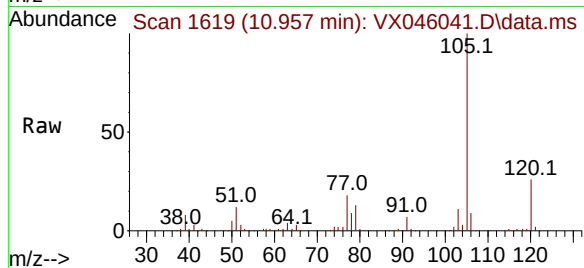
#73  
Isopropylbenzene  
Concen: 14.096 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Tgt Ion:105 Resp: 9301  
Ion Ratio Lower Upper  
105 100  
120 26.1 12.8 38.4

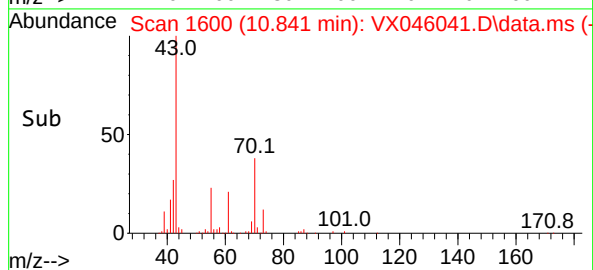
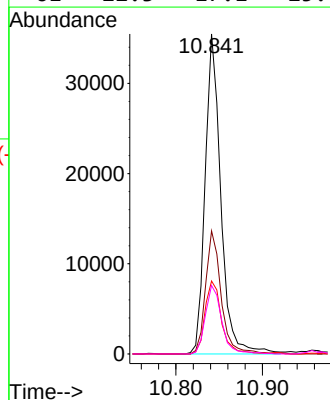
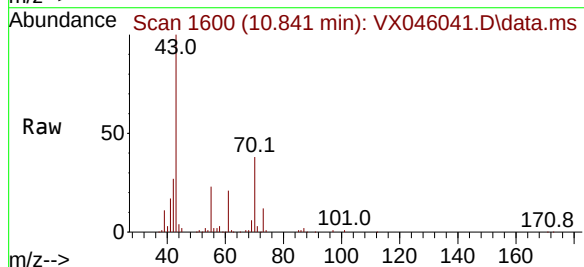
Manual Integrations  
APPROVED

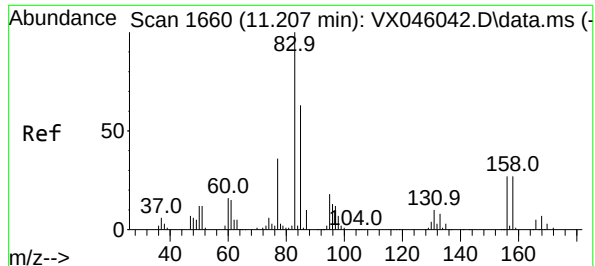
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#74  
N-ethyl acetate  
Concen: 13.581 ug/l  
RT: 10.841 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 44684  
Ion Ratio Lower Upper  
43 100  
70 38.5 30.9 46.3  
55 24.1 18.7 28.1  
61 22.3 17.1 25.7





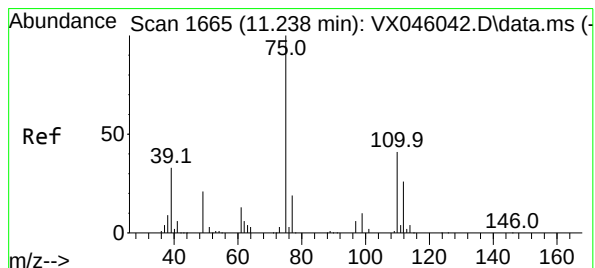
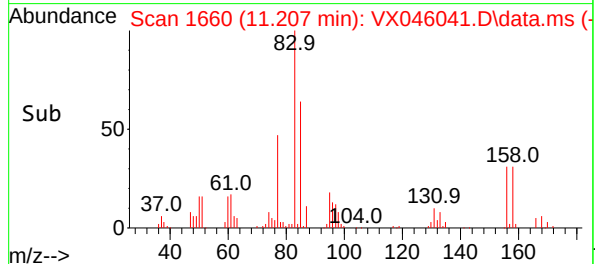
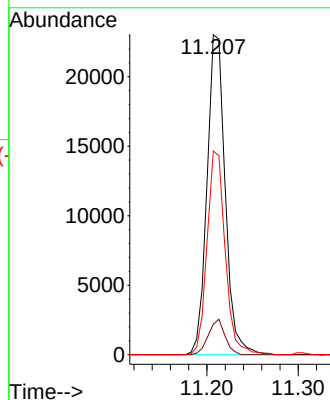
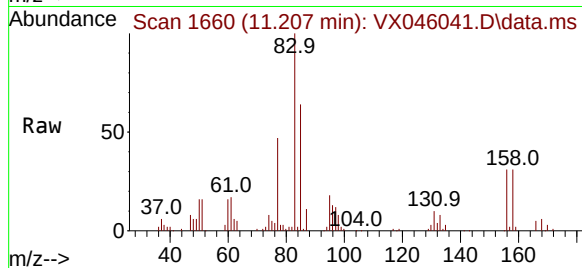
#75  
1,1,2,2-Tetrachloroethane  
Concen: 13.560 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Tgt Ion: 83 Resp: 31830  
Ion Ratio Lower Upper  
83 100  
131 10.1 5.0 14.9  
85 63.3 31.9 95.7

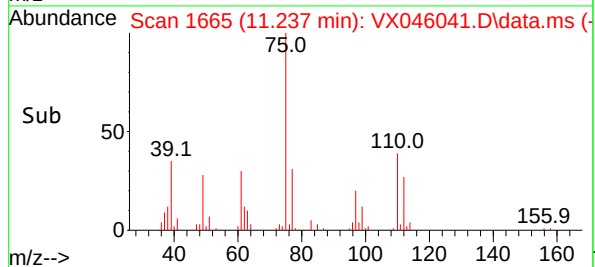
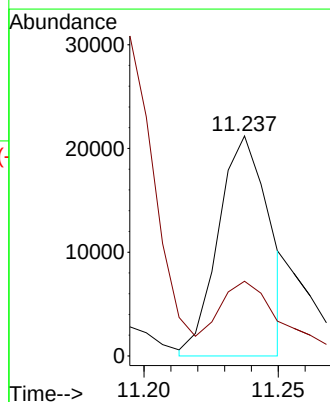
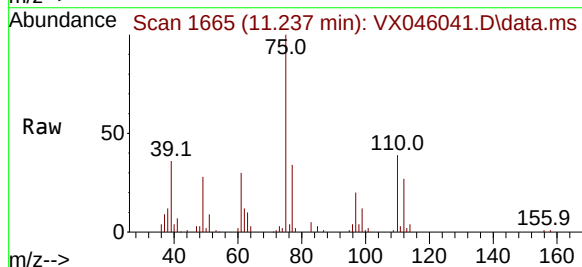
Manual Integrations  
APPROVED

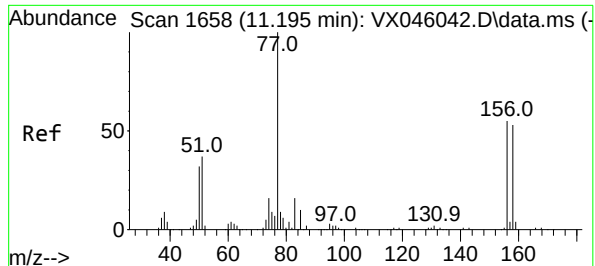
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#76  
1,2,3-Trichloropropane  
Concen: 11.039 ug/l m  
RT: 11.237 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

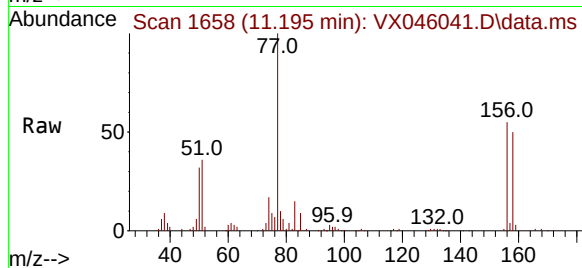
Tgt Ion: 75 Resp: 27845  
Ion Ratio Lower Upper  
75 100  
77 43.0 20.5 61.5





#77  
Bromobenzene  
Concen: 14.212 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

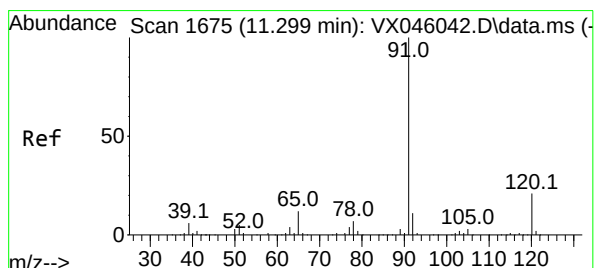
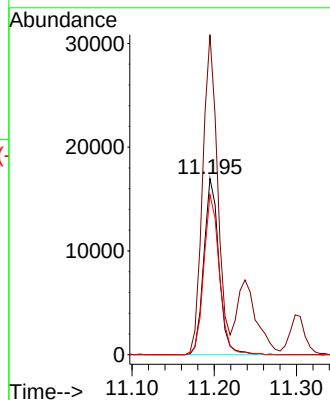
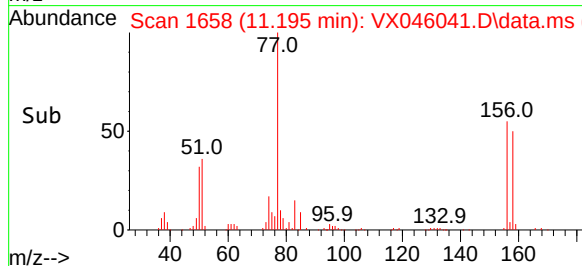
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion:156 Resp: 2169  
Ion Ratio Lower Upper  
156 100  
77 179.9 92.8 278.3  
158 93.1 48.8 146.3

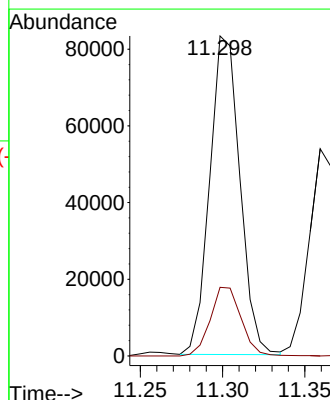
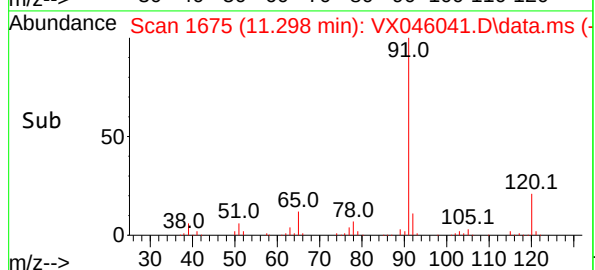
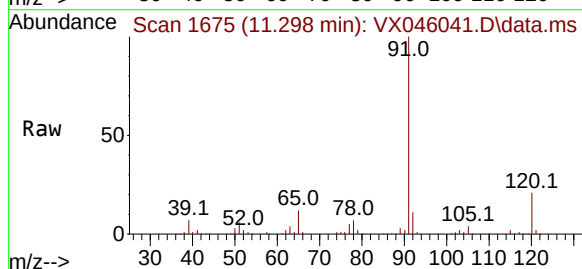
Manual Integrations  
APPROVED

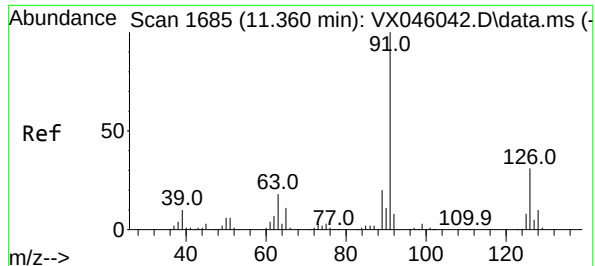
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#78  
n-propylbenzene  
Concen: 14.376 ug/l  
RT: 11.298 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 106337  
Ion Ratio Lower Upper  
91 100  
120 22.0 10.8 32.4





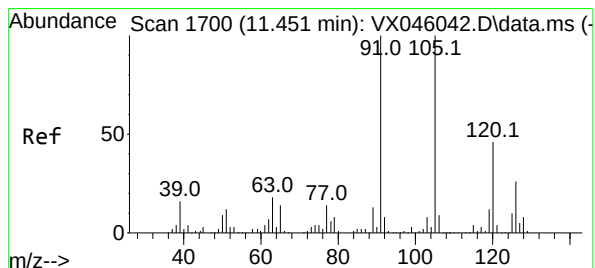
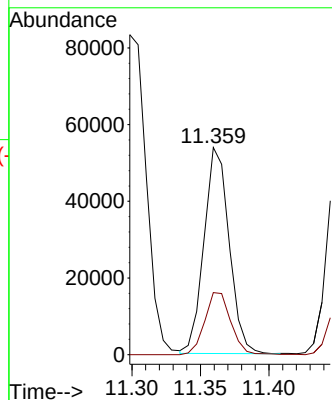
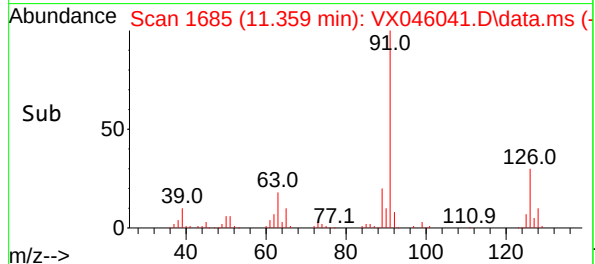
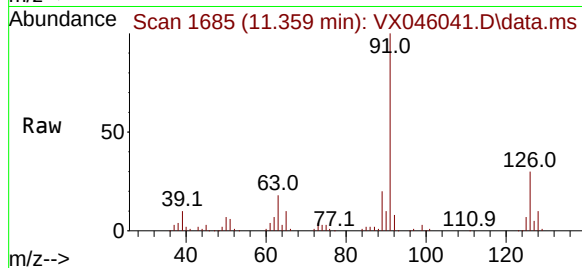
#79  
2-Chlorotoluene  
Concen: 13.748 ug/l  
RT: 11.359 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Tgt Ion: 91 Resp: 68534  
Ion Ratio Lower Upper  
91 100  
126 31.4 15.6 46.7

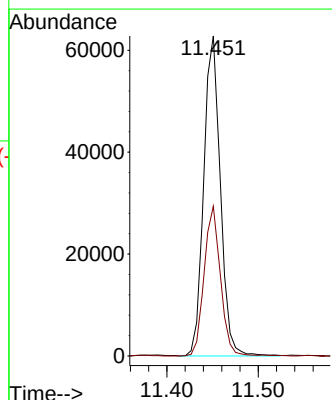
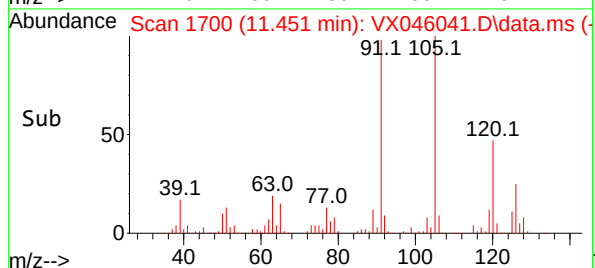
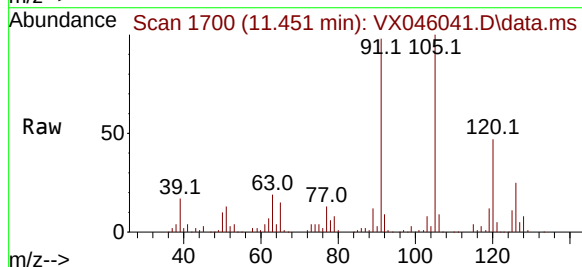
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

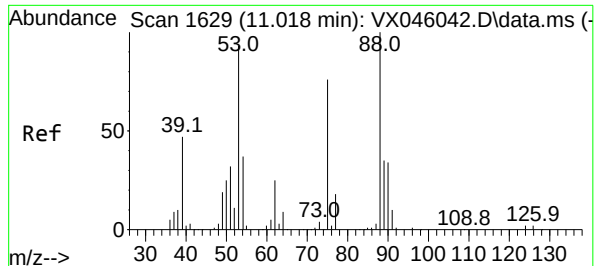


#80  
1,3,5-Trimethylbenzene  
Concen: 14.468 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79261  
Ion Ratio Lower Upper  
105 100  
120 45.9 23.1 69.2







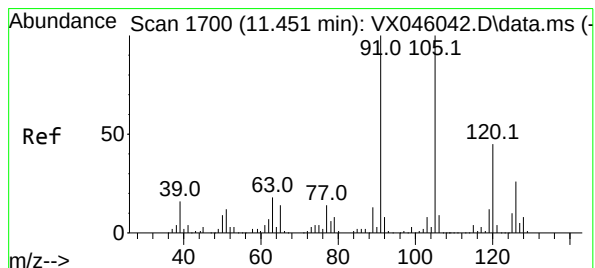
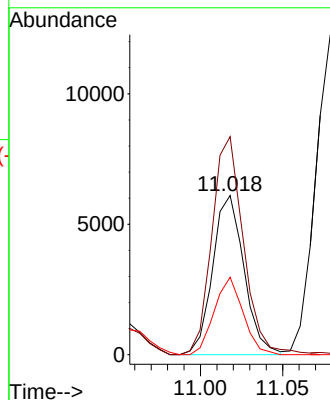
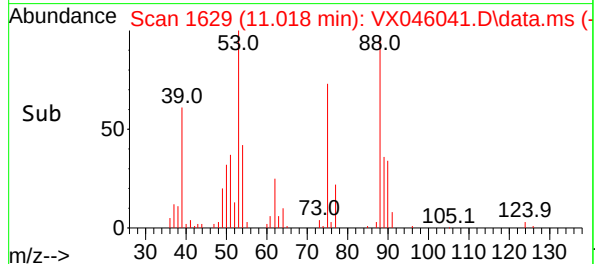
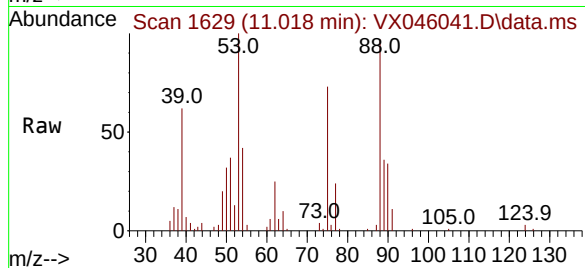
#81  
trans-1,4-Dichloro-2-butene  
Concen: 13.371 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020

Tgt Ion: 75 Resp: 8104  
Ion Ratio Lower Upper  
75 100  
53 138.3 100.5 150.7  
89 44.6 37.0 55.6

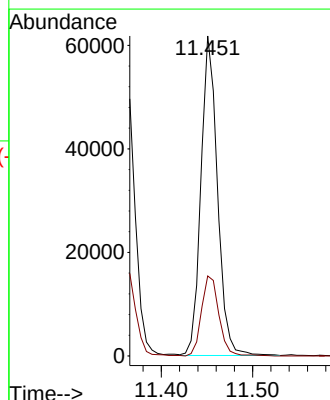
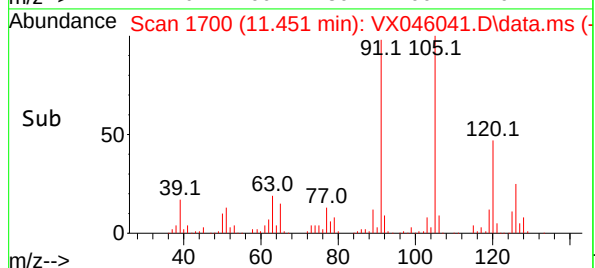
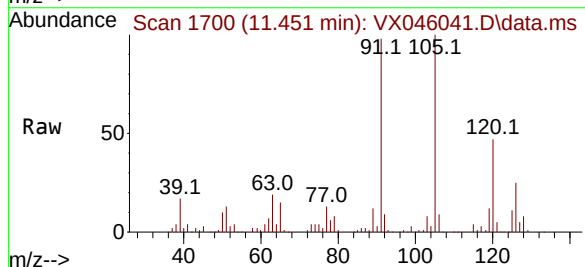
Manual Integrations  
APPROVED

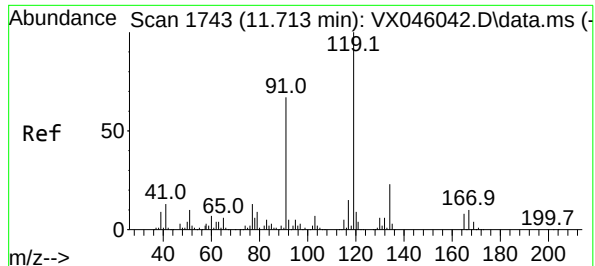
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#82  
4-Chlorotoluene  
Concen: 14.116 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

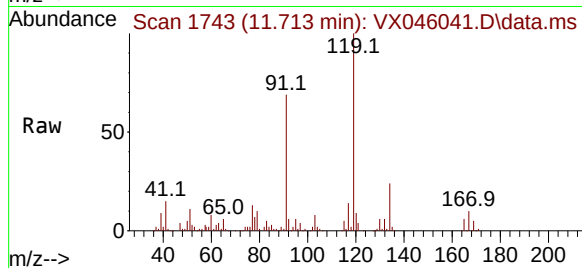
Tgt Ion: 91 Resp: 77338  
Ion Ratio Lower Upper  
91 100  
126 26.5 13.3 39.8





#83  
tert-Butylbenzene  
Concen: 14.011 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

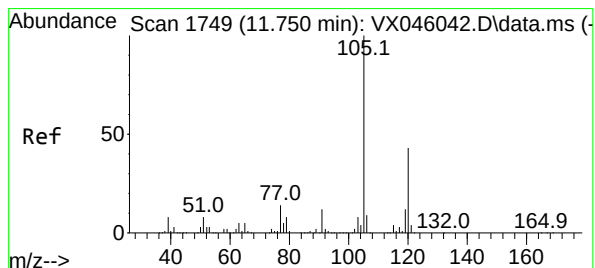
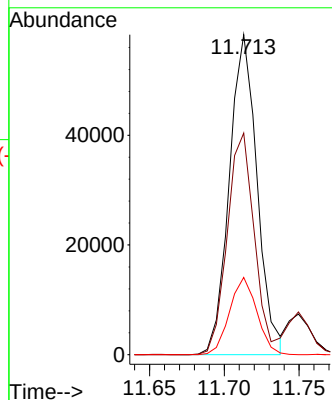
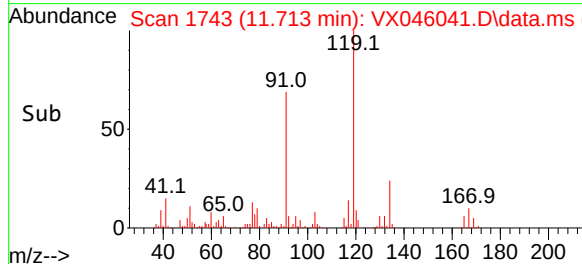
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion:119 Resp: 75382  
Ion Ratio Lower Upper  
119 100  
91 66.8 32.9 98.7  
134 23.7 11.4 34.1

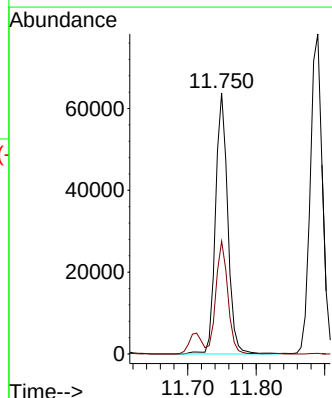
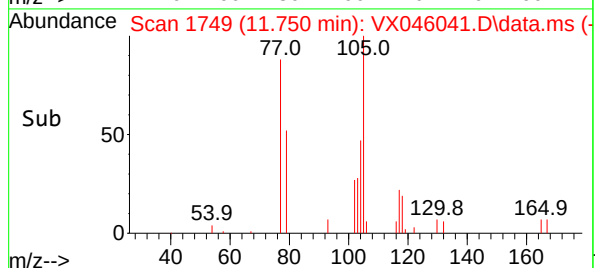
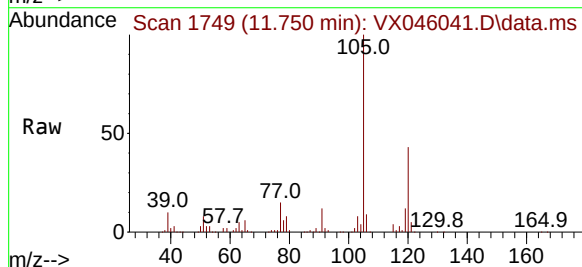
Manual Integrations  
APPROVED

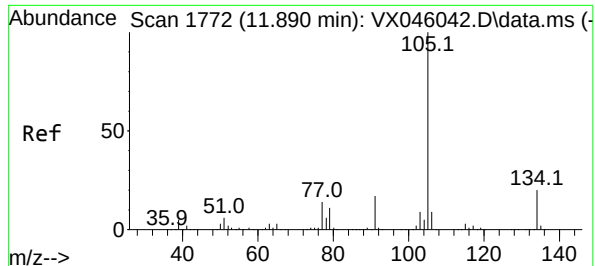
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 14.480 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79232  
Ion Ratio Lower Upper  
105 100  
120 42.0 21.2 63.6





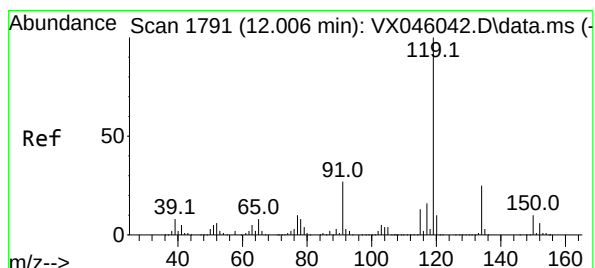
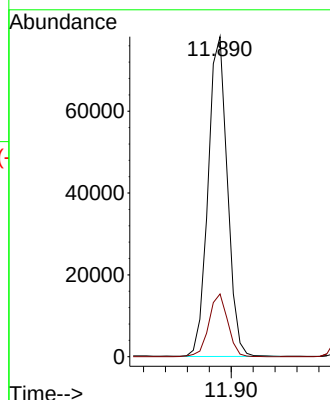
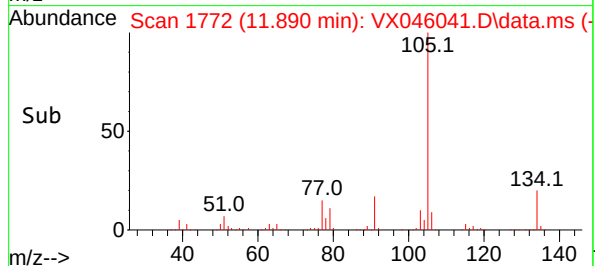
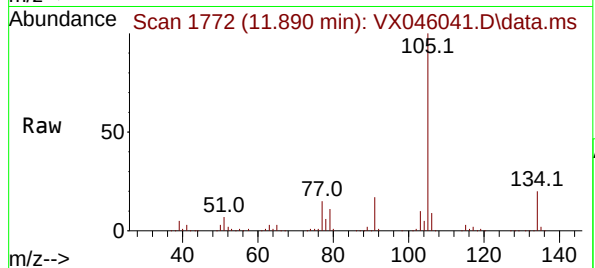
#85  
sec-Butylbenzene  
Concen: 14.263 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC020

Tgt Ion:105 Resp: 9527  
Ion Ratio Lower Upper  
105 100  
134 19.3 9.7 29.1

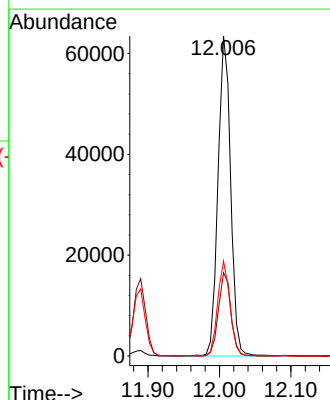
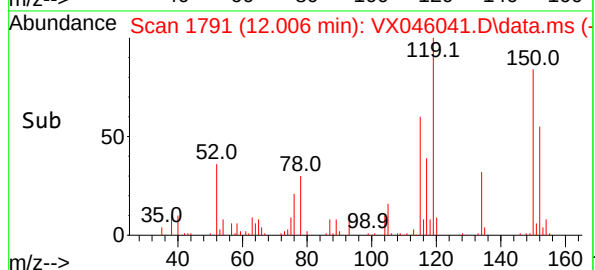
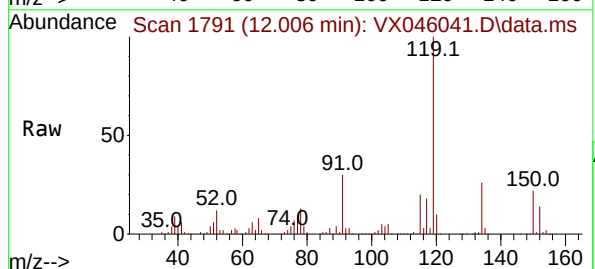
Manual Integrations  
APPROVED

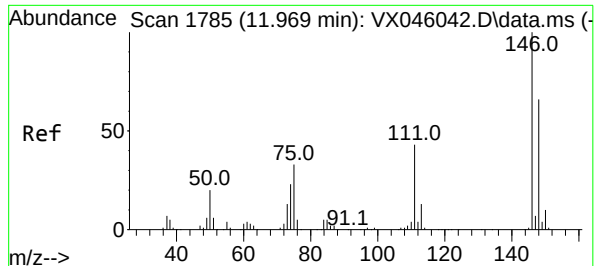
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#86  
p-Isopropyltoluene  
Concen: 14.387 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:119 Resp: 77599  
Ion Ratio Lower Upper  
119 100  
134 25.9 12.5 37.5  
91 28.8 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 13.898 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 39520

Ion Ratio Lower Upper

146 100

111 42.7 22.1 66.3

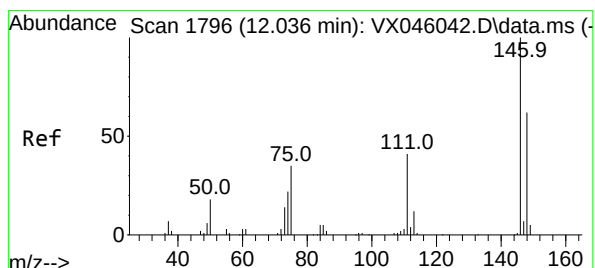
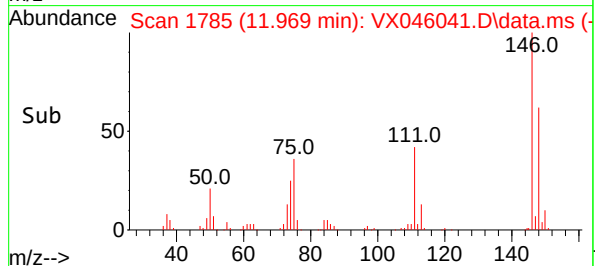
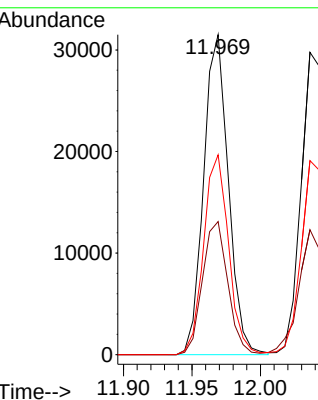
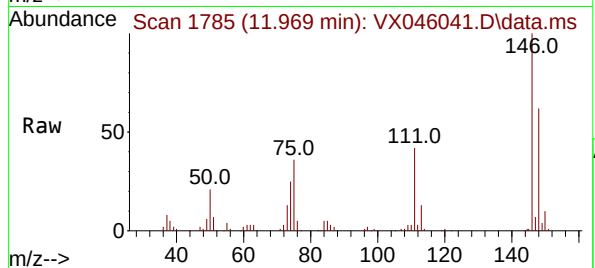
148 62.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#88

1,4-Dichlorobenzene

Concen: 14.146 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

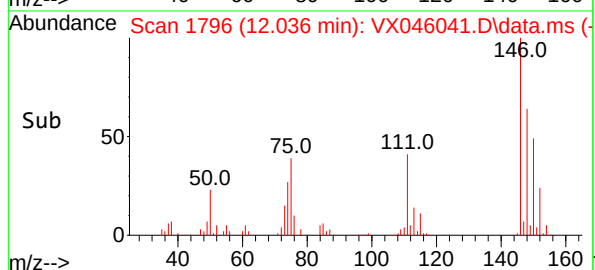
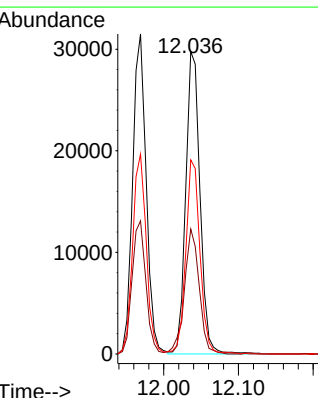
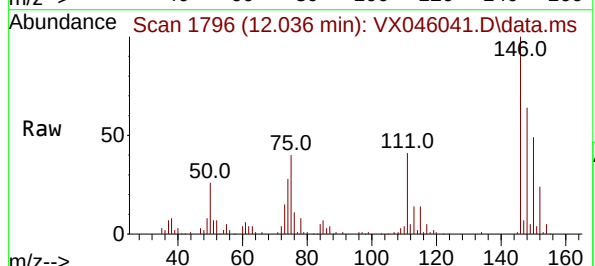
Tgt Ion:146 Resp: 39419

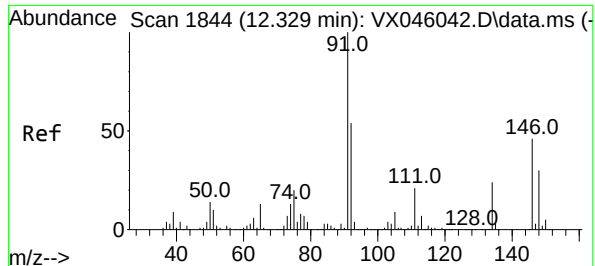
Ion Ratio Lower Upper

146 100

111 42.8 21.3 63.9

148 64.2 31.9 95.5





#89

n-Butylbenzene

Concen: 14.184 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046041.D

Acq: 05 May 2025 11:35

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 66500

Ion Ratio Lower Upper

91 100

92 52.9 26.9 80.7

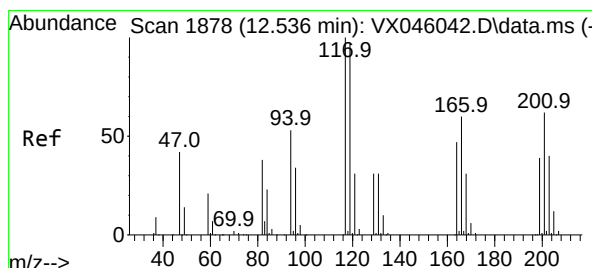
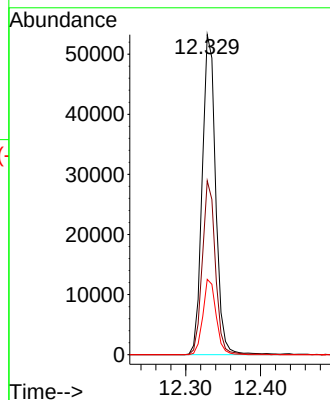
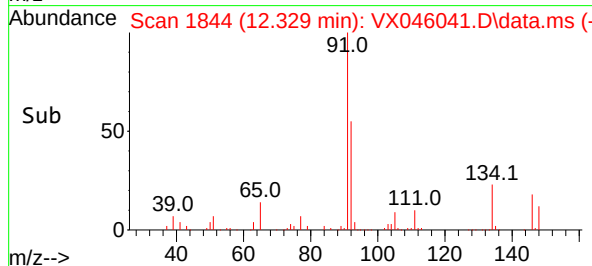
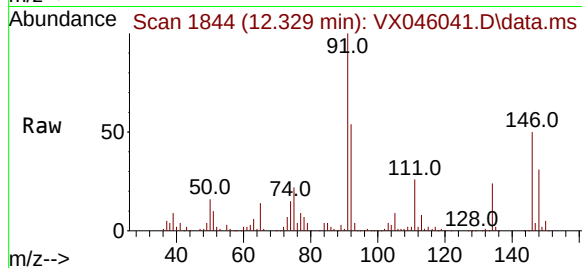
134 23.1 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 13.287 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046041.D

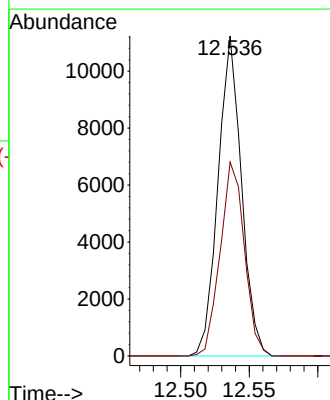
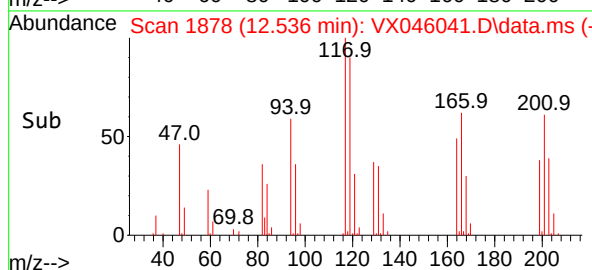
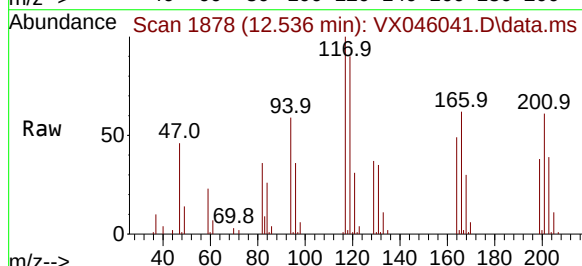
Acq: 05 May 2025 11:35

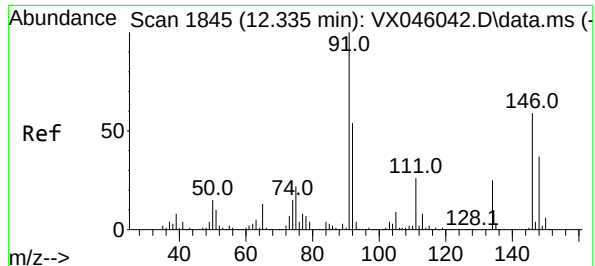
Tgt Ion:117 Resp: 13332

Ion Ratio Lower Upper

117 100

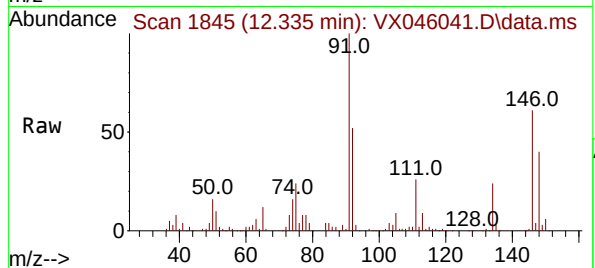
201 62.9 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 14.092 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

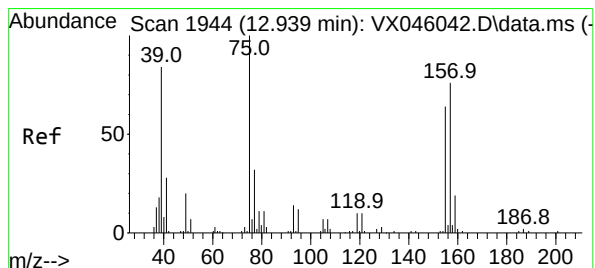
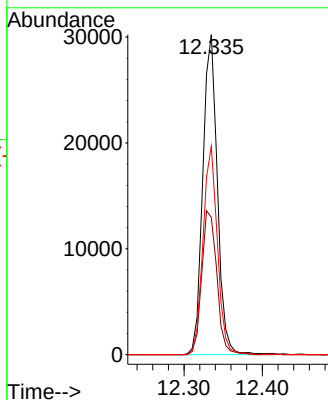
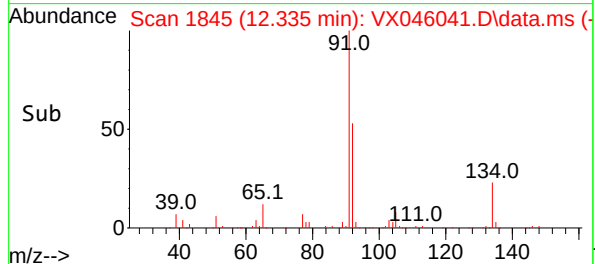
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion:146 Resp: 3903  
Ion Ratio Lower Upper  
146 100  
111 46.6 22.4 67.3  
148 64.2 31.6 94.8

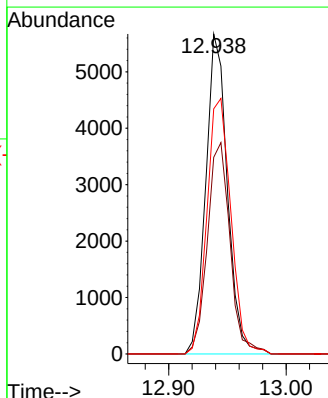
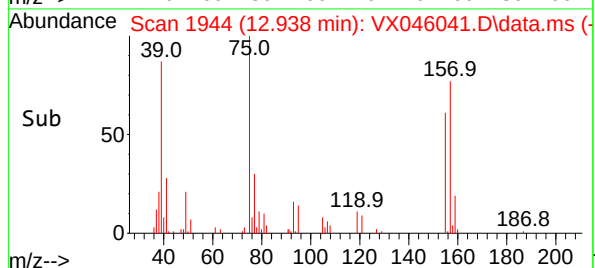
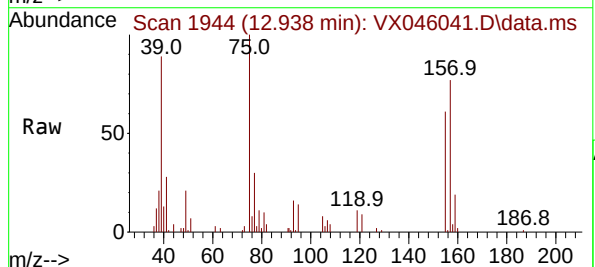
Manual Integrations  
APPROVED

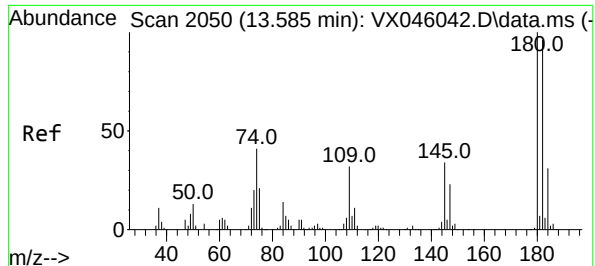
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 13.535 ug/l  
RT: 12.938 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

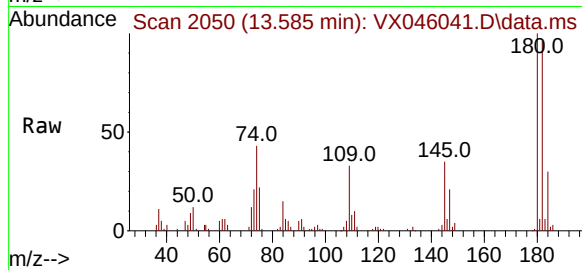
Tgt Ion: 75 Resp: 7232  
Ion Ratio Lower Upper  
75 100  
155 69.4 34.9 104.8  
157 88.4 43.8 131.4





#93  
1,2,4-Trichlorobenzene  
Concen: 13.745 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

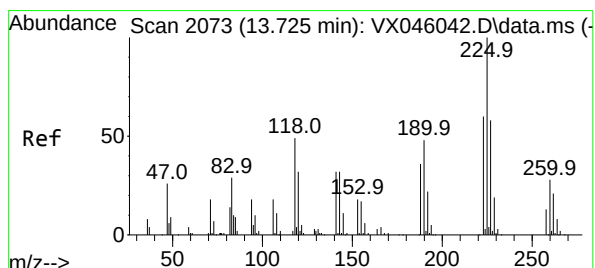
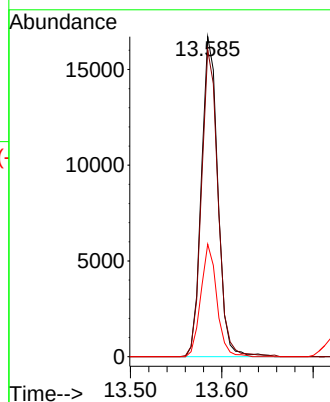
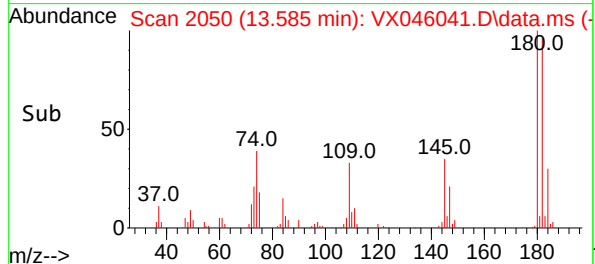
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion:180 Resp: 20840  
Ion Ratio Lower Upper  
180 100  
182 96.6 47.9 143.8  
145 34.1 17.1 51.2

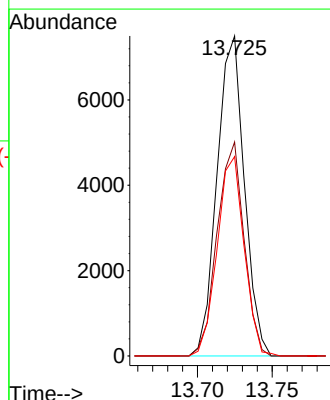
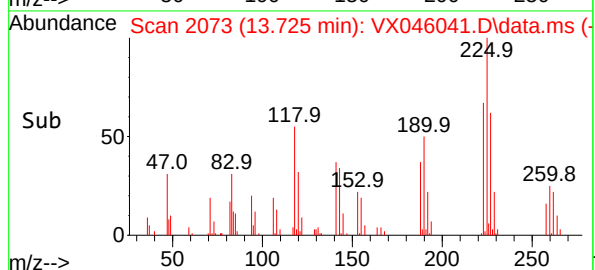
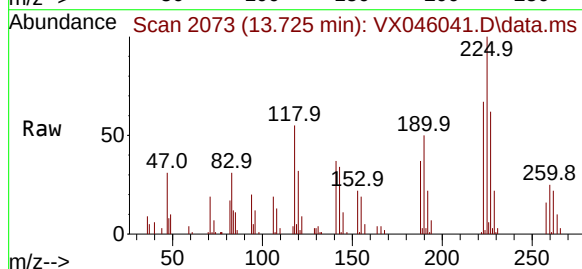
Manual Integrations  
APPROVED

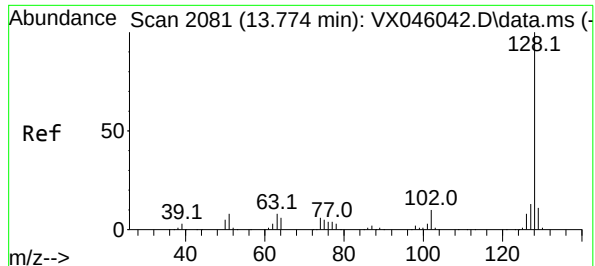
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#94  
Hexachlorobutadiene  
Concen: 13.426 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

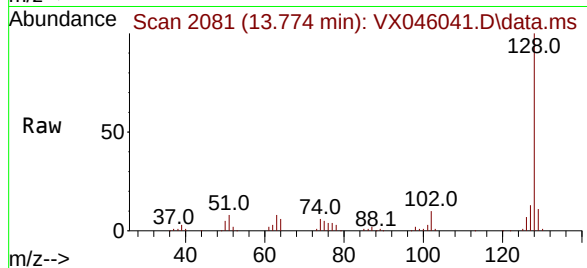
Tgt Ion:225 Resp: 9524  
Ion Ratio Lower Upper  
225 100  
223 65.6 30.8 92.4  
227 61.4 30.9 92.7





#95  
Naphthalene  
Concen: 14.040 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

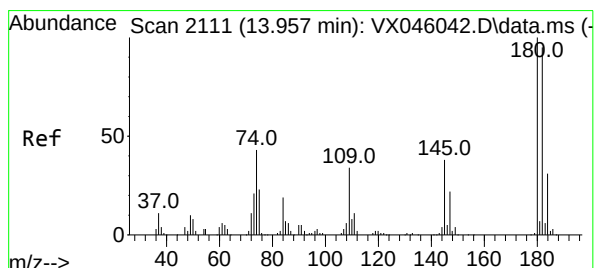
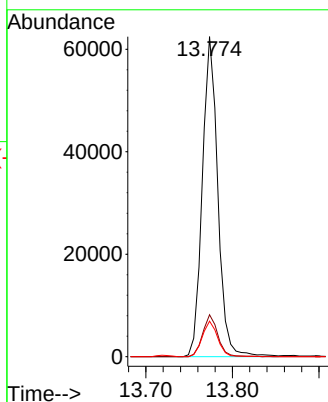
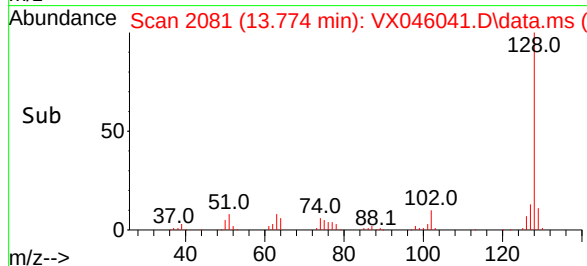
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020



Tgt Ion:128 Resp: 7754  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.4 15.6  
129 11.1 8.6 13.0

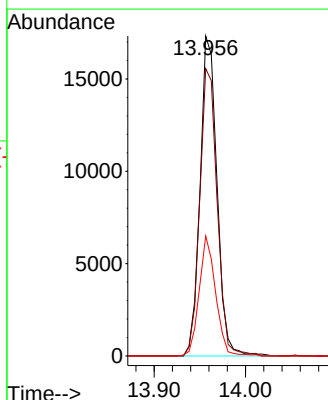
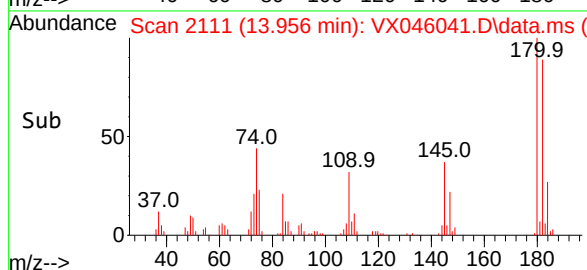
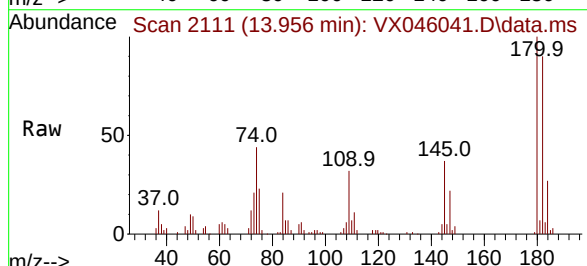
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 14.023 ug/l  
RT: 13.956 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX046041.D  
Acq: 05 May 2025 11:35

Tgt Ion:180 Resp: 22301  
Ion Ratio Lower Upper  
180 100  
182 92.1 47.8 143.3  
145 36.5 18.1 54.3





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046042.D  
 Acq On : 05 May 2025 11:58  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.544          | 168  | 97076      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 167947     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 146257     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 67976      | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 88371      | 30.601   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 61.200%# |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 59550      | 31.633   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 63.260%# |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 205479     | 32.395   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 64.780%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 79012      | 34.229   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 68.460%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 83826      | 39.120   | ug/l   | 100      |
| 3) Chloromethane             | 1.307          | 50   | 75238      | 35.658   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 68901      | 37.273   | ug/l   | 100      |
| 5) Bromomethane              | 1.593          | 94   | 31648      | 33.765   | ug/l   | 100      |
| 6) Chloroethane              | 1.666          | 64   | 36722      | 38.558   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 103693     | 36.824   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 32724      | 35.350   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 62251      | 36.997   | ug/l   | 100      |
| 10) Methyl Iodide            | 2.447          | 142  | 78277      | 39.622   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 2.977          | 59   | 62557      | 181.745  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 58334      | 35.610   | ug/l   | 100      |
| 13) Acrolein                 | 2.233          | 56   | 73927      | 184.907  | ug/l   | 100      |
| 14) Allyl chloride           | 2.654          | 41   | 114445     | 36.971   | ug/l   | 100      |
| 15) Acrylonitrile            | 3.062          | 53   | 188304     | 182.874  | ug/l   | 100      |
| 16) Acetone                  | 2.386          | 43   | 175777     | 177.910  | ug/l   | 100      |
| 17) Carbon Disulfide         | 2.502          | 76   | 141281     | 37.223   | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 82347      | 34.915   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 209665     | 36.695   | ug/l   | 100      |
| 20) Methylene Chloride       | 2.782          | 84   | 66412      | 33.182   | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 59234      | 35.421   | ug/l   | 100      |
| 22) Diisopropyl ether        | 3.757          | 45   | 221172     | 38.241   | ug/l   | 100      |
| 23) Vinyl Acetate            | 3.721          | 43   | 994236     | 194.528  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 122601     | 36.067   | ug/l   | 100      |
| 25) 2-Butanone               | 4.556          | 43   | 269224     | 188.783  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.465          | 77   | 92857      | 36.059   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 71518      | 35.466   | ug/l   | 100      |
| 28) Bromochloromethane       | 4.898          | 49   | 56091      | 31.031   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 5.001          | 42   | 170124     | 183.679  | ug/l   | 100      |
| 30) Chloroform               | 5.087          | 83   | 125850     | 35.626   | ug/l   | 100      |
| 31) Cyclohexane              | 5.464          | 56   | 109459     | 38.205   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 109781     | 36.034   | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 5.684          | 75   | 83215      | 38.073   | ug/l   | 100      |
| 37) Ethyl Acetate            | 4.715          | 43   | 102537     | 37.394   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 93712      | 37.320   | ug/l   | 100      |
| 39) Methylcyclohexane        | 7.373          | 83   | 107651     | 39.307   | ug/l   | 100      |
| 40) Benzene                  | 6.031          | 78   | 247476     | 36.530   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046042.D  
 Acq On : 05 May 2025 11:58  
 Operator : JC/MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 58082    | 38.123  | ug/l   | 100      |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 105332   | 37.605  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.336  | 43   | 161787   | 38.598  | ug/l   | 100      |
| 44) Trichloroethene           | 7.123  | 130  | 59623    | 37.230  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 62387    | 37.064  | ug/l   | 100      |
| 46) Dibromomethane            | 7.574  | 93   | 48201    | 36.326  | ug/l   | 100      |
| 47) Bromodichloromethane      | 7.818  | 83   | 96916    | 37.685  | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.690  | 41   | 84277    | 39.157  | ug/l   | 100      |
| 49) 1,4-Dioxane               | 7.659  | 88   | 30529    | 713.477 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 532388   | 193.653 | ug/l   | 100      |
| 52) Toluene                   | 8.714  | 92   | 150757   | 37.530  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 88655    | 41.056  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.360  | 75   | 97031    | 38.521  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97   | 59499    | 36.648  | ug/l   | 100      |
| 56) Ethyl methacrylate        | 9.116  | 69   | 99947    | 39.726  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 104606   | 36.347  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 257678   | 227.902 | ug/l   | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 396784   | 190.168 | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.519  | 129  | 67198    | 38.027  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.604  | 107  | 62633    | 37.567  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.269  | 164  | 54853    | 36.726  | ug/l   | 100      |
| 65) Chlorobenzene             | 10.079 | 112  | 160600   | 35.686  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 57066    | 38.017  | ug/l   | 100      |
| 67) Ethyl Benzene             | 10.189 | 91   | 295712   | 38.543  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 216578   | 78.142  | ug/l   | 100      |
| 69) o-Xylene                  | 10.640 | 106  | 106335   | 38.064  | ug/l   | 100      |
| 70) Styrene                   | 10.653 | 104  | 178313   | 39.888  | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 44486    | 39.457  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.957 | 105  | 280719   | 37.865  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.842 | 43   | 140509   | 38.012  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 90975    | 34.495  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 80678m   | 28.468  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 63053    | 36.763  | ug/l   | 100      |
| 78) n-propylbenzene           | 11.299 | 91   | 329981   | 39.707  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 203509   | 36.336  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 237066   | 38.516  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 26179    | 38.445  | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 233172   | 37.880  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 233468   | 38.622  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 239433   | 38.946  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 291074   | 38.786  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 241658   | 39.879  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 115651   | 36.199  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 115097   | 36.763  | ug/l   | 100      |
| 89) n-Butylbenzene            | 12.329 | 91   | 213899   | 40.603  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 42314    | 37.534  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 115286   | 37.047  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 21909    | 36.496  | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 66655    | 39.117  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 29007    | 36.395  | ug/l   | 100      |
| 95) Naphthalene               | 13.774 | 128  | 245568   | 39.575  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 69262    | 38.765  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046042.D  
Acq On : 05 May 2025 11:58  
Operator : JC/MD  
Sample : VSTDICCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

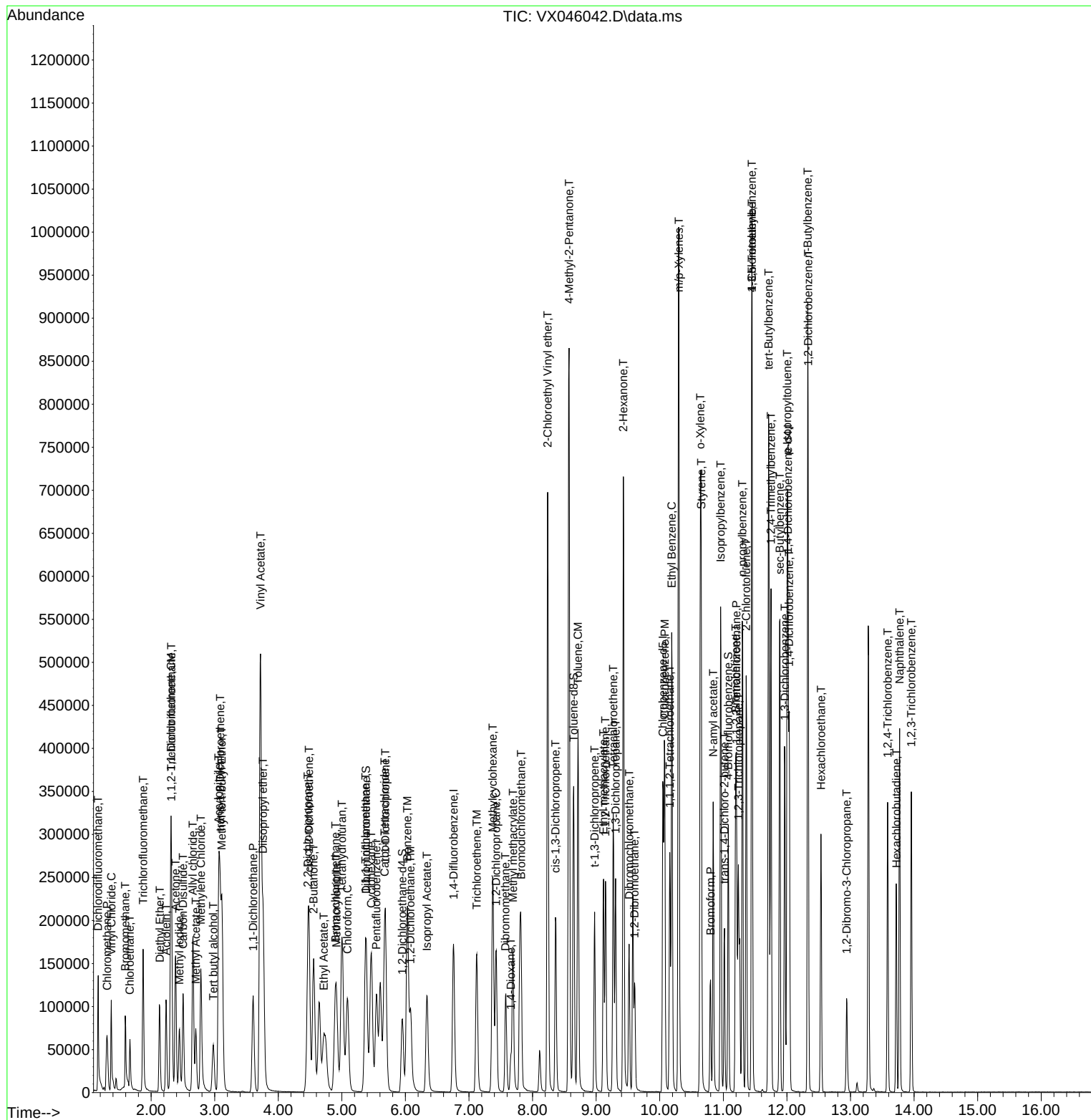
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046042.D  
Acq On : 05 May 2025 11:58  
Operator : JC/MD  
Sample : VSTDICCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 6 Sample Multiplier: 1

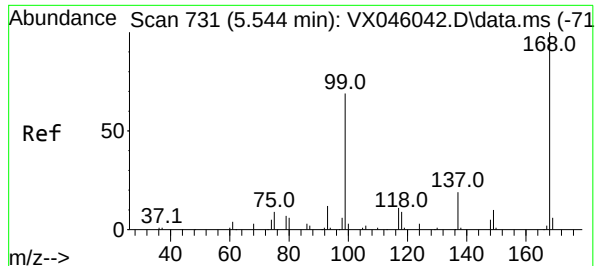
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICCC050

## Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration





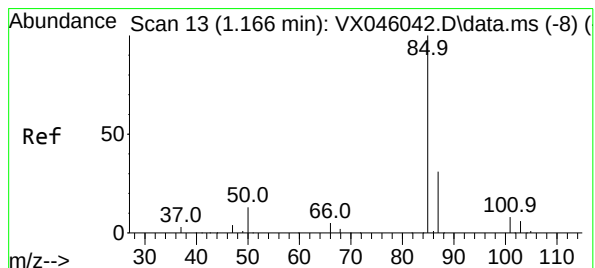
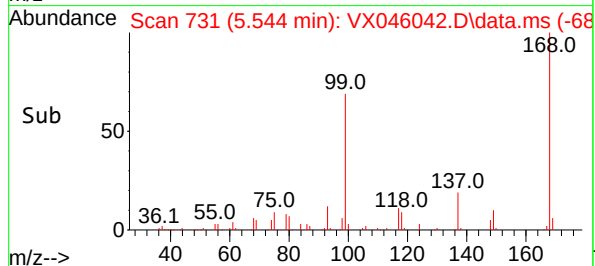
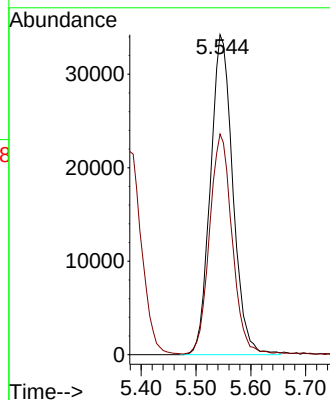
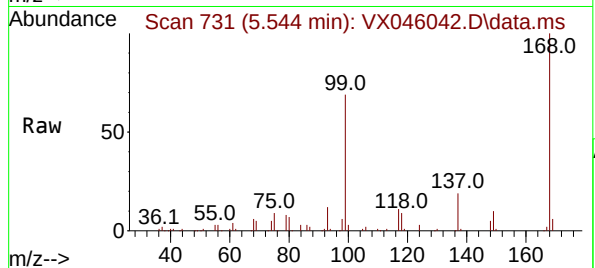
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion:168 Resp: 97070  
Ion Ratio Lower Upper  
168 100  
99 68.6 54.9 82.3

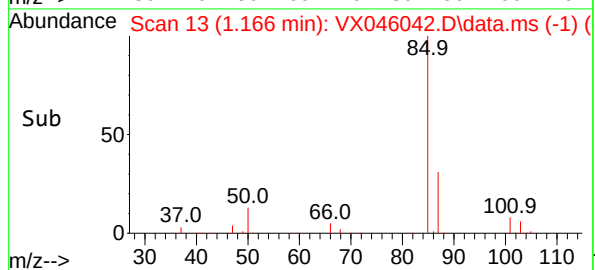
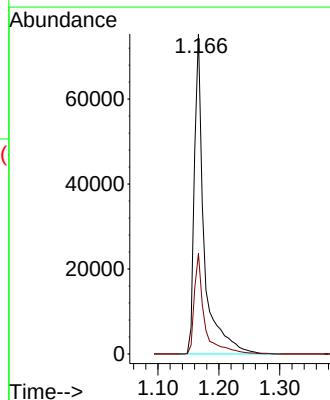
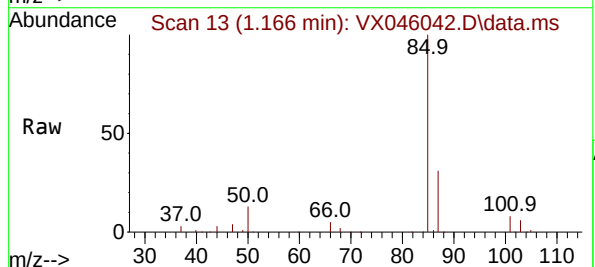
Manual Integrations  
APPROVED

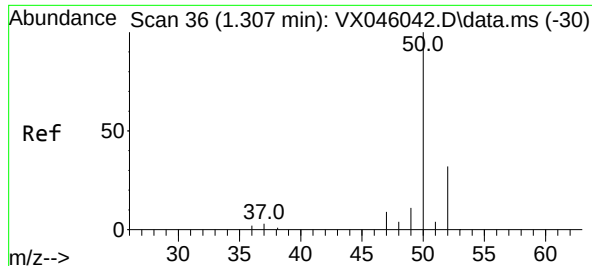
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#2  
Dichlorodifluoromethane  
Concen: 39.120 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 85 Resp: 83826  
Ion Ratio Lower Upper  
85 100  
87 31.4 15.7 47.1





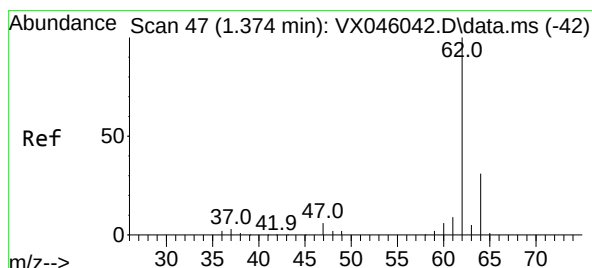
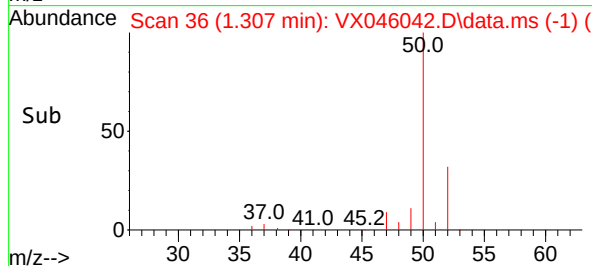
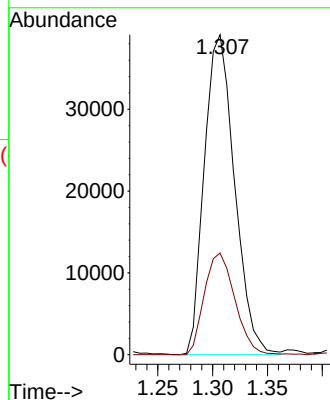
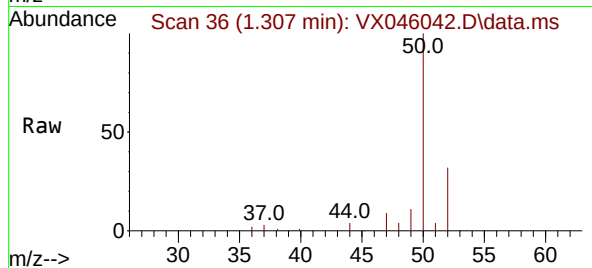
#3  
Chloromethane  
Concen: 35.658 ug/l  
RT: 1.307 min Scan# 36  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 50 Resp: 75238  
Ion Ratio Lower Upper  
50 100  
52 31.8 25.4 38.2

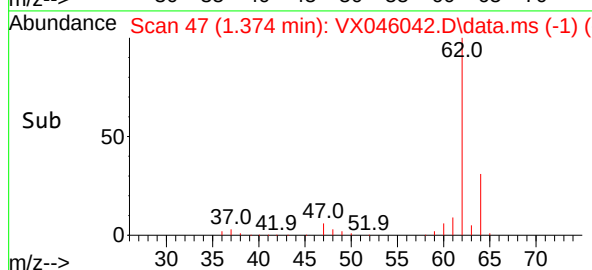
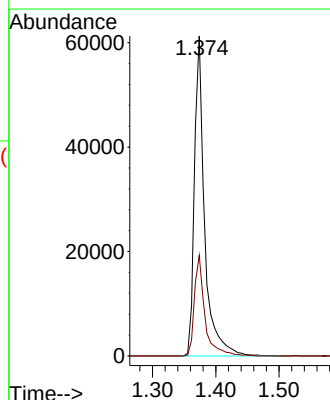
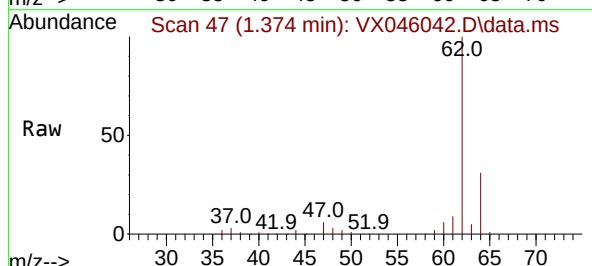
Manual Integrations  
APPROVED

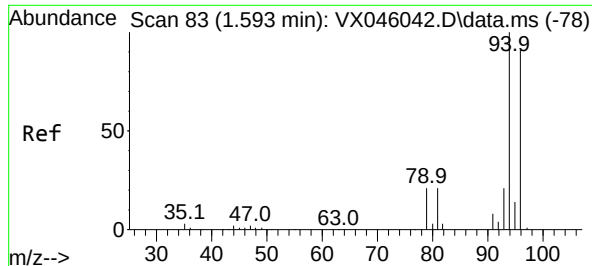
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 37.273 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

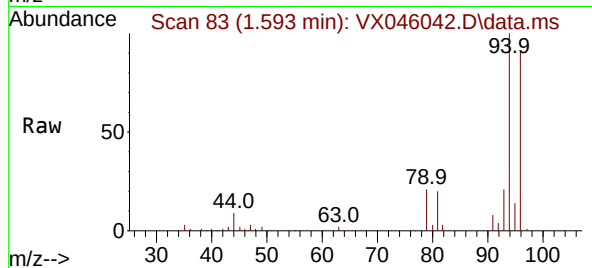
Tgt Ion: 62 Resp: 68901  
Ion Ratio Lower Upper  
62 100  
64 31.5 25.2 37.8





#5  
Bromomethane  
Concen: 33.765 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

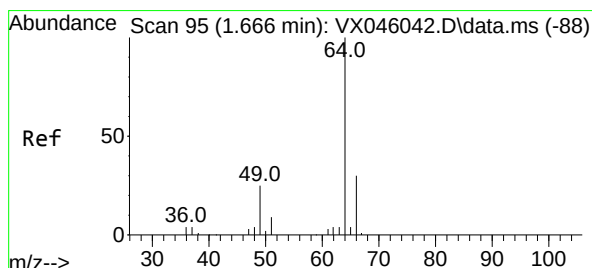
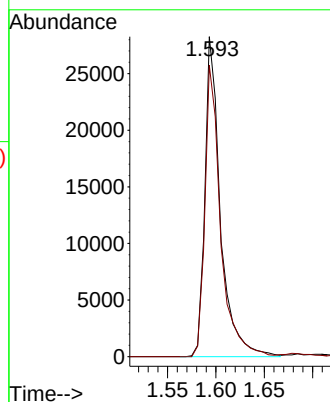
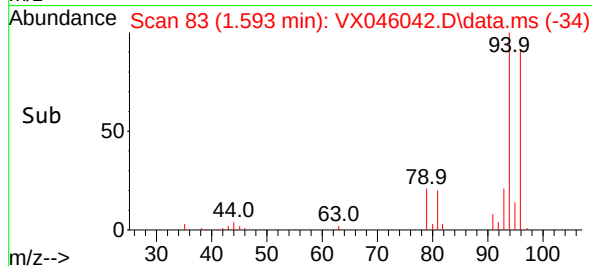
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 94 Resp: 31648  
Ion Ratio Lower Upper  
94 100  
96 91.0 72.8 109.2

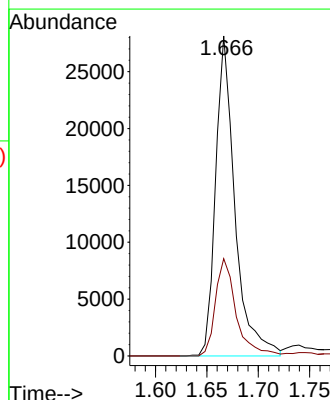
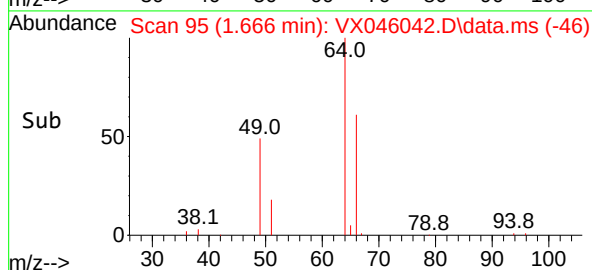
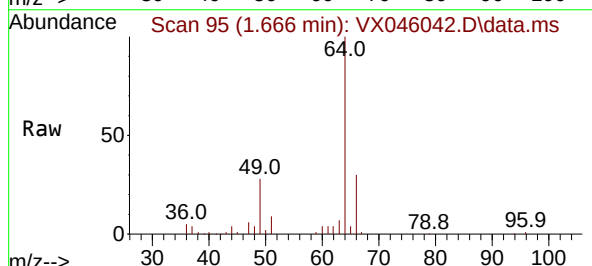
Manual Integrations  
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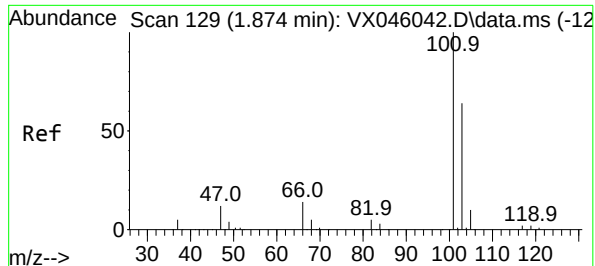
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#6  
Chloroethane  
Concen: 38.558 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

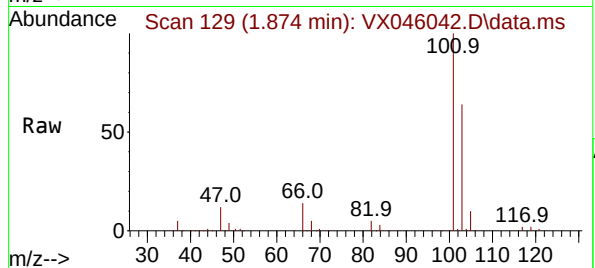
Tgt Ion: 64 Resp: 36722  
Ion Ratio Lower Upper  
64 100  
66 30.4 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 36.824 ug/l  
RT: 1.874 min Scan# 129  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

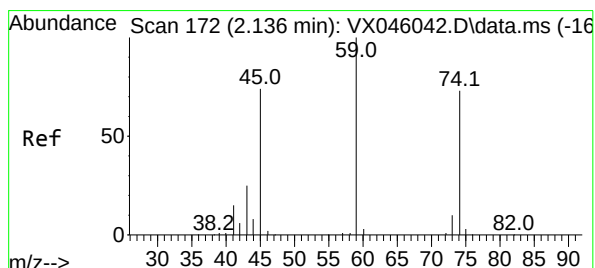
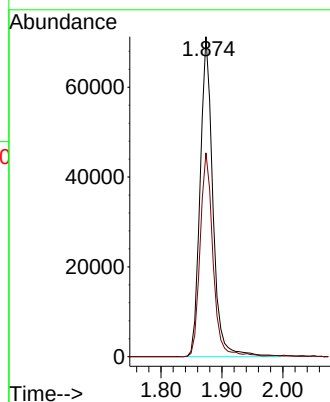
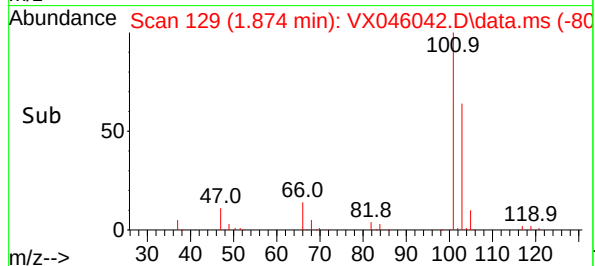
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:101 Resp: 10369  
Ion Ratio Lower Upper  
101 100  
103 63.7 51.0 76.4

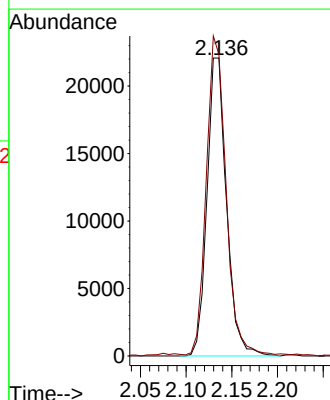
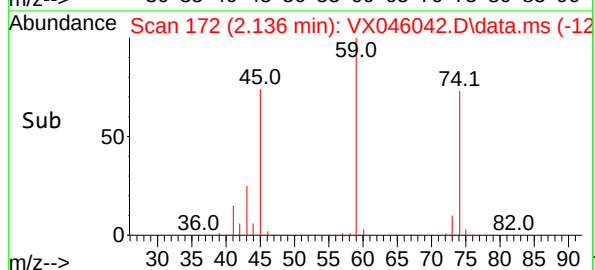
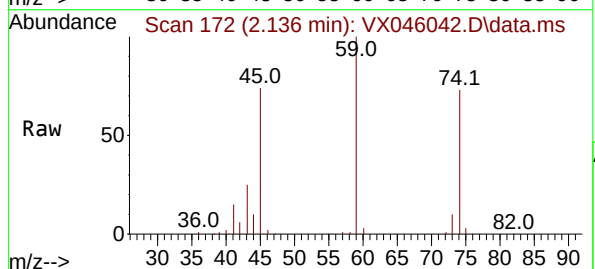
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Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

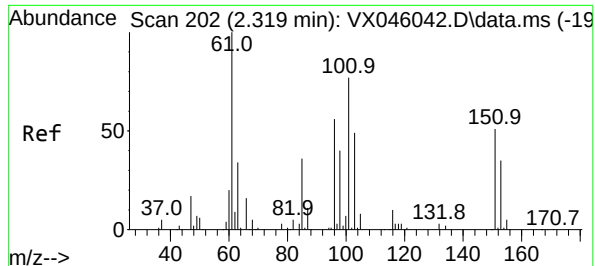


#8  
Diethyl Ether  
Concen: 35.350 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 74 Resp: 32724  
Ion Ratio Lower Upper  
74 100  
45 109.9 54.9 164.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 36.997 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 6225

Ion Ratio Lower Upper

101 100

85 48.3 38.6 58.0

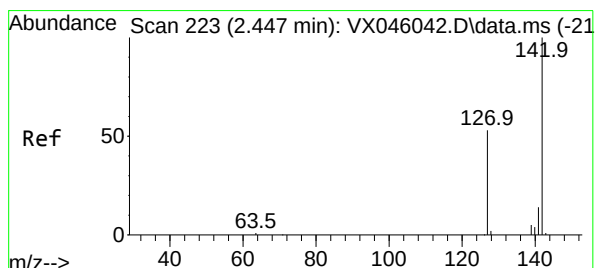
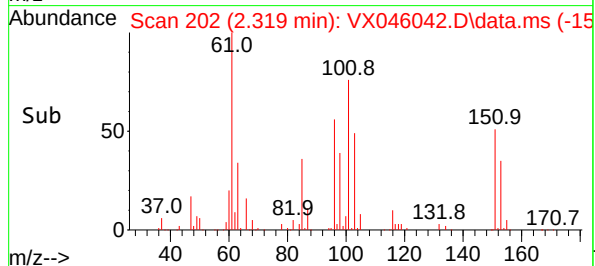
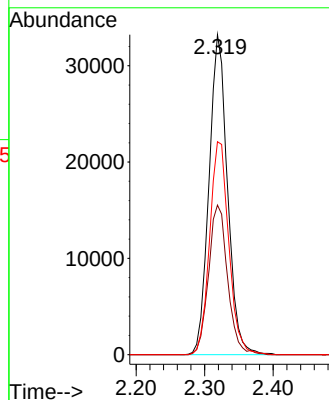
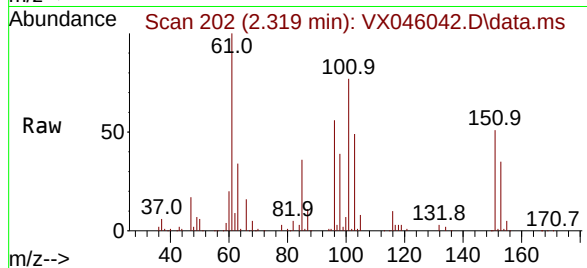
151 69.0 55.2 82.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#10

Methyl Iodide

Concen: 39.622 ug/l

RT: 2.447 min Scan# 223

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

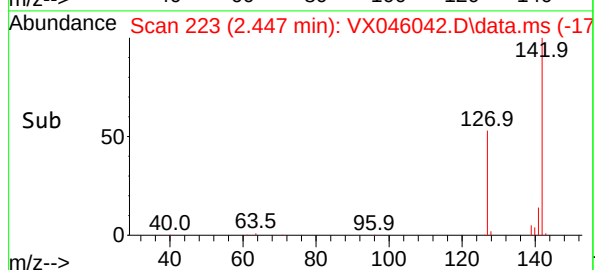
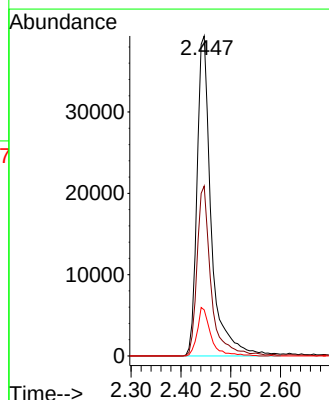
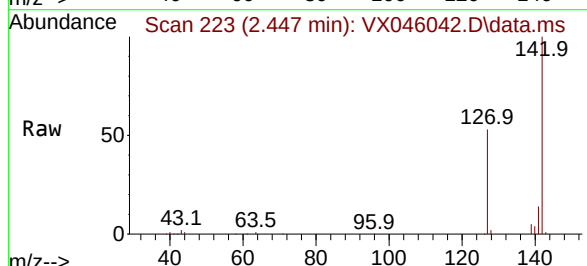
Tgt Ion:142 Resp: 78277

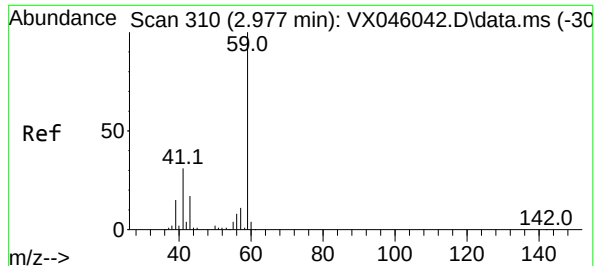
Ion Ratio Lower Upper

142 100

127 52.1 41.7 62.5

141 14.4 11.5 17.3





#11

Tert butyl alcohol

Concen: 181.745 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 6255

Ion Ratio Lower Upper

59 100

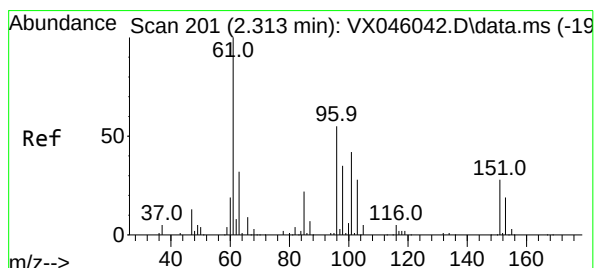
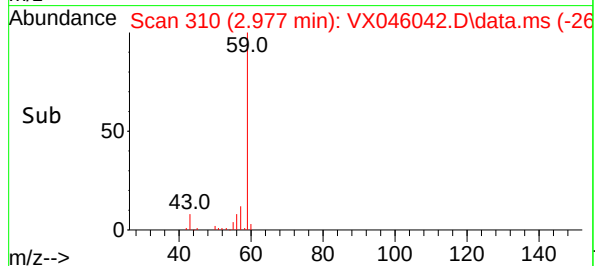
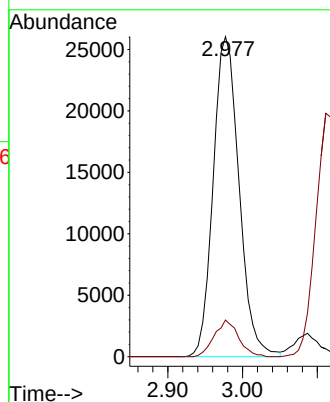
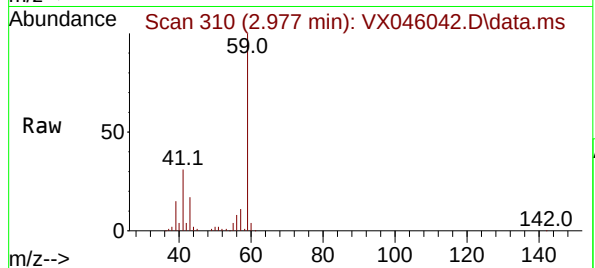
57 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#12

1,1-Dichloroethene

Concen: 35.610 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

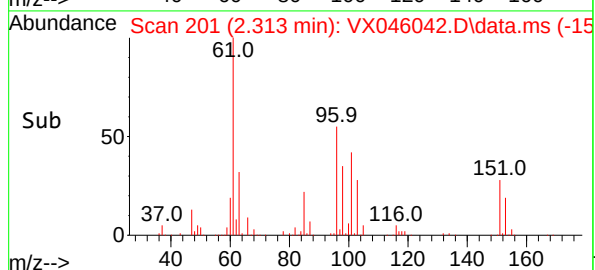
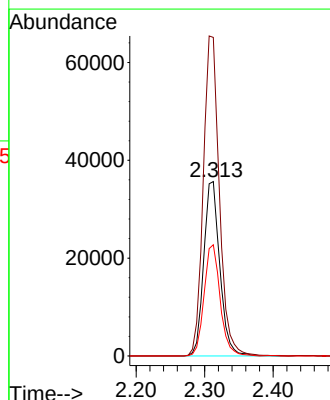
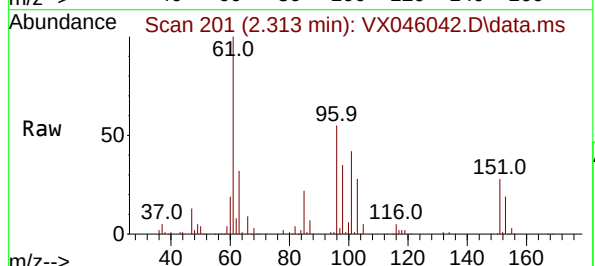
Tgt Ion: 96 Resp: 58334

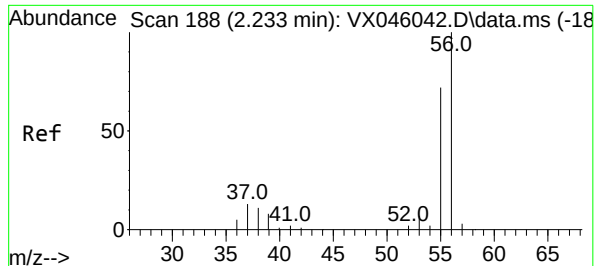
Ion Ratio Lower Upper

96 100

61 182.7 146.2 219.2

98 63.8 51.0 76.6





#13

Acrolein

Concen: 184.907 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 7392

Ion Ratio Lower Upper

56 100

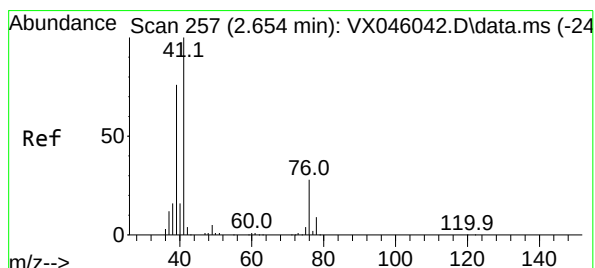
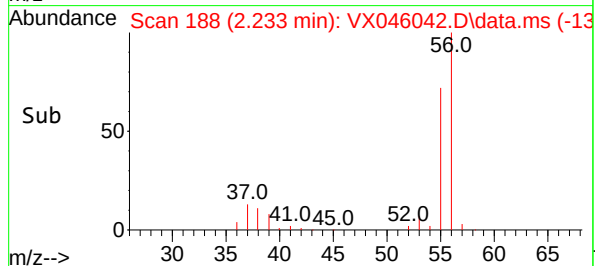
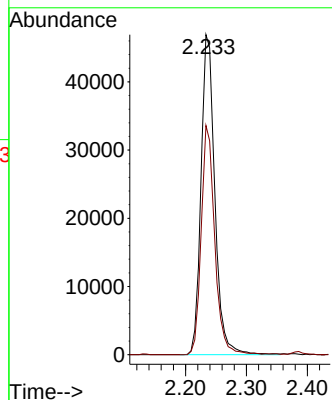
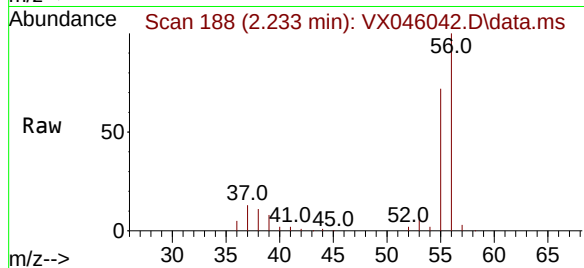
55 70.3 56.2 84.4

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 36.971 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

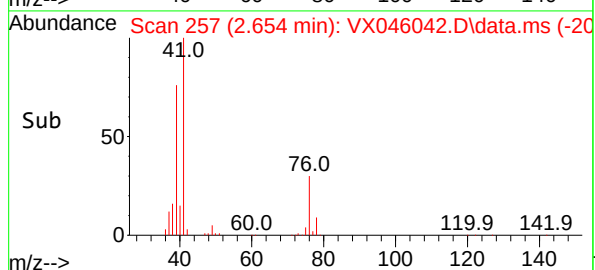
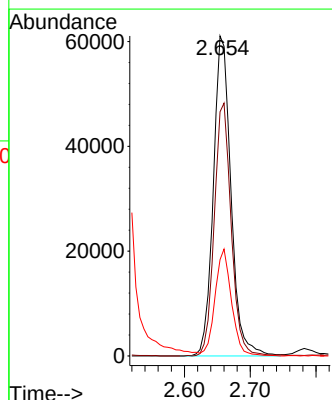
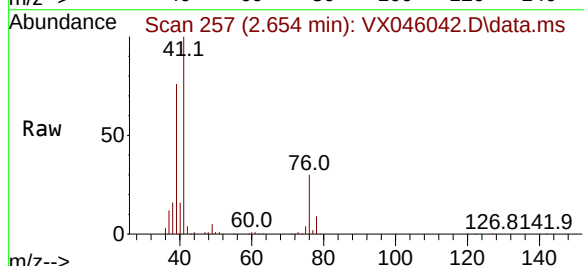
Tgt Ion: 41 Resp: 114445

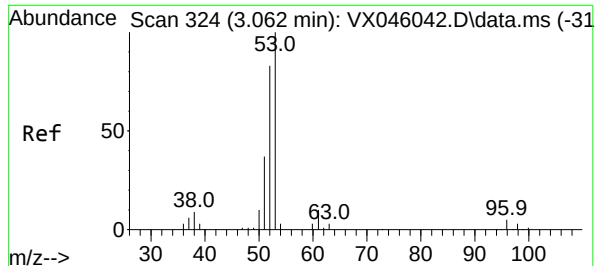
Ion Ratio Lower Upper

41 100

39 75.7 60.6 90.8

76 31.1 24.9 37.3





#15

Acrylonitrile

Concen: 182.874 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 188304

Ion Ratio Lower Upper

53 100

52 81.6 65.3 97.9

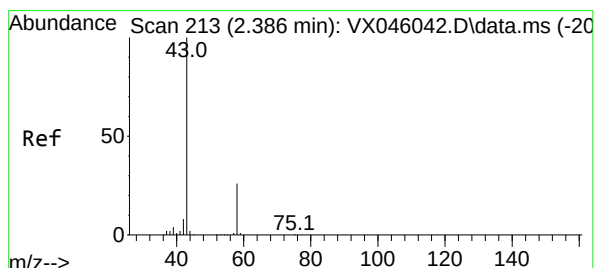
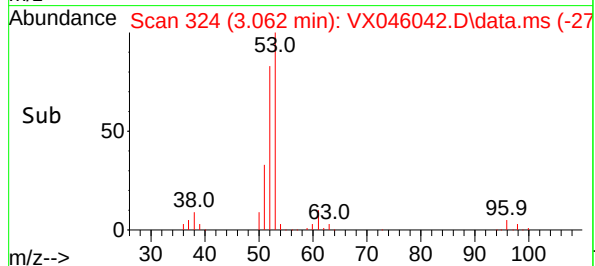
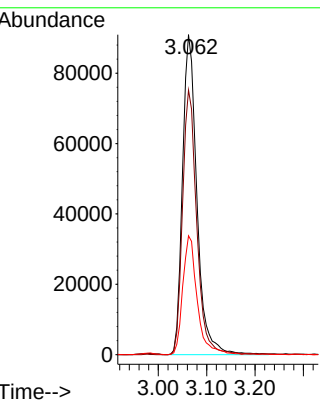
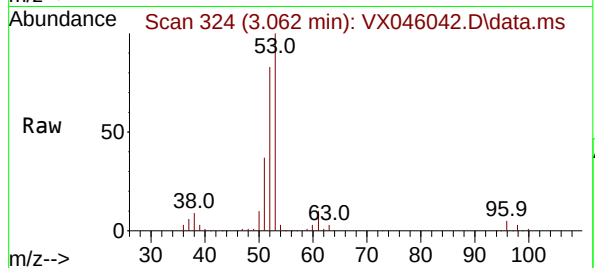
51 37.3 29.8 44.8

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 177.910 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX046042.D

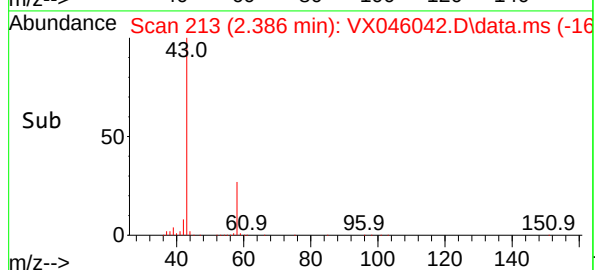
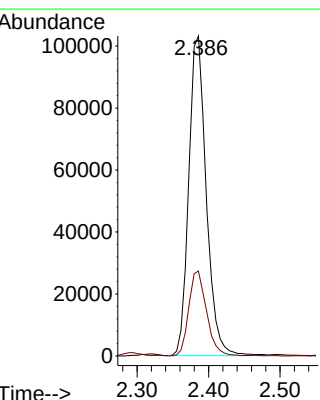
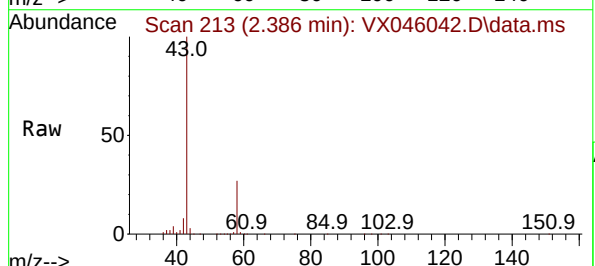
Acq: 05 May 2025 11:58

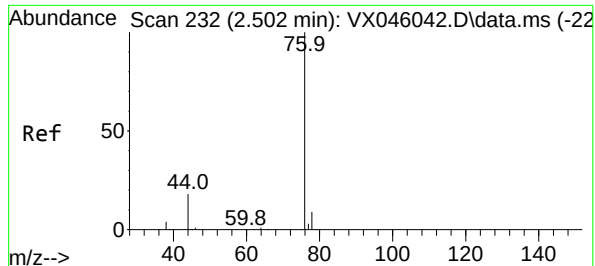
Tgt Ion: 43 Resp: 175777

Ion Ratio Lower Upper

43 100

58 26.5 21.2 31.8





#17

Carbon Disulfide

Concen: 37.223 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 14128

Ion Ratio Lower Upper

76 100

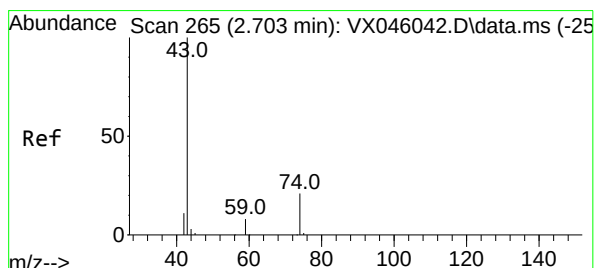
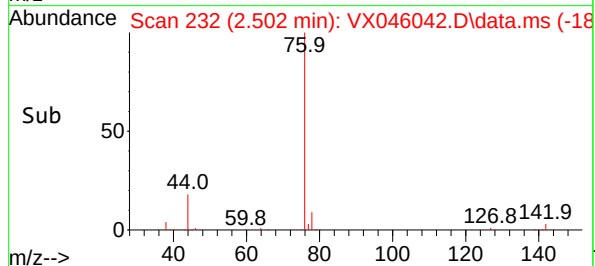
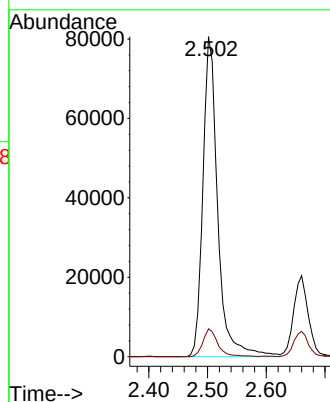
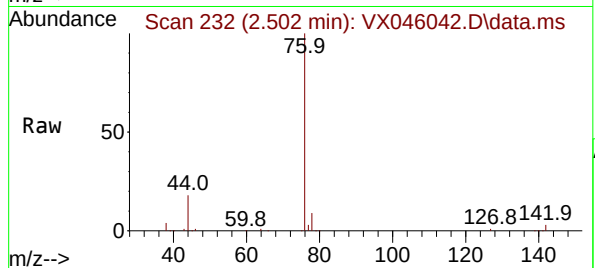
78 8.7 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 34.915 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX046042.D

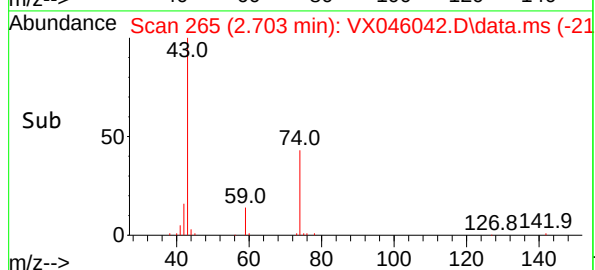
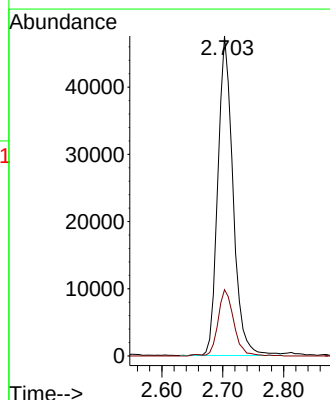
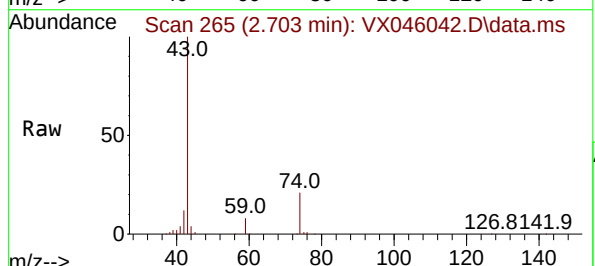
Acq: 05 May 2025 11:58

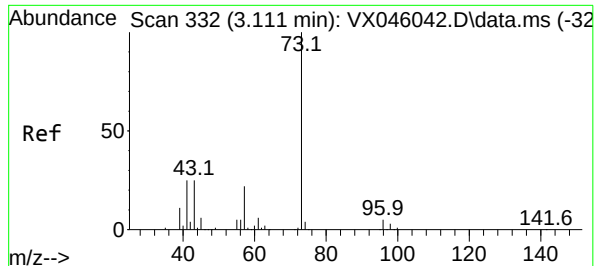
Tgt Ion: 43 Resp: 82347

Ion Ratio Lower Upper

43 100

74 20.9 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 36.695 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 20966

Ion Ratio Lower Upper

73 100

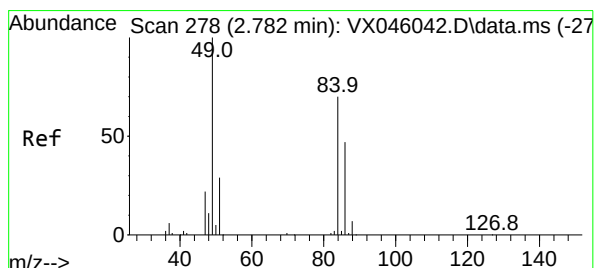
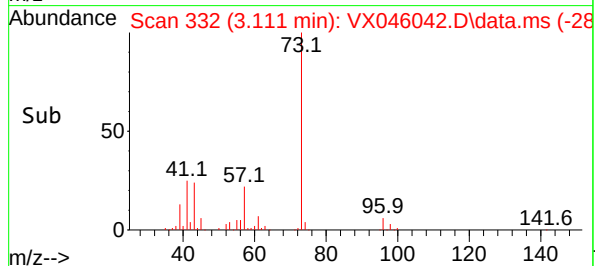
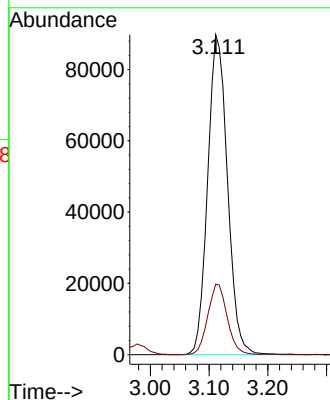
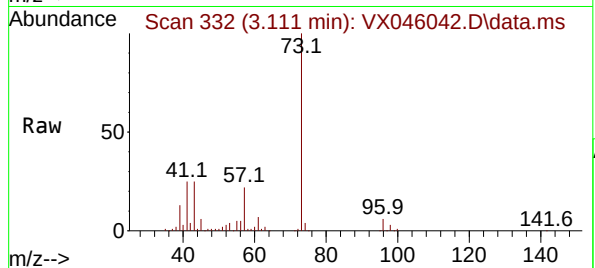
57 22.1 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#20

Methylene Chloride

Concen: 33.182 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Tgt Ion: 84 Resp: 66412

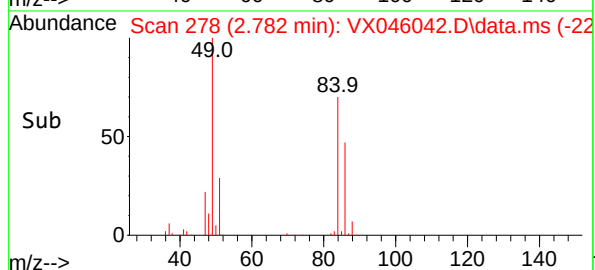
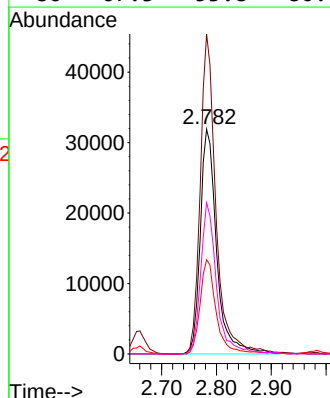
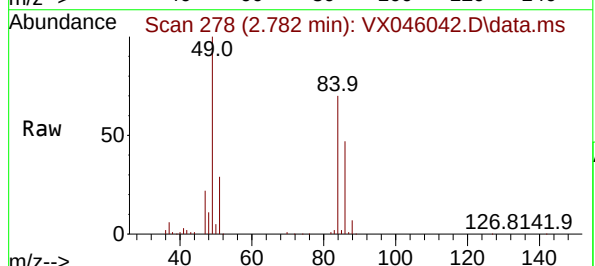
Ion Ratio Lower Upper

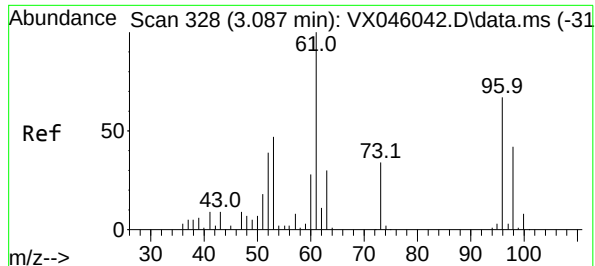
84 100

49 142.4 113.9 170.9

51 41.9 33.5 50.3

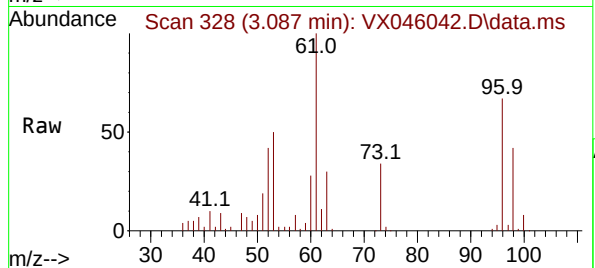
86 67.3 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 35.421 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

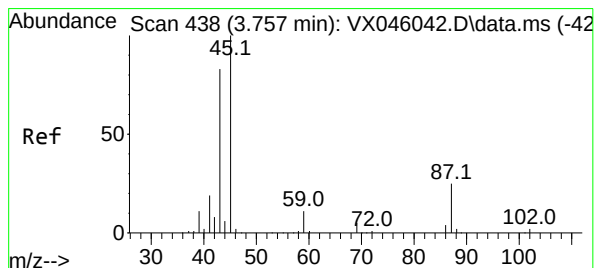
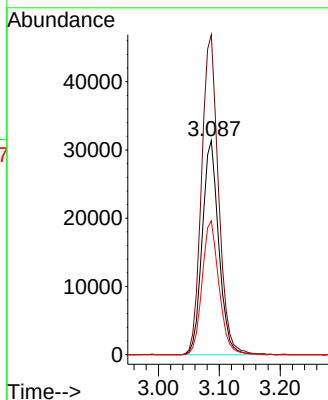
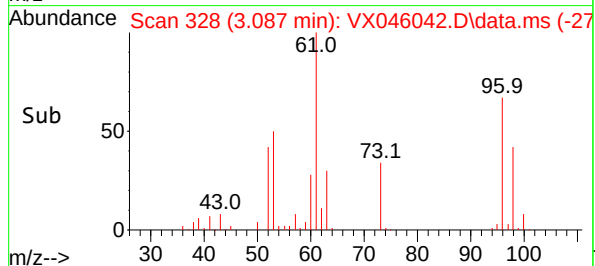
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 96 Resp: 59234  
Ion Ratio Lower Upper  
96 100  
61 149.4 119.5 179.3  
98 62.5 50.0 75.0

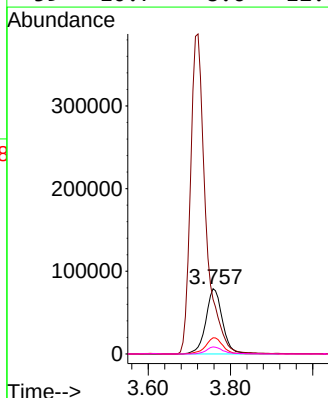
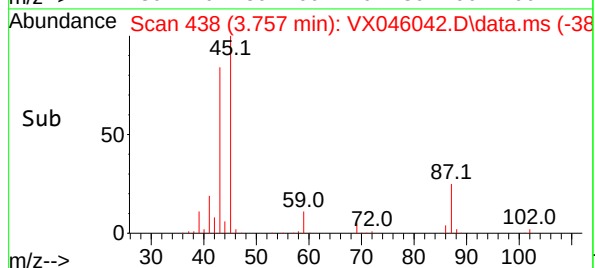
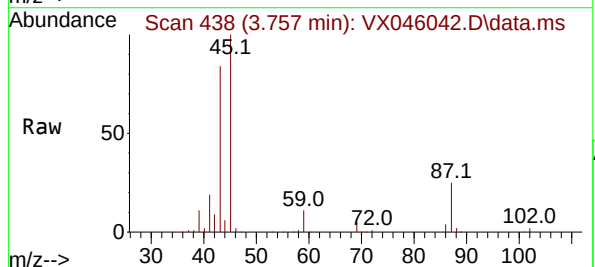
Manual Integrations  
APPROVED

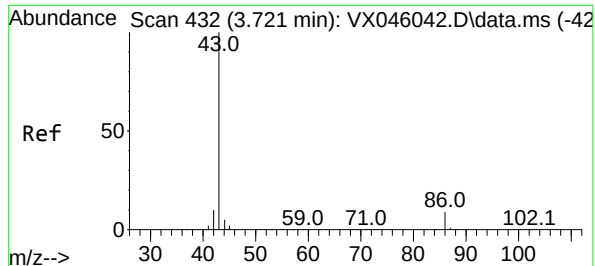
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 38.241 ug/l  
RT: 3.757 min Scan# 438  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 45 Resp: 221172  
Ion Ratio Lower Upper  
45 100  
43 83.3 66.6 100.0  
87 24.7 19.8 29.6  
59 10.7 8.6 12.8





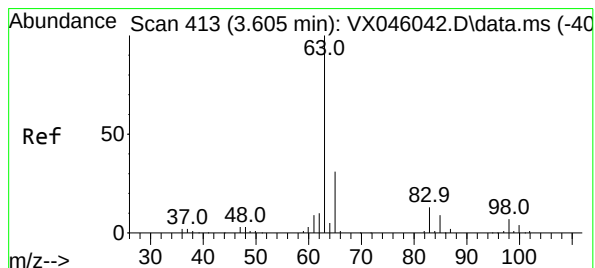
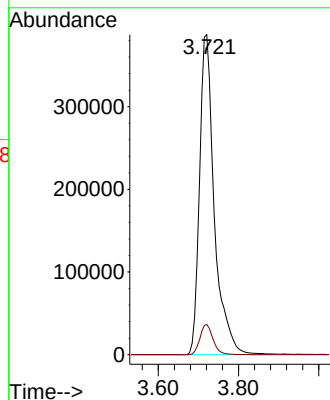
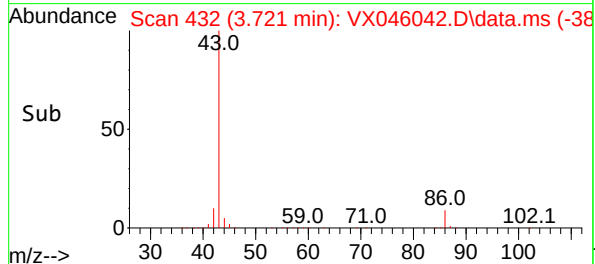
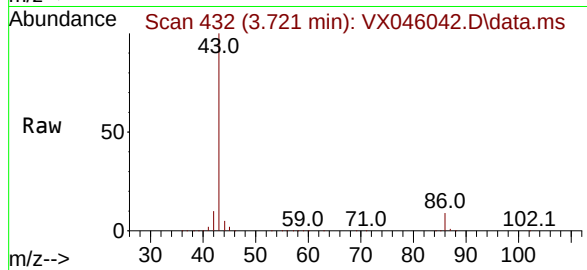
#23  
Vinyl Acetate  
Concen: 194.528 ug/l  
RT: 3.721 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 43 Resp: 994230  
Ion Ratio Lower Upper  
43 100  
86 9.4 7.5 11.3

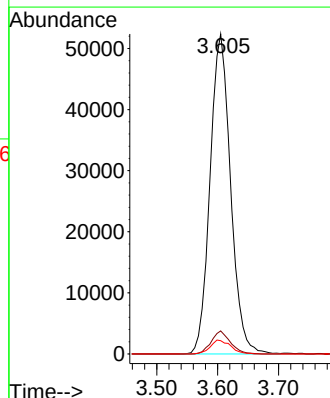
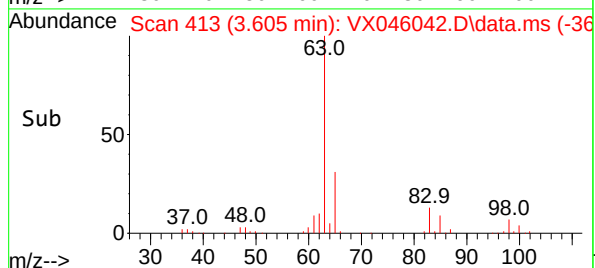
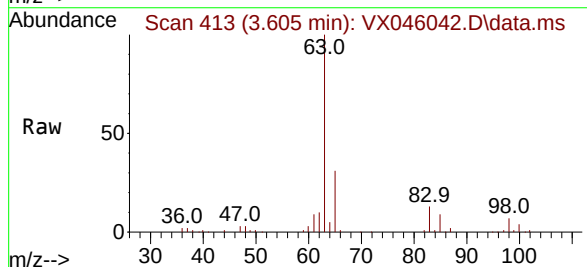
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

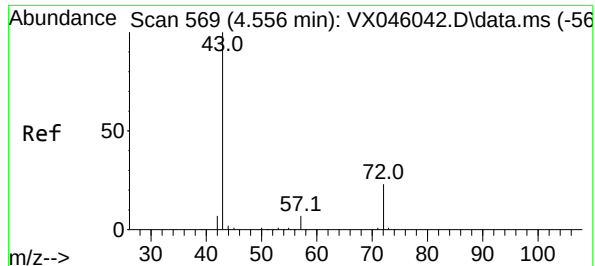


#24  
1,1-Dichloroethane  
Concen: 36.067 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 122601  
Ion Ratio Lower Upper  
63 100  
98 7.2 3.6 10.8  
100 4.2 2.1 6.3







#25

2-Butanone

Concen: 188.783 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 269224

Ion Ratio Lower Upper

43 100

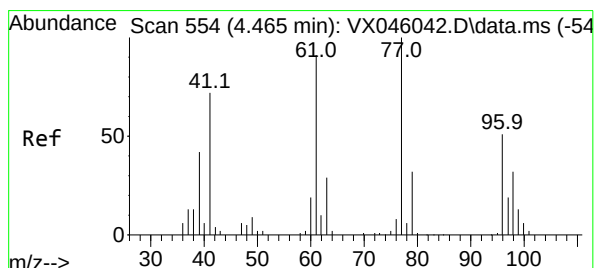
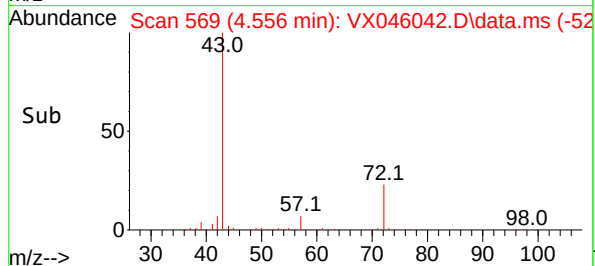
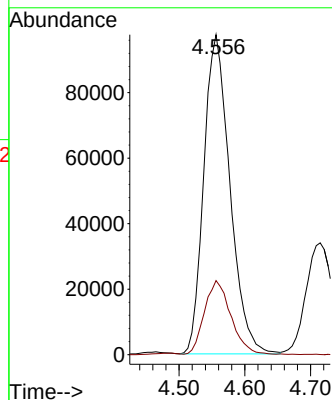
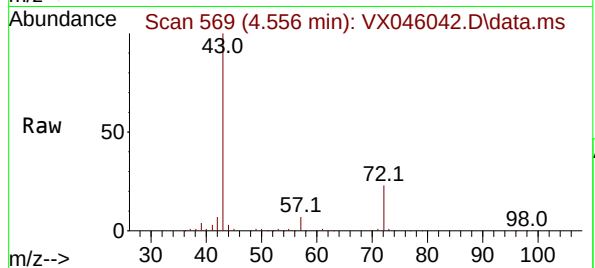
72 23.0 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 36.059 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX046042.D

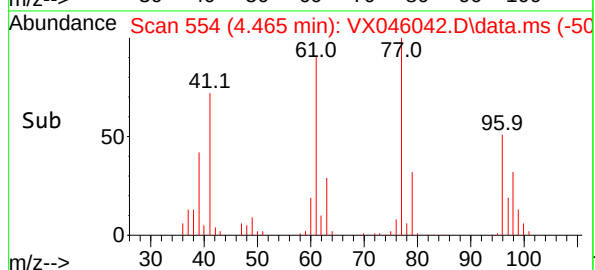
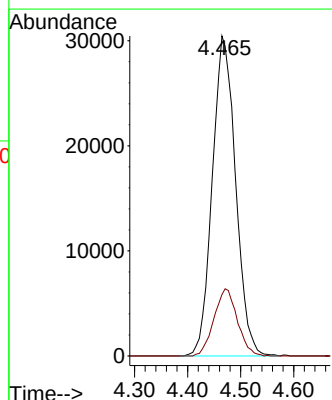
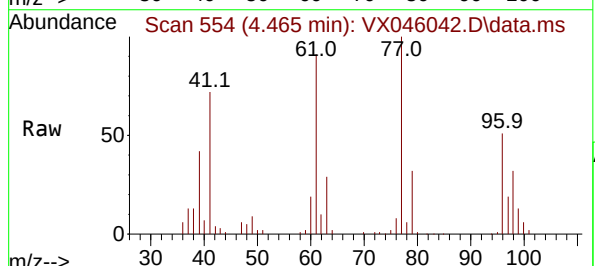
Acq: 05 May 2025 11:58

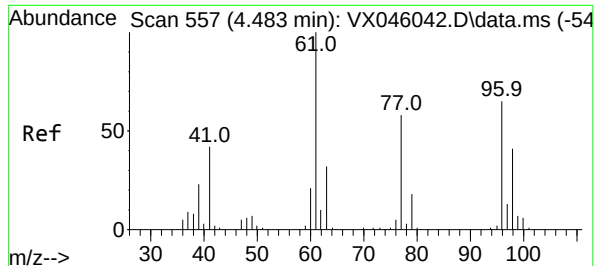
Tgt Ion: 77 Resp: 92857

Ion Ratio Lower Upper

77 100

97 21.0 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 35.466 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 71518

Ion Ratio Lower Upper

96 100

61 161.4 0.0 322.8

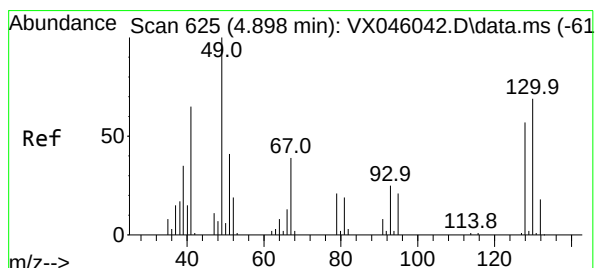
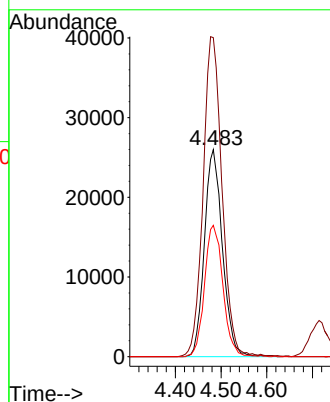
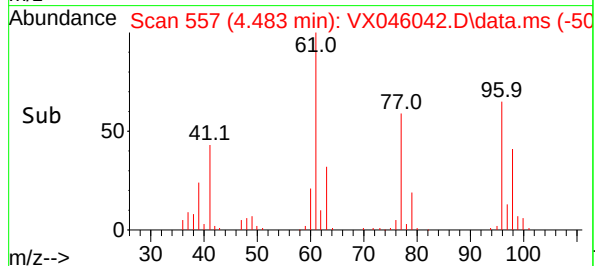
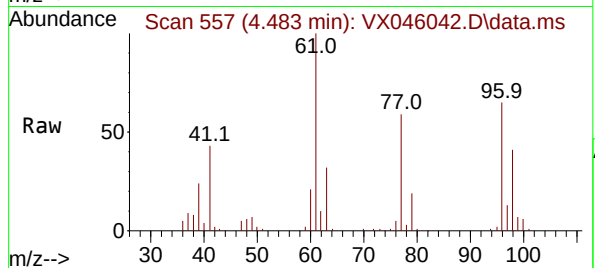
98 64.5 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 31.031 ug/l

RT: 4.898 min Scan# 625

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

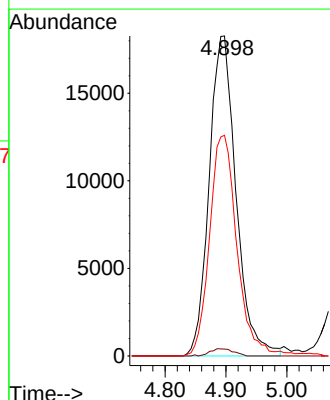
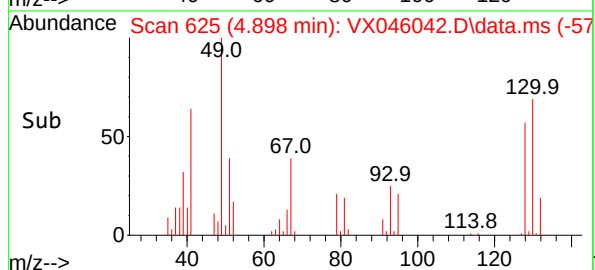
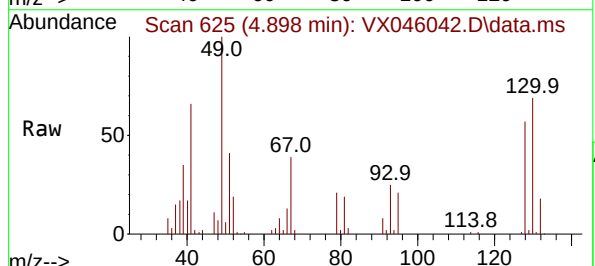
Tgt Ion: 49 Resp: 56091

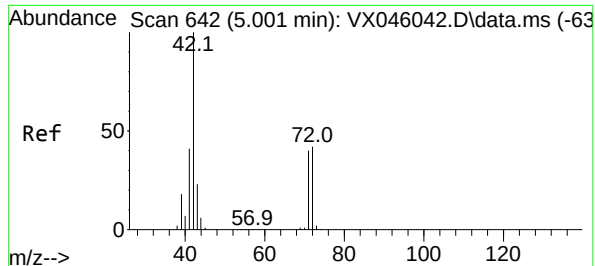
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 70.2 56.2 84.2





#29

Tetrahydrofuran

Concen: 183.679 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 170124

Ion Ratio Lower Upper

42 100

72 42.1 33.7 50.5

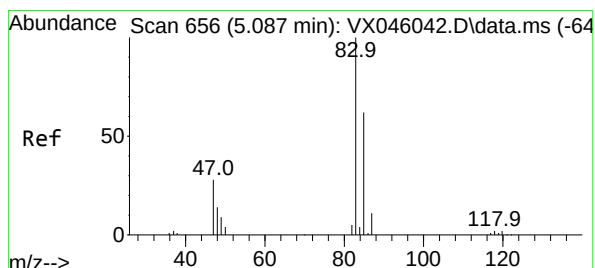
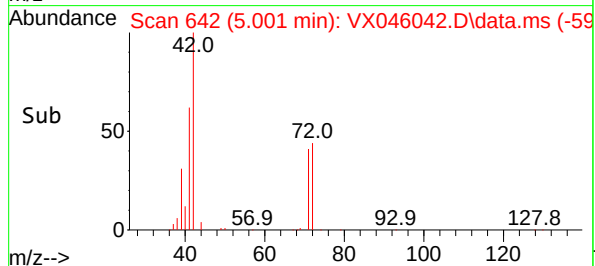
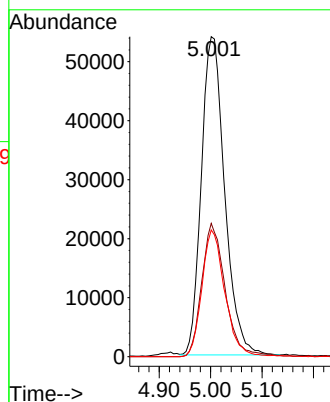
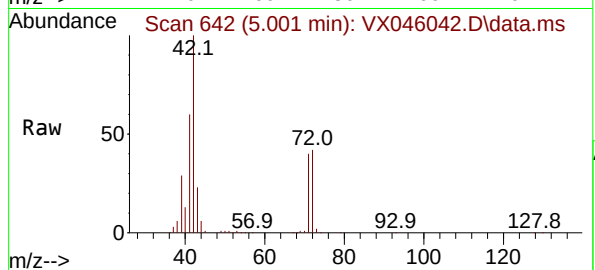
71 39.3 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 35.626 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX046042.D

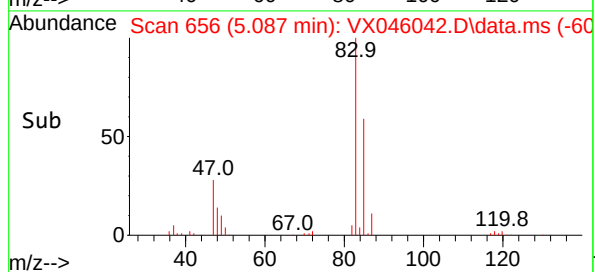
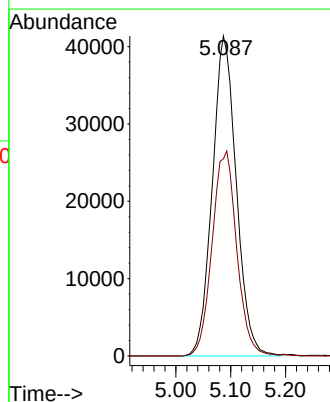
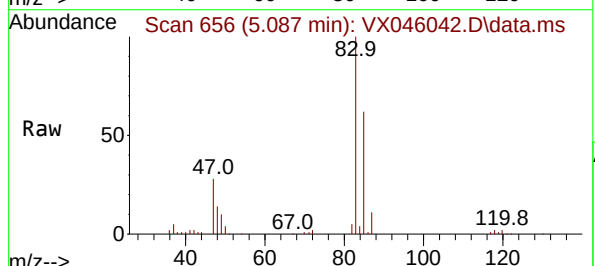
Acq: 05 May 2025 11:58

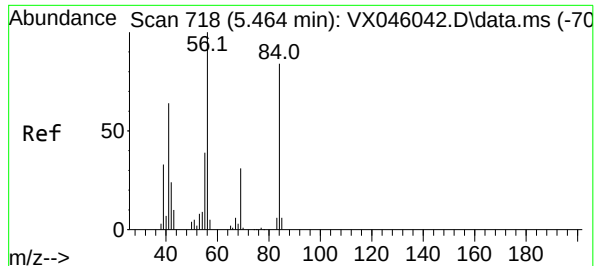
Tgt Ion: 83 Resp: 125850

Ion Ratio Lower Upper

83 100

85 61.6 49.3 73.9





#31

Cyclohexane

Concen: 38.205 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 10945

Ion Ratio Lower Upper

56 100

69 30.5 24.4 36.6

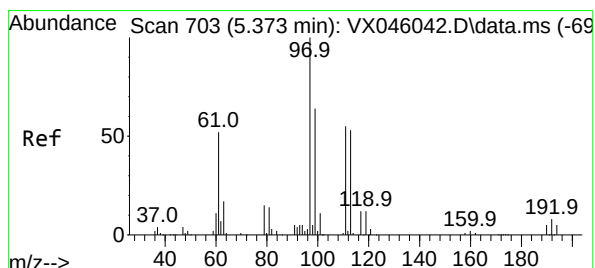
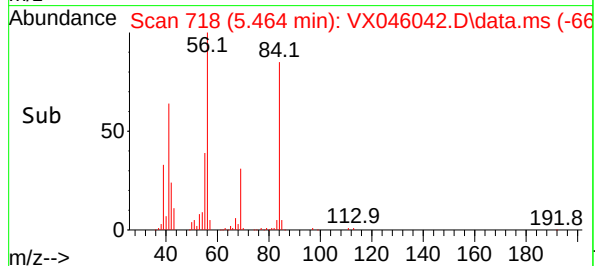
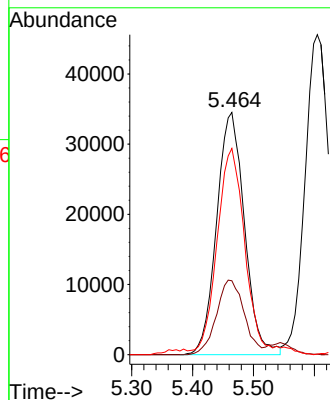
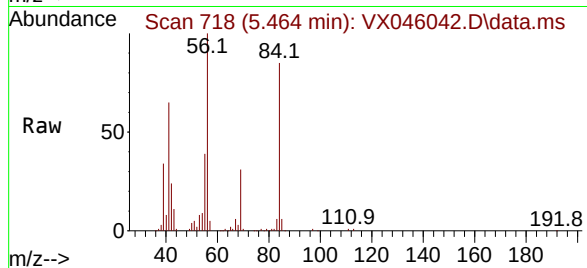
84 83.6 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#32

1,1,1-Trichloroethane

Concen: 36.034 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

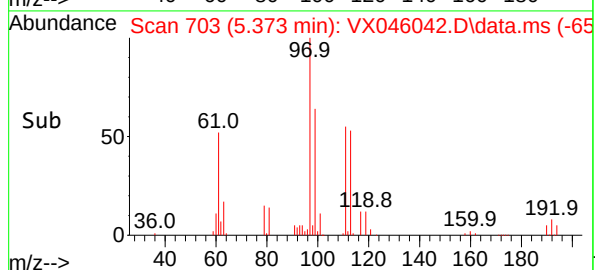
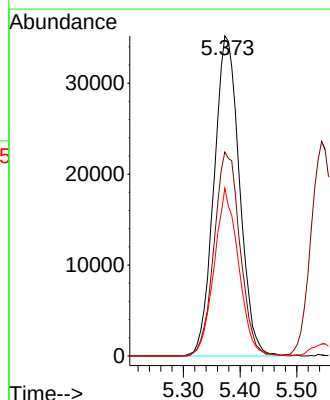
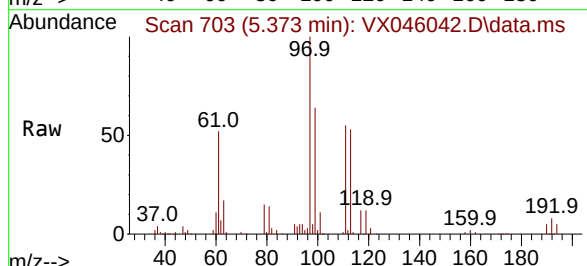
Tgt Ion: 97 Resp: 109781

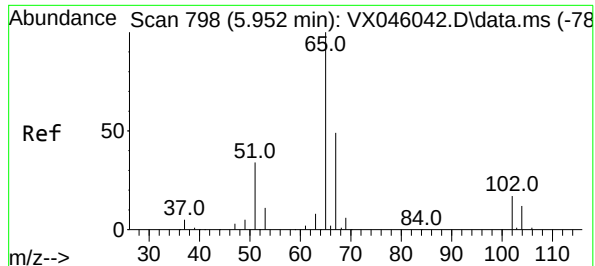
Ion Ratio Lower Upper

97 100

99 64.7 51.8 77.6

61 50.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 30.601 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 8837

Ion Ratio Lower Upper

65 100

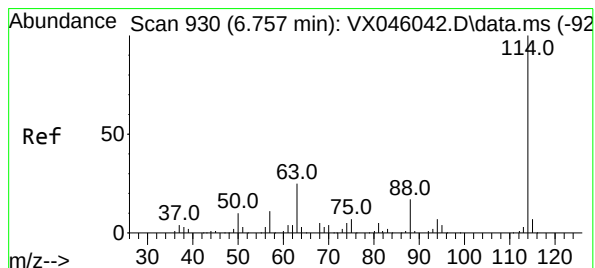
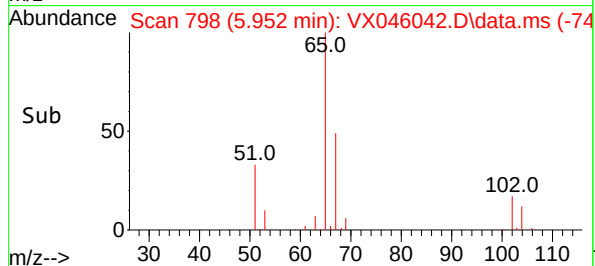
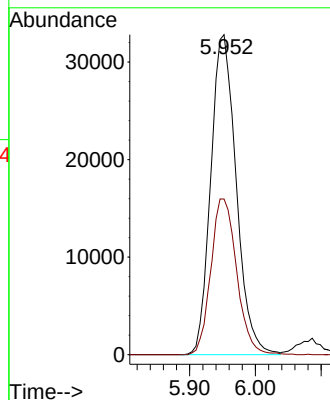
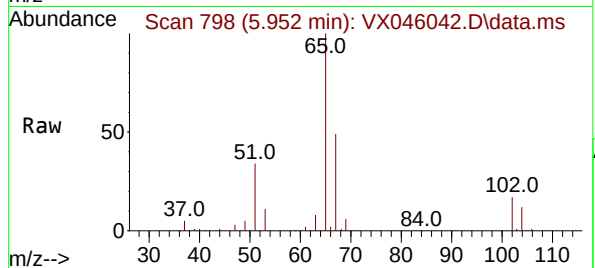
67 49.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

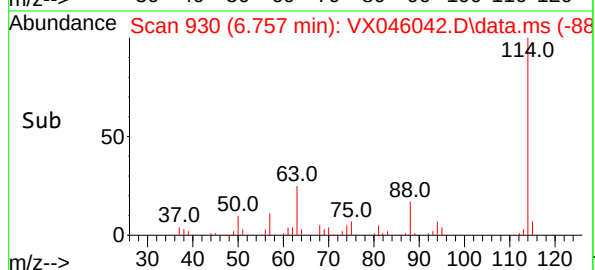
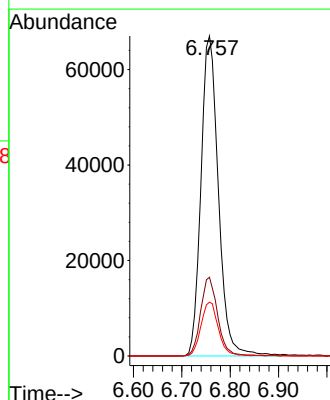
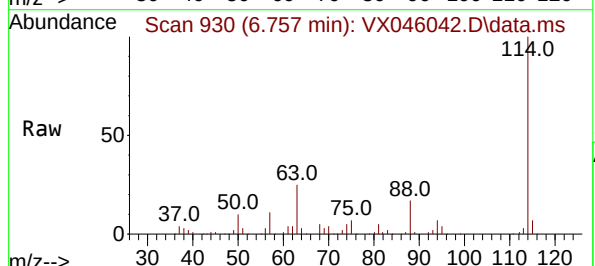
Tgt Ion:114 Resp: 167947

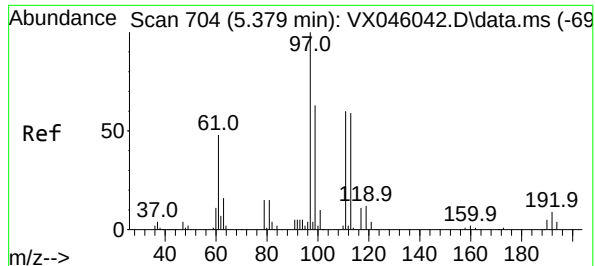
Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

88 16.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 31.633 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

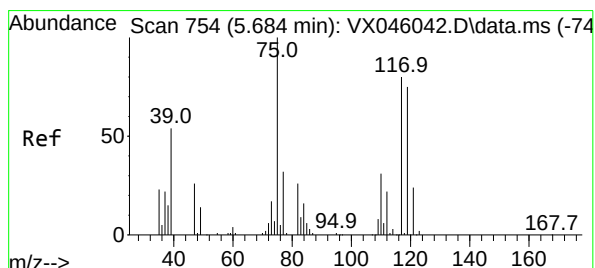
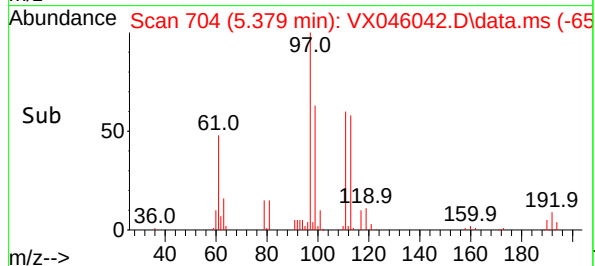
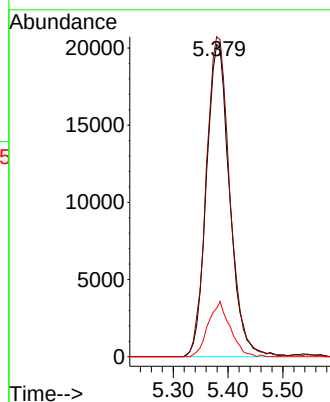
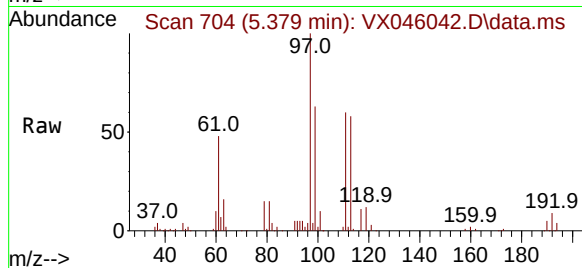
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 59550 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.9 | 83.1  | 124.7 |
| 192      | 16.6  | 13.3  | 19.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#36

1,1-Dichloropropene

Concen: 38.073 ug/l

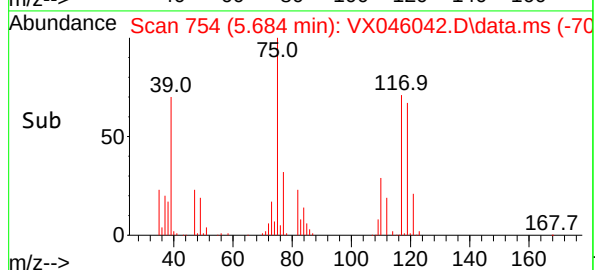
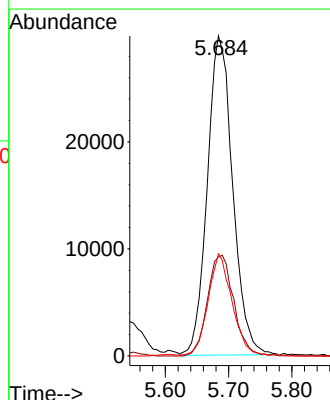
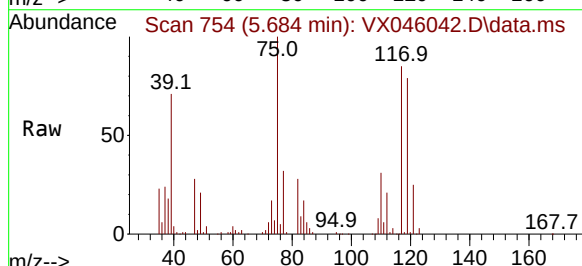
RT: 5.684 min Scan# 754

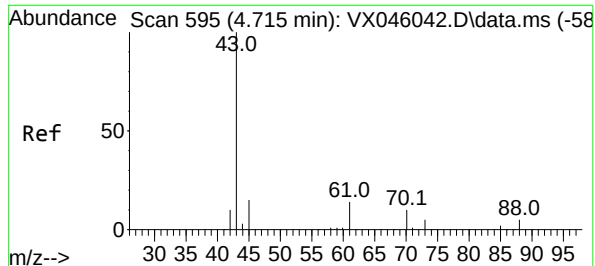
Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 83215 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 32.6  | 16.3  | 48.9  |
| 77       | 30.4  | 24.3  | 36.5  |





#37

Ethyl Acetate

Concen: 37.394 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 10253

Ion Ratio Lower Upper

43 100

61 12.9 10.3 15.5

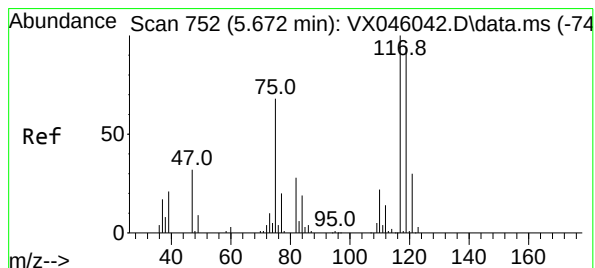
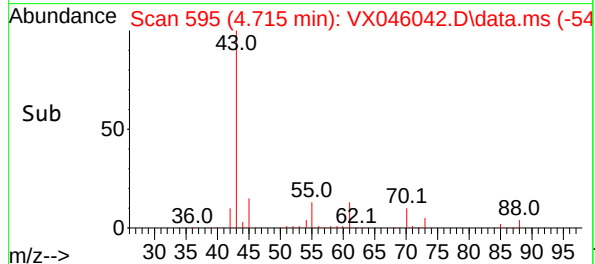
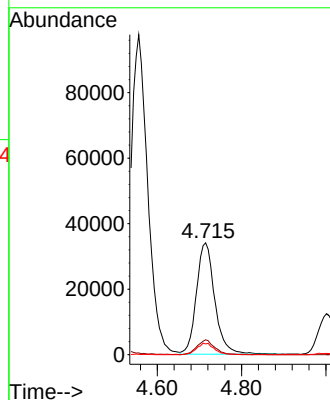
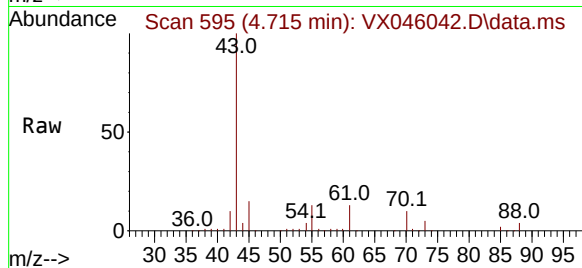
70 9.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#38

Carbon Tetrachloride

Concen: 37.320 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

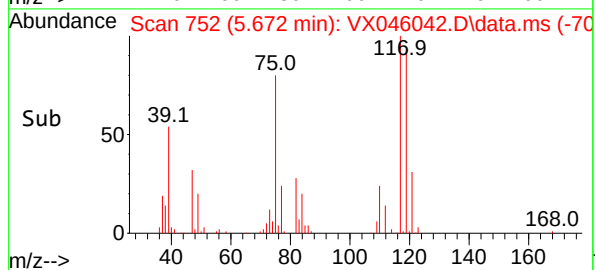
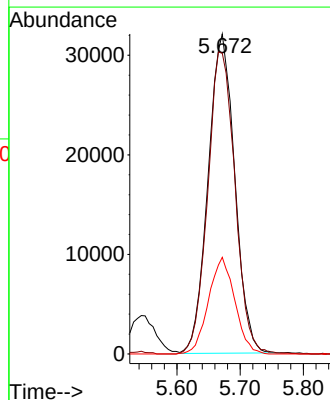
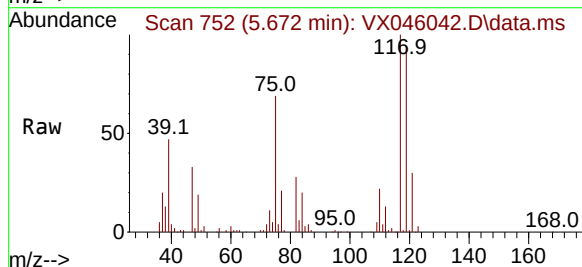
Tgt Ion:117 Resp: 93712

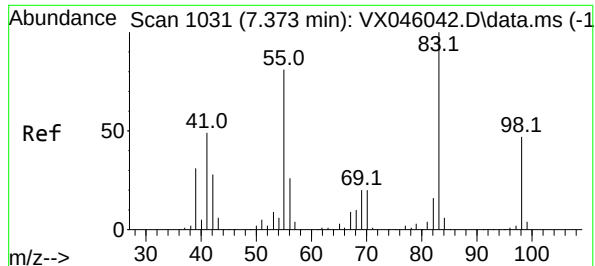
Ion Ratio Lower Upper

117 100

119 94.0 75.2 112.8

121 30.3 24.2 36.4





#39

Methylcyclohexane

Concen: 39.307 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 10765

Ion Ratio Lower Upper

83 100

55 80.9 64.7 97.1

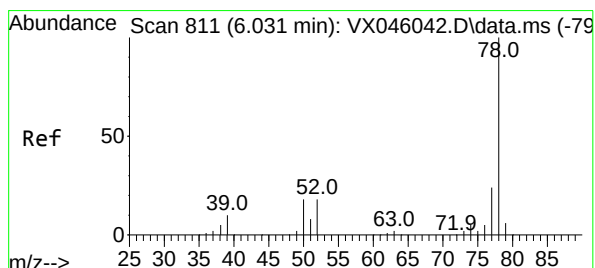
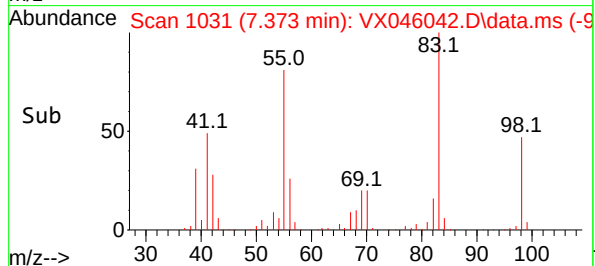
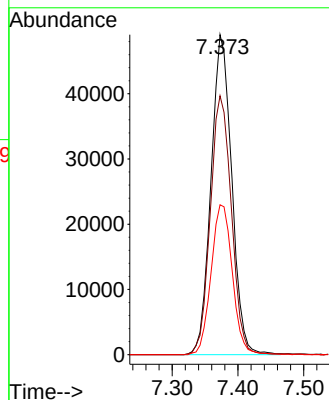
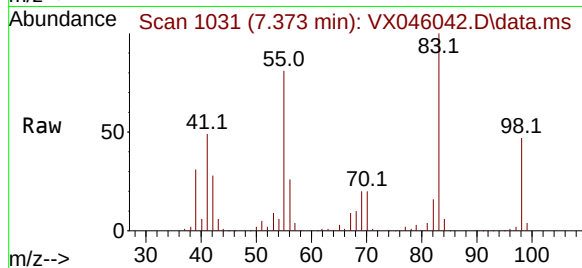
98 46.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#40

Benzene

Concen: 36.530 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX046042.D

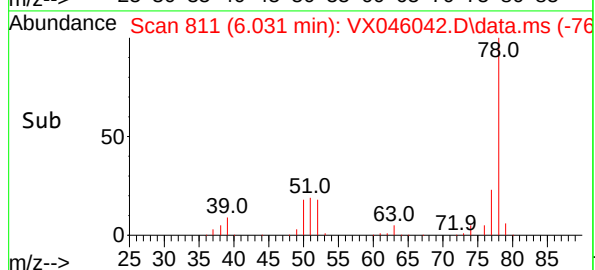
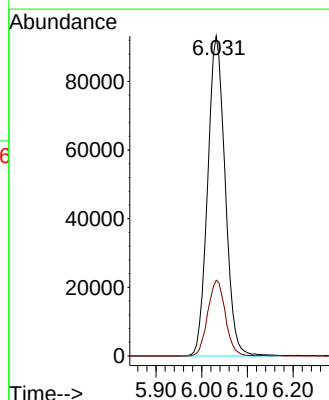
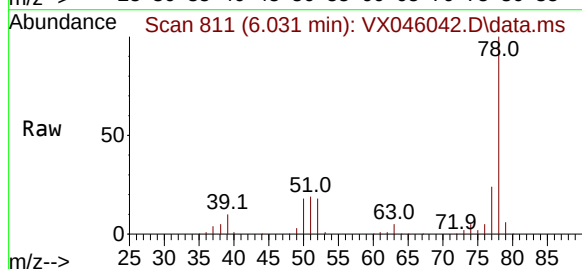
Acq: 05 May 2025 11:58

Tgt Ion: 78 Resp: 247476

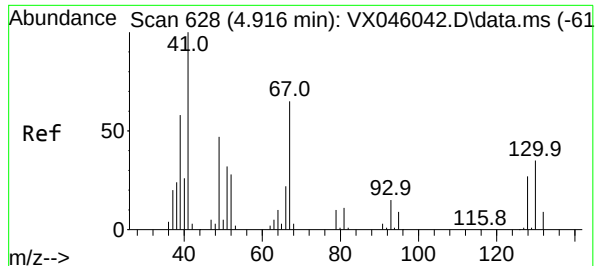
Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.4







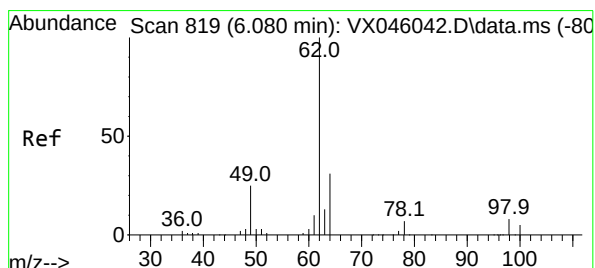
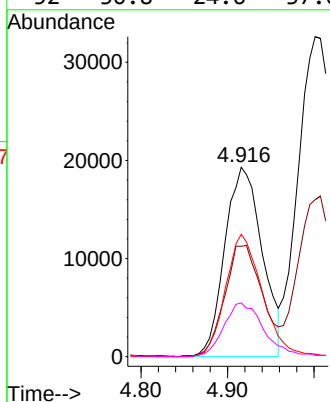
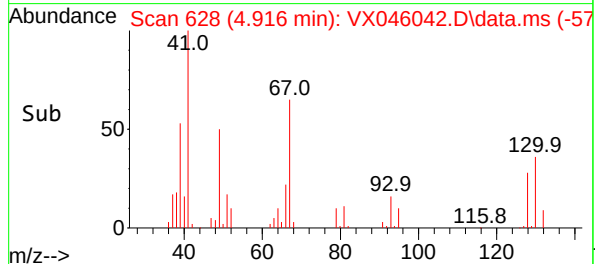
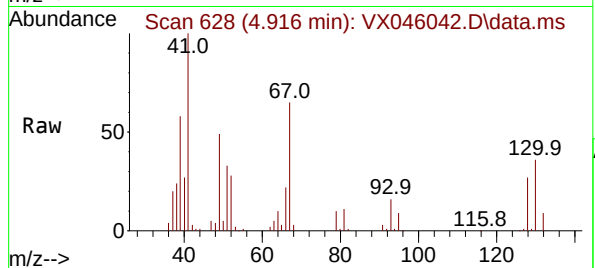
#41  
Methacrylonitrile  
Concen: 38.123 ug/l  
RT: 4.916 min Scan# 612  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 41 Resp: 58082  
Ion Ratio Lower Upper  
41 100  
39 59.0 47.2 70.8  
67 63.4 50.7 76.1  
52 30.8 24.6 37.0

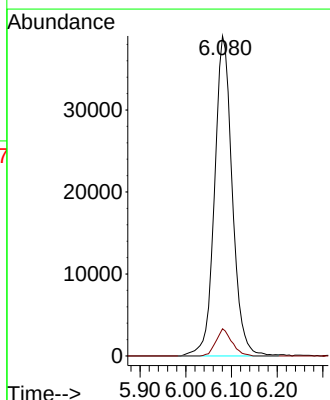
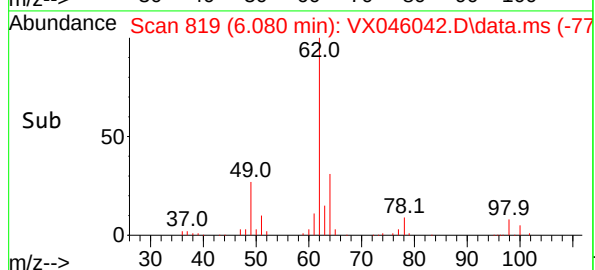
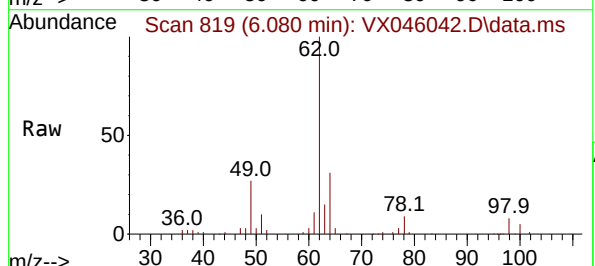
Manual Integrations  
APPROVED

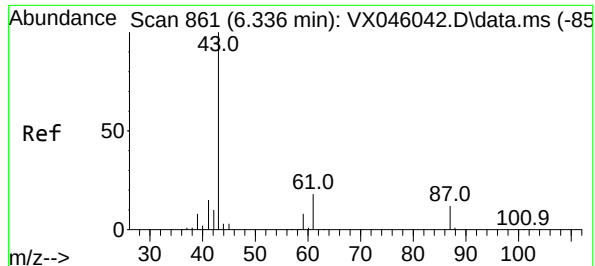
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#42  
1,2-Dichloroethane  
Concen: 37.605 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 105332  
Ion Ratio Lower Upper  
62 100  
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 38.598 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 16178

Ion Ratio Lower Upper

43

100

61

17.9

87

11.9

14.3

9.5

21.5

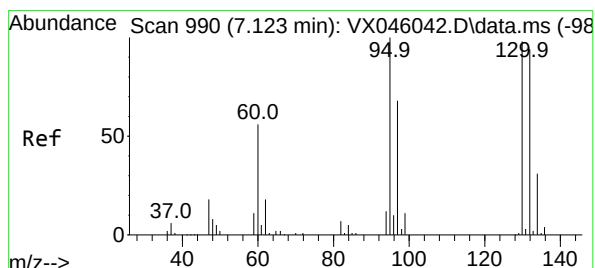
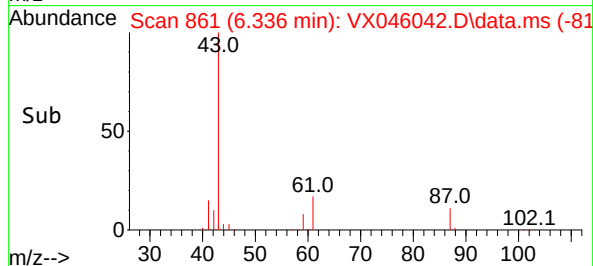
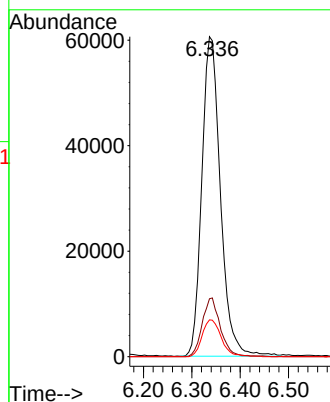
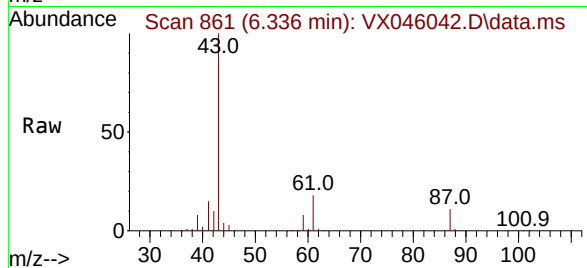
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#44

Trichloroethene

Concen: 37.230 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Tgt Ion:130 Resp: 59623

Ion Ratio Lower Upper

130

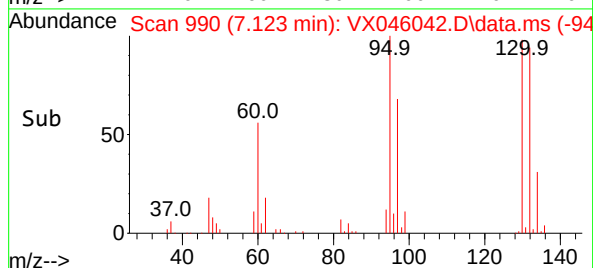
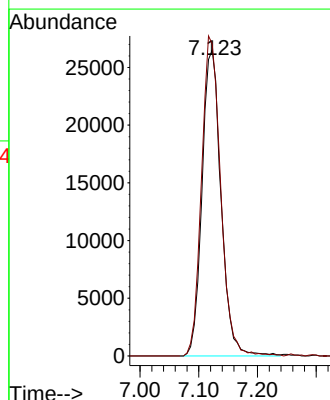
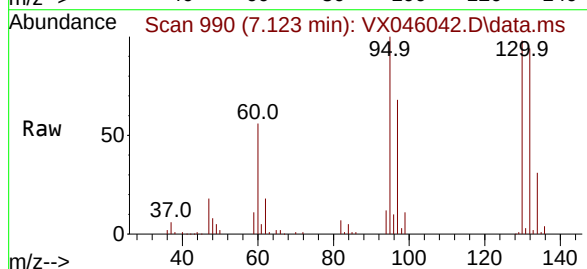
100

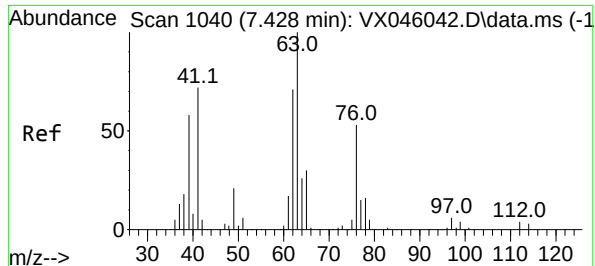
95

102.1

0.0

204.2





#45

1,2-Dichloropropane

Concen: 37.064 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 6238

Ion Ratio Lower Upper

63 100

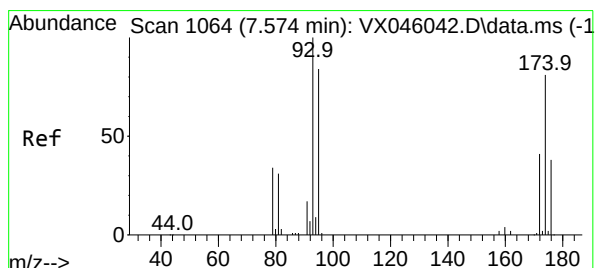
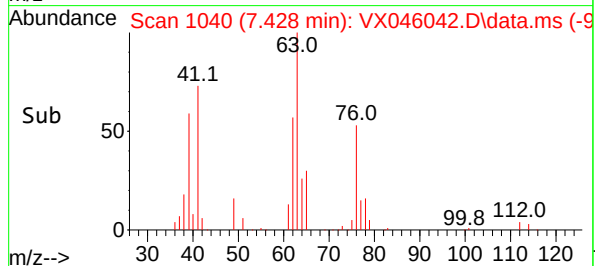
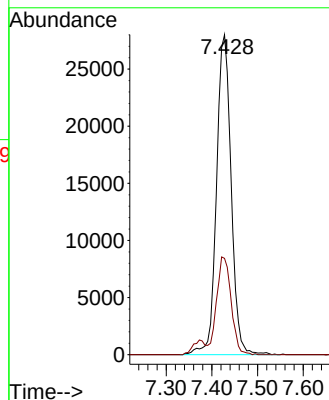
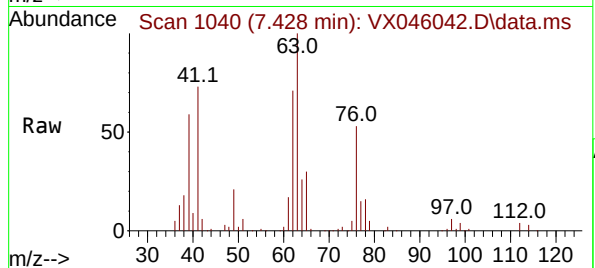
65 30.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#46

Dibromomethane

Concen: 36.326 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

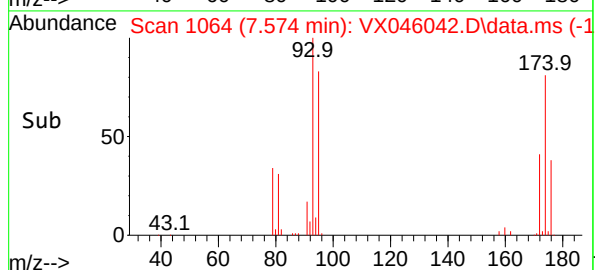
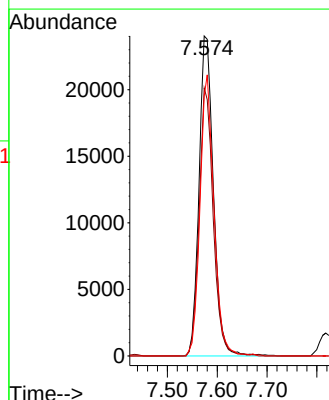
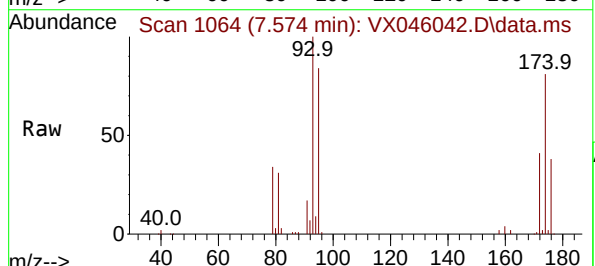
Tgt Ion: 93 Resp: 48201

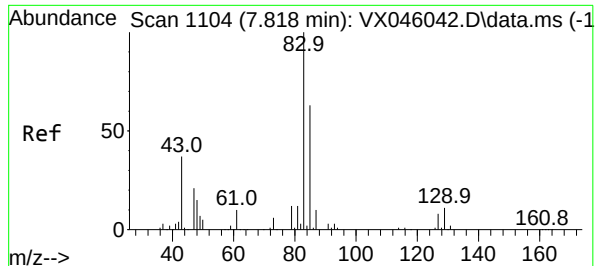
Ion Ratio Lower Upper

93 100

95 82.0 65.6 98.4

174 85.2 68.2 102.2





#47

Bromodichloromethane

Concen: 37.685 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

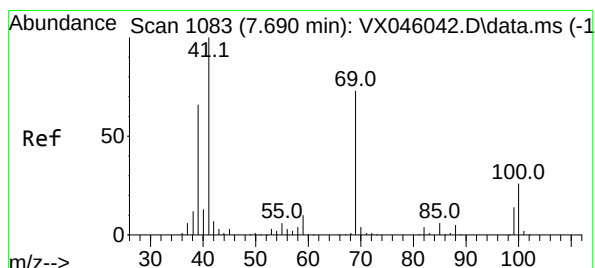
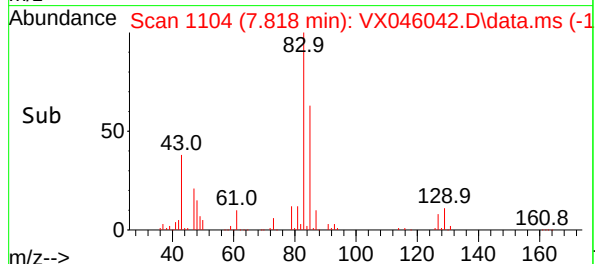
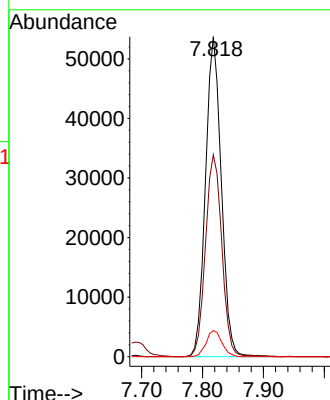
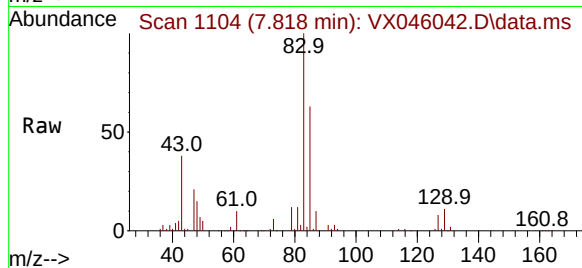
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 96910 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.1  | 50.5  | 75.7  |
| 127      | 8.1   | 6.5   | 9.7   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#48

Methyl methacrylate

Concen: 39.157 ug/l

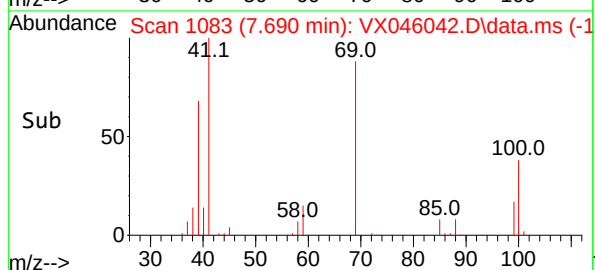
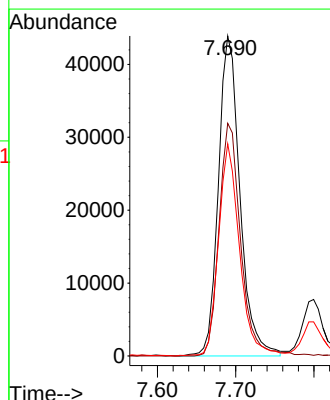
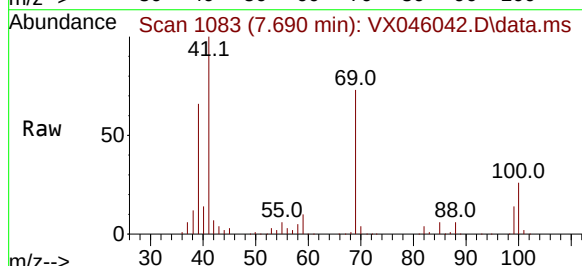
RT: 7.690 min Scan# 1083

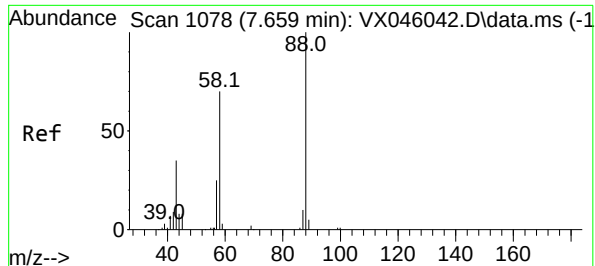
Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 84277 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 73.1  | 58.5  | 87.7  |
| 39       | 64.6  | 51.7  | 77.5  |





#49

1,4-Dioxane

Concen: 713.477 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

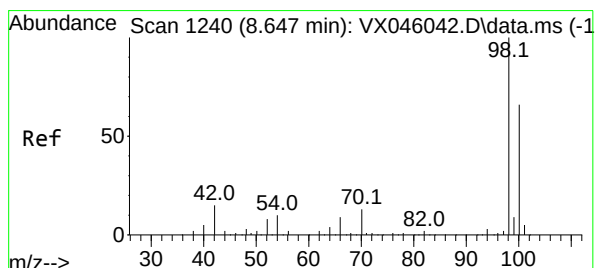
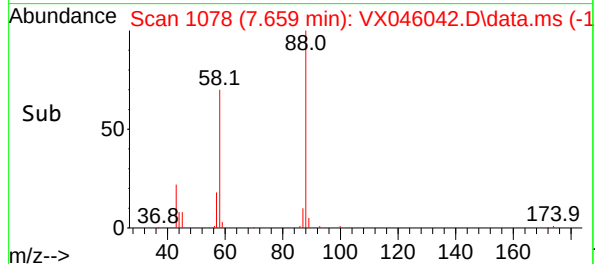
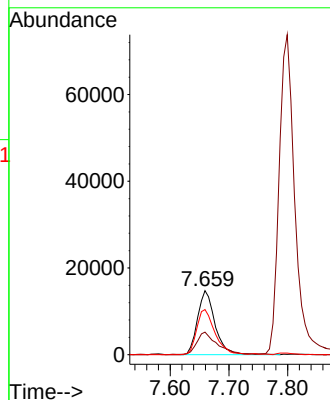
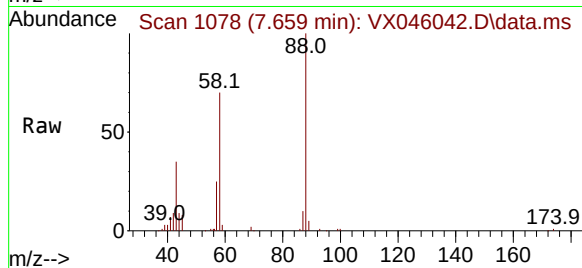
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 30529 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 41.8  | 33.4  | 50.2  |
| 58       | 73.3  | 58.6  | 88.0  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#50

Toluene-d8

Concen: 32.395 ug/l

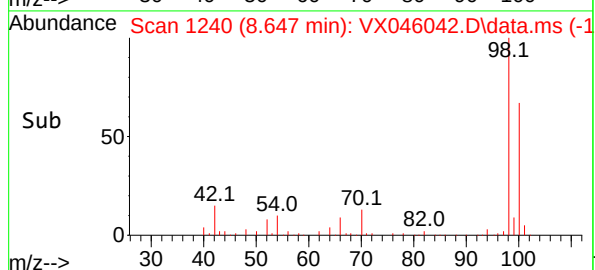
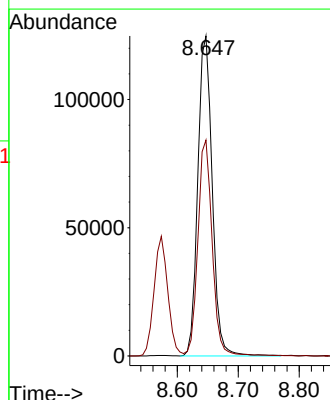
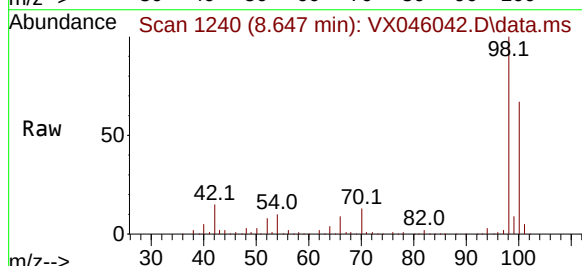
RT: 8.647 min Scan# 1240

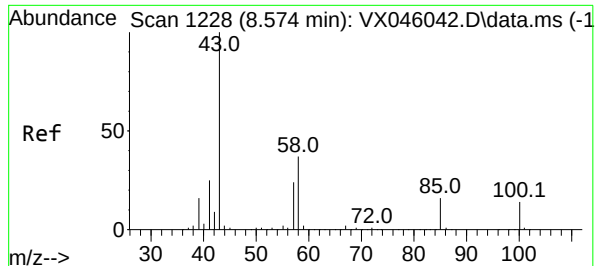
Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 205479 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 66.9  | 53.5  | 80.3   |





#51

4-Methyl-2-Pentanone

Concen: 193.653 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 53238

Ion Ratio Lower Upper

43 100

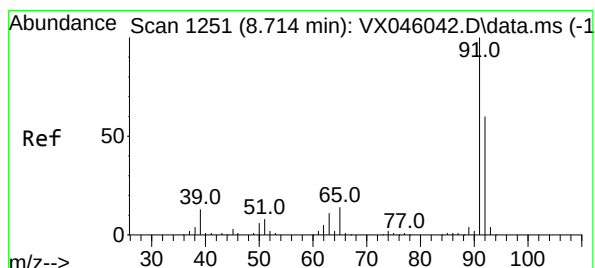
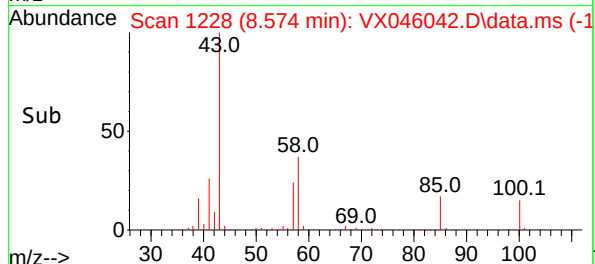
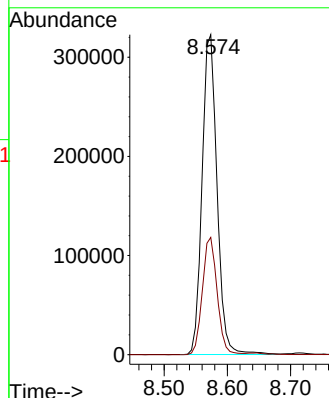
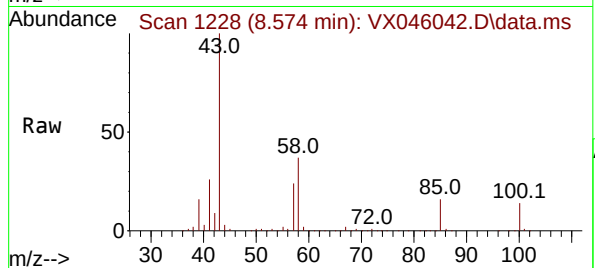
58 36.1 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#52

Toluene

Concen: 37.530 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX046042.D

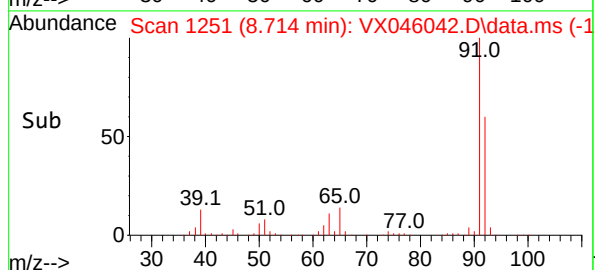
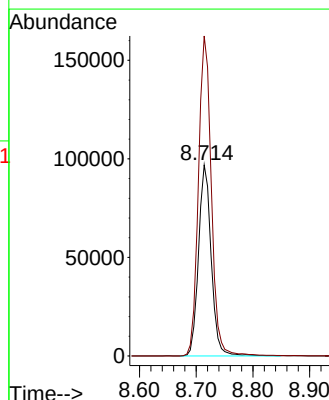
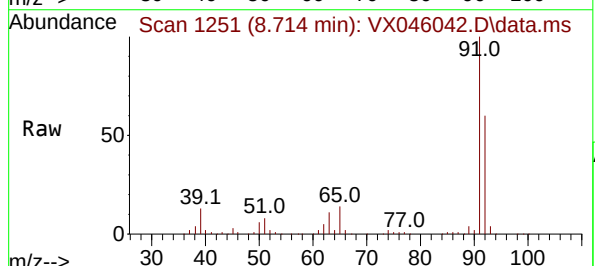
Acq: 05 May 2025 11:58

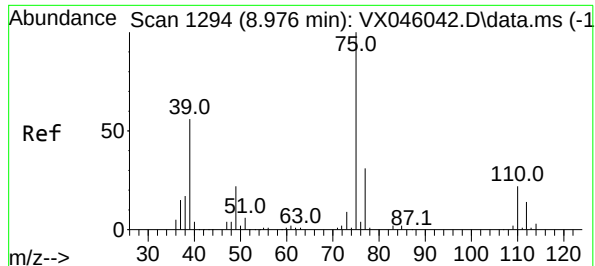
Tgt Ion: 92 Resp: 150757

Ion Ratio Lower Upper

92 100

91 170.8 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 41.056 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 8865

Ion Ratio Lower Upper

75 100

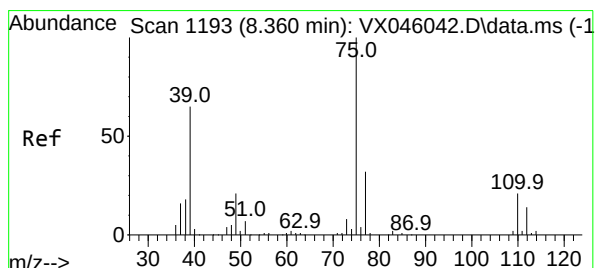
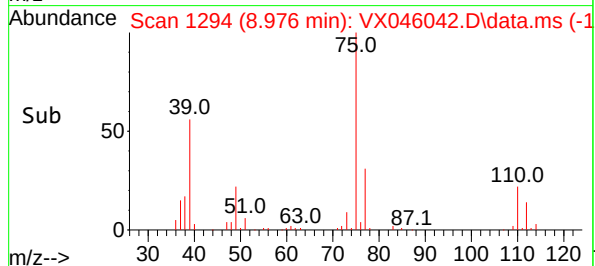
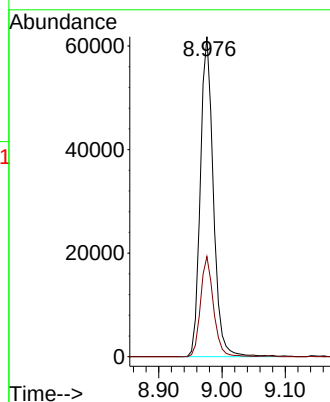
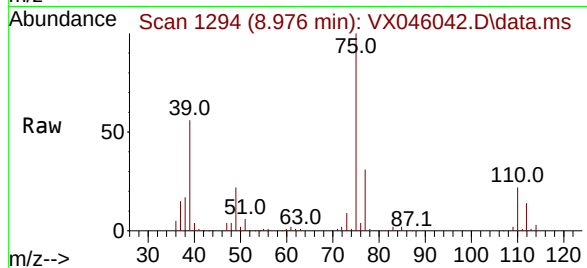
77 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#54

cis-1,3-Dichloropropene

Concen: 38.521 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

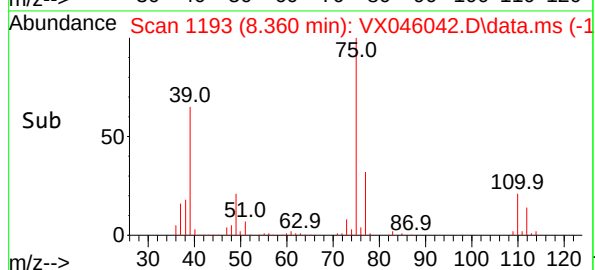
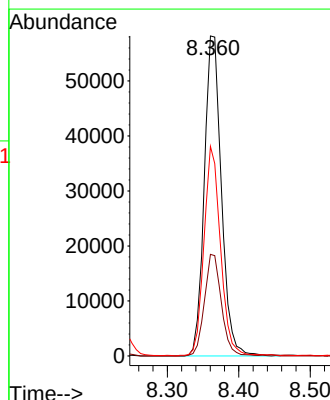
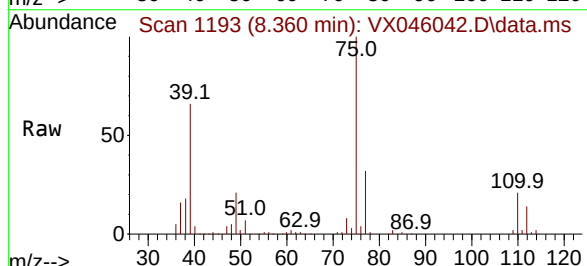
Tgt Ion: 75 Resp: 97031

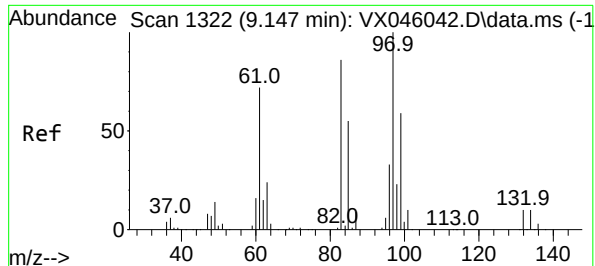
Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0

39 65.3 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 36.648 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 5949

Ion Ratio Lower Upper

97 100

83 86.3 69.0 103.6

85 55.4 44.3 66.5

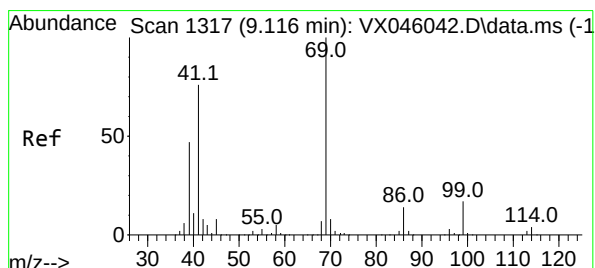
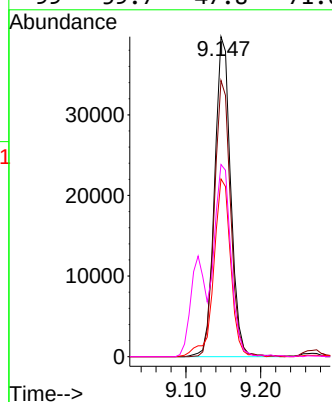
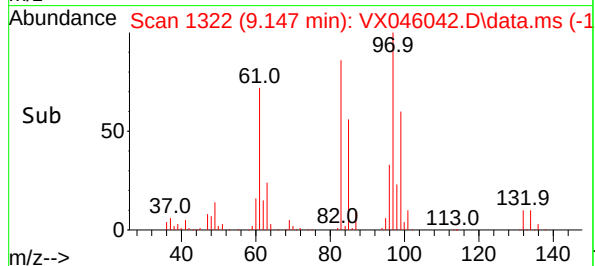
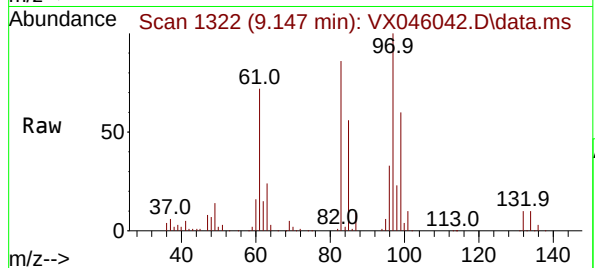
99 59.7 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#56

Ethyl methacrylate

Concen: 39.726 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

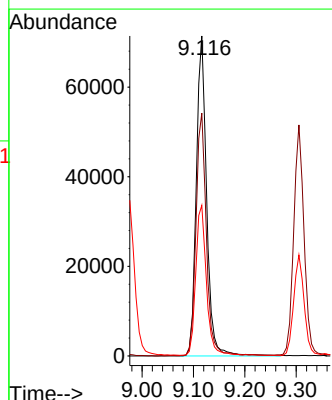
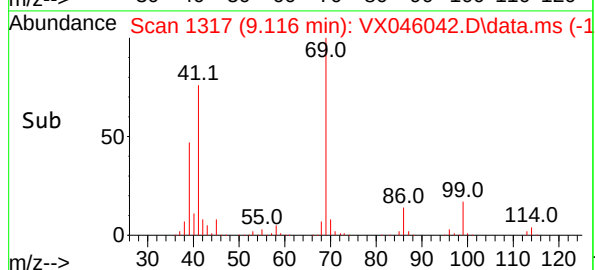
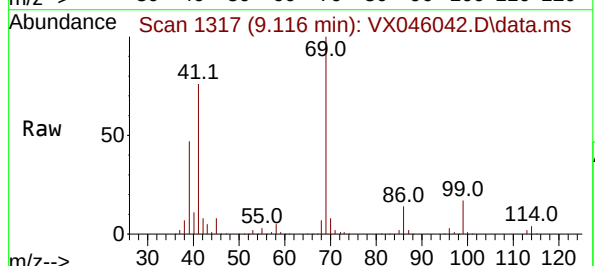
Tgt Ion: 69 Resp: 99947

Ion Ratio Lower Upper

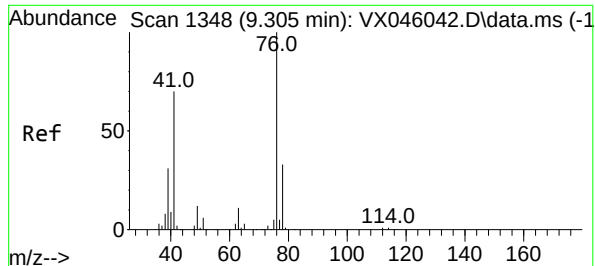
69 100

41 76.0 60.8 91.2

39 48.8 39.0 58.6







#57

1,3-Dichloropropane

Concen: 36.347 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 104600

Ion Ratio Lower Upper

76 100

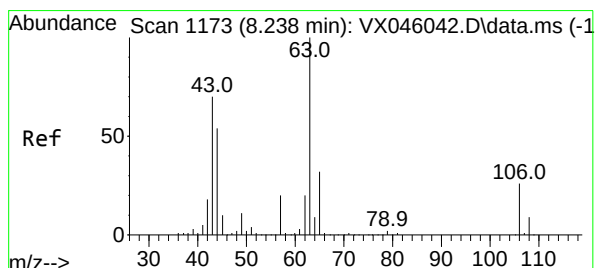
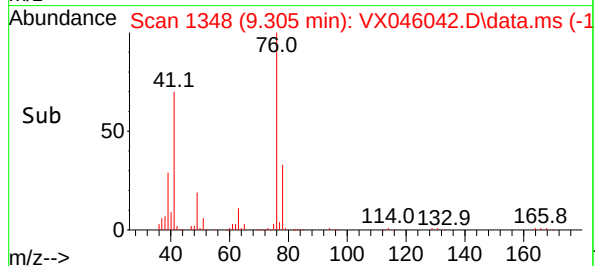
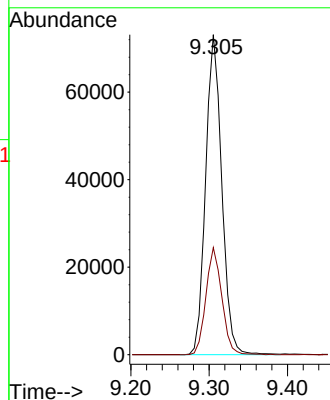
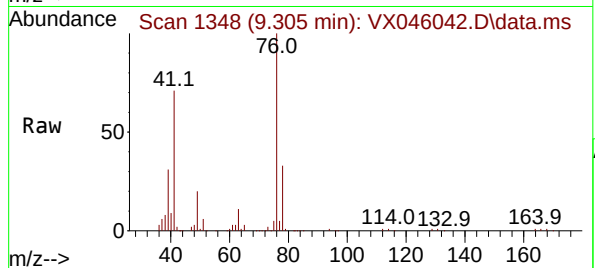
78 32.9 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 227.902 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX046042.D

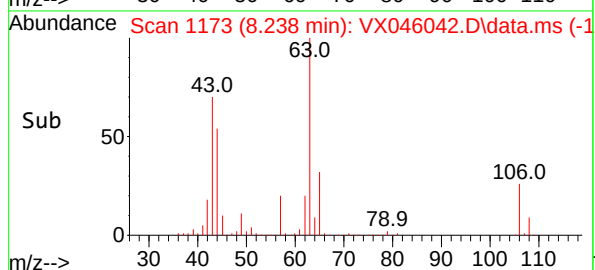
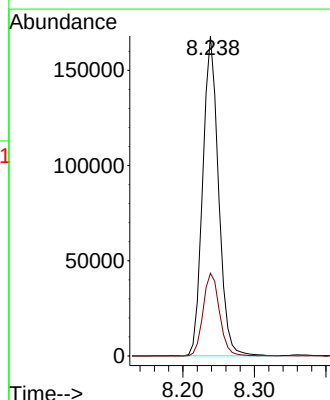
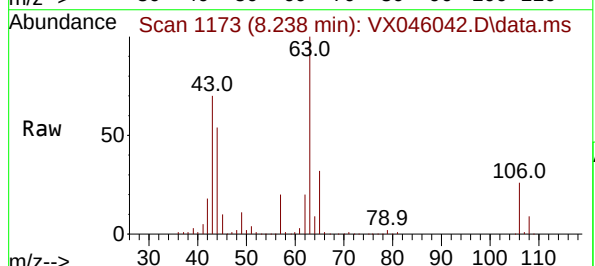
Acq: 05 May 2025 11:58

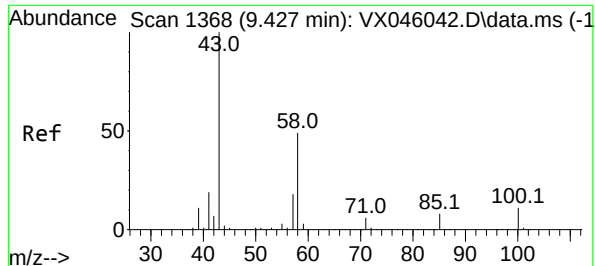
Tgt Ion: 63 Resp: 257678

Ion Ratio Lower Upper

63 100

106 26.9 21.5 32.3





#59

2-Hexanone

Concen: 190.168 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 396784

Ion Ratio Lower Upper

43 100

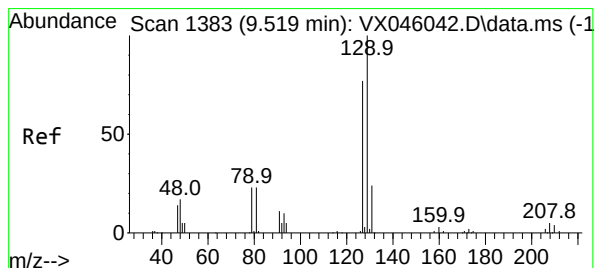
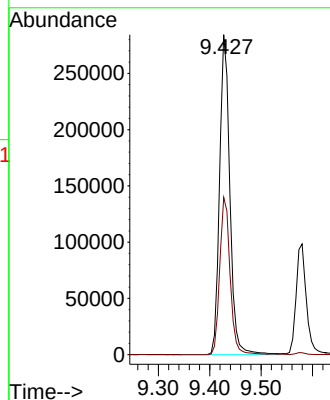
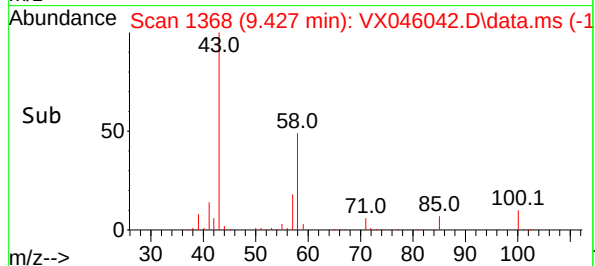
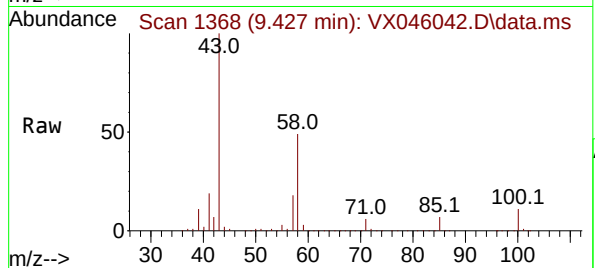
58 49.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#60

Dibromochloromethane

Concen: 38.027 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX046042.D

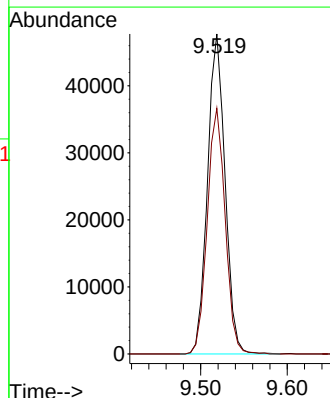
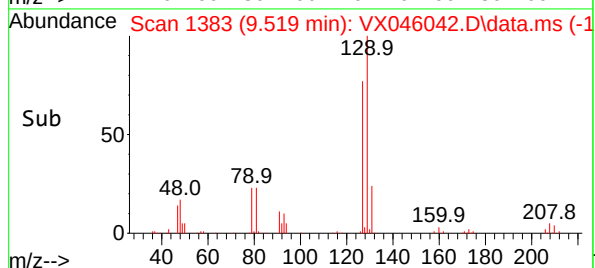
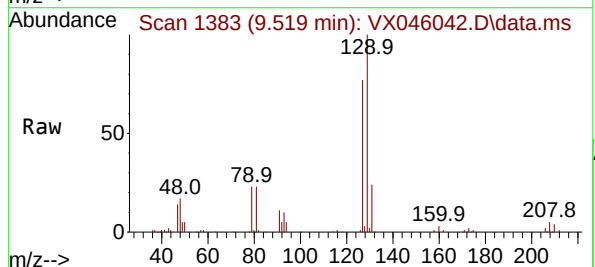
Acq: 05 May 2025 11:58

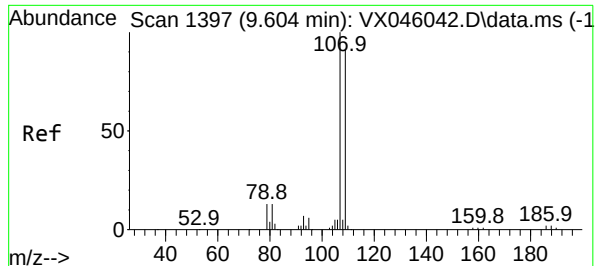
Tgt Ion:129 Resp: 67198

Ion Ratio Lower Upper

129 100

127 78.5 39.3 117.8





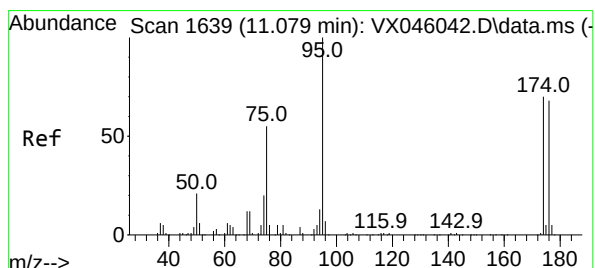
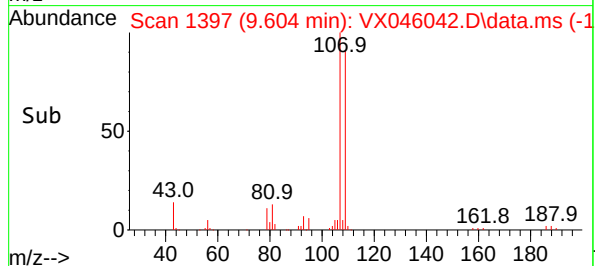
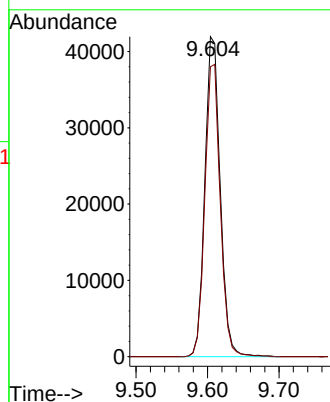
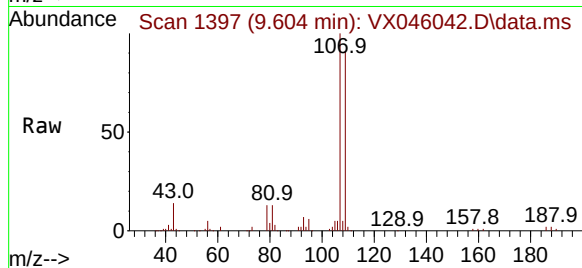
#61  
1,2-Dibromoethane  
Concen: 37.567 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion:107 Resp: 6263  
Ion Ratio Lower Upper  
107 100  
109 91.6 73.3 109.9

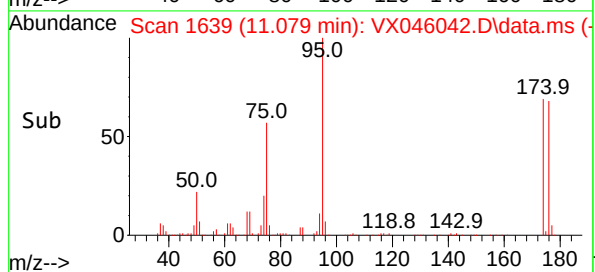
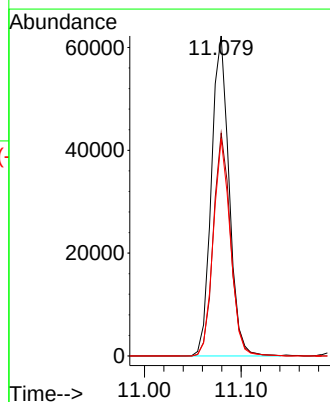
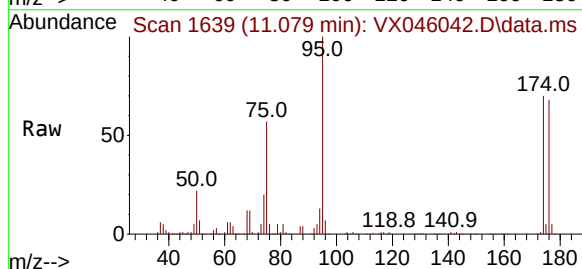
Manual Integrations  
APPROVED

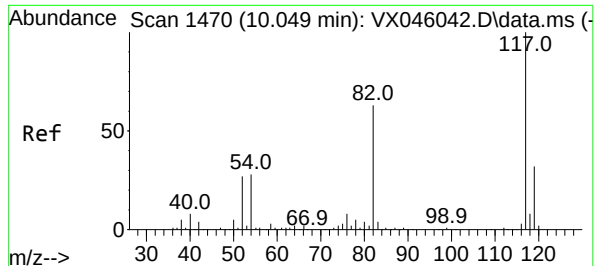
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#62  
4-Bromofluorobenzene  
Concen: 34.229 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

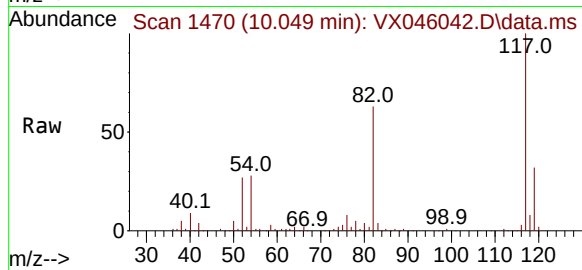
Tgt Ion: 95 Resp: 79012  
Ion Ratio Lower Upper  
95 100  
174 67.9 0.0 135.8  
176 65.7 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

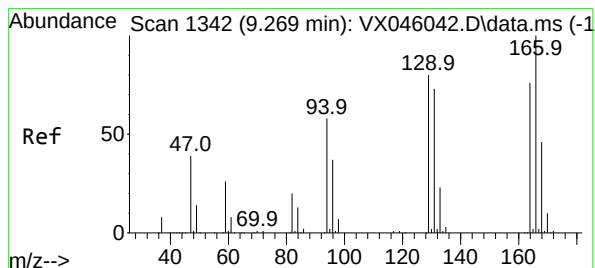
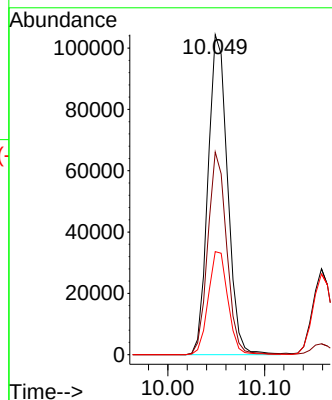
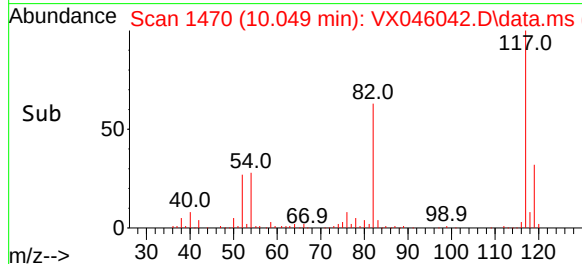
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:117 Resp: 14625  
Ion Ratio Lower Upper  
117 100  
82 63.3 50.6 76.0  
119 32.2 25.8 38.6

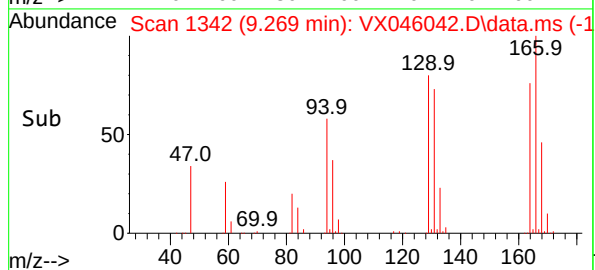
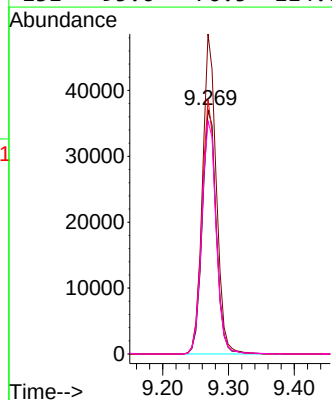
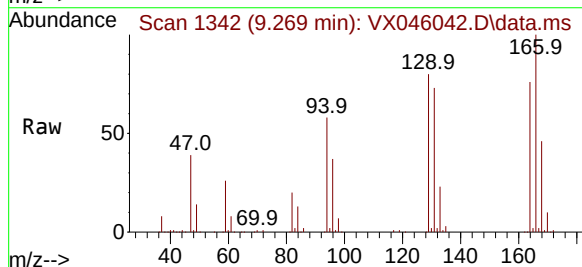
Manual Integrations  
APPROVED

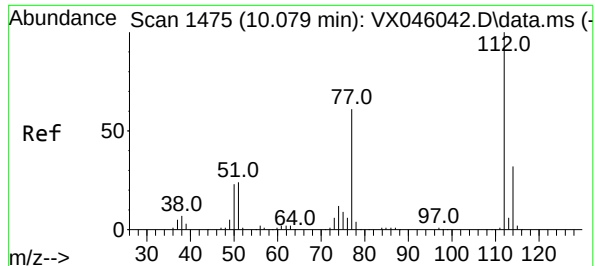
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#64  
Tetrachloroethene  
Concen: 36.726 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion:164 Resp: 54853  
Ion Ratio Lower Upper  
164 100  
166 131.3 105.0 157.6  
129 104.4 83.5 125.3  
131 95.6 76.5 114.7





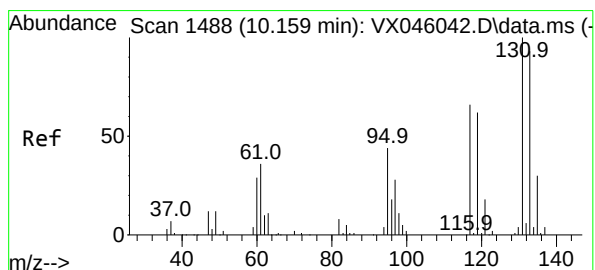
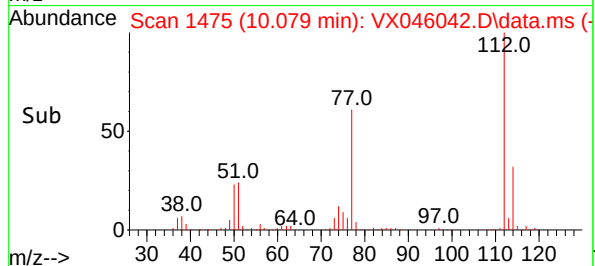
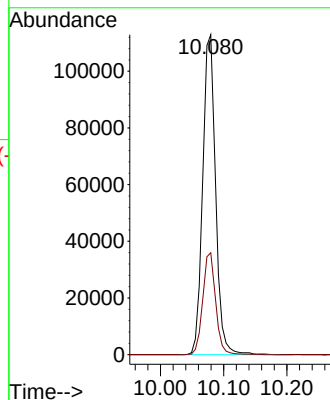
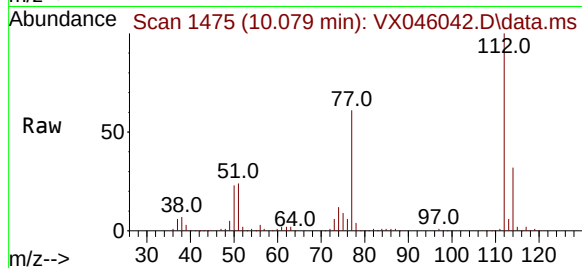
#65  
Chlorobenzene  
Concen: 35.686 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion:112 Resp: 160600  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.4 38.2

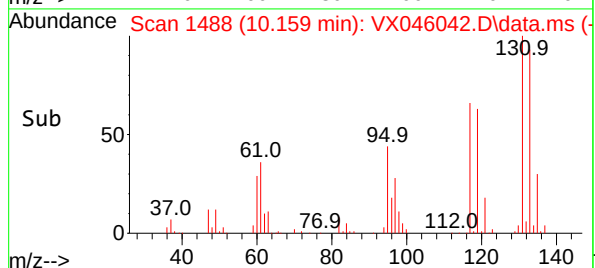
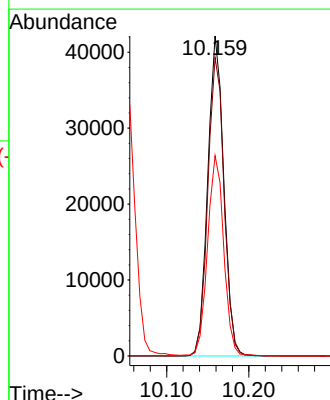
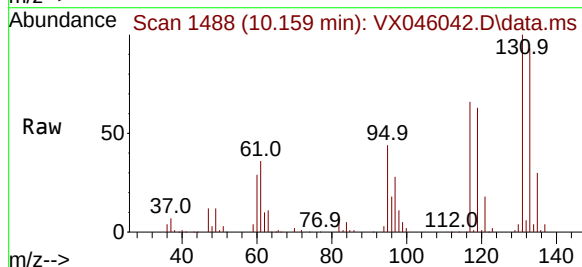
Manual Integrations  
**APPROVED**

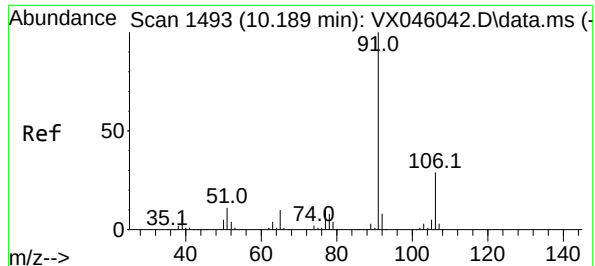
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 38.017 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

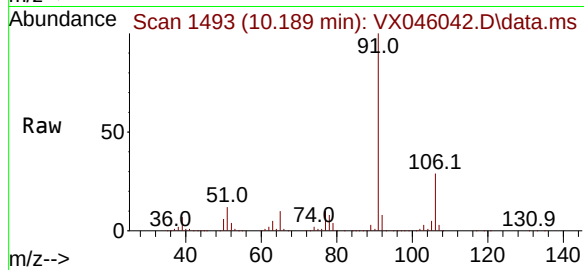
Tgt Ion:131 Resp: 57066  
Ion Ratio Lower Upper  
131 100  
133 94.6 47.3 141.9  
119 63.3 31.6 95.0





#67  
Ethyl Benzene  
Concen: 38.543 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

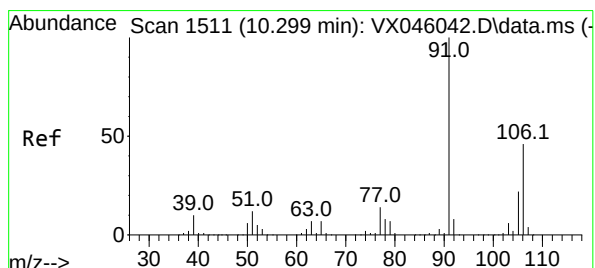
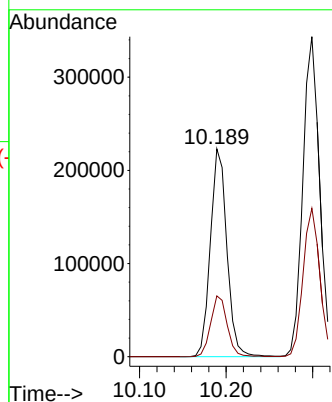
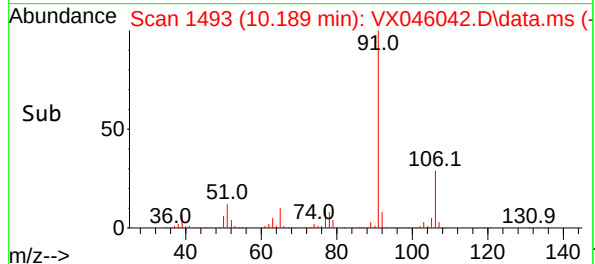
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 91 Resp: 295712  
Ion Ratio Lower Upper  
91 100  
106 29.3 23.4 35.2

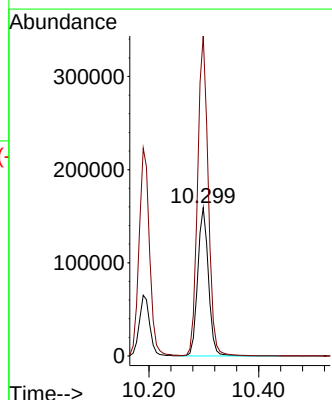
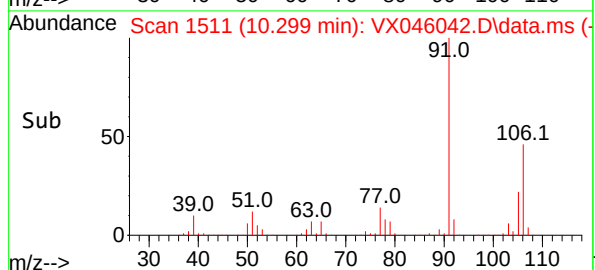
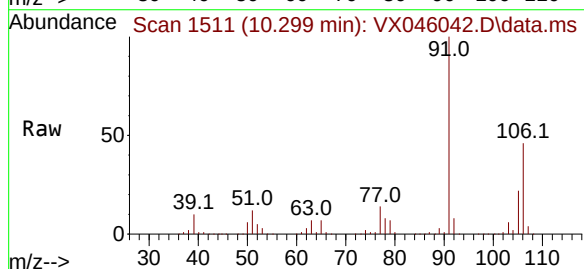
Manual Integrations  
APPROVED

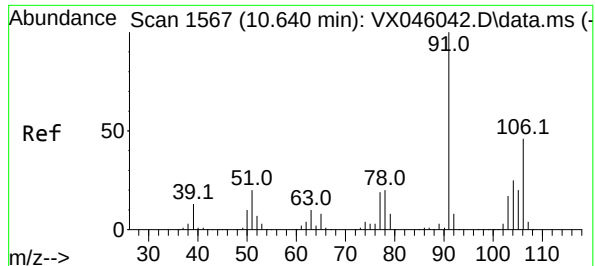
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#68  
m/p-Xylenes  
Concen: 78.142 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion:106 Resp: 216578  
Ion Ratio Lower Upper  
106 100  
91 214.0 171.2 256.8





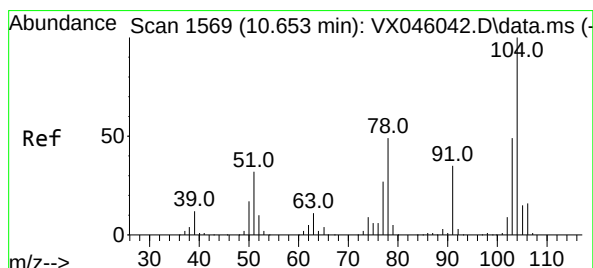
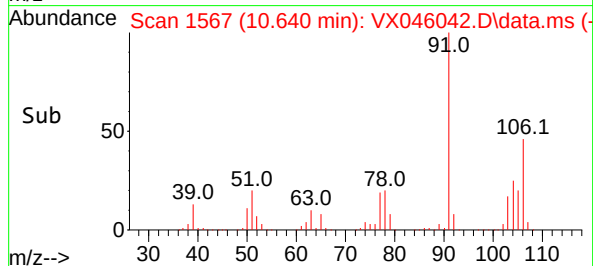
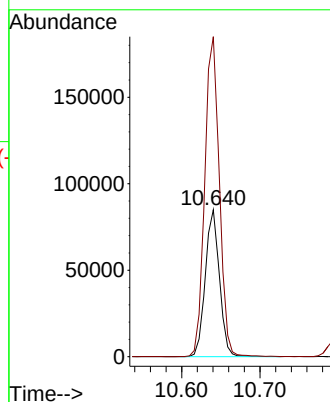
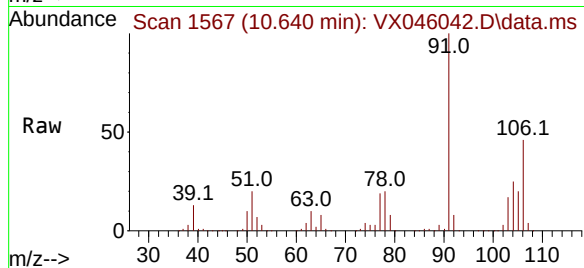
#69  
o-Xylene  
Concen: 38.064 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion:106 Resp: 106333  
Ion Ratio Lower Upper  
106 100  
91 225.4 112.7 338.1

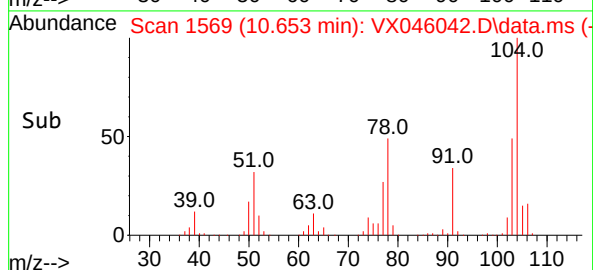
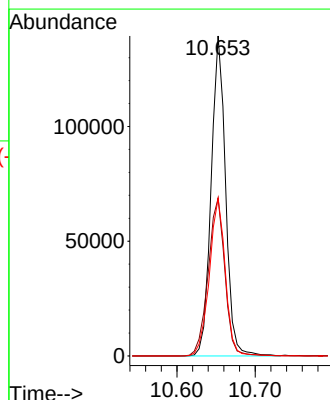
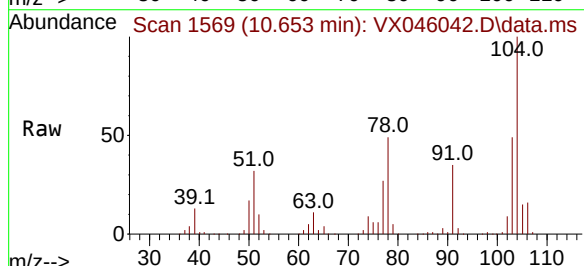
Manual Integrations  
APPROVED

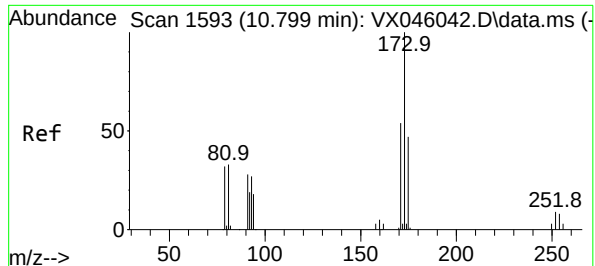
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#70  
Styrene  
Concen: 39.888 ug/l  
RT: 10.653 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

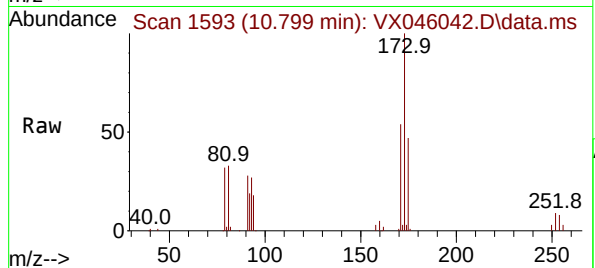
Tgt Ion:104 Resp: 178313  
Ion Ratio Lower Upper  
104 100  
78 57.1 45.7 68.5  
103 54.6 43.7 65.5





#71  
Bromoform  
Concen: 39.457 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

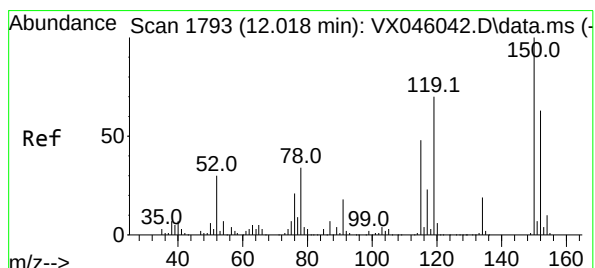
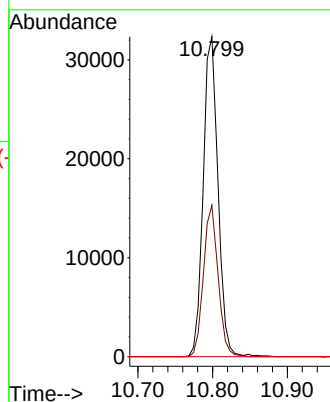
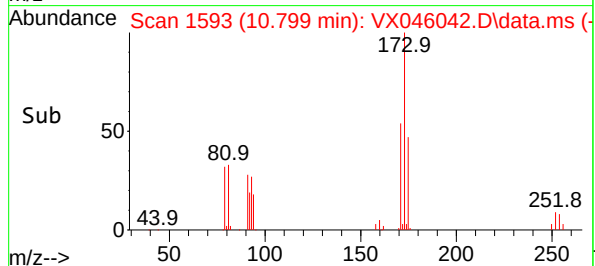
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:173 Resp: 44480  
Ion Ratio Lower Upper  
173 100  
175 46.7 23.4 70.0  
254 0.0 0.0 0.0

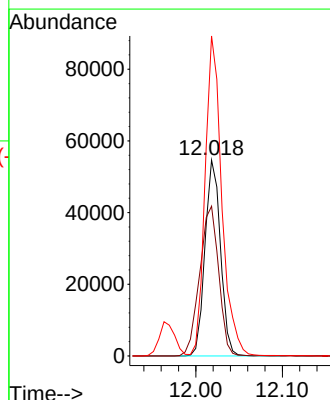
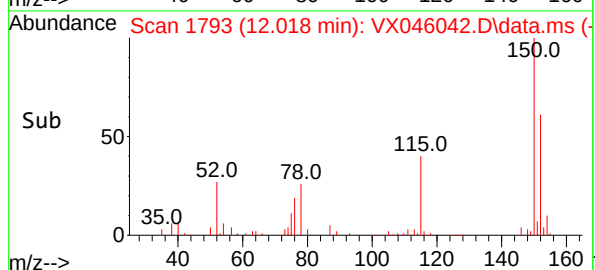
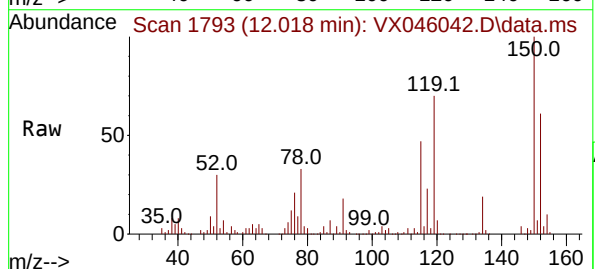
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

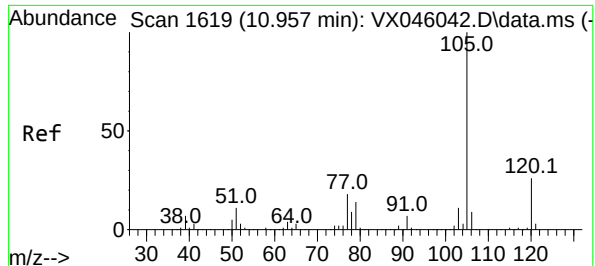


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion:152 Resp: 67976  
Ion Ratio Lower Upper  
152 100  
115 93.8 46.9 140.7  
150 175.5 0.0 351.0







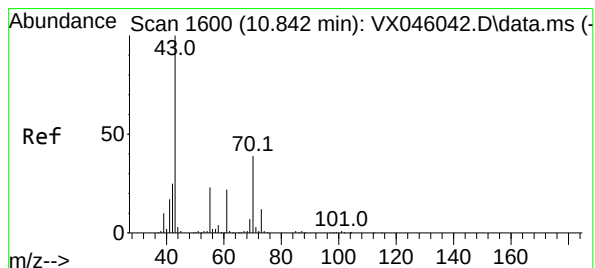
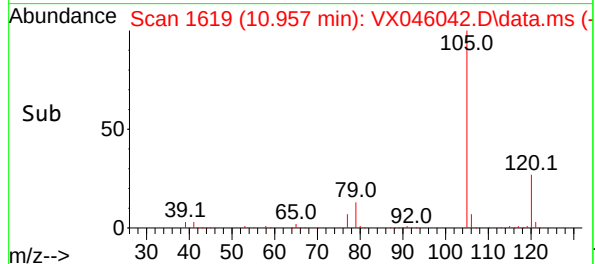
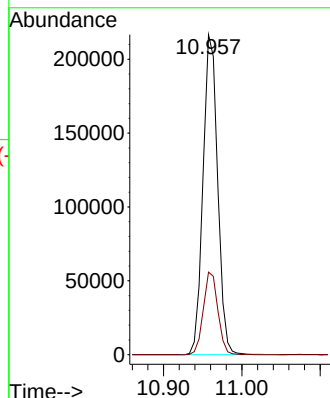
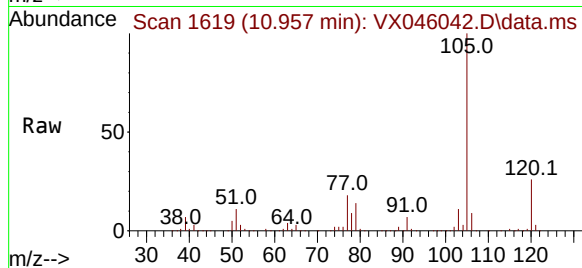
#73  
Isopropylbenzene  
Concen: 37.865 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion:105 Resp: 280719  
Ion Ratio Lower Upper  
105 100  
120 25.6 12.8 38.4

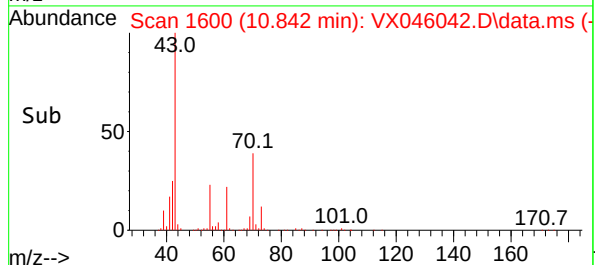
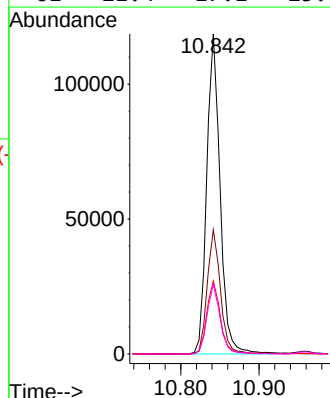
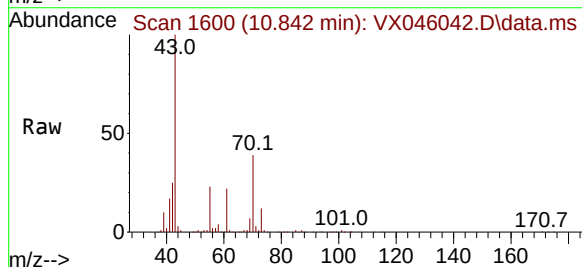
Manual Integrations  
APPROVED

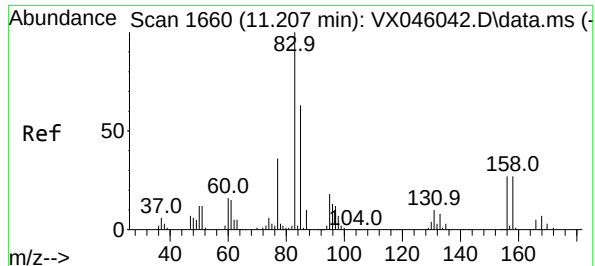
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#74  
N-ethyl acetate  
Concen: 38.012 ug/l  
RT: 10.842 min Scan# 1600  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 140509  
Ion Ratio Lower Upper  
43 100  
70 38.6 30.9 46.3  
55 23.4 18.7 28.1  
61 21.4 17.1 25.7





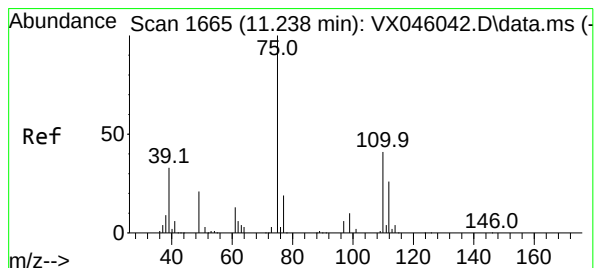
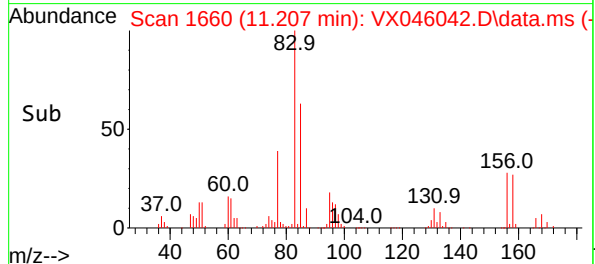
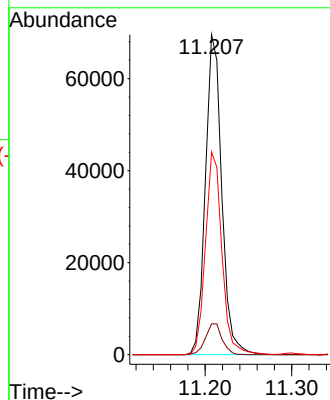
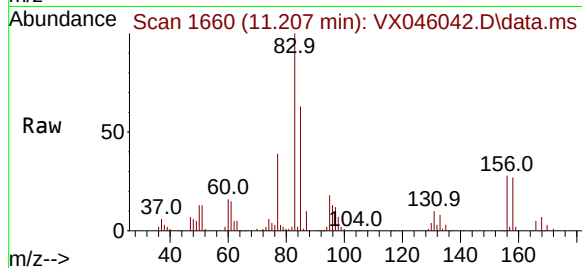
#75  
1,1,2,2-Tetrachloroethane  
Concen: 34.495 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 83 Resp: 90975  
Ion Ratio Lower Upper  
83 100  
131 9.9 5.0 14.9  
85 63.8 31.9 95.7

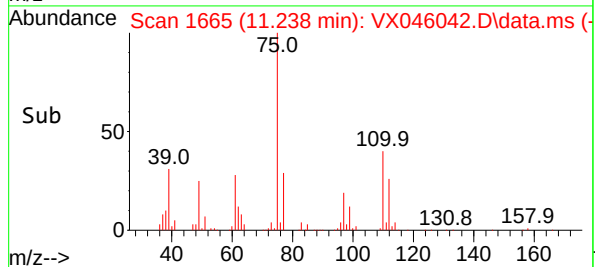
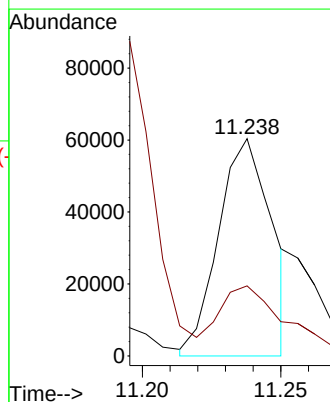
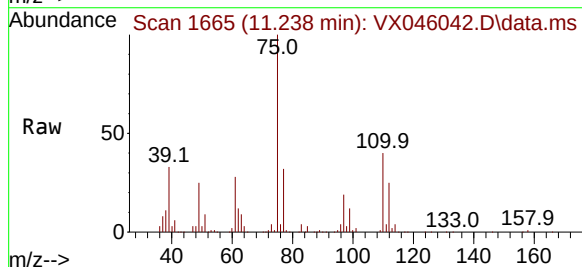
Manual Integrations  
APPROVED

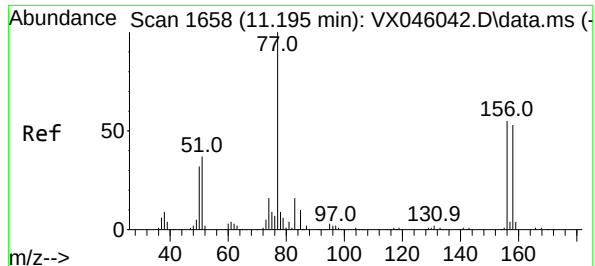
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#76  
1,2,3-Trichloropropane  
Concen: 28.468 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

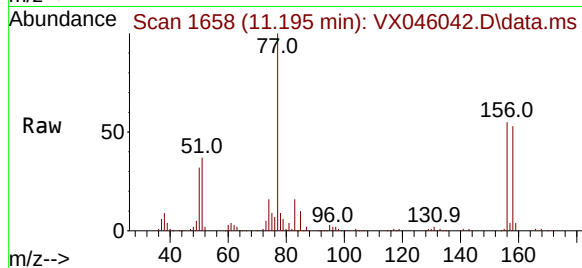
Tgt Ion: 75 Resp: 80678  
Ion Ratio Lower Upper  
75 100  
77 41.0 20.5 61.5





#77  
Bromobenzene  
Concen: 36.763 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

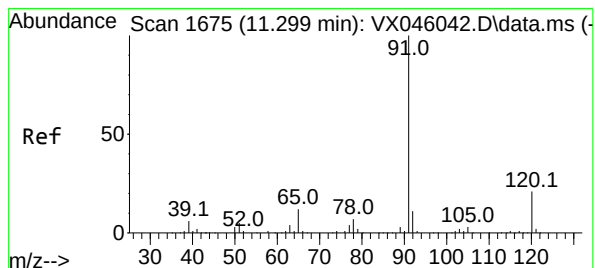
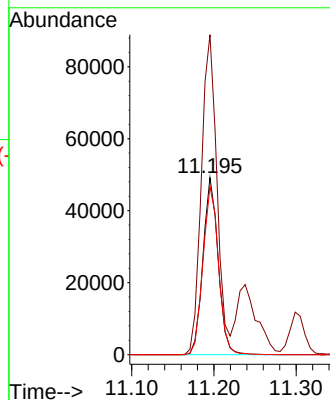
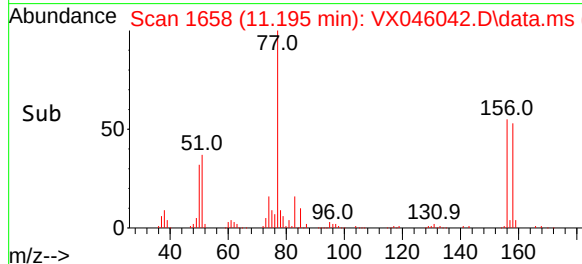
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:156 Resp: 6305  
Ion Ratio Lower Upper  
156 100  
77 185.5 92.8 278.3  
158 97.5 48.8 146.3

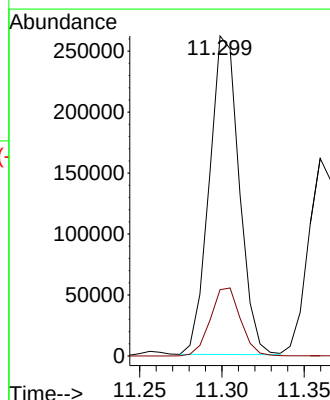
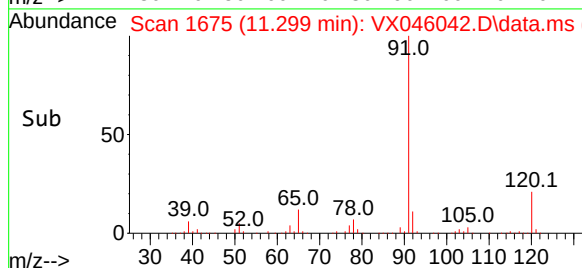
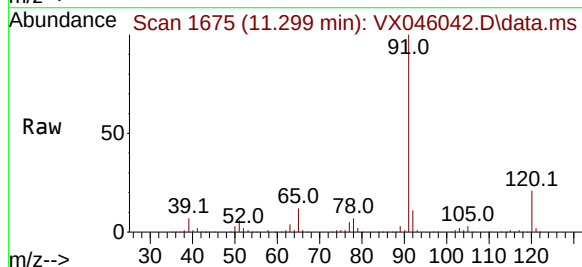
Manual Integrations  
APPROVED

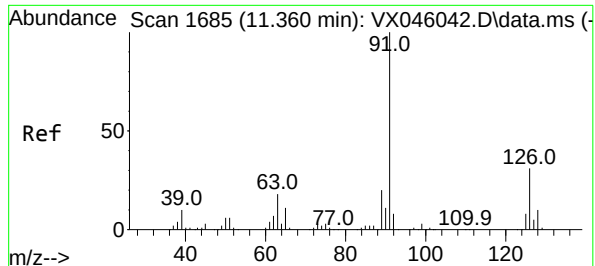
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#78  
n-propylbenzene  
Concen: 39.707 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 329981  
Ion Ratio Lower Upper  
91 100  
120 21.6 10.8 32.4





#79

2-Chlorotoluene

Concen: 36.336 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 203509

Ion Ratio Lower Upper

91 100

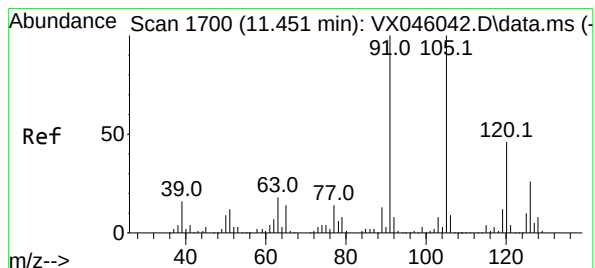
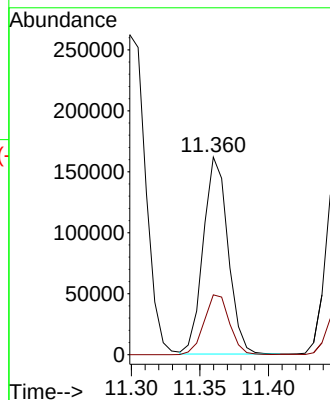
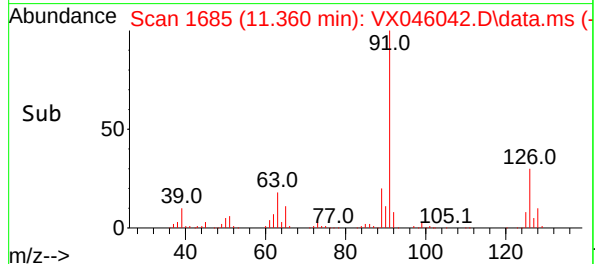
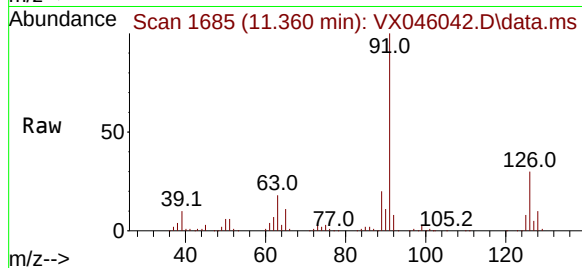
126 31.1 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#80

1,3,5-Trimethylbenzene

Concen: 38.516 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046042.D

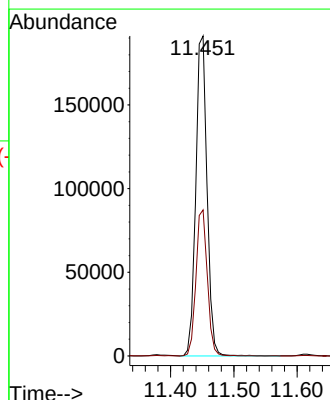
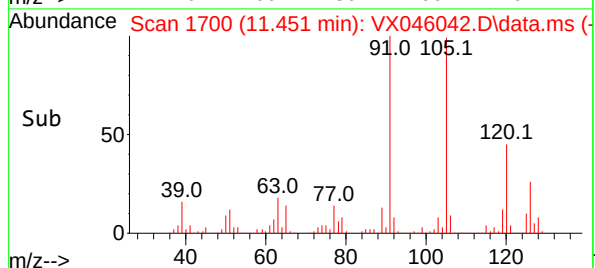
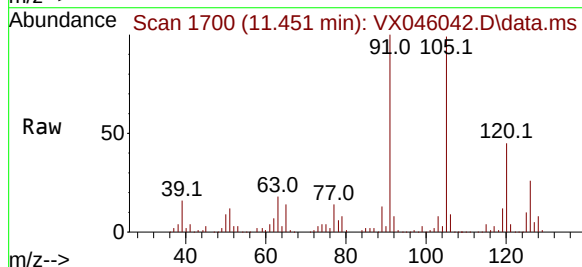
Acq: 05 May 2025 11:58

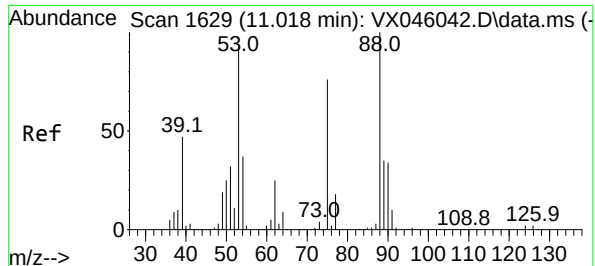
Tgt Ion:105 Resp: 237066

Ion Ratio Lower Upper

105 100

120 46.1 23.1 69.2





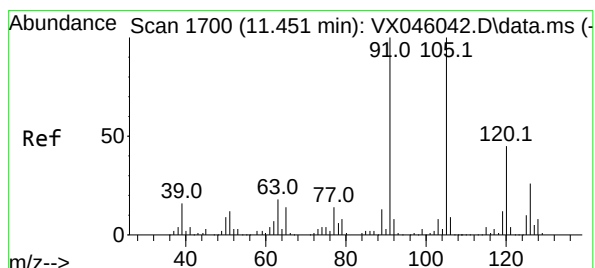
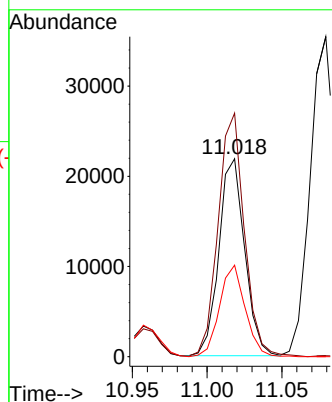
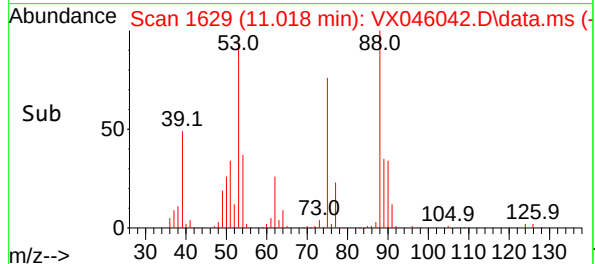
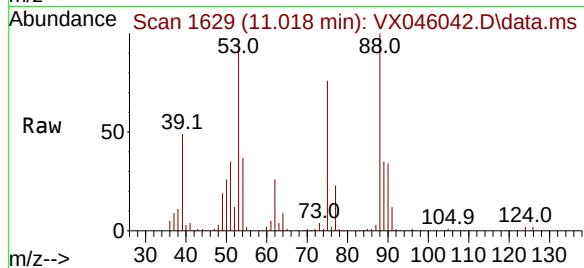
#81  
trans-1,4-Dichloro-2-butene  
Concen: 38.445 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 75 Resp: 26179  
Ion Ratio Lower Upper  
75 100  
53 125.6 100.5 150.7  
89 46.3 37.0 55.6

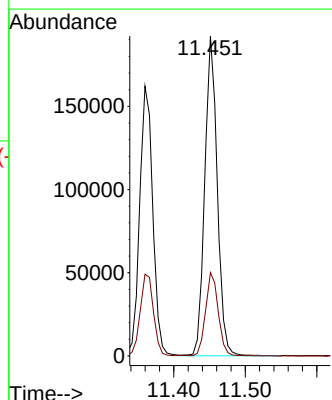
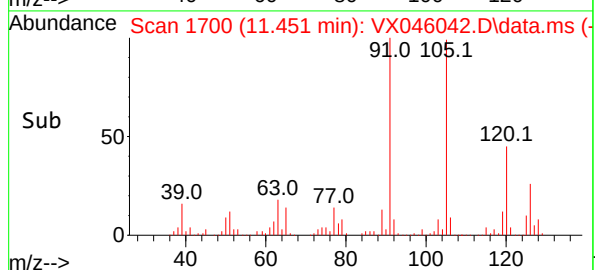
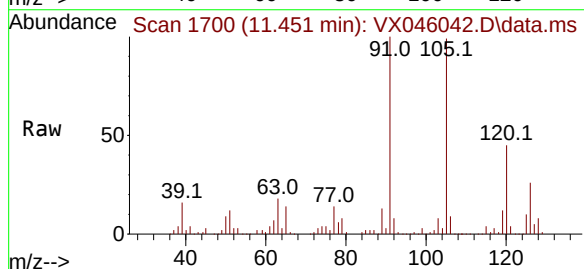
Manual Integrations  
APPROVED

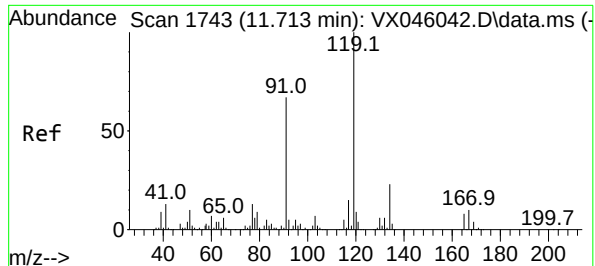
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#82  
4-Chlorotoluene  
Concen: 37.880 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

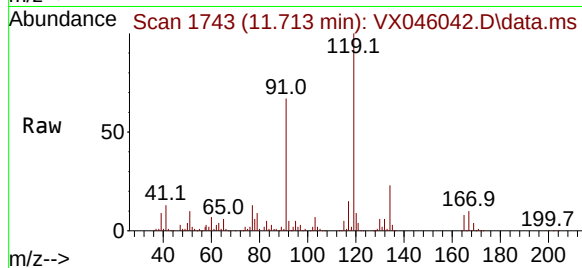
Tgt Ion: 91 Resp: 233172  
Ion Ratio Lower Upper  
91 100  
126 26.5 13.3 39.8





#83  
tert-Butylbenzene  
Concen: 38.622 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

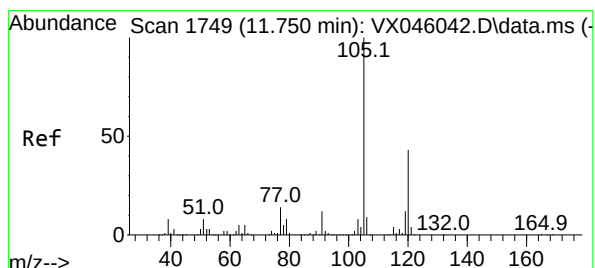
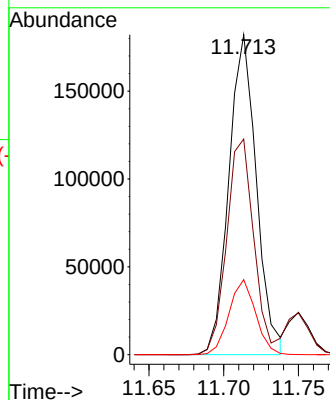
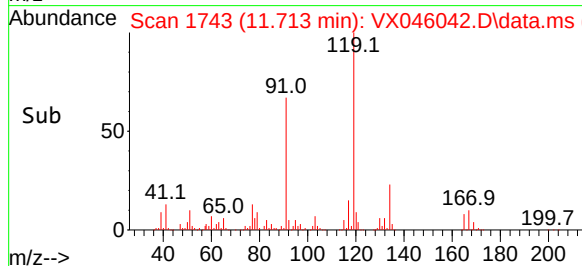
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:119 Resp: 233468  
Ion Ratio Lower Upper  
119 100  
91 65.8 32.9 98.7  
134 22.7 11.4 34.1

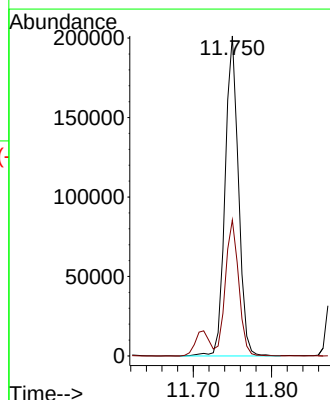
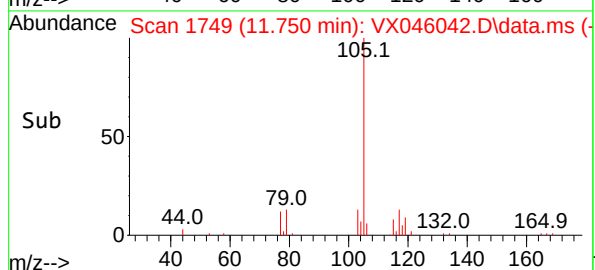
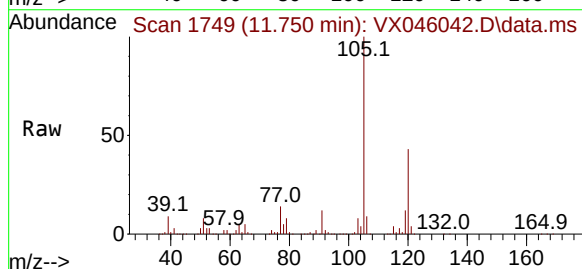
Manual Integrations  
APPROVED

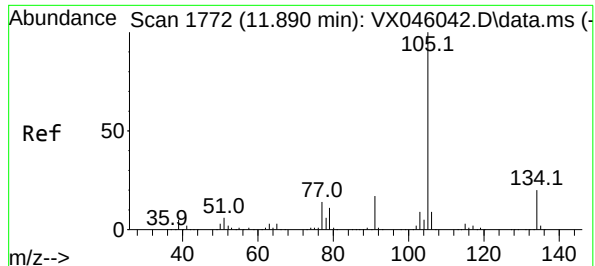
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 38.946 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 239433  
Ion Ratio Lower Upper  
105 100  
120 42.4 21.2 63.6





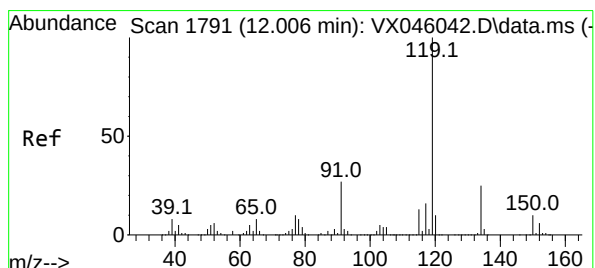
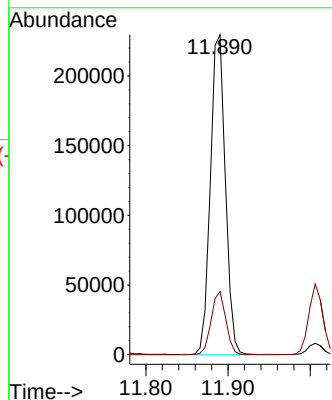
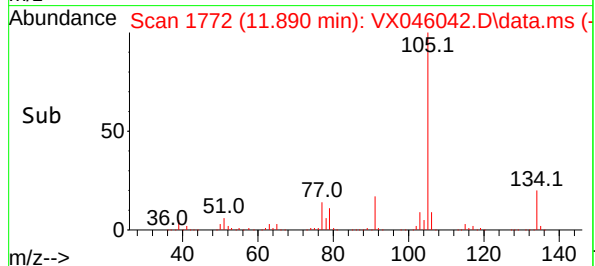
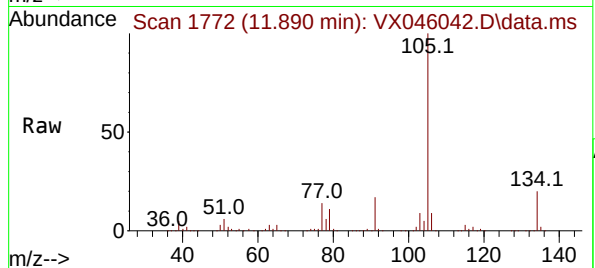
#85  
sec-Butylbenzene  
Concen: 38.786 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050

Tgt Ion:105 Resp: 291074  
Ion Ratio Lower Upper  
105 100  
134 19.4 9.7 29.1

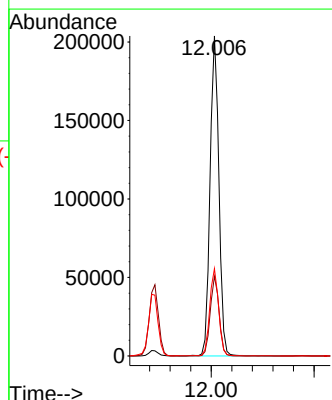
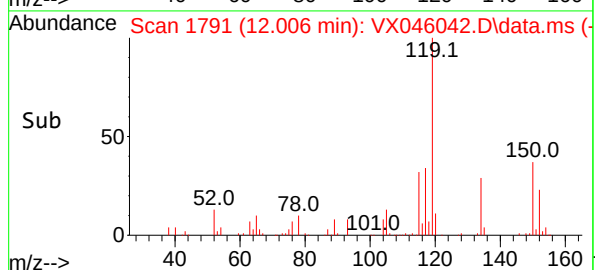
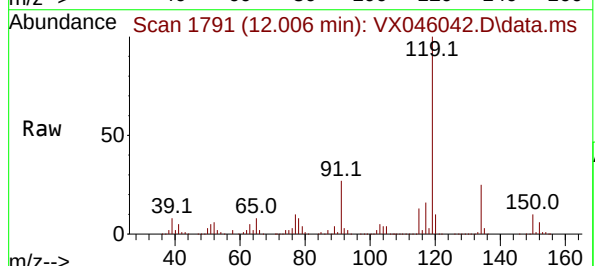
Manual Integrations  
APPROVED

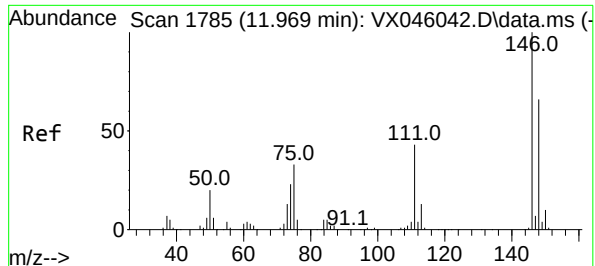
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#86  
p-Isopropyltoluene  
Concen: 39.879 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion:119 Resp: 241658  
Ion Ratio Lower Upper  
119 100  
134 25.0 12.5 37.5  
91 27.6 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 36.199 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 11565

Ion Ratio Lower Upper

146 100

111 44.2 22.1 66.3

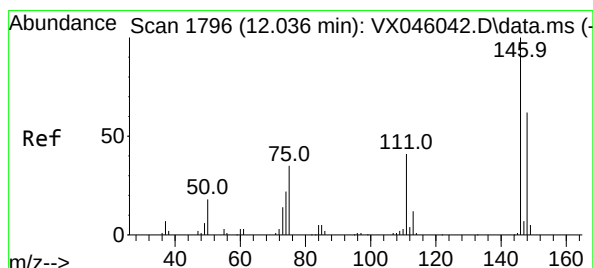
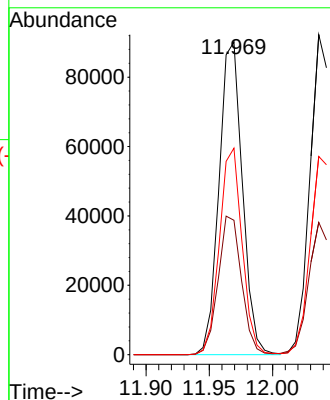
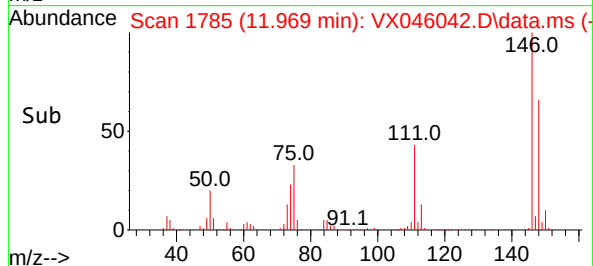
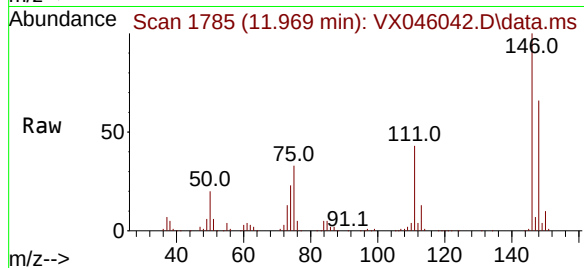
148 64.3 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#88

1,4-Dichlorobenzene

Concen: 36.763 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

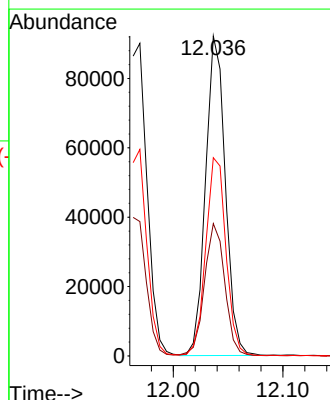
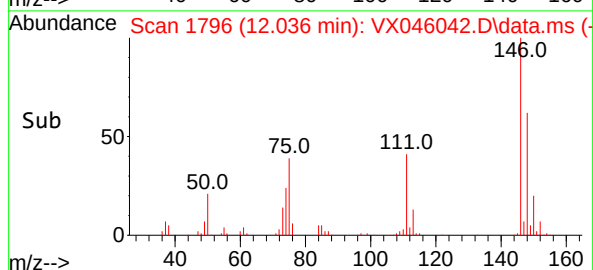
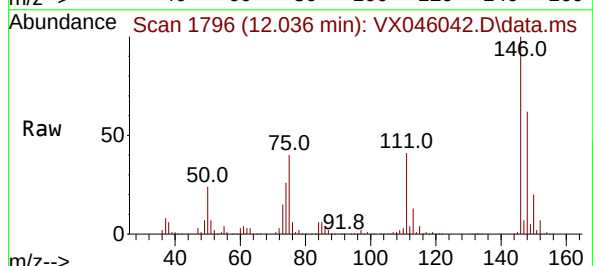
Tgt Ion:146 Resp: 115097

Ion Ratio Lower Upper

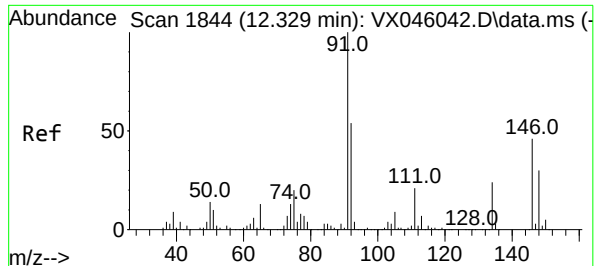
146 100

111 42.6 21.3 63.9

148 63.7 31.9 95.5







#89

n-Butylbenzene

Concen: 40.603 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 21389

Ion Ratio Lower Upper

91 100

92 53.8 26.9 80.7

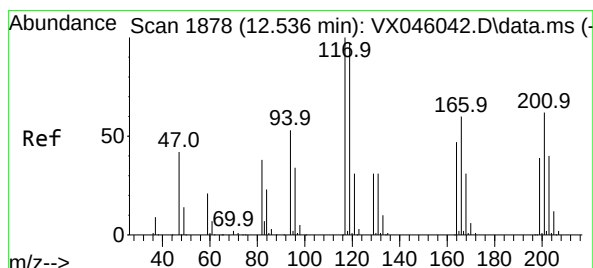
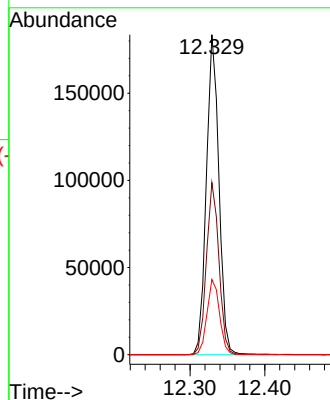
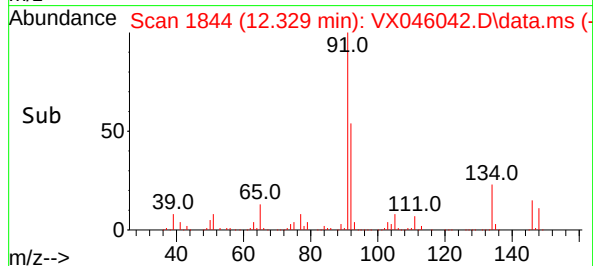
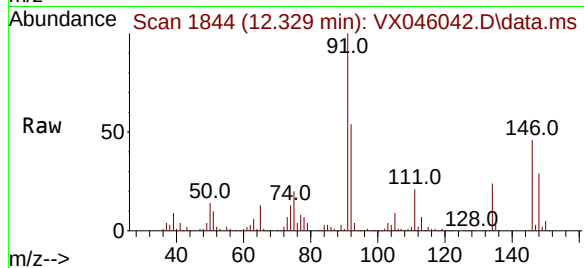
134 23.5 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 37.534 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046042.D

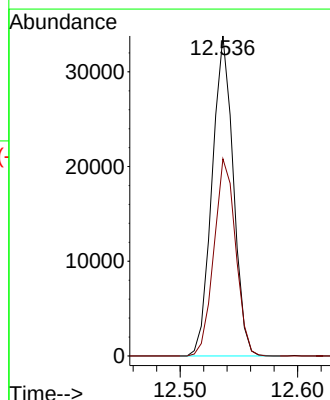
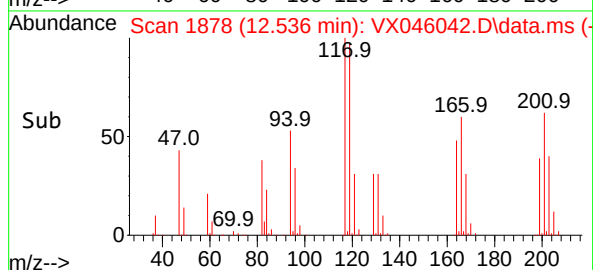
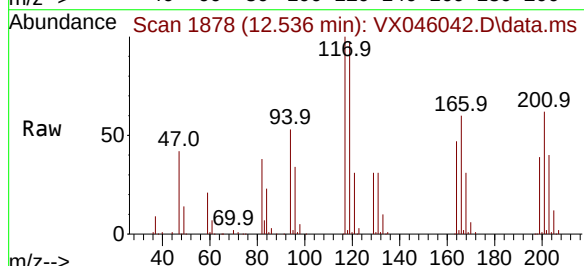
Acq: 05 May 2025 11:58

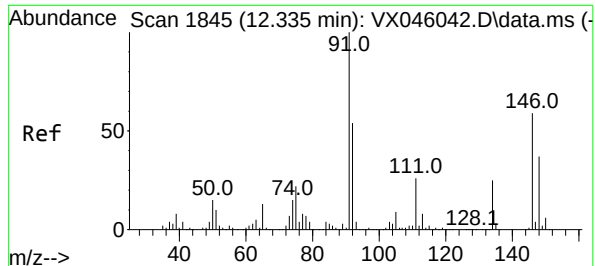
Tgt Ion:117 Resp: 42314

Ion Ratio Lower Upper

117 100

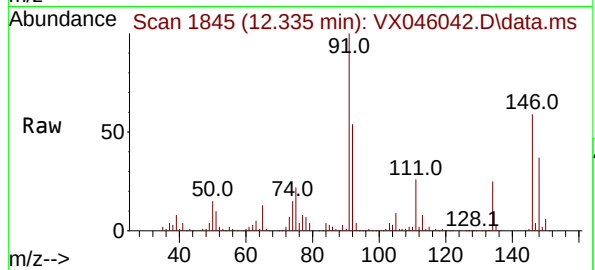
201 63.1 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 37.047 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

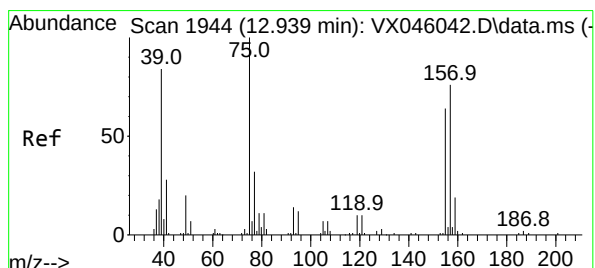
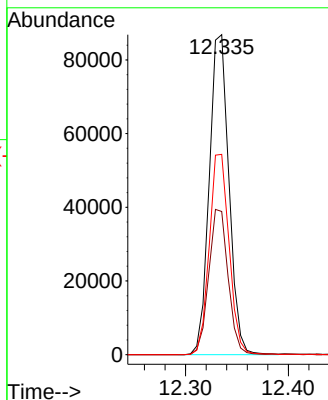
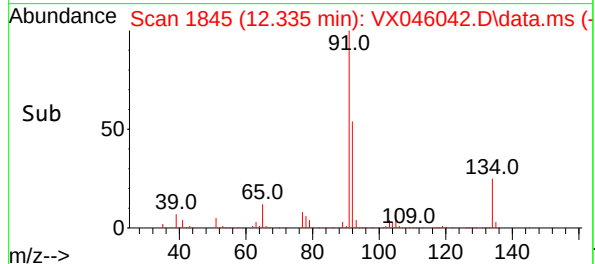
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:146 Resp: 115280  
Ion Ratio Lower Upper  
146 100  
111 44.9 22.4 67.3  
148 63.2 31.6 94.8

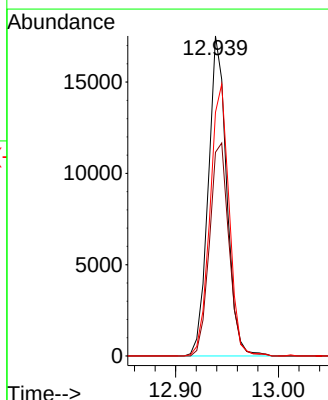
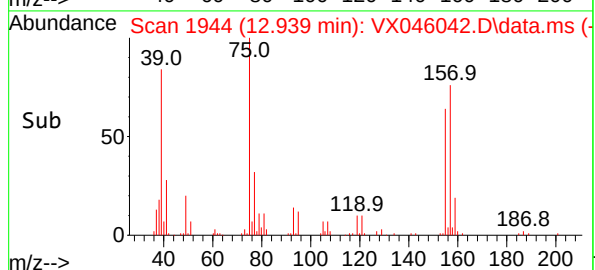
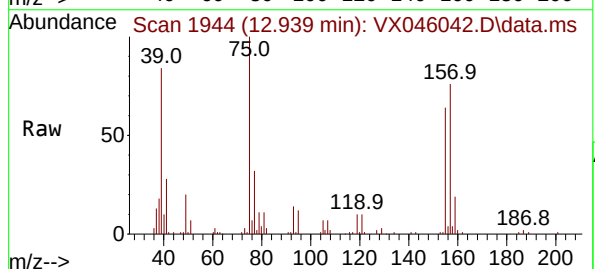
Manual Integrations  
APPROVED

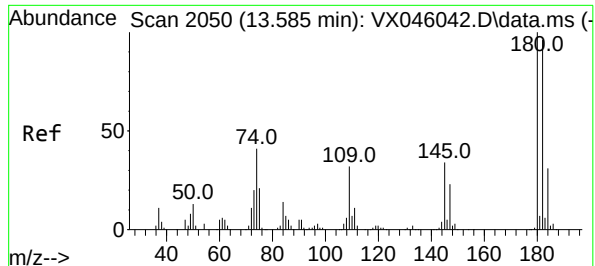
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 36.496 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 21909  
Ion Ratio Lower Upper  
75 100  
155 69.9 34.9 104.8  
157 87.6 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 39.117 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 6665

Ion Ratio Lower Upper

180 100

182 95.9 47.9 143.8

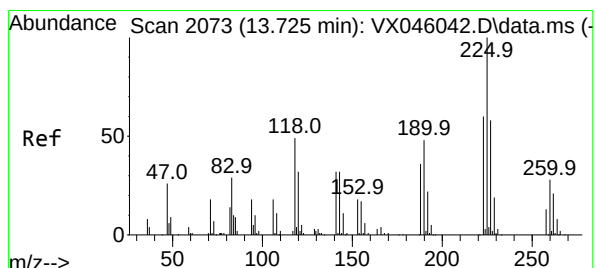
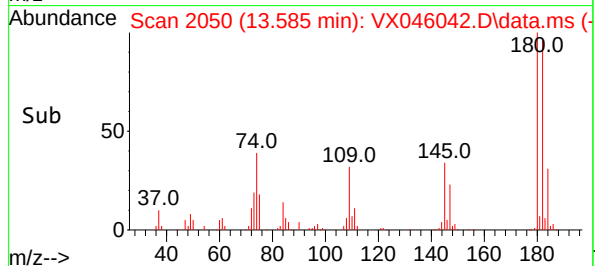
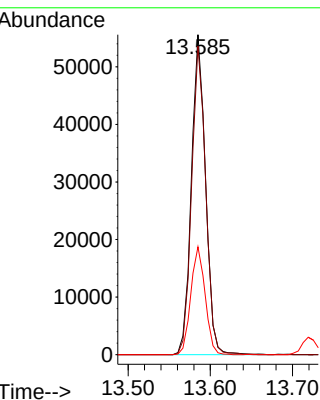
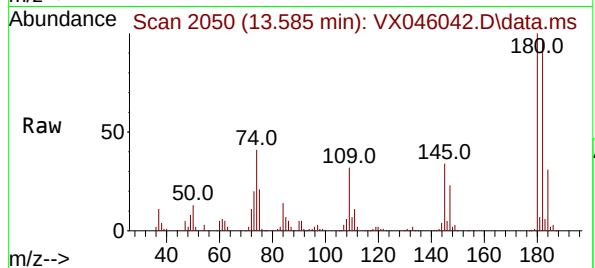
145 34.1 17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#94

Hexachlorobutadiene

Concen: 36.395 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX046042.D

Acq: 05 May 2025 11:58

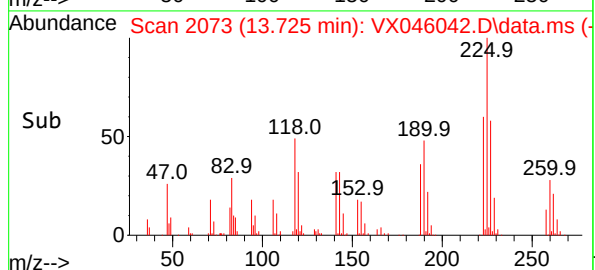
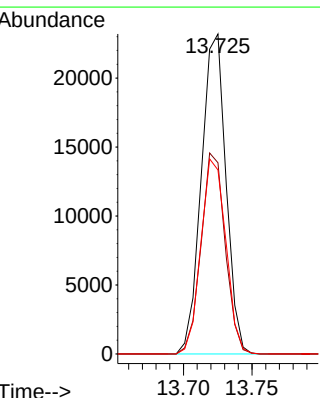
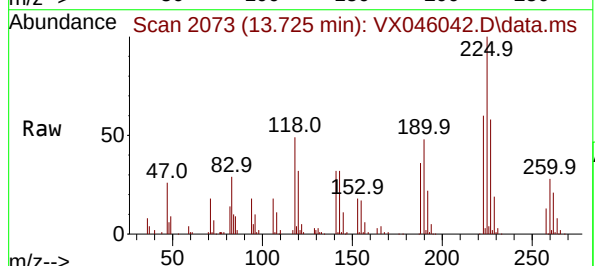
Tgt Ion:225 Resp: 29007

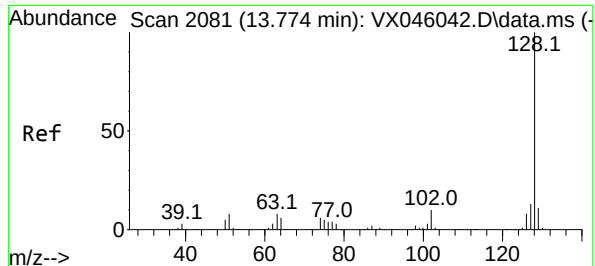
Ion Ratio Lower Upper

225 100

223 61.6 30.8 92.4

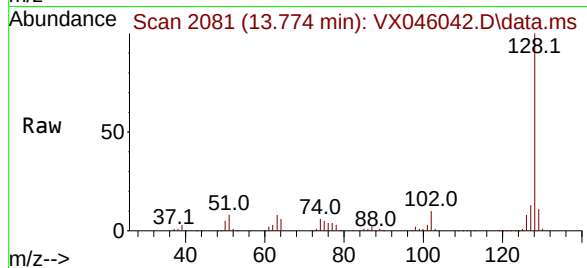
227 61.8 30.9 92.7





#95  
Naphthalene  
Concen: 39.575 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

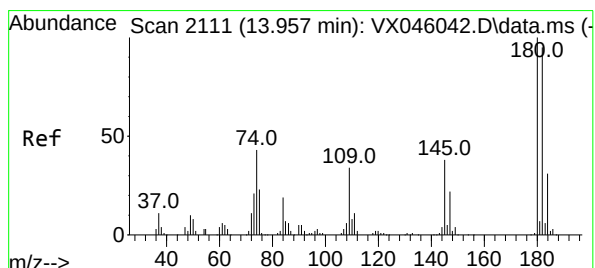
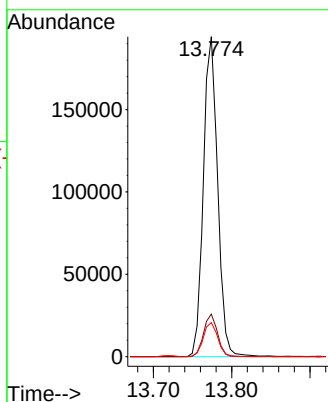
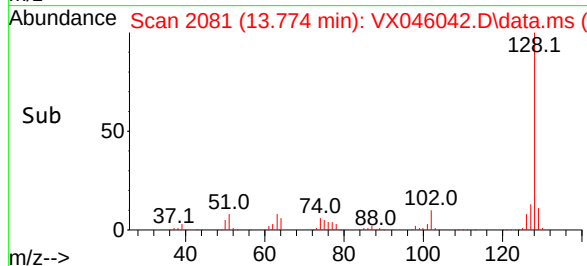
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC050



Tgt Ion:128 Resp: 245568  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.4 15.6  
129 10.8 8.6 13.0

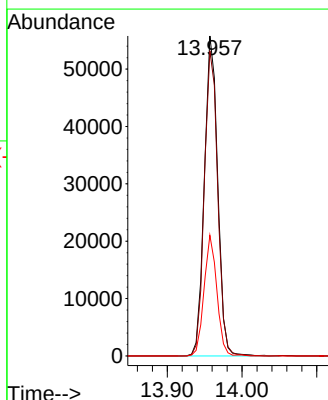
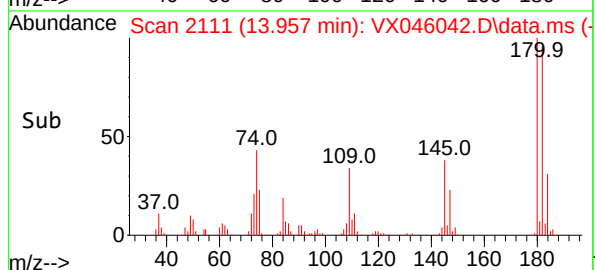
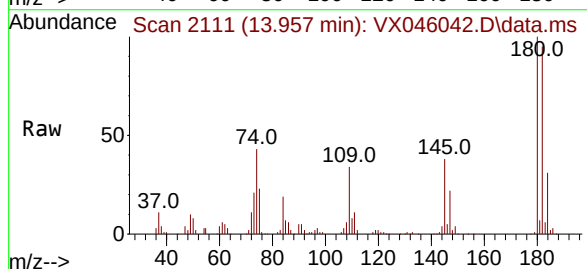
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 38.765 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VX046042.D  
Acq: 05 May 2025 11:58

Tgt Ion:180 Resp: 69262  
Ion Ratio Lower Upper  
180 100  
182 95.5 47.8 143.3  
145 36.2 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046043.D  
 Acq On : 05 May 2025 12:21  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 87028                | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 152958               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 135214               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 66369                | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 161877               | 62.526  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 125.060%# |         |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 111455               | 65.006  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 130.020%# |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 387230               | 67.031  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 134.060%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 153085               | 72.818  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 145.640%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 149508               | 77.828  | ug/l   | 99       |
| 3) Chloromethane             | 1.307          | 50   | 136937               | 72.392  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 126609               | 76.398  | ug/l   | 98       |
| 5) Bromomethane              | 1.593          | 94   | 59246                | 70.507  | ug/l   | 99       |
| 6) Chloroethane              | 1.660          | 64   | 57332                | 67.148  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.867          | 101  | 171042               | 67.754  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 58762                | 70.807  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 109520               | 72.604  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.440          | 142  | 138045               | 77.943  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 2.995          | 59   | 125094               | 405.394 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 2.306          | 96   | 105566               | 71.884  | ug/l   | 96       |
| 13) Acrolein                 | 2.239          | 56   | 134456               | 375.132 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 206519               | 74.419  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.068          | 53   | 331142               | 358.723 | ug/l   | 97       |
| 16) Acetone                  | 2.386          | 43   | 314383               | 354.936 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.501          | 76   | 264956               | 77.867  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 147014               | 69.531  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 378113               | 73.818  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.782          | 84   | 120270               | 67.030  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 106606               | 71.109  | ug/l   | 99       |
| 22) Diisopropyl ether        | 3.763          | 45   | 399494               | 77.048  | ug/l   | 90       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1811550              | 395.363 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 219759               | 72.114  | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 485448               | 379.704 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.464          | 77   | 174579               | 75.621  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 128454               | 71.056  | ug/l   | 99       |
| 28) Bromochloromethane       | 4.891          | 49   | 103602               | 63.932  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 5.001          | 42   | 305757               | 368.234 | ug/l   | 99       |
| 30) Chloroform               | 5.086          | 83   | 222253               | 70.180  | ug/l   | 95       |
| 31) Cyclohexane              | 5.458          | 56   | 196302               | 76.428  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 201112               | 73.635  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 147873               | 74.285  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.714          | 43   | 186215               | 74.565  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 168946               | 73.875  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.372          | 83   | 191941               | 76.952  | ug/l   | 96       |
| 40) Benzene                  | 6.031          | 78   | 440885               | 71.457  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046043.D  
 Acq On : 05 May 2025 12:21  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 104863   | 75.574   | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 187036   | 73.318   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 300491   | 78.714   | ug/l   | 100      |
| 44) Trichloroethene           | 7.123  | 130  | 105628   | 72.420   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 112554   | 73.420   | ug/l   | 100      |
| 46) Dibromomethane            | 7.574  | 93   | 85728    | 70.938   | ug/l   | 100      |
| 47) Bromodichloromethane      | 7.818  | 83   | 175301   | 74.845   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.689  | 41   | 153093   | 78.101   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 57313    | 1470.687 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 963319   | 384.740  | ug/l   | 100      |
| 52) Toluene                   | 8.714  | 92   | 270763   | 74.010   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 169863   | 86.372   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 184134   | 80.264   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97   | 107264   | 72.543   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 188717   | 82.359   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 187649   | 71.590   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 463169   | 449.791  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 729602   | 383.945  | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.518  | 129  | 127012   | 78.918   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 112669   | 74.200   | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.268  | 164  | 93195    | 67.493   | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 293284   | 70.490   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 103177   | 74.349   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.189 | 91   | 535122   | 75.444   | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 389935   | 152.181  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 190833   | 73.890   | ug/l   | 97       |
| 70) Styrene                   | 10.652 | 104  | 328195   | 79.411   | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 84353    | 80.927   | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.957 | 105  | 514528   | 71.083   | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 274553   | 76.073   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 170481   | 66.207   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 150182m  | 54.277   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 117151   | 69.959   | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 608332   | 74.974   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 372392   | 68.100   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 432096   | 71.903   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 54398    | 81.820   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 432053   | 71.890   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 432011   | 73.197   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 442728   | 73.758   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 543597   | 74.188   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 457898   | 77.393   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 219753   | 70.449   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 217613   | 71.190   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 416602   | 80.996   | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 82528    | 74.978   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 216834   | 71.367   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 43673    | 74.512   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 137430   | 82.605   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 55494    | 71.314   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 489778   | 80.842   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 139525   | 79.981   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046043.D  
Acq On : 05 May 2025 12:21  
Operator : JC/MD  
Sample : VSTDICC100  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration

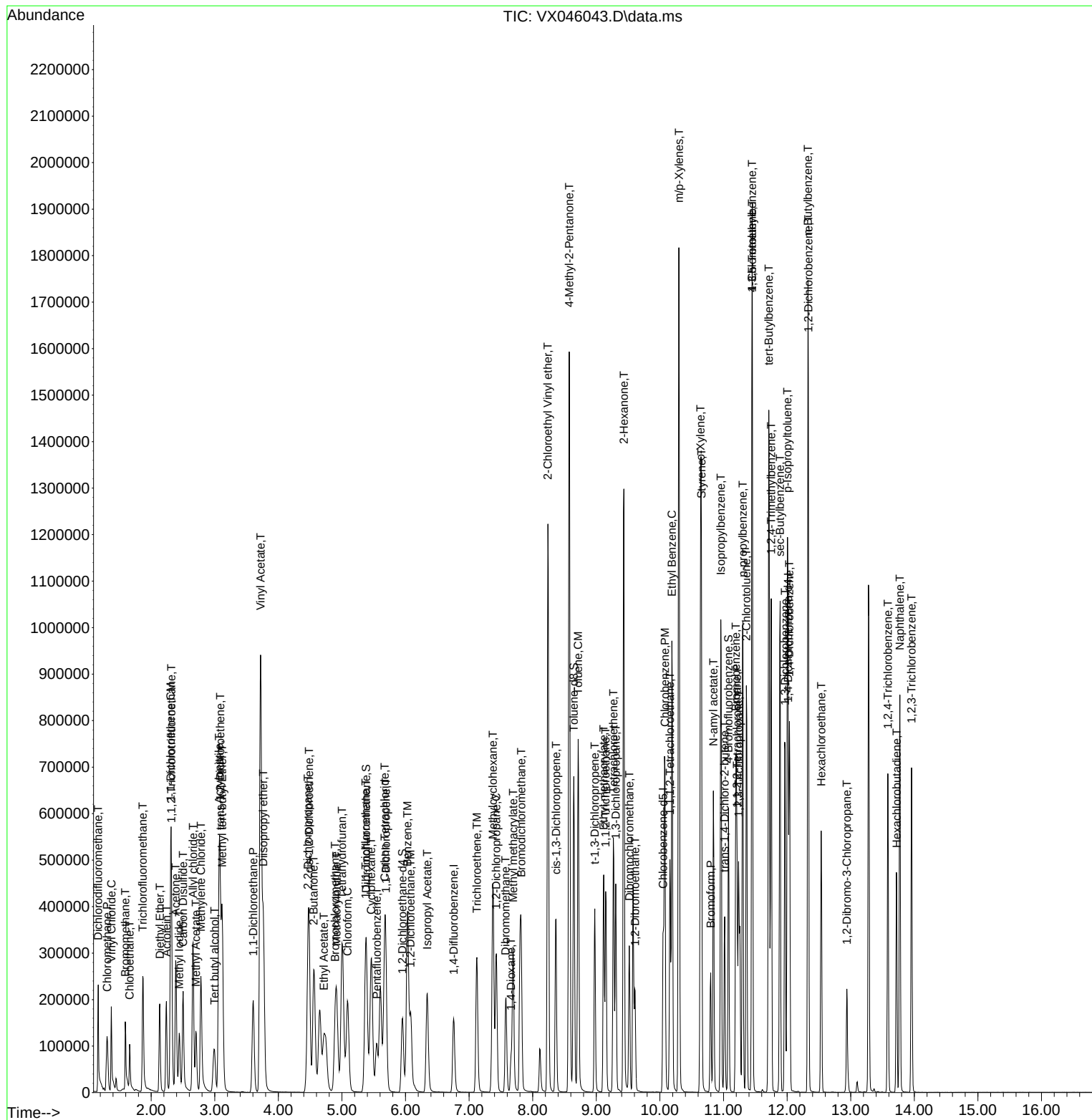
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

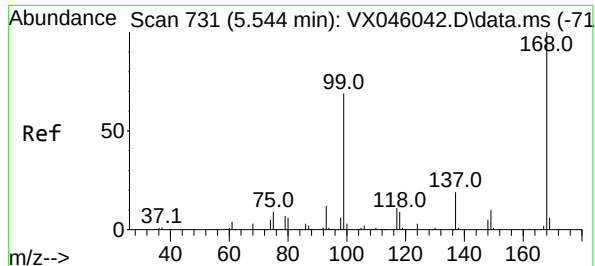
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC100

## Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

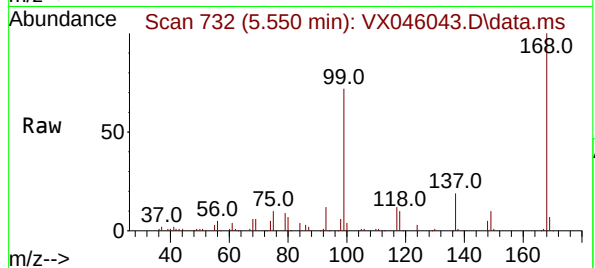






#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

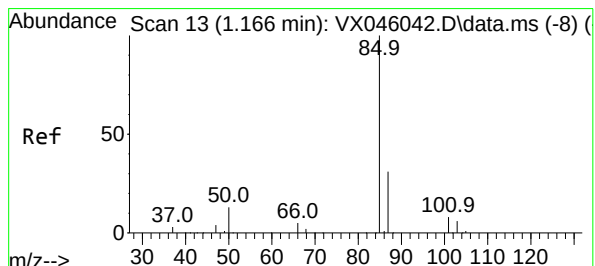
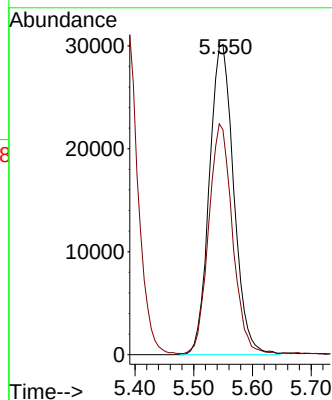
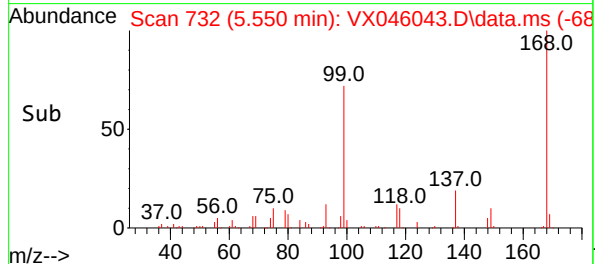
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100



Tgt Ion:168 Resp: 87028  
Ion Ratio Lower Upper  
168 100  
99 72.1 54.9 82.3

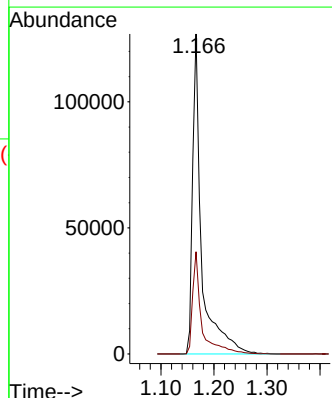
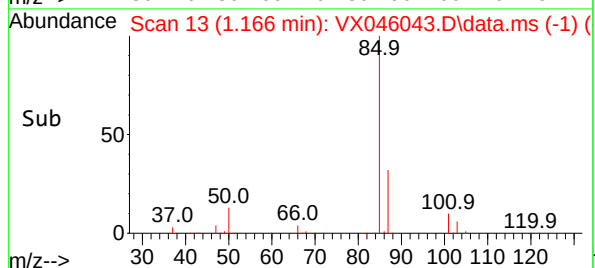
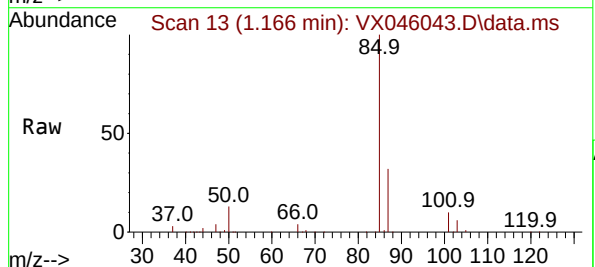
Manual Integrations  
APPROVED

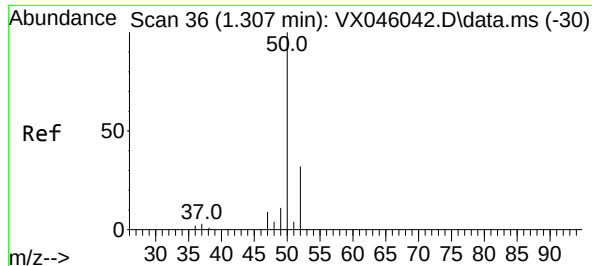
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#2  
Dichlorodifluoromethane  
Concen: 77.828 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

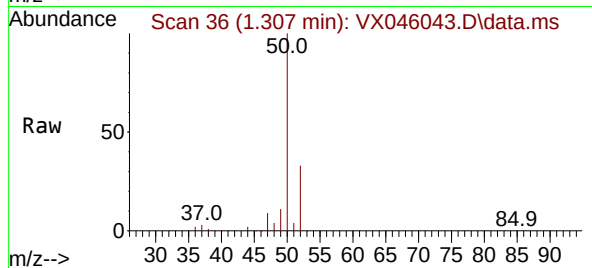
Tgt Ion: 85 Resp: 149508  
Ion Ratio Lower Upper  
85 100  
87 32.0 15.7 47.1





#3  
Chloromethane  
Concen: 72.392 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

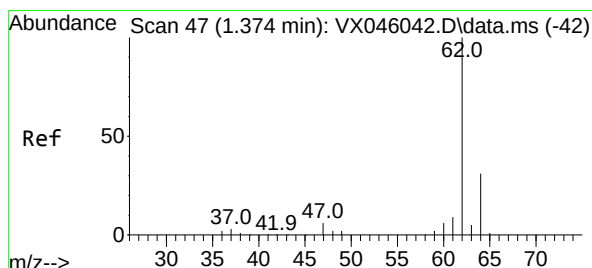
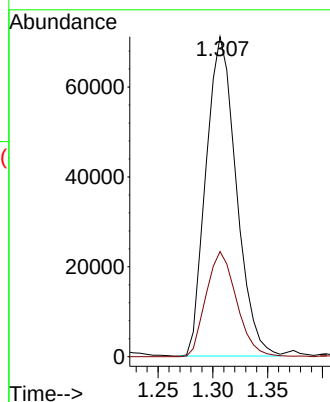
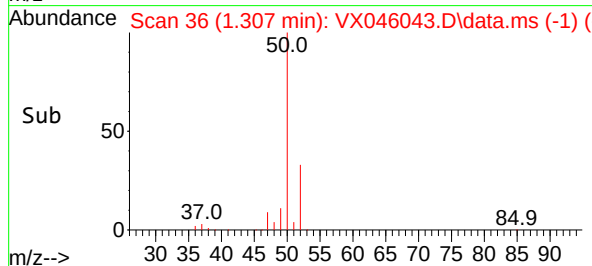
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 50 Resp: 13693  
Ion Ratio Lower Upper  
50 100  
52 32.9 25.4 38.2

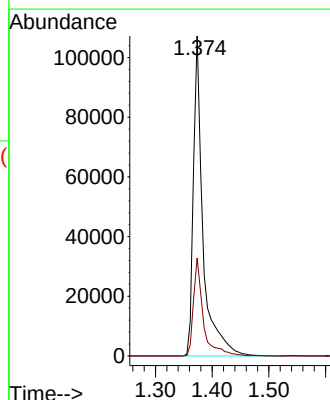
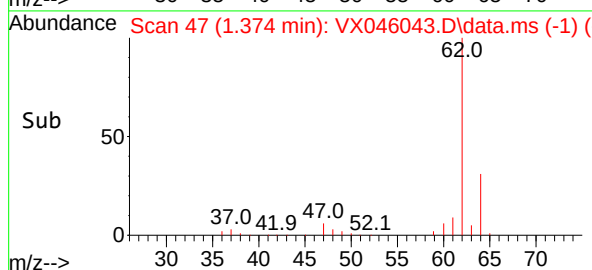
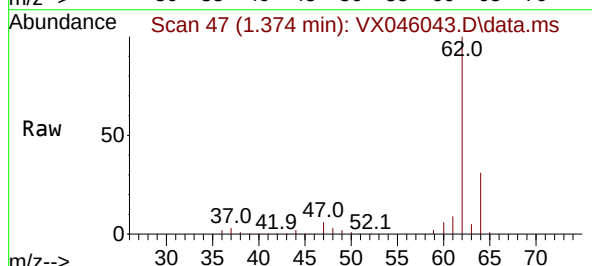
Manual Integrations  
APPROVED

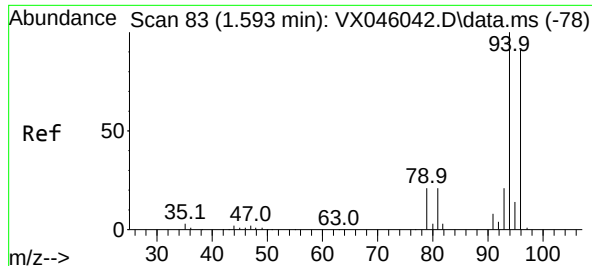
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 76.398 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

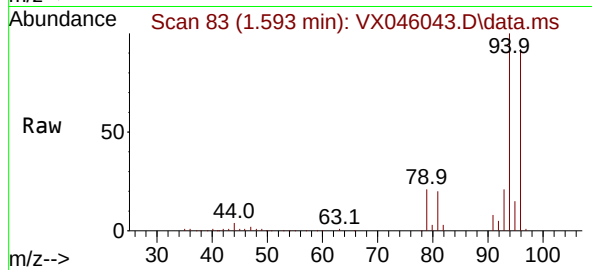
Tgt Ion: 62 Resp: 126609  
Ion Ratio Lower Upper  
62 100  
64 30.6 25.2 37.8





#5  
Bromomethane  
Concen: 70.507 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

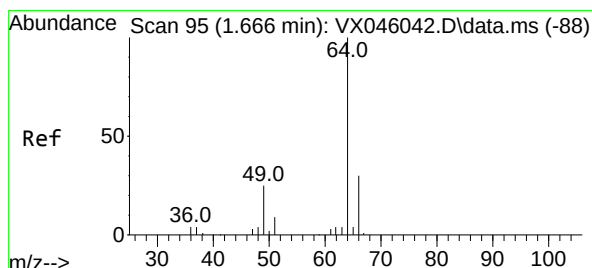
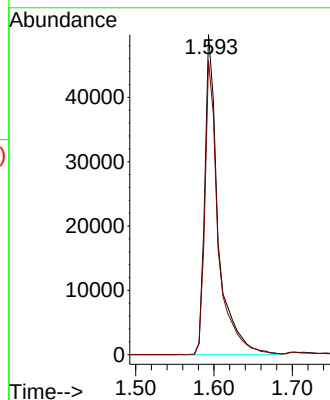
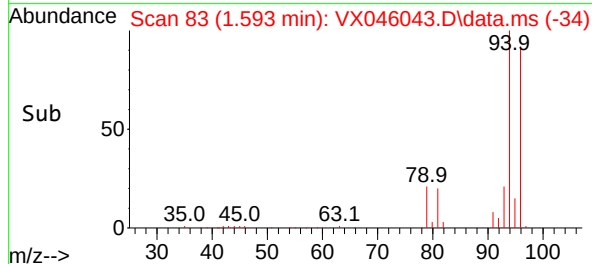
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 94 Resp: 59240  
Ion Ratio Lower Upper  
94 100  
96 91.7 72.8 109.2

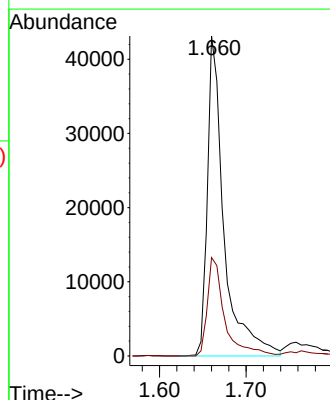
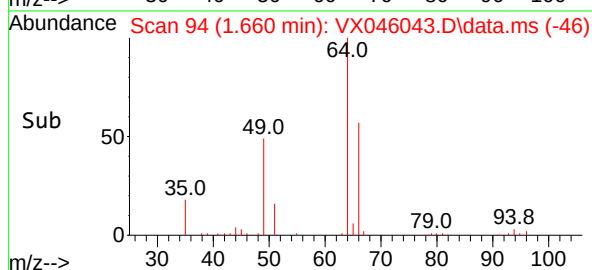
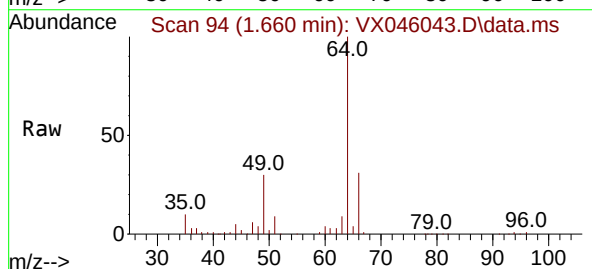
Manual Integrations  
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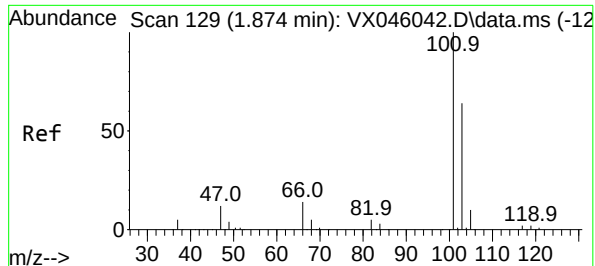
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#6  
Chloroethane  
Concen: 67.148 ug/l  
RT: 1.660 min Scan# 94  
Delta R.T. -0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

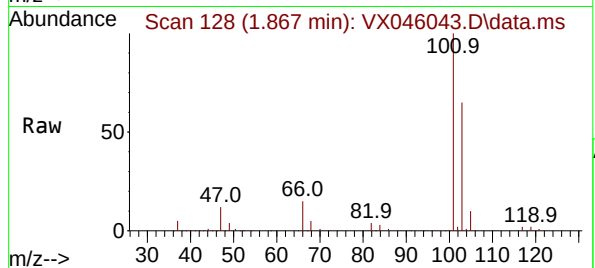
Tgt Ion: 64 Resp: 57332  
Ion Ratio Lower Upper  
64 100  
66 30.8 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 67.754 ug/l  
RT: 1.867 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

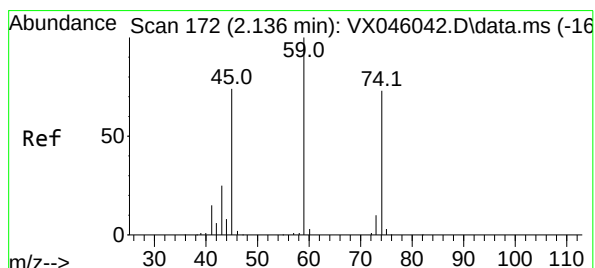
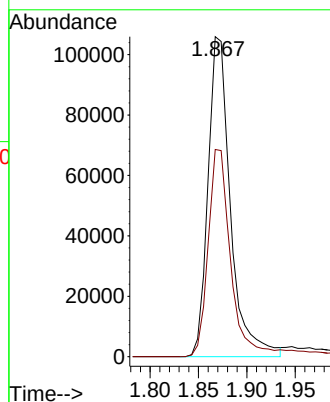
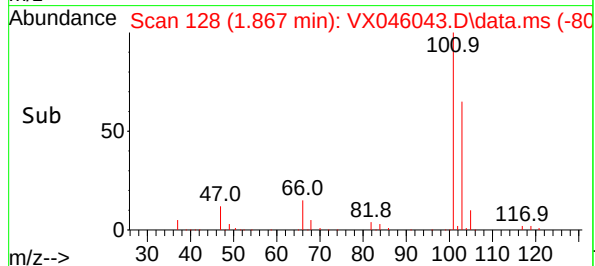
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100



Tgt Ion:101 Resp: 17104  
Ion Ratio Lower Upper  
101 100  
103 64.8 51.0 76.4

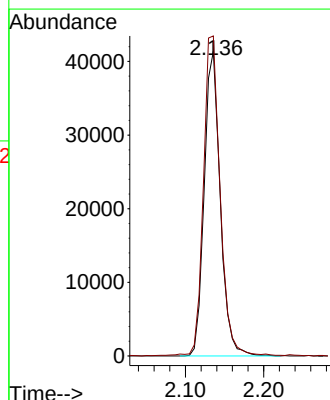
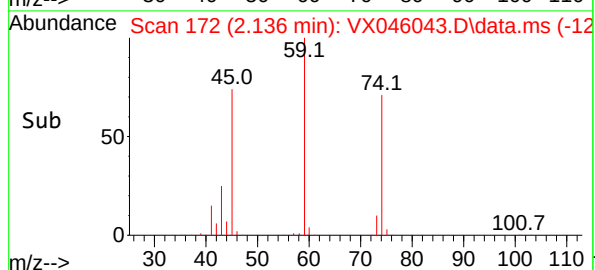
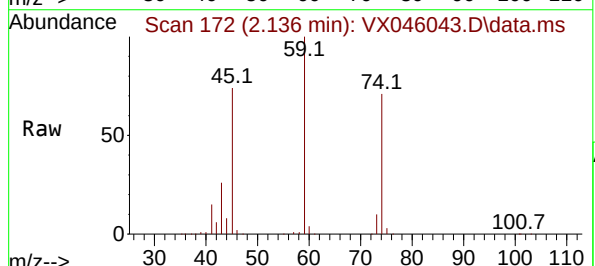
Manual Integrations  
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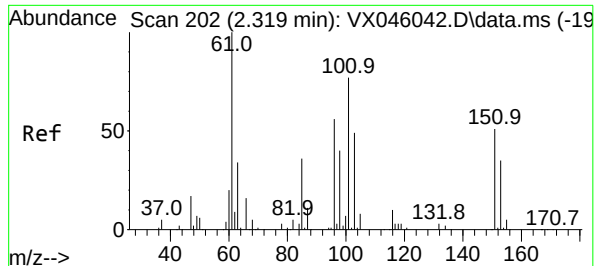
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#8  
Diethyl Ether  
Concen: 70.807 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

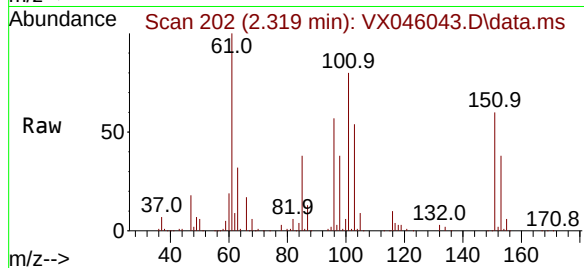
Tgt Ion: 74 Resp: 58762  
Ion Ratio Lower Upper  
74 100  
45 110.1 54.9 164.8





#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 72.604 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

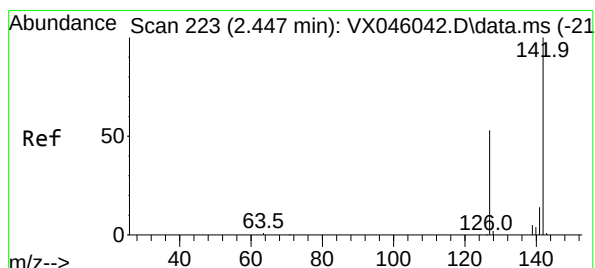
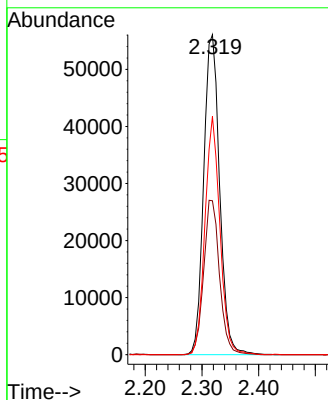
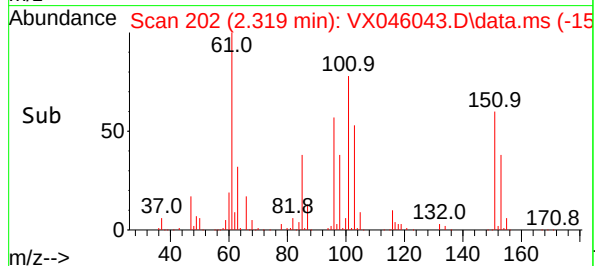
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



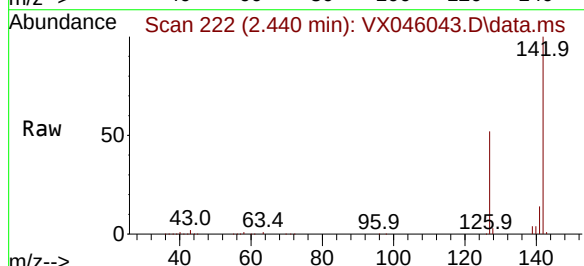
Tgt Ion:101 Resp: 109520  
Ion Ratio Lower Upper  
101 100  
85 48.1 38.6 58.0  
151 69.9 55.2 82.8

Manual Integrations  
APPROVED

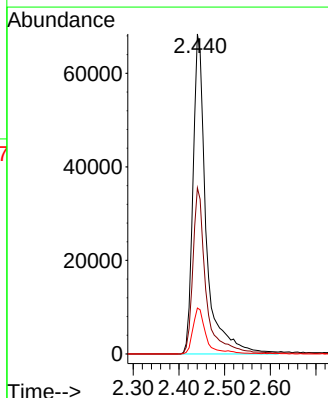
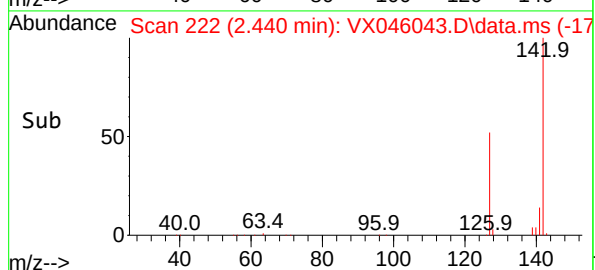
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

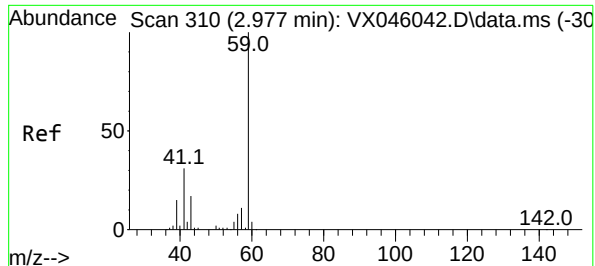


#10  
Methyl Iodide  
Concen: 77.943 ug/l  
RT: 2.440 min Scan# 222  
Delta R.T. -0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21



Tgt Ion:142 Resp: 138045  
Ion Ratio Lower Upper  
142 100  
127 52.0 41.7 62.5  
141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 405.394 ug/l

RT: 2.995 min Scan# 310

Delta R.T. 0.018 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 125094

Ion Ratio Lower Upper

59 100

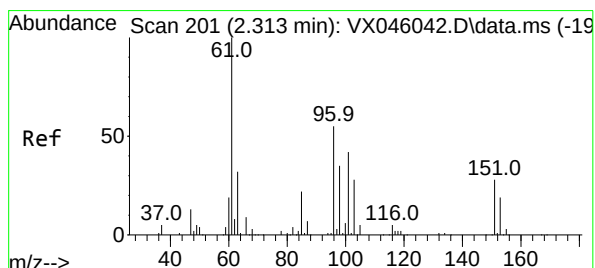
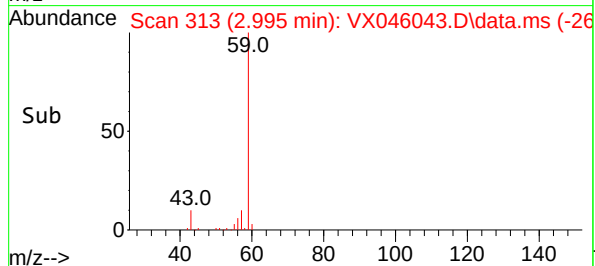
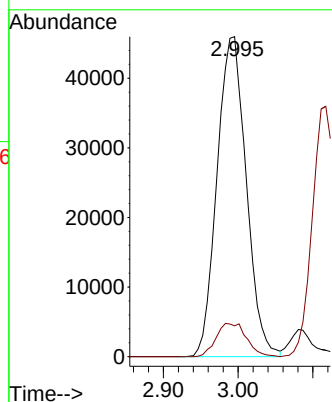
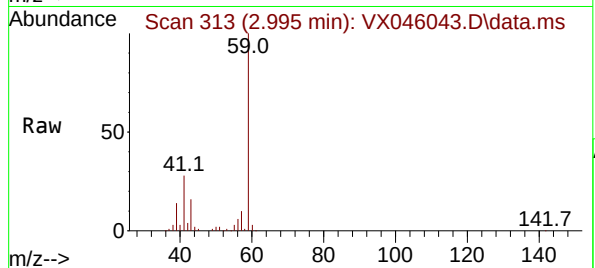
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#12

1,1-Dichloroethene

Concen: 71.884 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

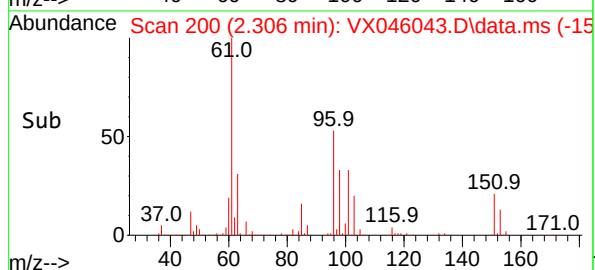
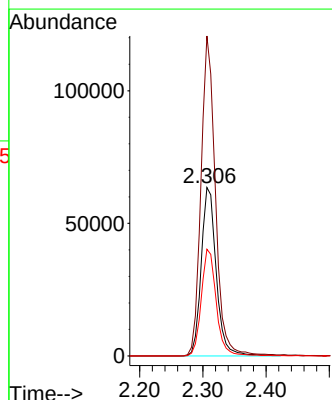
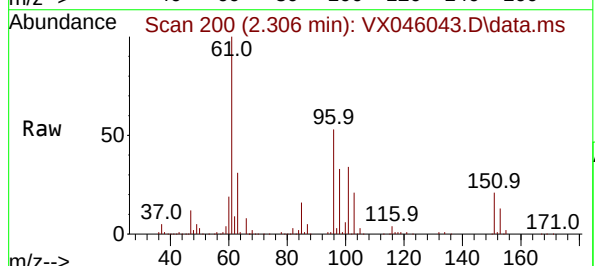
Tgt Ion: 96 Resp: 105566

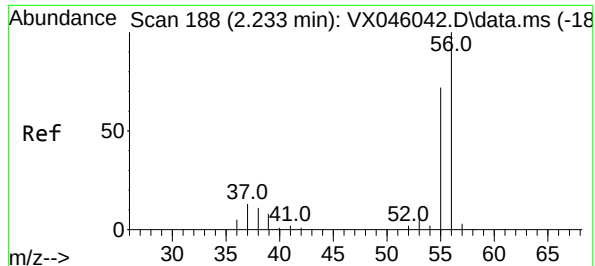
Ion Ratio Lower Upper

96 100

61 189.9 146.2 219.2

98 63.3 51.0 76.6





#13

Acrolein

Concen: 375.132 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 134450

Ion Ratio Lower Upper

56 100

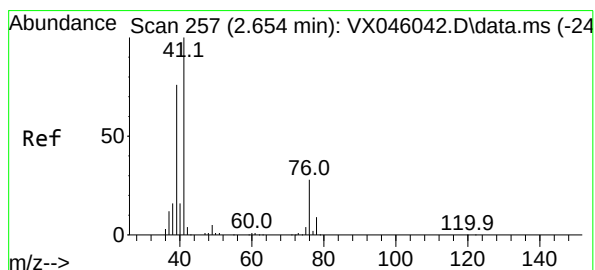
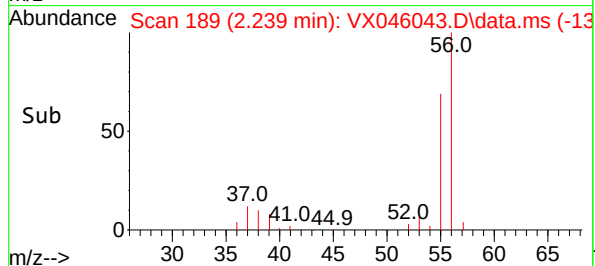
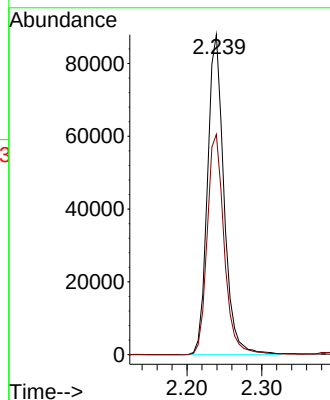
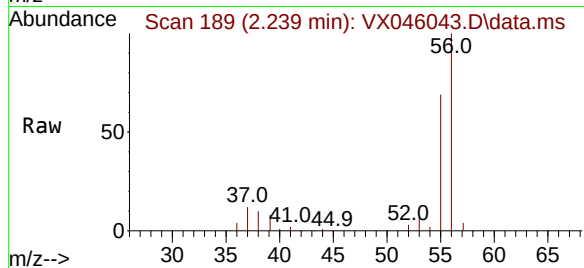
55 71.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 74.419 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

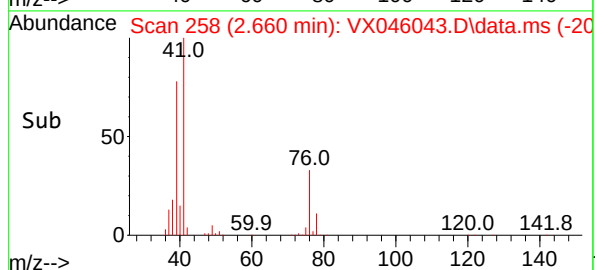
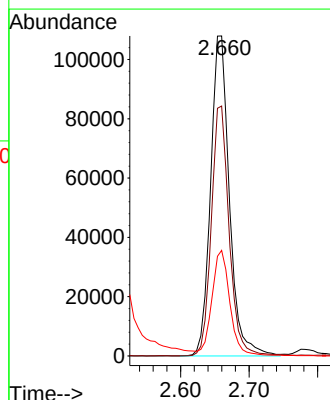
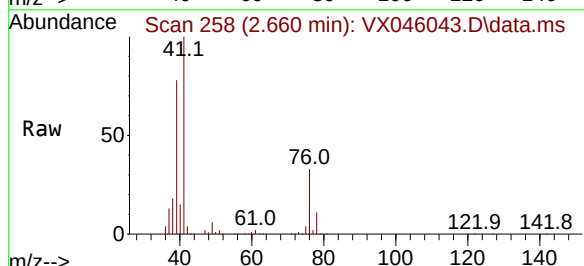
Tgt Ion: 41 Resp: 206519

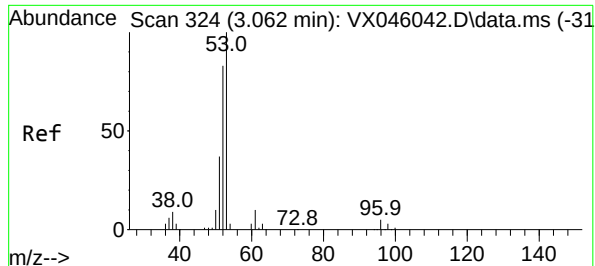
Ion Ratio Lower Upper

41 100

39 73.8 60.6 90.8

76 31.4 24.9 37.3





#15

Acrylonitrile

Concen: 358.723 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 33114

Ion Ratio Lower Upper

53 100

52 84.7 65.3 97.9

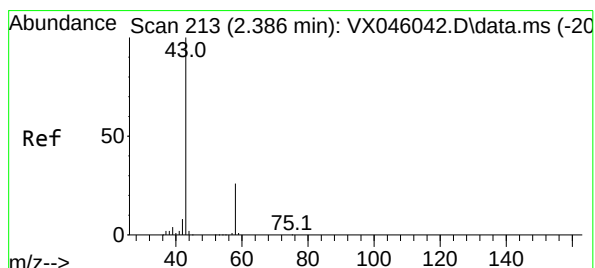
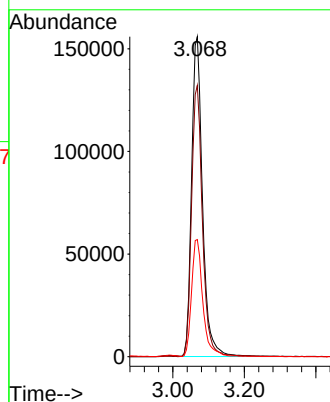
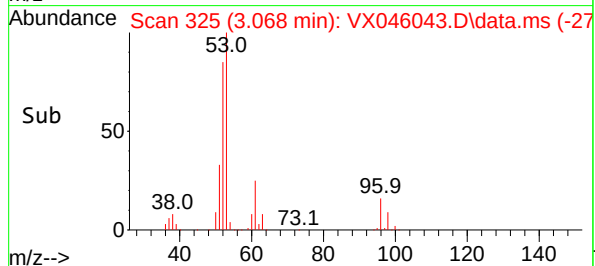
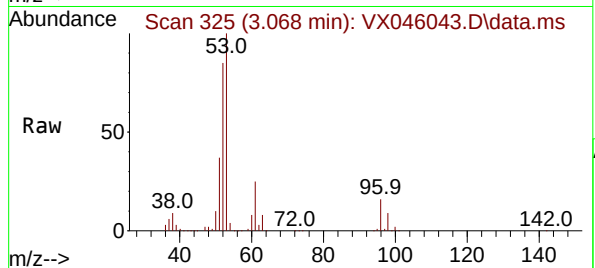
51 37.9 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 354.936 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX046043.D

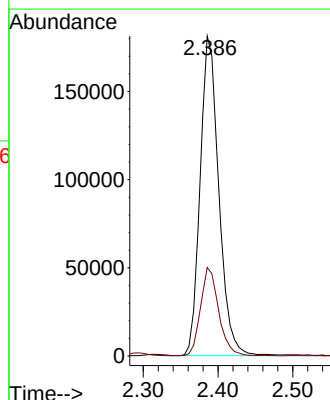
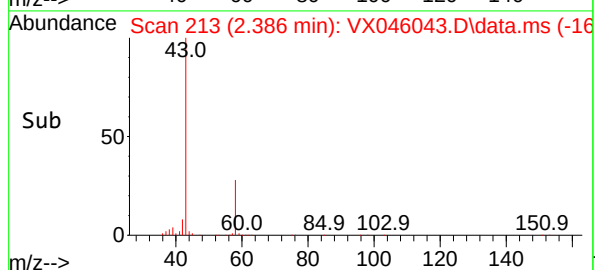
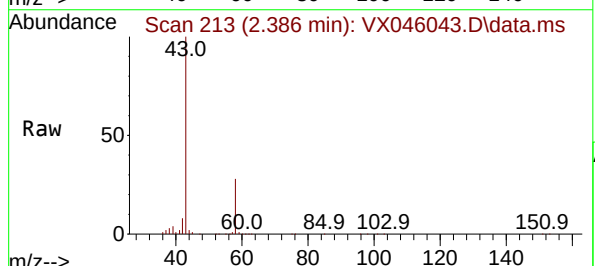
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 314383

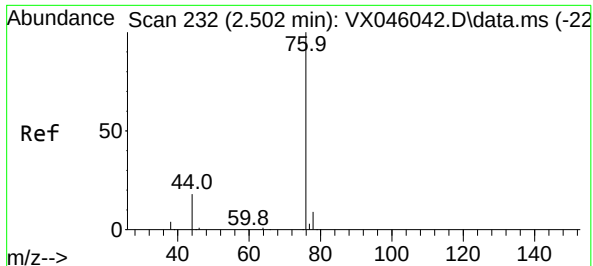
Ion Ratio Lower Upper

43 100

58 27.6 21.2 31.8







#17

Carbon Disulfide

Concen: 77.867 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 264950

Ion Ratio Lower Upper

76 100

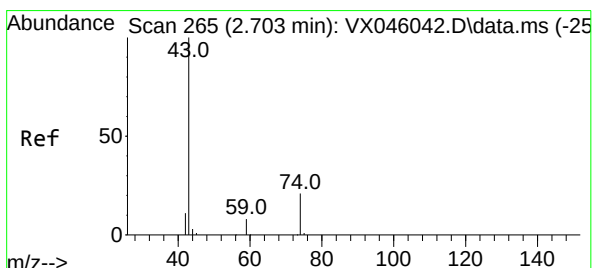
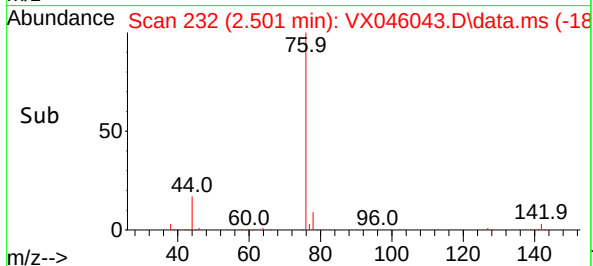
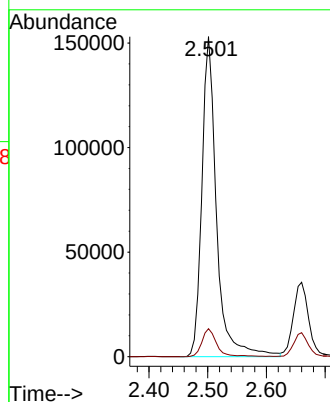
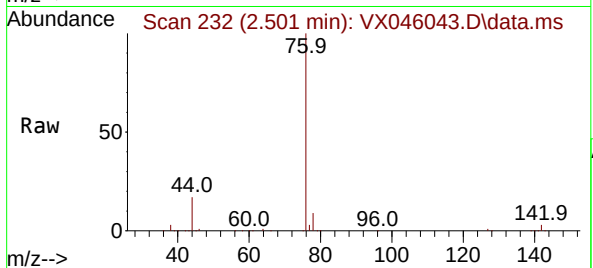
78 8.7 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 69.531 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX046043.D

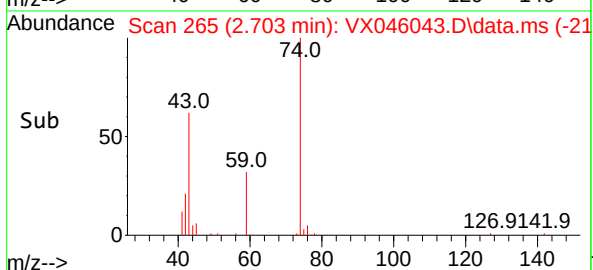
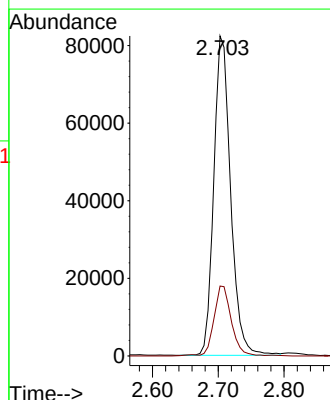
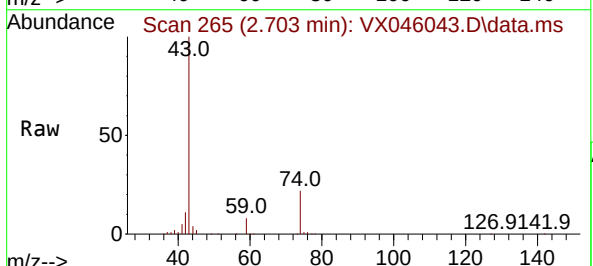
Acq: 05 May 2025 12:21

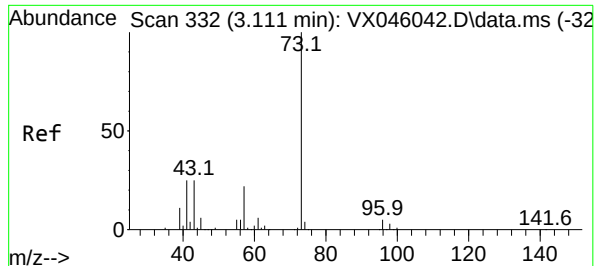
Tgt Ion: 43 Resp: 147014

Ion Ratio Lower Upper

43 100

74 22.6 16.7 25.1





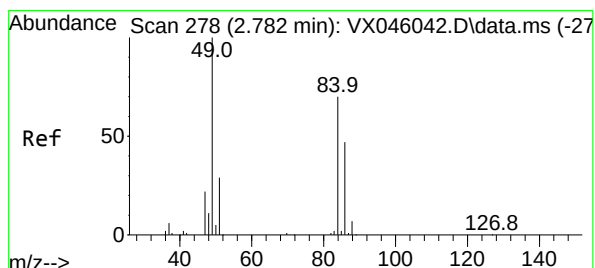
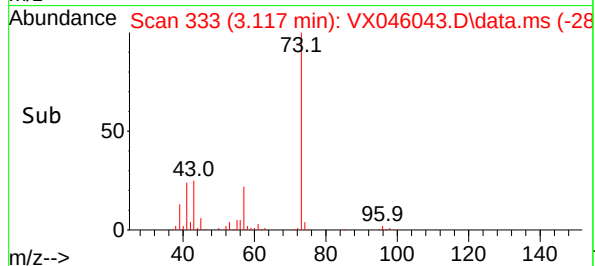
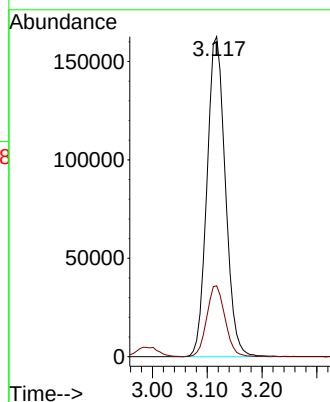
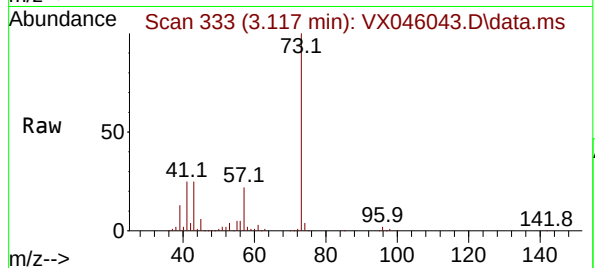
#19  
Methyl tert-butyl Ether  
Concen: 73.818 ug/l  
RT: 3.117 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 73 Resp: 37811  
Ion Ratio Lower Upper  
73 100  
57 22.1 17.7 26.5

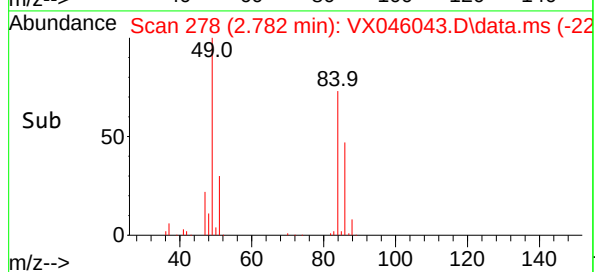
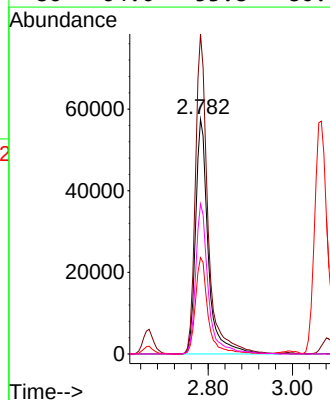
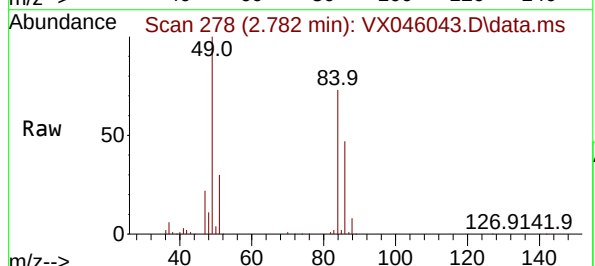
Manual Integrations  
APPROVED

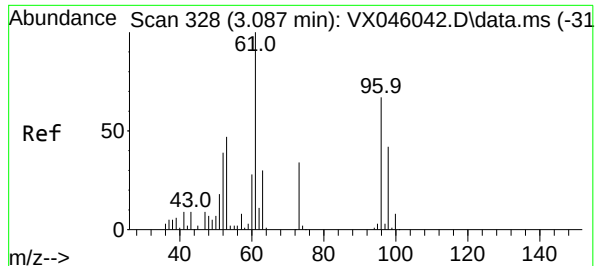
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#20  
Methylene Chloride  
Concen: 67.030 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

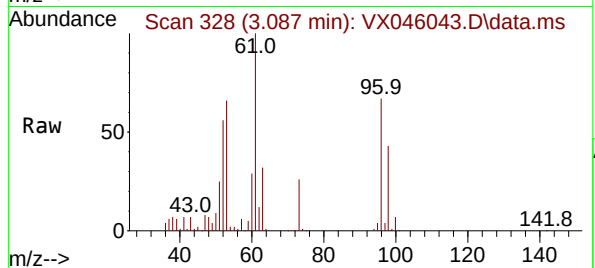
Tgt Ion: 84 Resp: 120270  
Ion Ratio Lower Upper  
84 100  
49 136.4 113.9 170.9  
51 41.1 33.5 50.3  
86 64.0 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 71.109 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

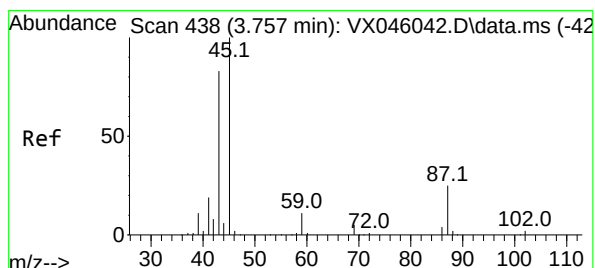
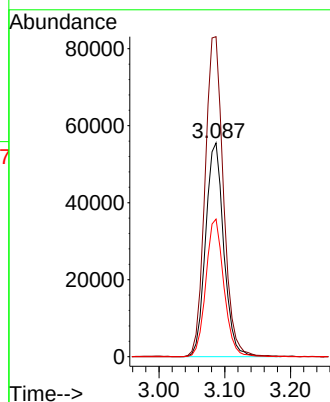
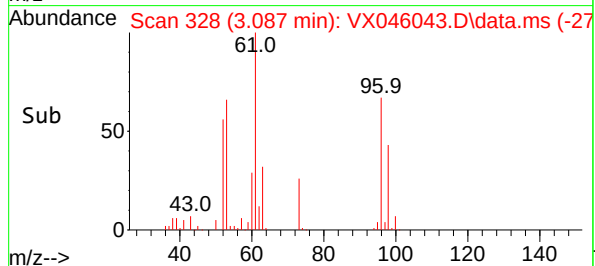
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 96 Resp: 106600  
Ion Ratio Lower Upper  
96 100  
61 149.7 119.5 179.3  
98 64.4 50.0 75.0

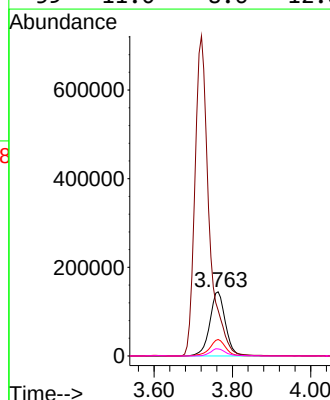
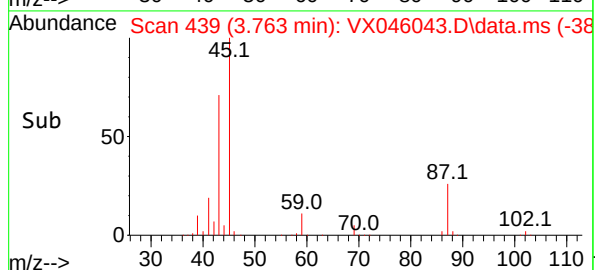
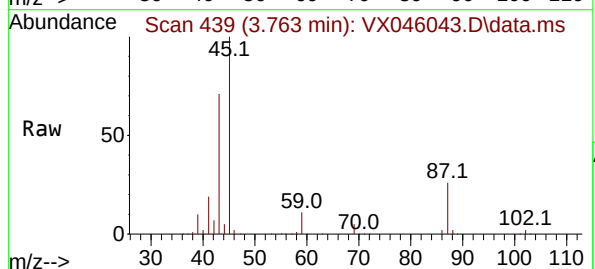
Manual Integrations  
APPROVED

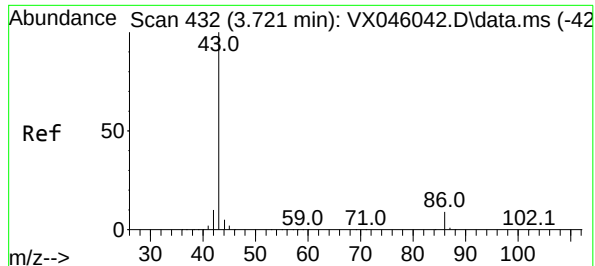
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 77.048 ug/l  
RT: 3.763 min Scan# 439  
Delta R.T. 0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

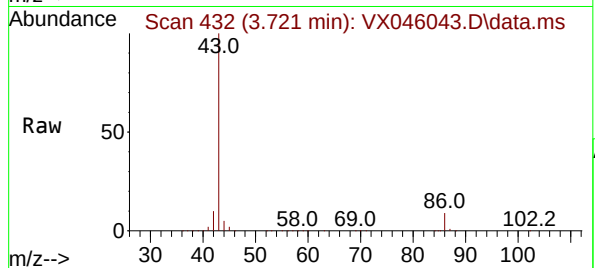
Tgt Ion: 45 Resp: 399494  
Ion Ratio Lower Upper  
45 100  
43 71.2 66.6 100.0  
87 25.7 19.8 29.6  
59 11.0 8.6 12.8





#23  
Vinyl Acetate  
Concen: 395.363 ug/l  
RT: 3.721 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

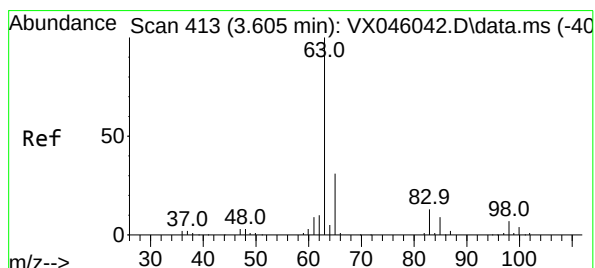
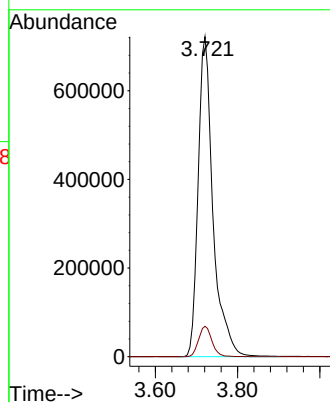
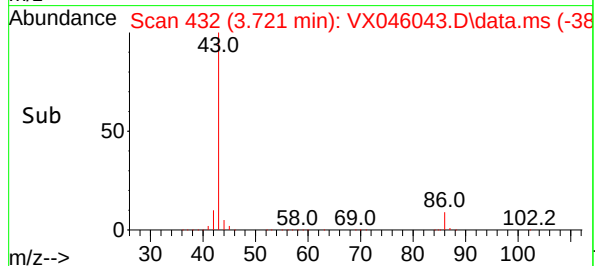
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 43 Resp: 1811550  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.5 11.3

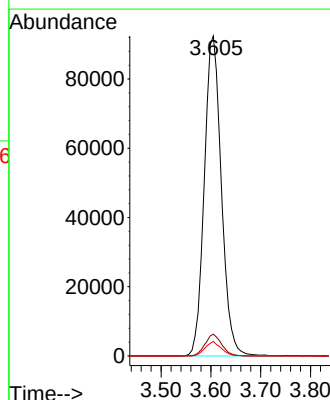
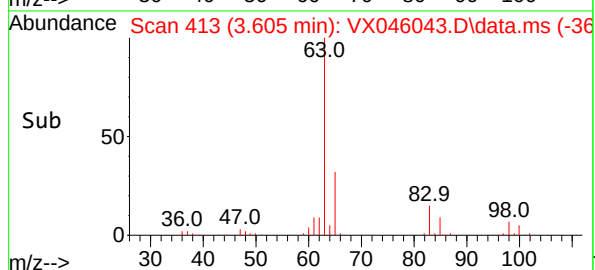
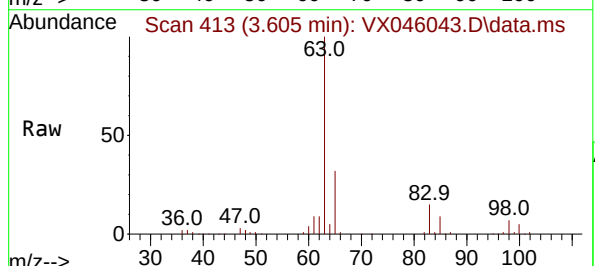
Manual Integrations  
APPROVED

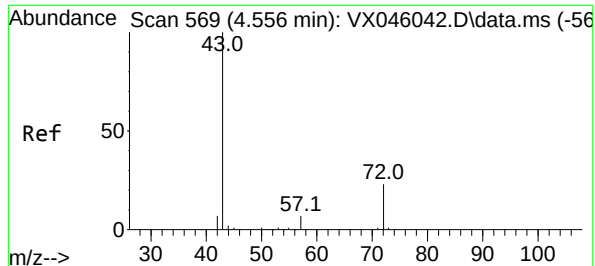
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#24  
1,1-Dichloroethane  
Concen: 72.114 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 219759  
Ion Ratio Lower Upper  
63 100  
98 6.8 3.6 10.8  
100 4.5 2.1 6.3





#25

2-Butanone

Concen: 379.704 ug/l

RT: 4.556 min Scan# 569

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 485448

Ion Ratio Lower Upper

43 100

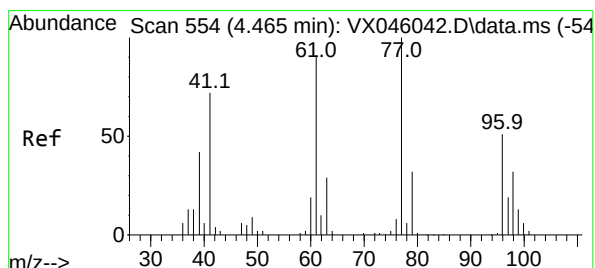
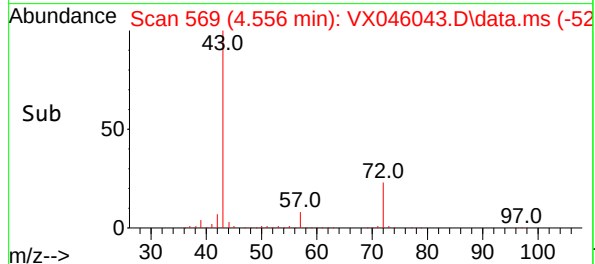
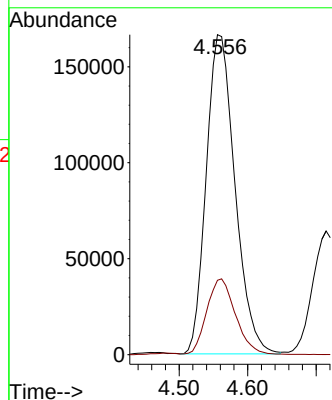
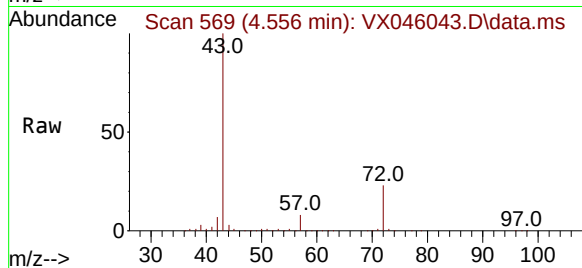
72 23.1 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 75.621 ug/l

RT: 4.464 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX046043.D

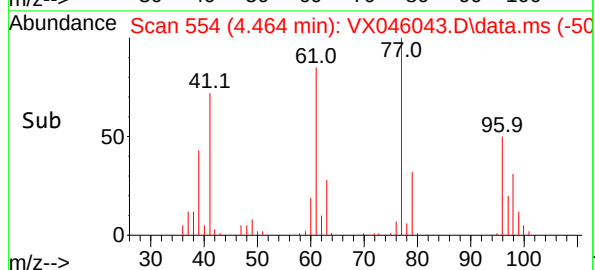
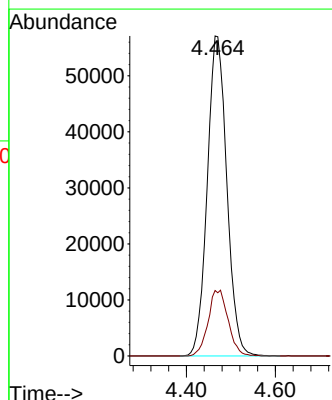
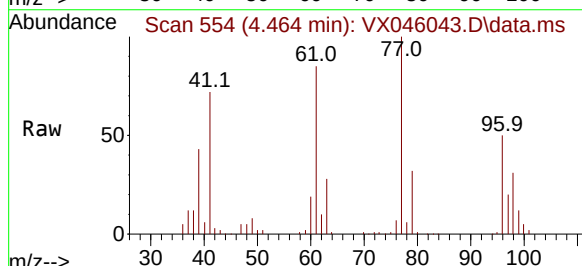
Acq: 05 May 2025 12:21

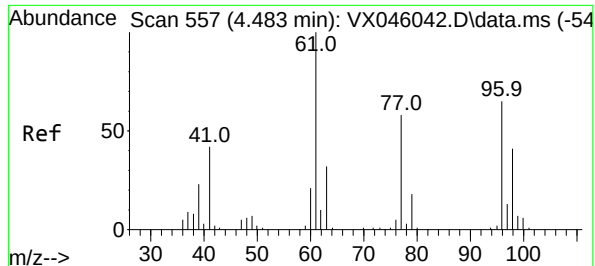
Tgt Ion: 77 Resp: 174579

Ion Ratio Lower Upper

77 100

97 21.1 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 71.056 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 128454

Ion Ratio Lower Upper

96 100

61 160.1 0.0 322.8

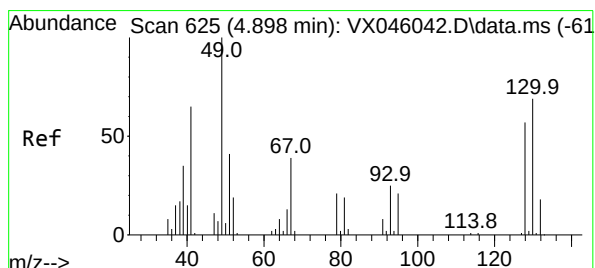
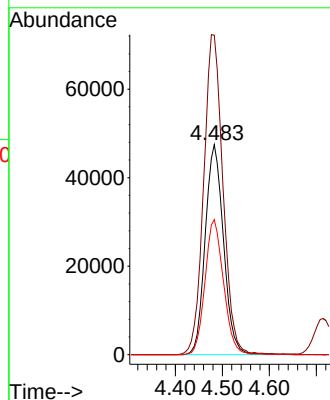
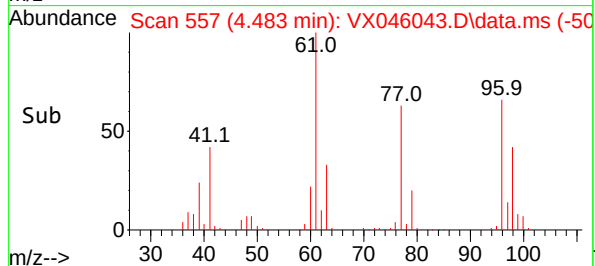
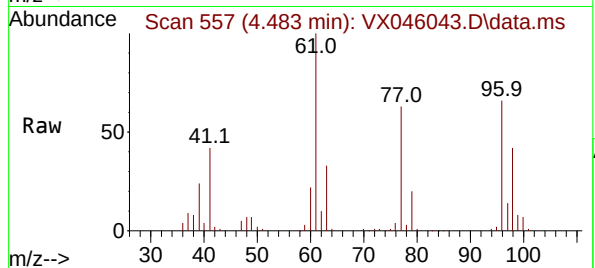
98 64.9 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 63.932 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

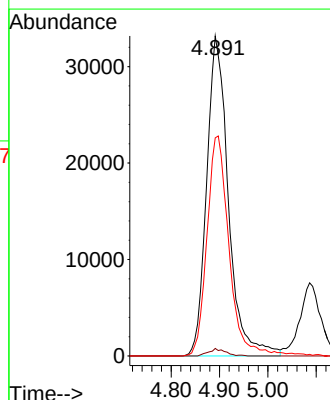
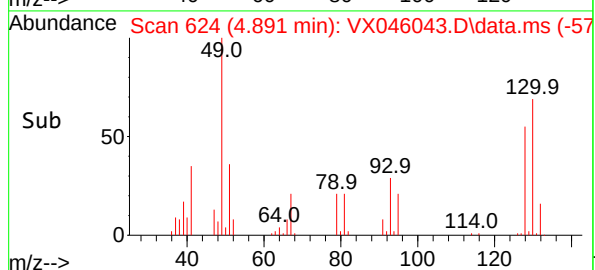
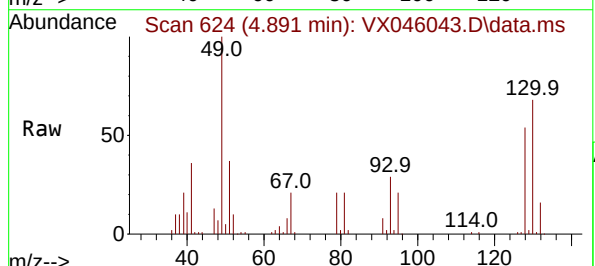
Tgt Ion: 49 Resp: 103602

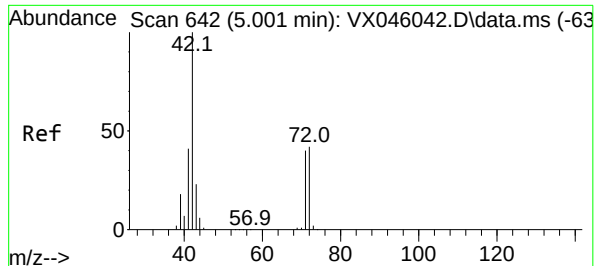
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 70.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 368.234 ug/l

RT: 5.001 min Scan# 642

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 30575

Ion Ratio Lower Upper

42 100

72 42.1 33.7 50.5

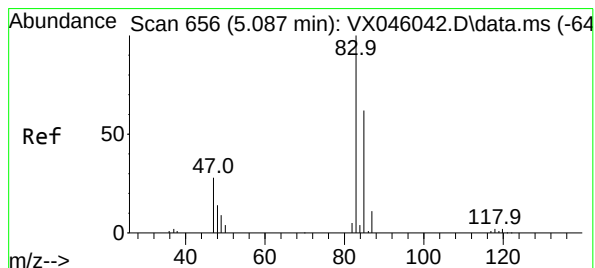
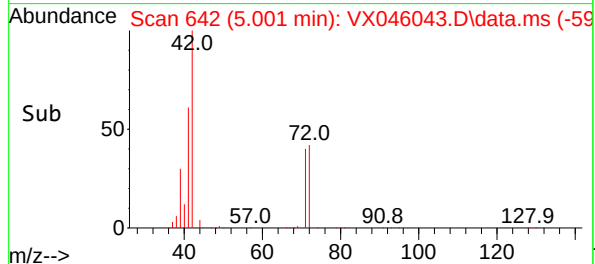
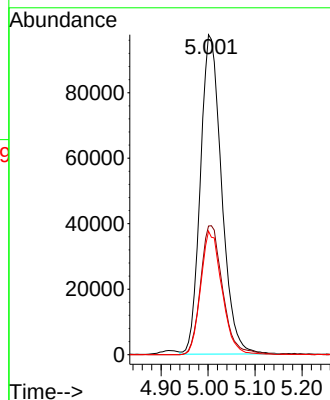
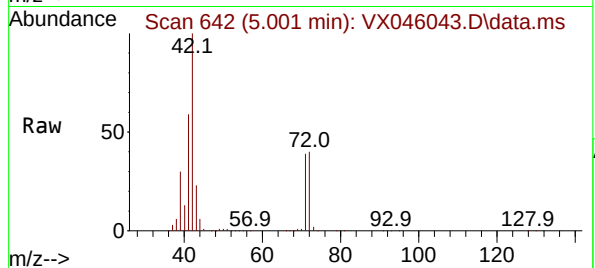
71 38.7 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 70.180 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX046043.D

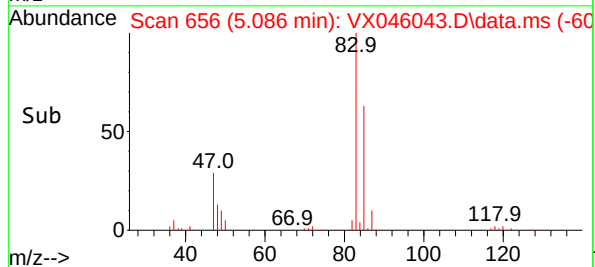
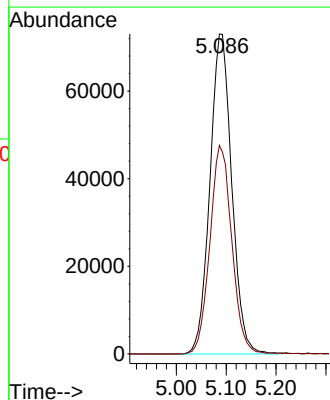
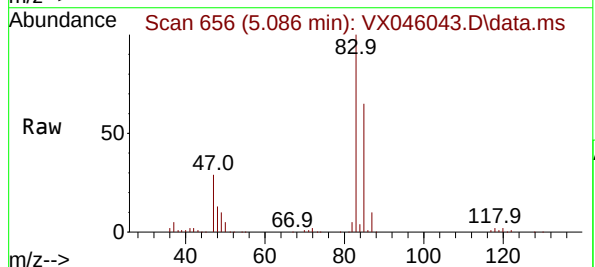
Acq: 05 May 2025 12:21

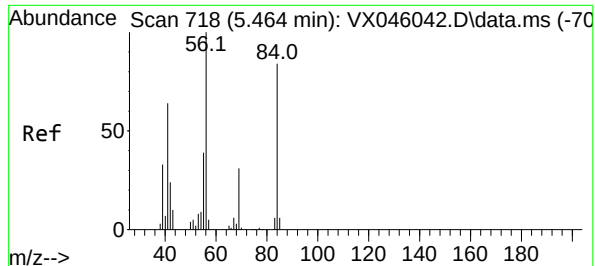
Tgt Ion: 83 Resp: 222253

Ion Ratio Lower Upper

83 100

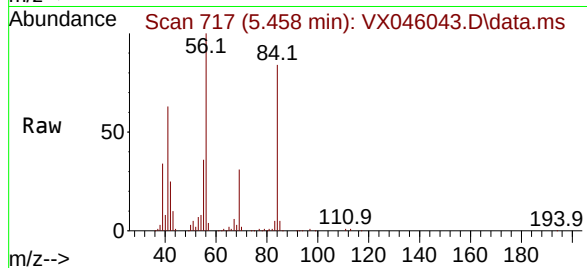
85 65.1 49.3 73.9





#31  
Cyclohexane  
Concen: 76.428 ug/l  
RT: 5.458 min Scan# 718  
Delta R.T. -0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

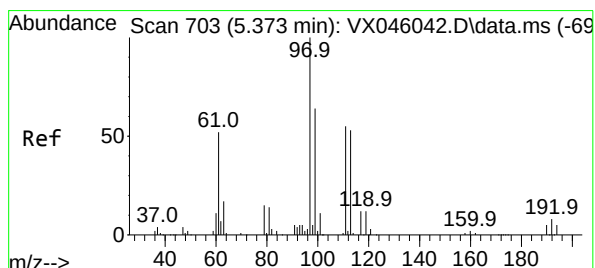
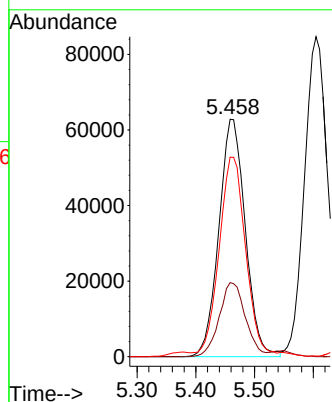
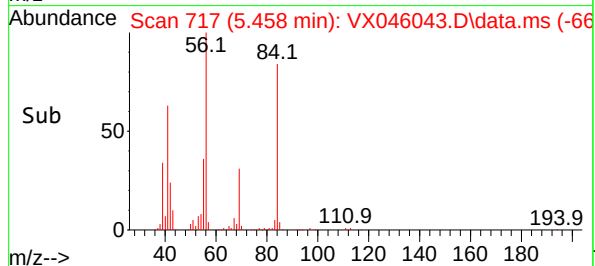
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 56 Resp: 196302  
Ion Ratio Lower Upper  
56 100  
69 31.2 24.4 36.6  
84 82.3 66.9 100.3

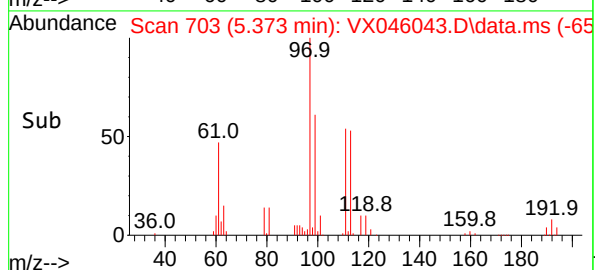
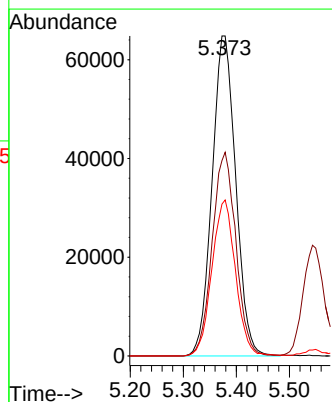
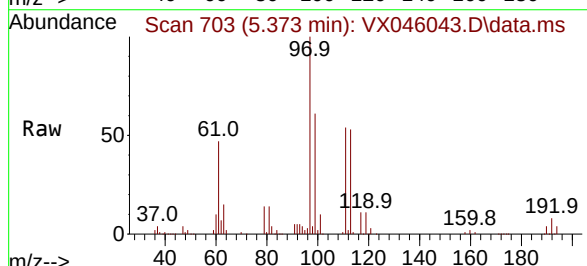
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

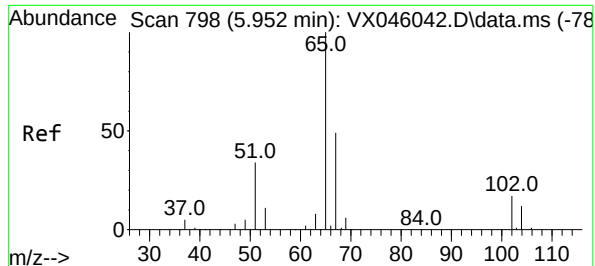


#32  
1,1,1-Trichloroethane  
Concen: 73.635 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion: 97 Resp: 201112  
Ion Ratio Lower Upper  
97 100  
99 63.8 51.8 77.6  
61 48.7 40.1 60.1







#33

1,2-Dichloroethane-d4

Concen: 62.526 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 16187

Ion Ratio Lower Upper

65 100

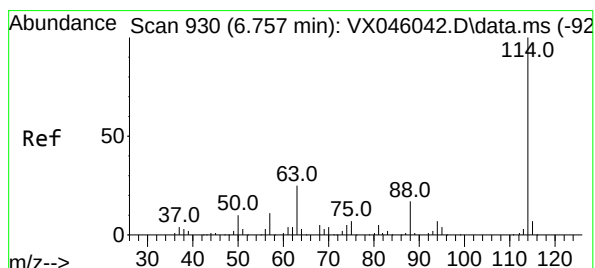
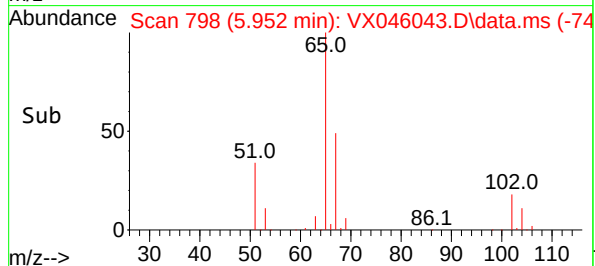
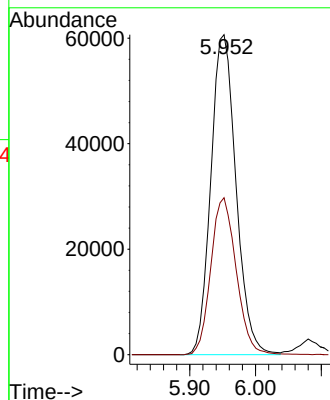
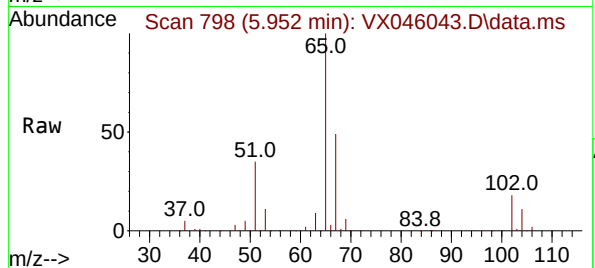
67 49.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

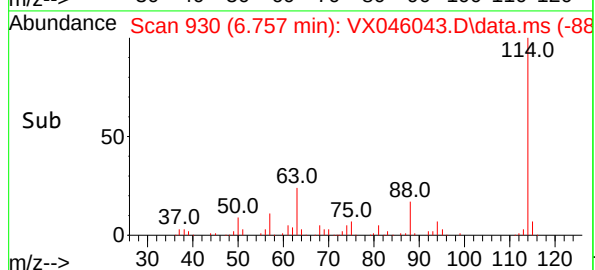
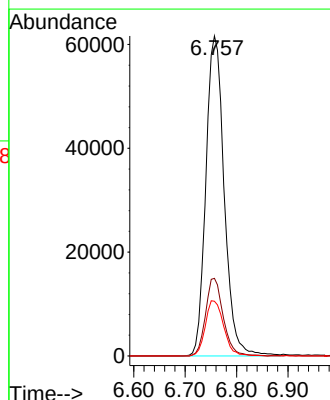
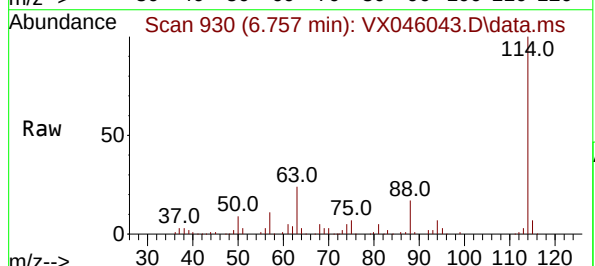
Tgt Ion:114 Resp: 152958

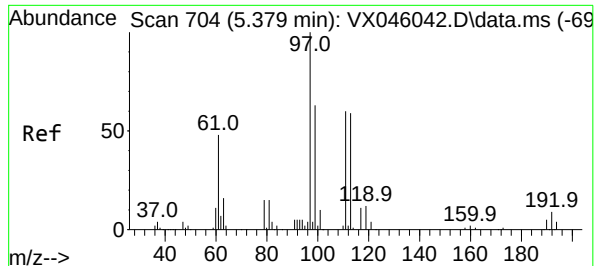
Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.2

88 17.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 65.006 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 11145

Ion Ratio Lower Upper

113 100

111 101.7 83.1 124.7

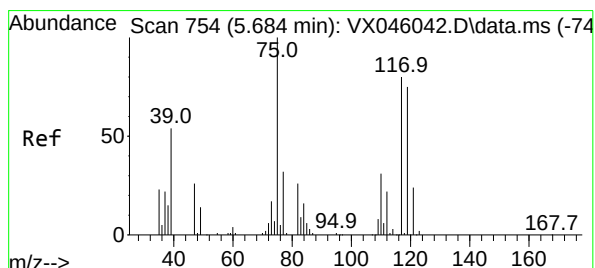
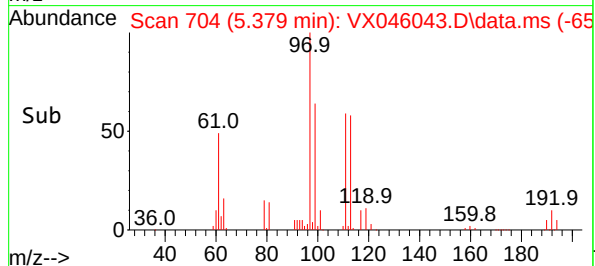
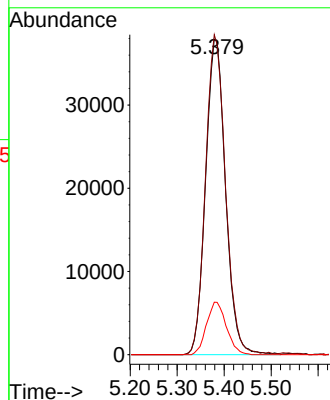
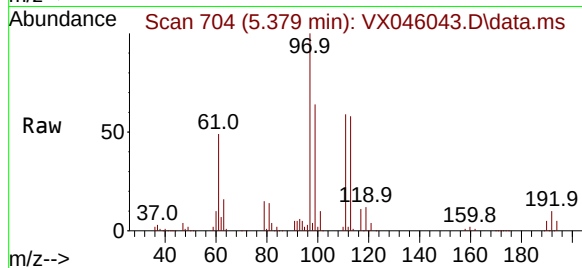
192 16.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#36

1,1-Dichloropropene

Concen: 74.285 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

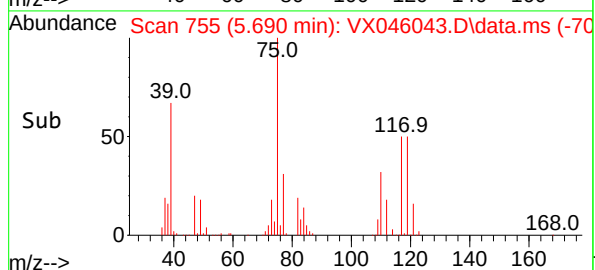
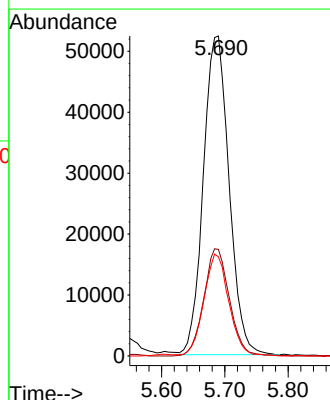
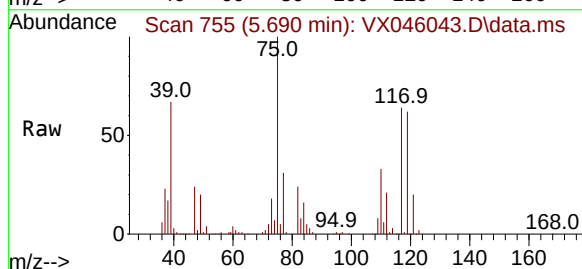
Tgt Ion: 75 Resp: 147873

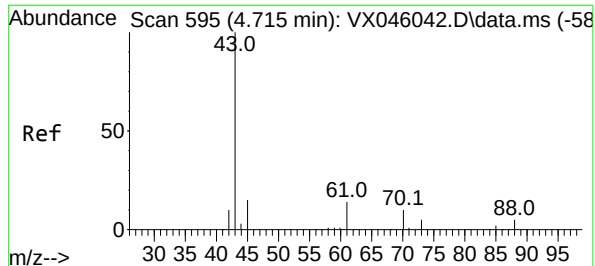
Ion Ratio Lower Upper

75 100

110 33.5 16.3 48.9

77 31.1 24.3 36.5





#37

Ethyl Acetate

Concen: 74.565 ug/l

RT: 4.714 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 186215

Ion Ratio Lower Upper

43 100

61 12.4 10.3 15.5

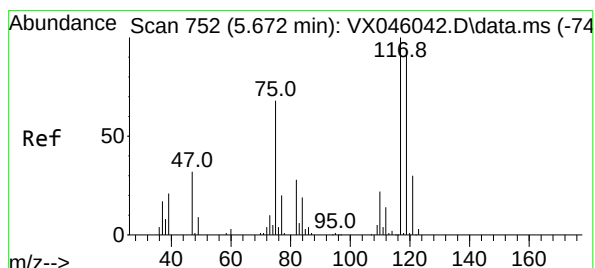
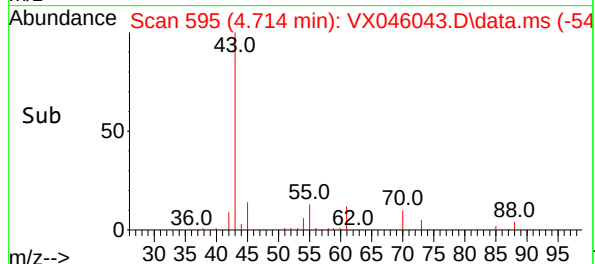
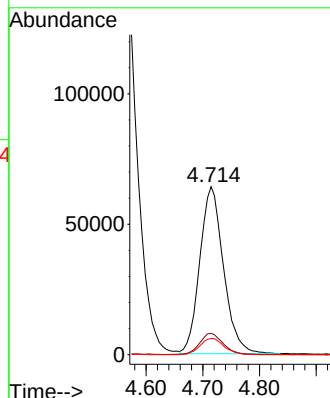
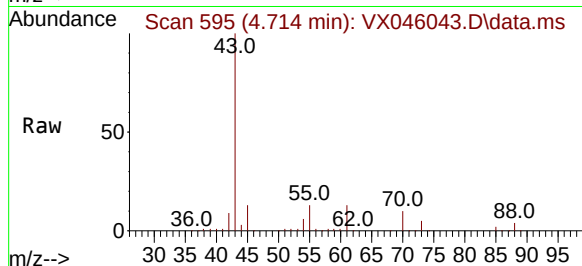
70 9.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#38

Carbon Tetrachloride

Concen: 73.875 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

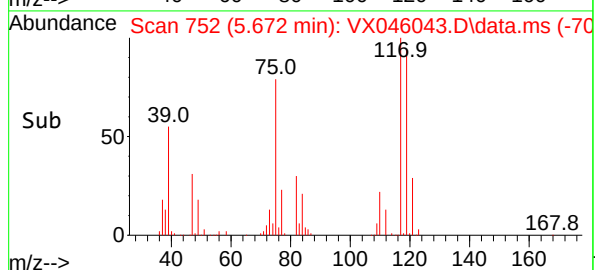
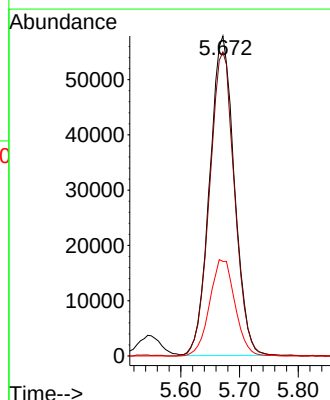
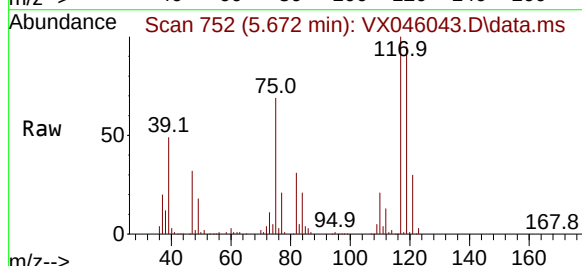
Tgt Ion:117 Resp: 168946

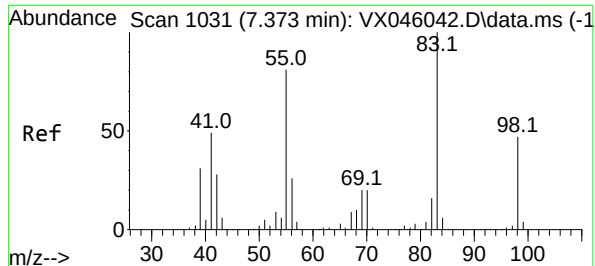
Ion Ratio Lower Upper

117 100

119 95.0 75.2 112.8

121 29.6 24.2 36.4





#39

Methylcyclohexane

Concen: 76.952 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 19194

Ion Ratio Lower Upper

83 100

55 84.2 64.7 97.1

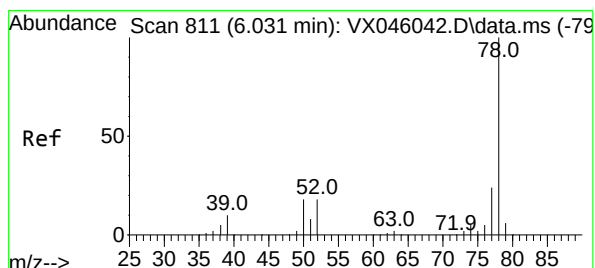
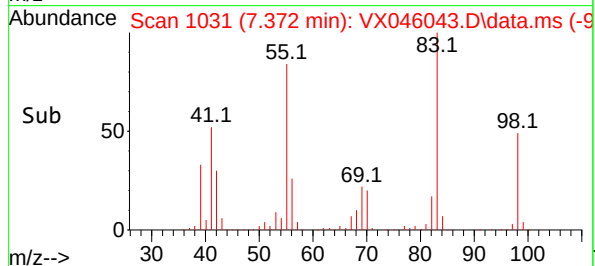
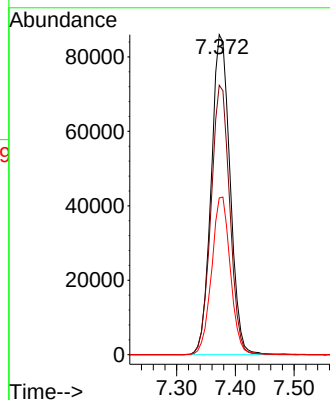
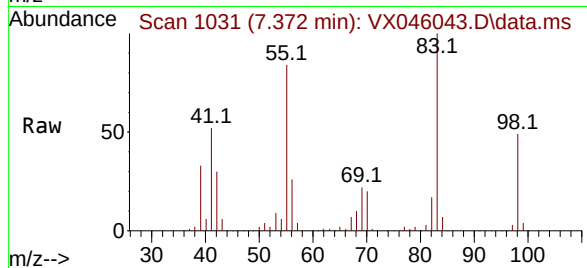
98 49.0 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#40

Benzene

Concen: 71.457 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX046043.D

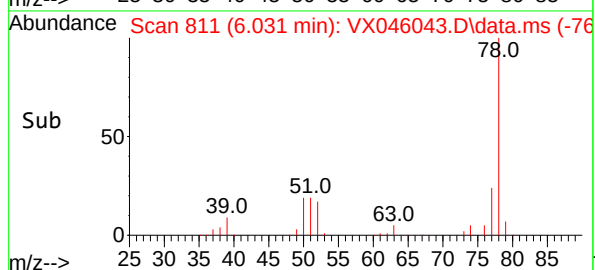
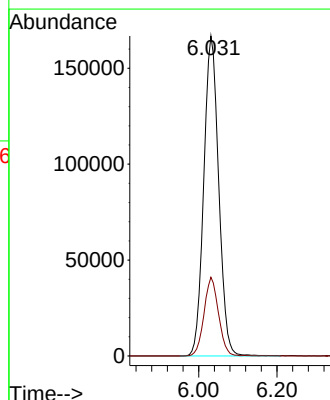
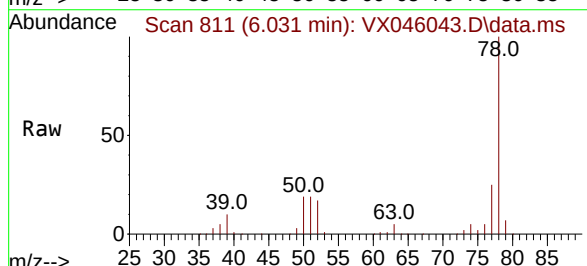
Acq: 05 May 2025 12:21

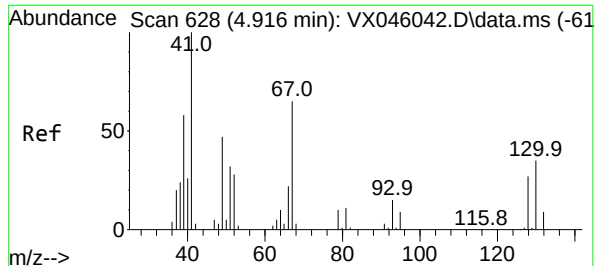
Tgt Ion: 78 Resp: 440885

Ion Ratio Lower Upper

78 100

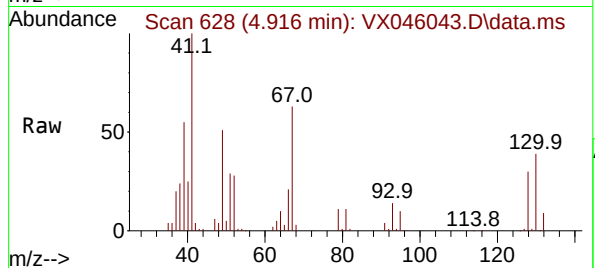
77 24.6 19.0 28.4





#41  
Methacrylonitrile  
Concen: 75.574 ug/l  
RT: 4.916 min Scan# 612  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

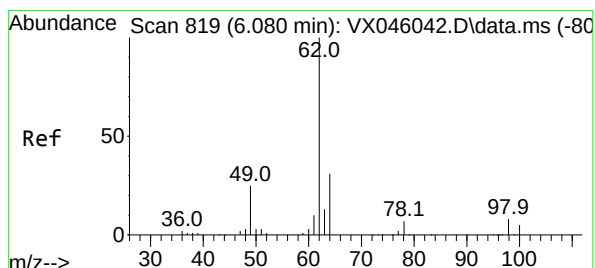
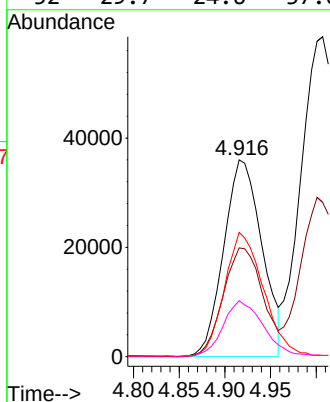
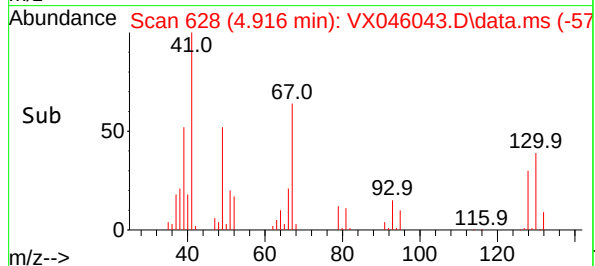
Instrument :  
MSVOA\_X  
Client Sample Id :  
VSTDIC100



Tgt Ion: 41 Resp: 10486  
Ion Ratio Lower Upper  
41 100  
39 57.0 47.2 70.8  
67 64.6 50.7 76.1  
52 29.7 24.6 37.0

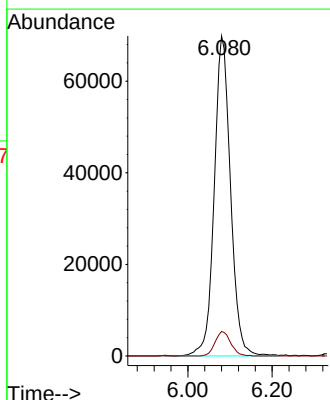
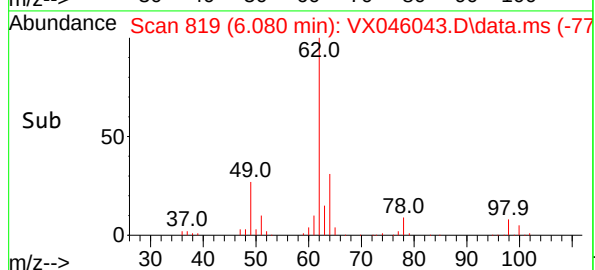
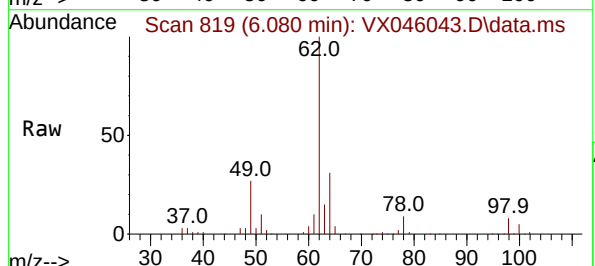
Manual Integrations  
APPROVED

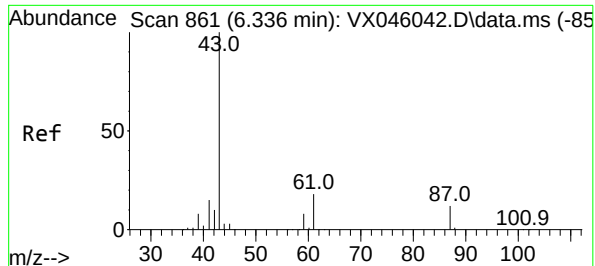
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#42  
1,2-Dichloroethane  
Concen: 73.318 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 187036  
Ion Ratio Lower Upper  
62 100  
98 7.4 0.0 15.2





#43

Isopropyl Acetate

Concen: 78.714 ug/l

RT: 6.342 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX046043.D

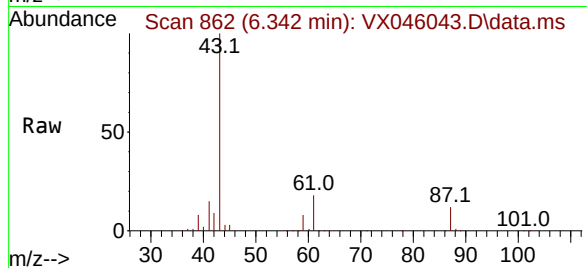
Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100



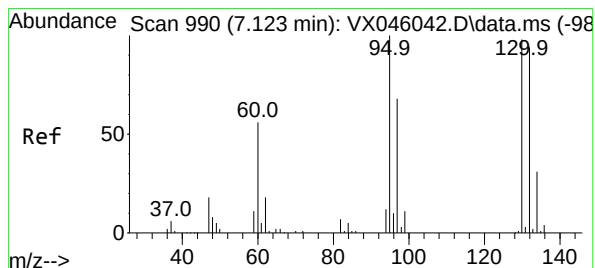
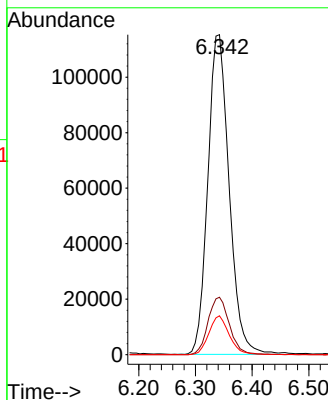
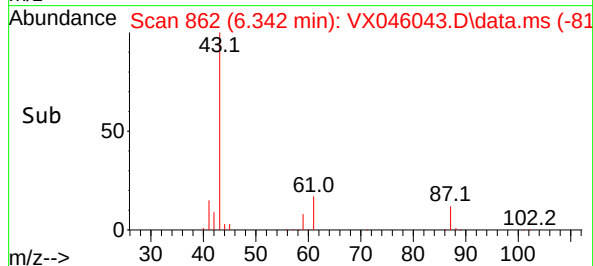
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 30049 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 18.0  | 14.3  | 21.5  |
| 87        | 11.6  | 9.5   | 14.3  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#44

Trichloroethene

Concen: 72.420 ug/l

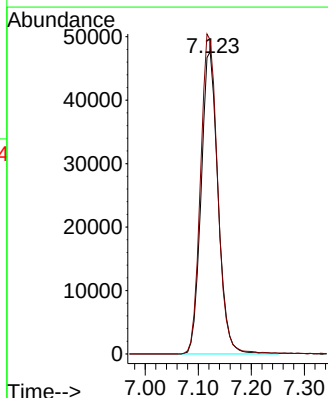
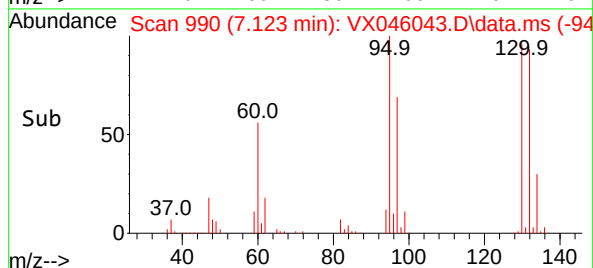
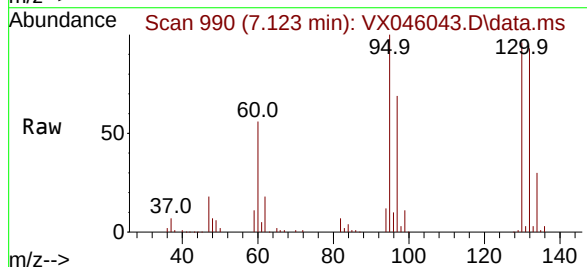
RT: 7.123 min Scan# 990

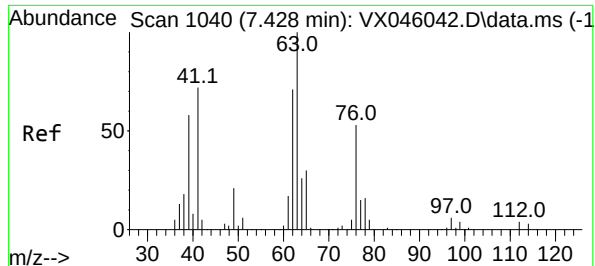
Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 130   | Resp: | 105628 |
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 103.8 | 0.0   | 204.2  |





#45

1,2-Dichloropropane

Concen: 73.420 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 112554

Ion Ratio Lower Upper

63 100

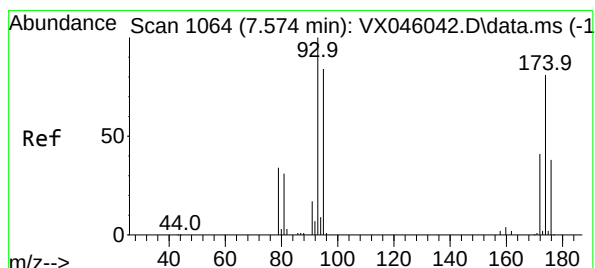
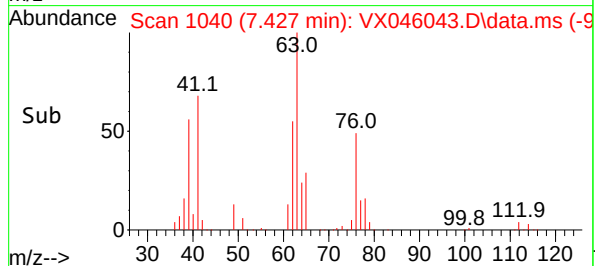
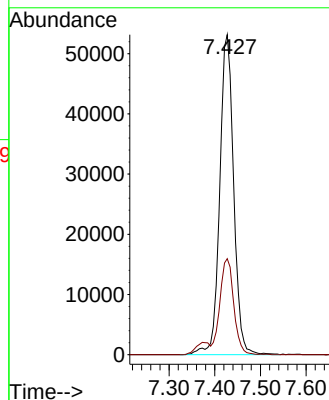
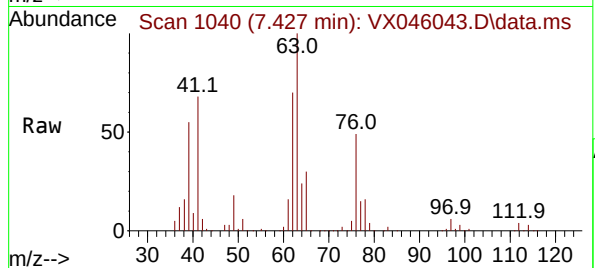
65 30.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#46

Dibromomethane

Concen: 70.938 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

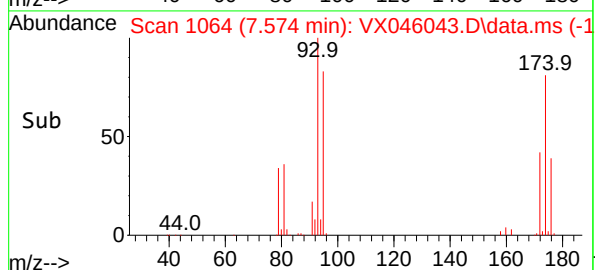
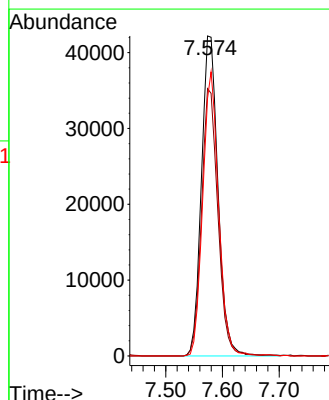
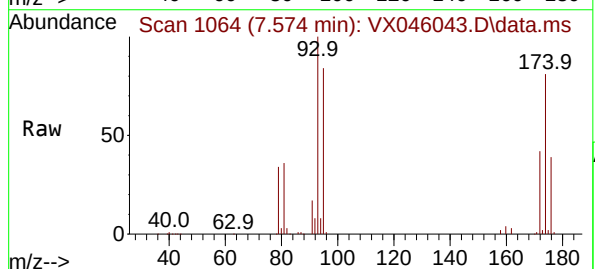
Tgt Ion: 93 Resp: 85728

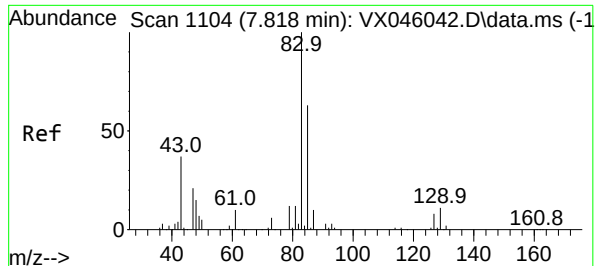
Ion Ratio Lower Upper

93 100

95 82.4 65.6 98.4

174 85.0 68.2 102.2





#47

Bromodichloromethane

Concen: 74.845 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 17530

Ion Ratio Lower Upper

83 100

85 63.6 50.5 75.7

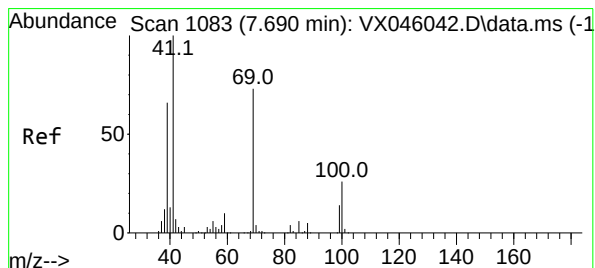
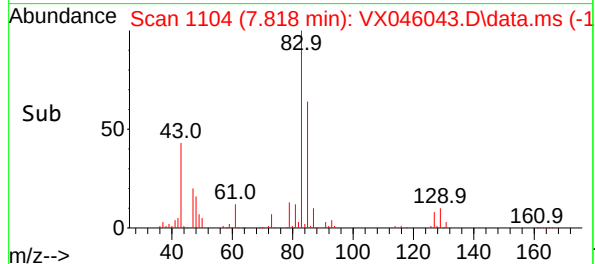
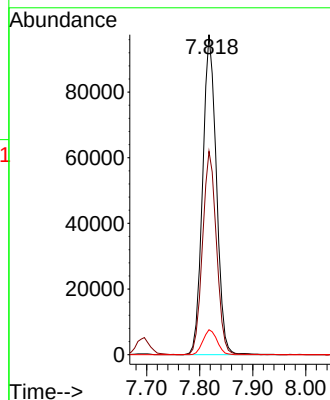
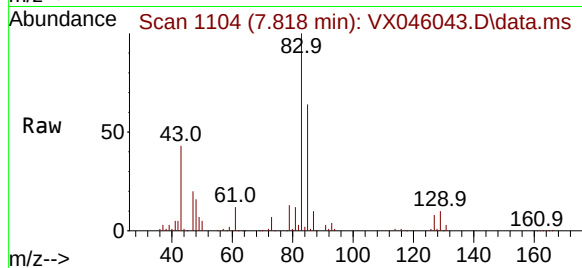
127 7.8 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#48

Methyl methacrylate

Concen: 78.101 ug/l

RT: 7.689 min Scan# 1083

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

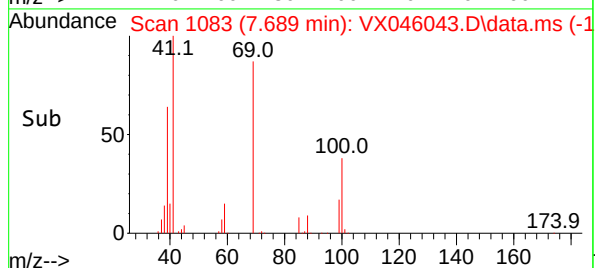
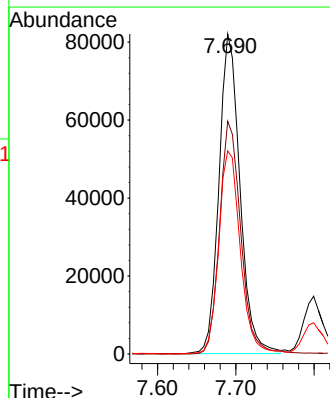
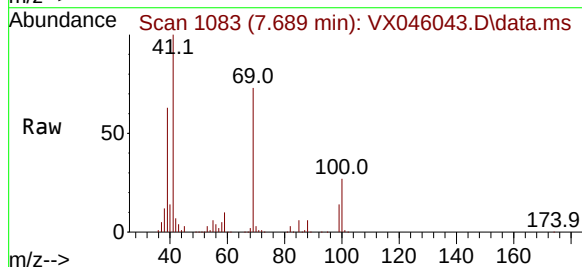
Tgt Ion: 41 Resp: 153093

Ion Ratio Lower Upper

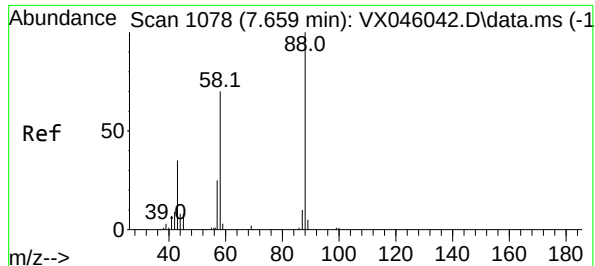
41 100

69 74.1 58.5 87.7

39 65.5 51.7 77.5







#49

1,4-Dioxane

Concen: 1470.687 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 5731

Ion Ratio Lower Upper

88 100

43 40.1 33.4 50.2

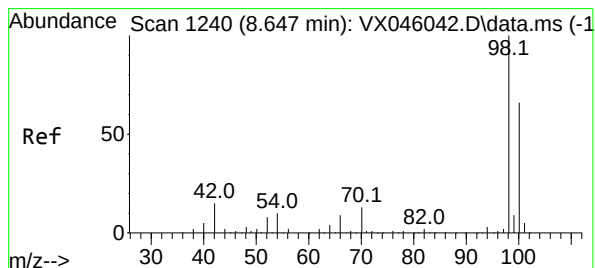
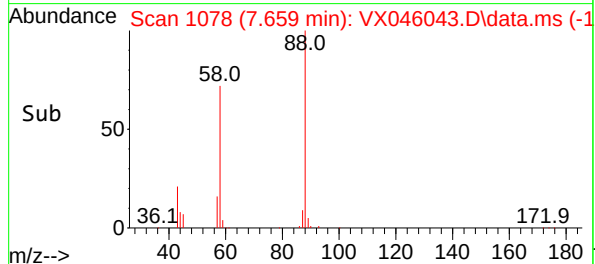
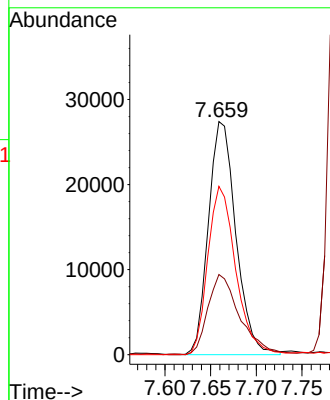
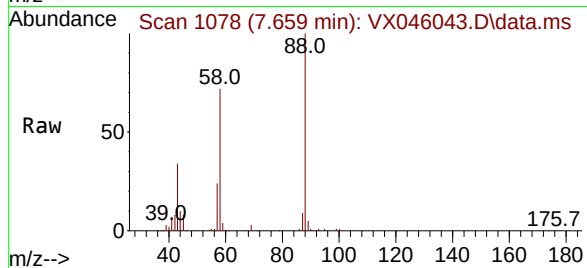
58 73.3 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#50

Toluene-d8

Concen: 67.031 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX046043.D

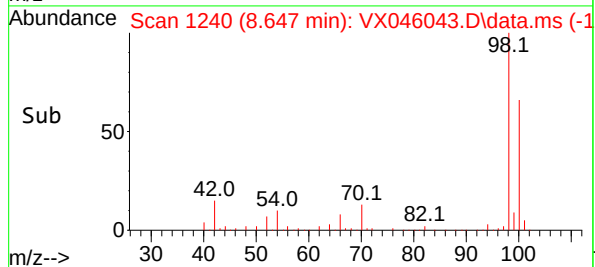
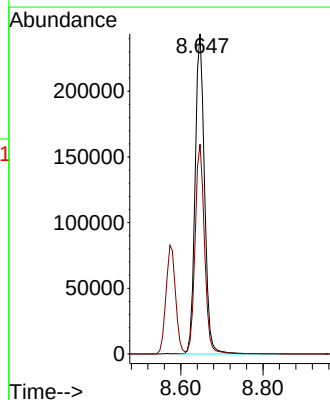
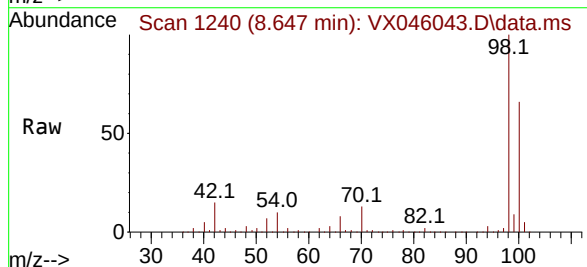
Acq: 05 May 2025 12:21

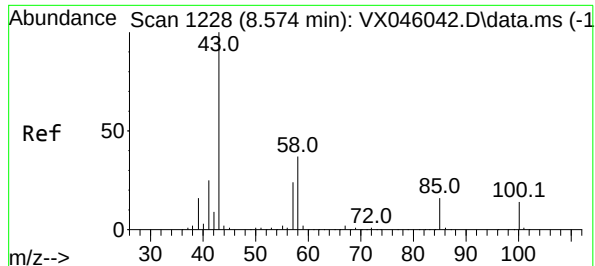
Tgt Ion: 98 Resp: 387230

Ion Ratio Lower Upper

98 100

100 65.2 53.5 80.3





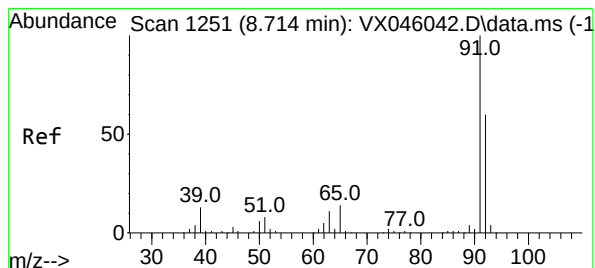
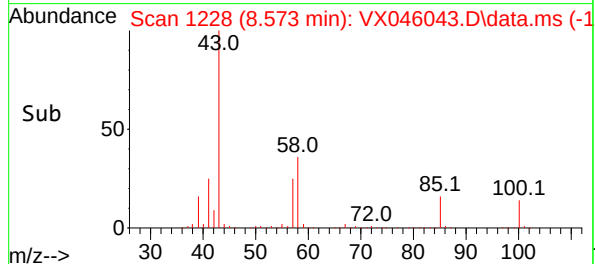
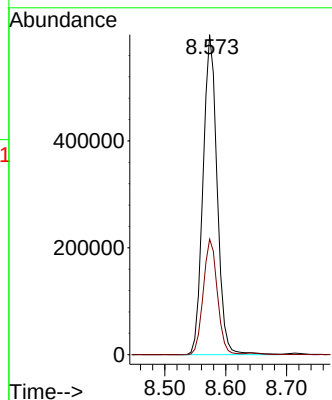
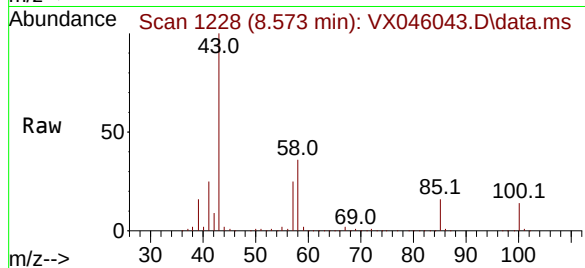
#51  
4-Methyl-2-Pentanone  
Concen: 384.740 ug/l  
RT: 8.573 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 43 Resp: 963319  
Ion Ratio Lower Upper  
43 100  
58 36.1 28.9 43.3

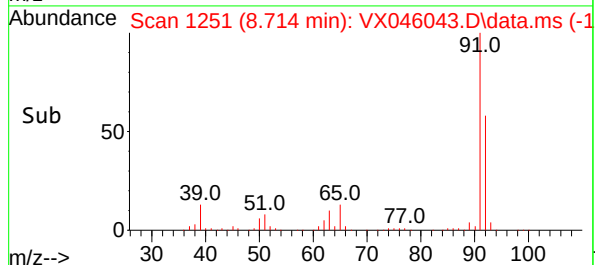
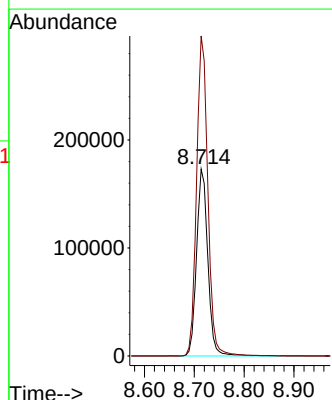
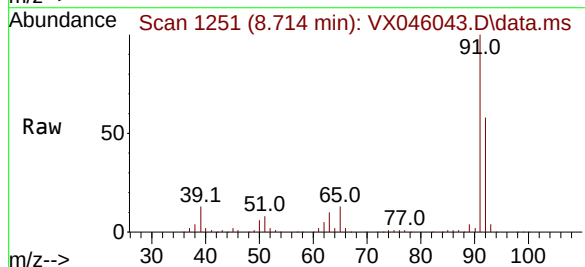
Manual Integrations  
APPROVED

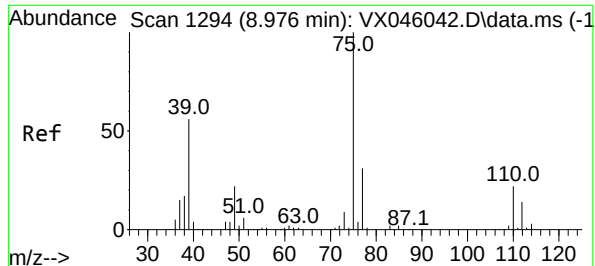
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#52  
Toluene  
Concen: 74.010 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion: 92 Resp: 270763  
Ion Ratio Lower Upper  
92 100  
91 171.2 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 86.372 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 16986

Ion Ratio Lower Upper

75 100

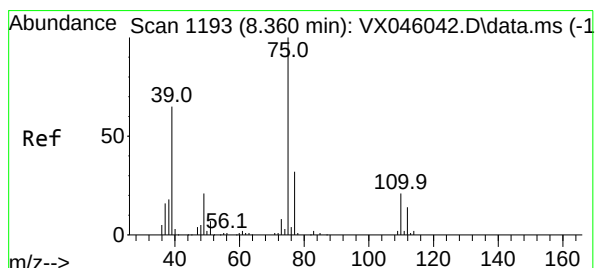
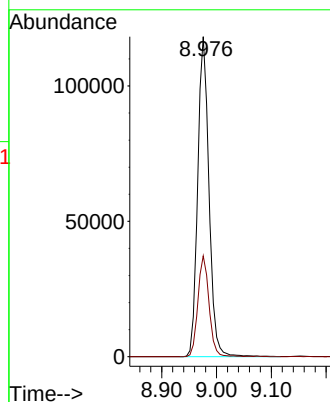
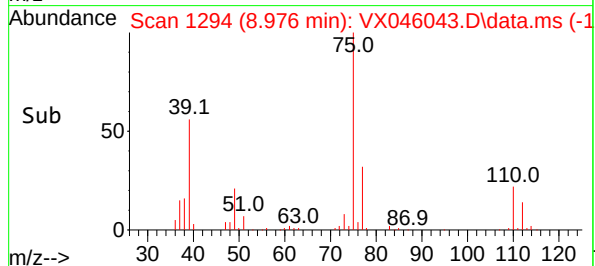
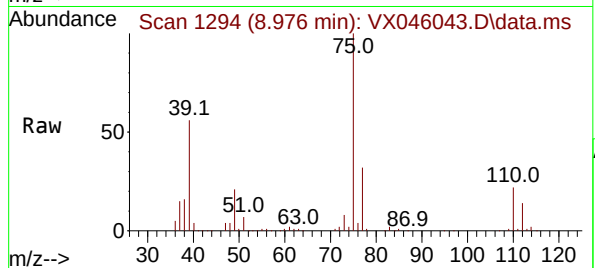
77 31.5 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#54

cis-1,3-Dichloropropene

Concen: 80.264 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

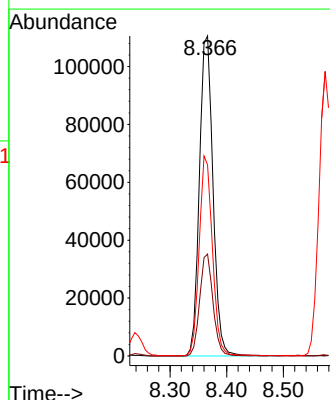
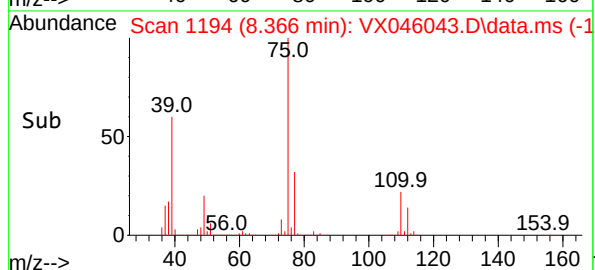
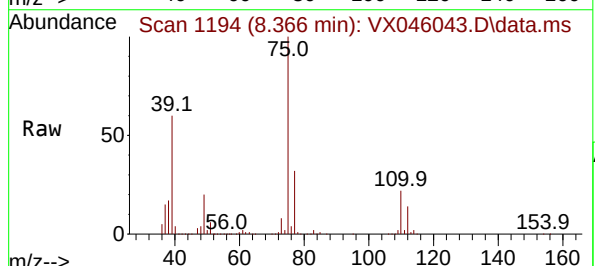
Tgt Ion: 75 Resp: 184134

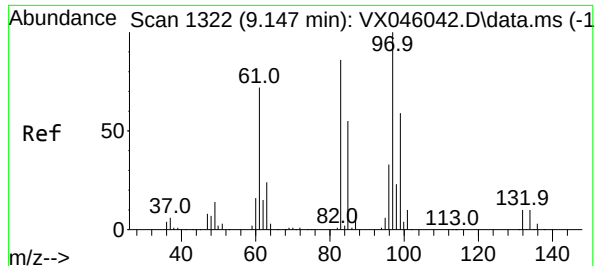
Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0

39 59.6 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 72.543 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 107264

Ion Ratio Lower Upper

97 100

83 86.8 69.0 103.6

85 56.4 44.3 66.5

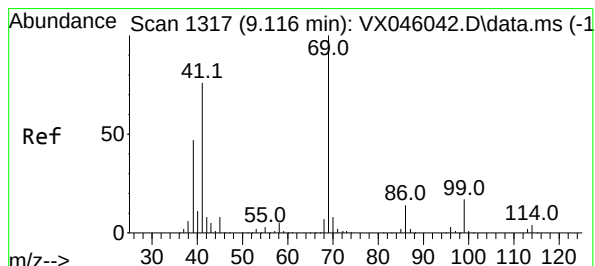
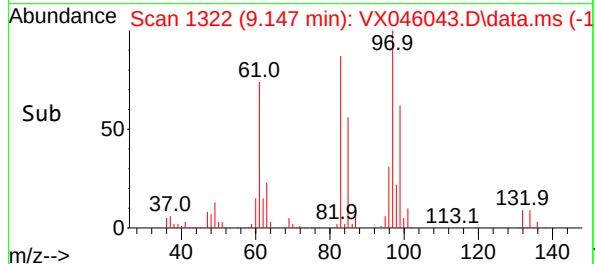
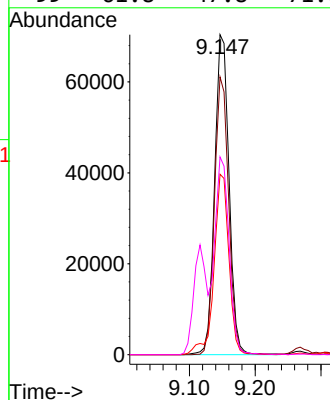
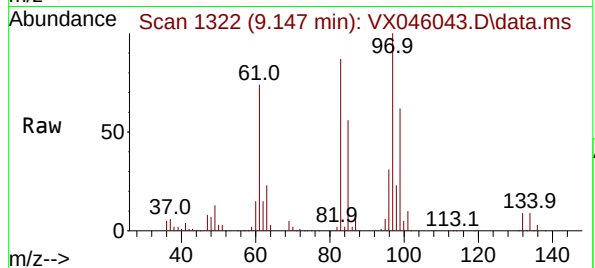
99 61.8 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#56

Ethyl methacrylate

Concen: 82.359 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

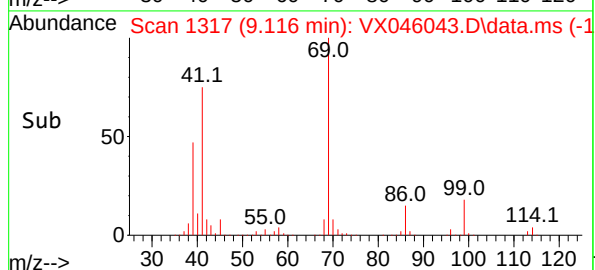
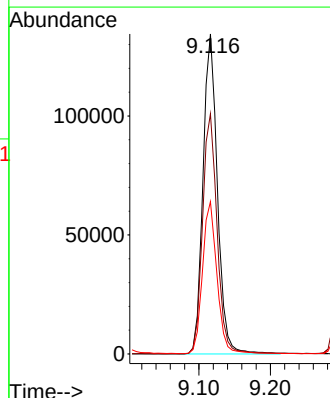
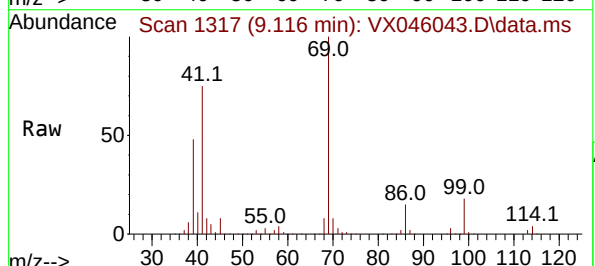
Tgt Ion: 69 Resp: 188717

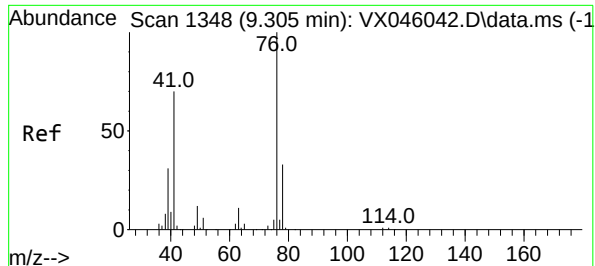
Ion Ratio Lower Upper

69 100

41 75.7 60.8 91.2

39 47.7 39.0 58.6





#57

1,3-Dichloropropane

Concen: 71.590 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 187649

Ion Ratio Lower Upper

76 100

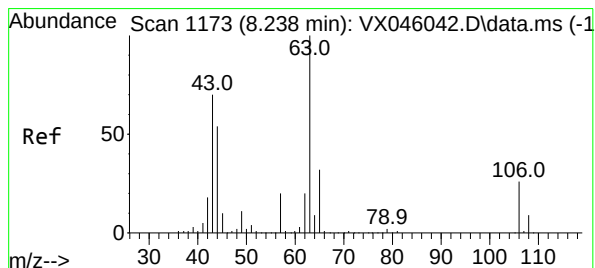
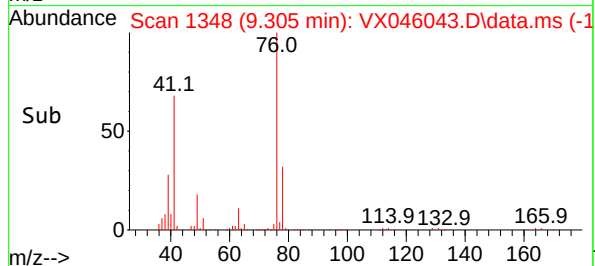
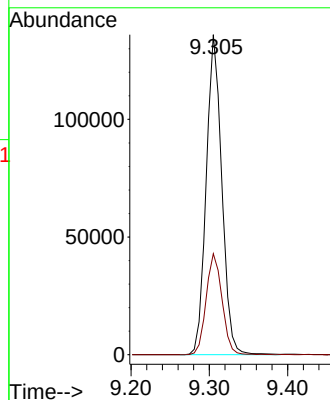
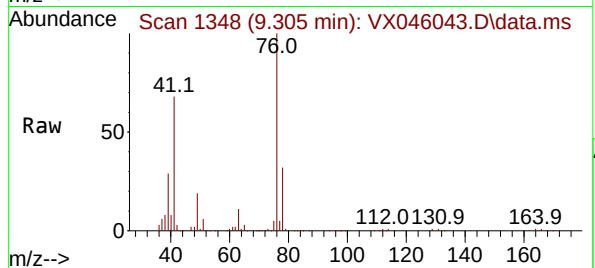
78 32.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 449.791 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046043.D

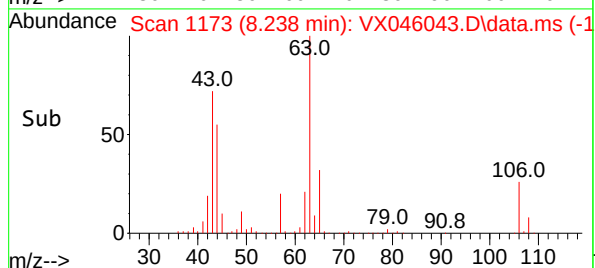
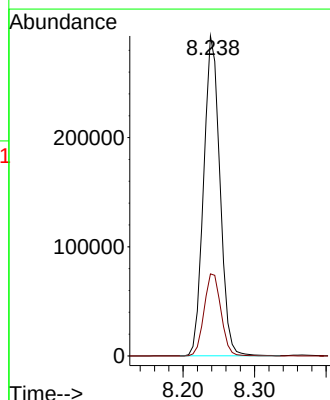
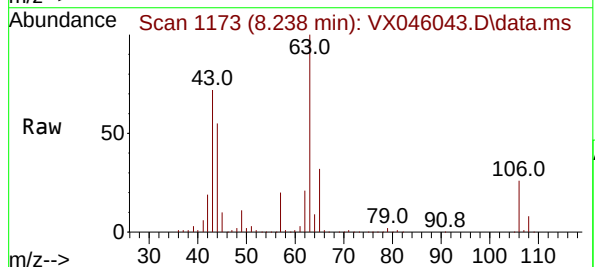
Acq: 05 May 2025 12:21

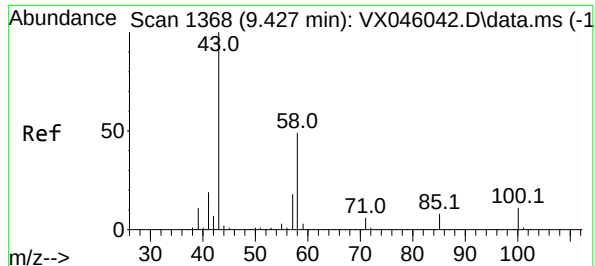
Tgt Ion: 63 Resp: 463169

Ion Ratio Lower Upper

63 100

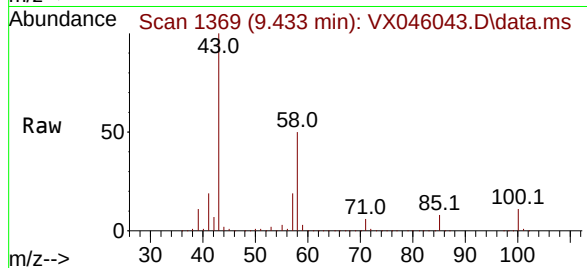
106 26.7 21.5 32.3





#59  
2-Hexanone  
Concen: 383.945 ug/l  
RT: 9.433 min Scan# 1369  
Delta R.T. 0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

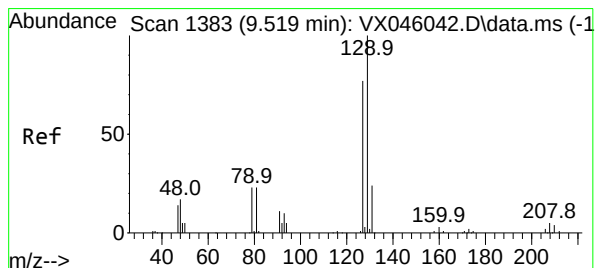
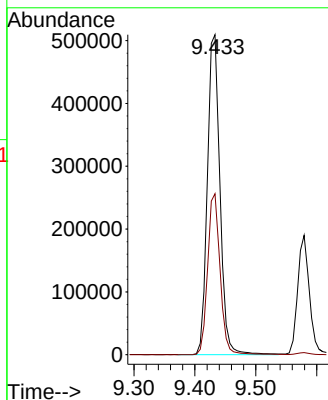
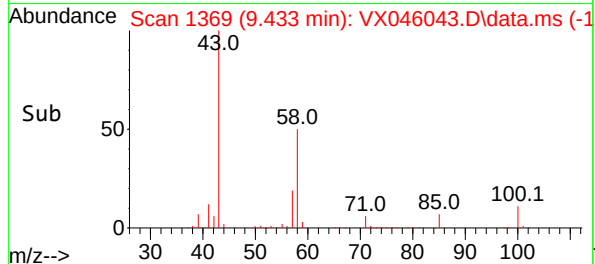
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 43 Resp: 729602  
Ion Ratio Lower Upper  
43 100  
58 49.9 24.9 74.6

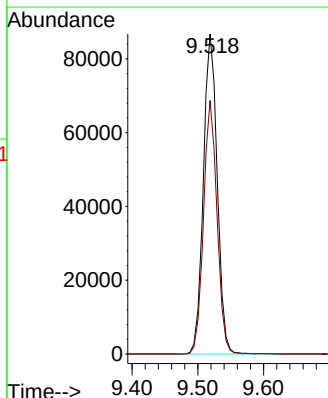
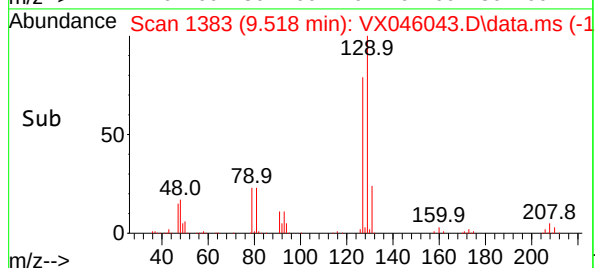
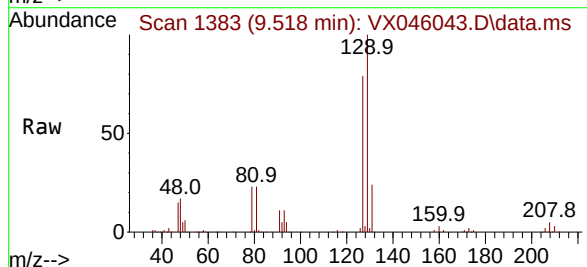
Manual Integrations  
APPROVED

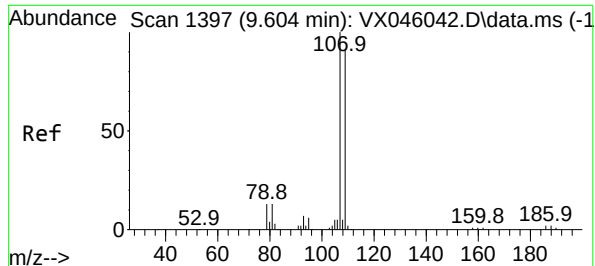
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#60  
Dibromochloromethane  
Concen: 78.918 ug/l  
RT: 9.518 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:129 Resp: 127012  
Ion Ratio Lower Upper  
129 100  
127 77.0 39.3 117.8





#61

1,2-Dibromoethane

Concen: 74.200 ug/l

RT: 9.610 min Scan# 11266

Delta R.T. 0.006 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion:107 Resp: 11266

Ion Ratio Lower Upper

107 100

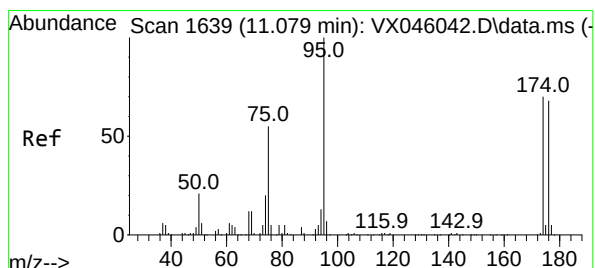
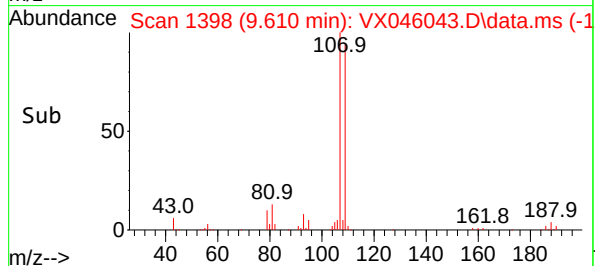
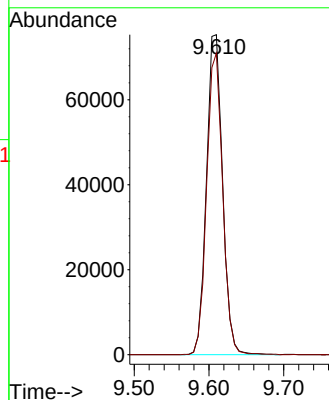
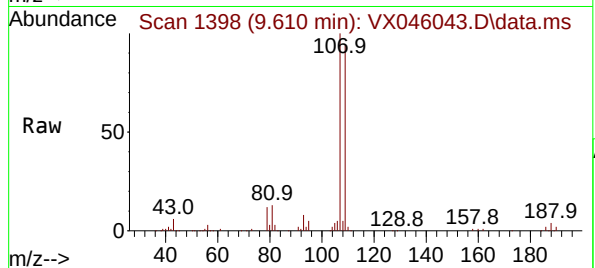
109 93.9 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#62

4-Bromofluorobenzene

Concen: 72.818 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

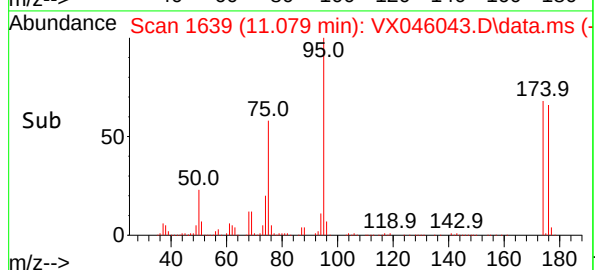
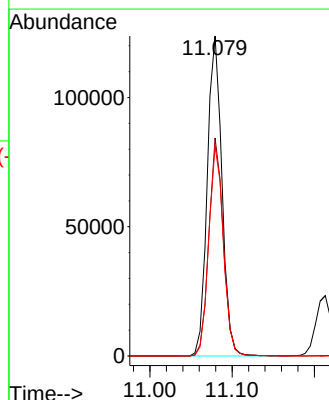
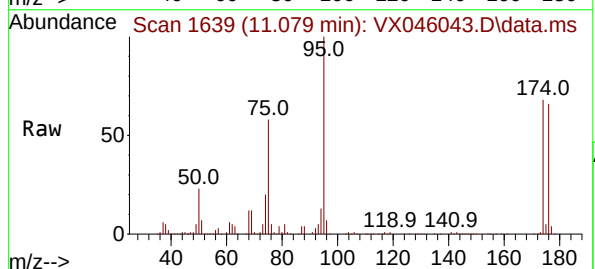
Tgt Ion: 95 Resp: 153085

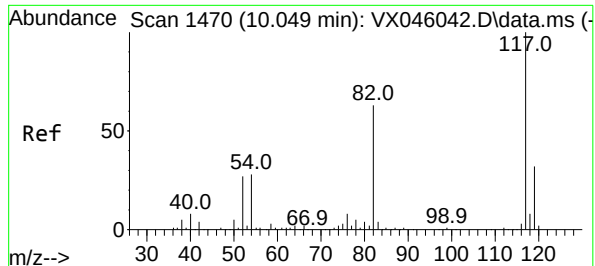
Ion Ratio Lower Upper

95 100

174 67.1 0.0 135.8

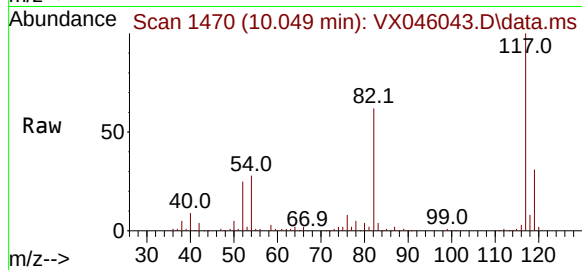
176 65.3 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

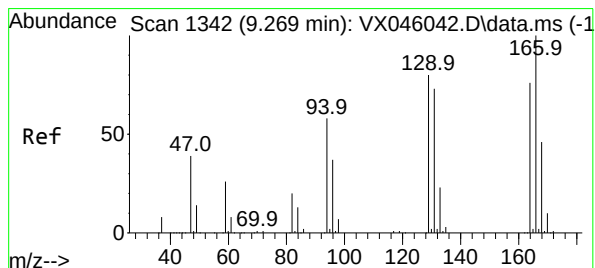
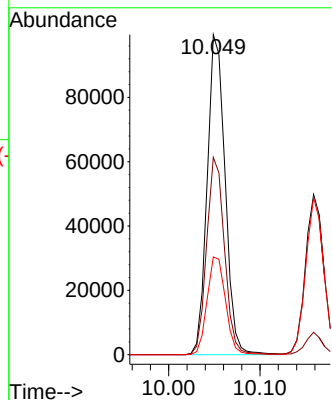
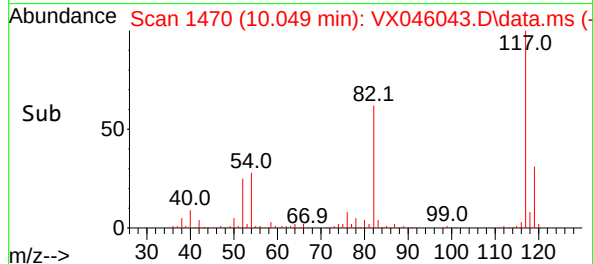
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:117 Resp: 135214  
Ion Ratio Lower Upper  
117 100  
82 61.7 50.6 76.0  
119 30.6 25.8 38.6

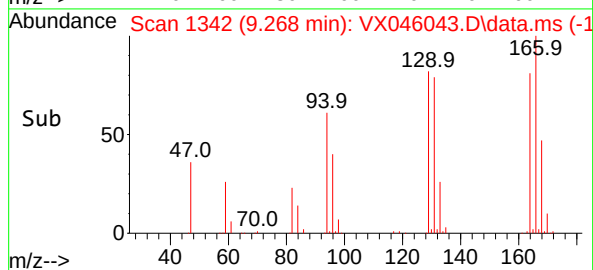
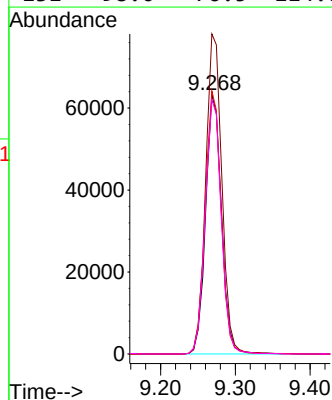
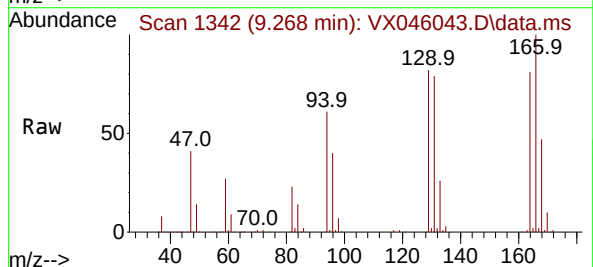
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

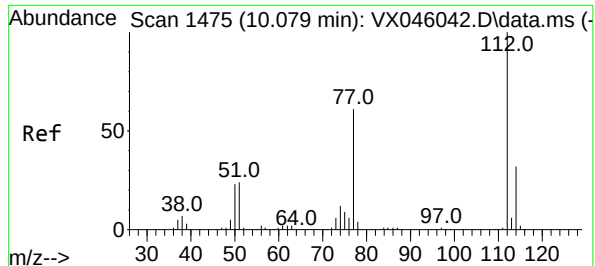


#64  
Tetrachloroethene  
Concen: 67.493 ug/l  
RT: 9.268 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:164 Resp: 93195  
Ion Ratio Lower Upper  
164 100  
166 123.4 105.0 157.6  
129 101.4 83.5 125.3  
131 98.0 76.5 114.7

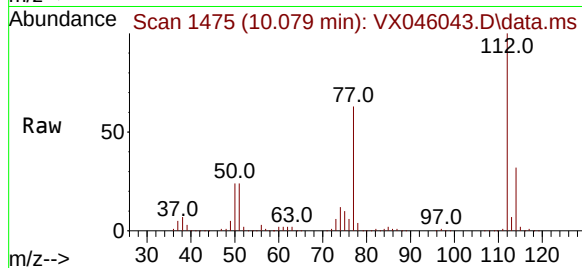






#65  
Chlorobenzene  
Concen: 70.490 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

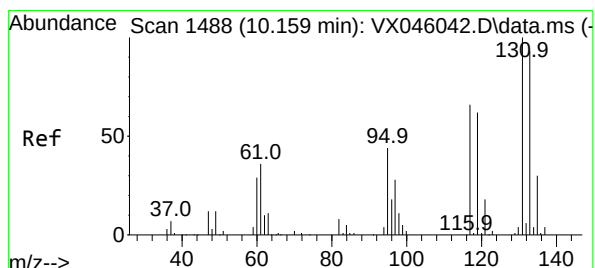
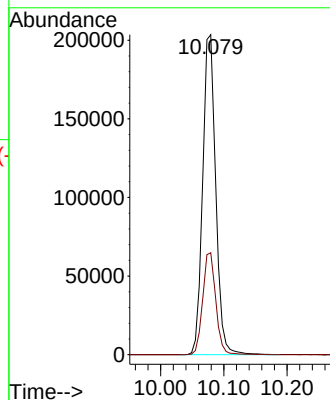
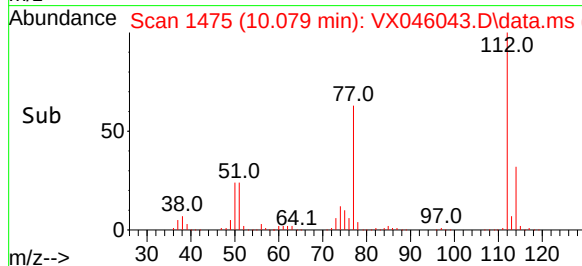
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:112 Resp: 293284  
Ion Ratio Lower Upper  
112 100  
114 31.9 25.4 38.2

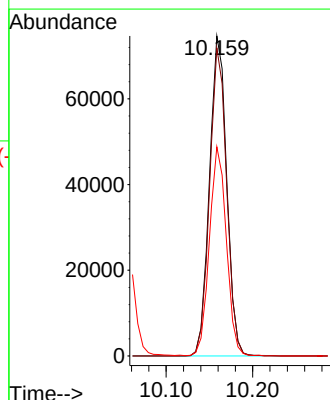
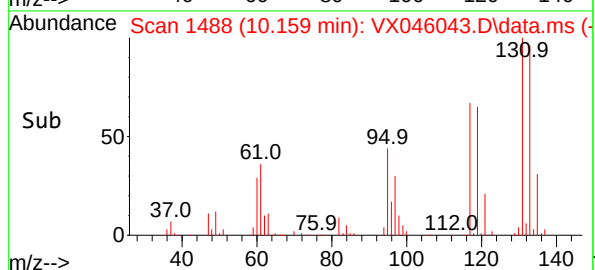
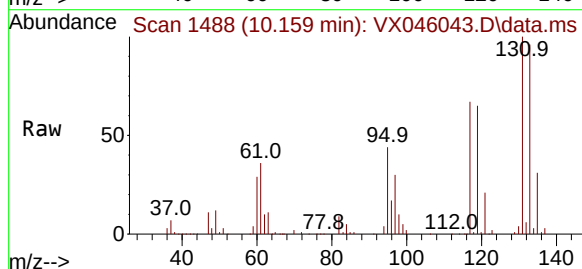
Manual Integrations  
APPROVED

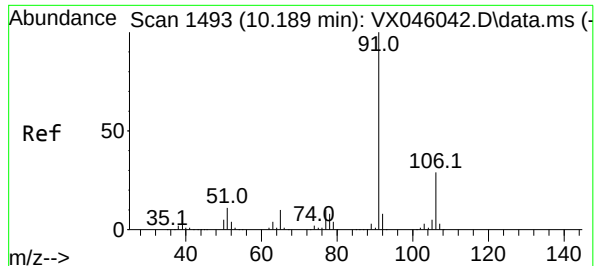
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 74.349 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

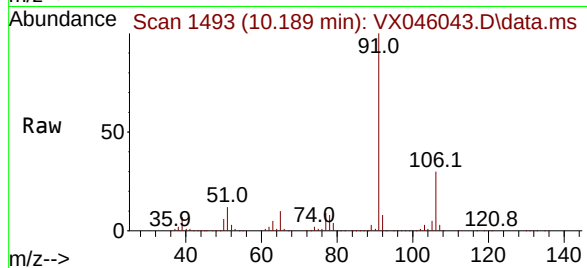
Tgt Ion:131 Resp: 103177  
Ion Ratio Lower Upper  
131 100  
133 95.3 47.3 141.9  
119 64.5 31.6 95.0





#67  
Ethyl Benzene  
Concen: 75.444 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

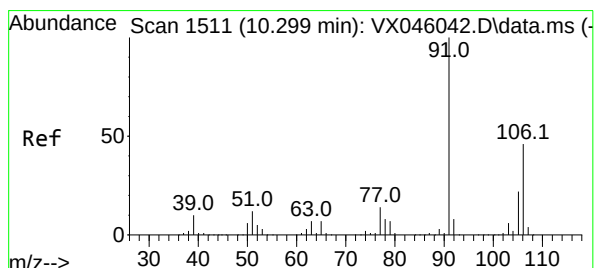
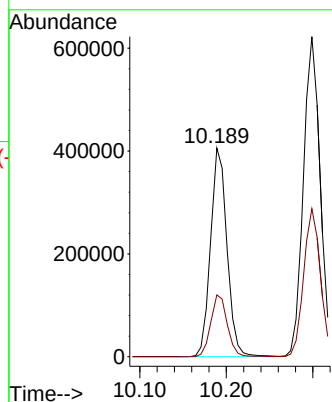
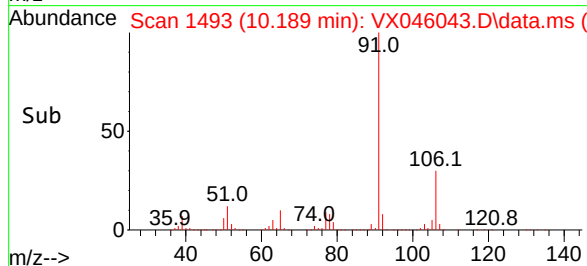
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 91 Resp: 53512  
Ion Ratio Lower Upper  
91 100  
106 29.6 23.4 35.2

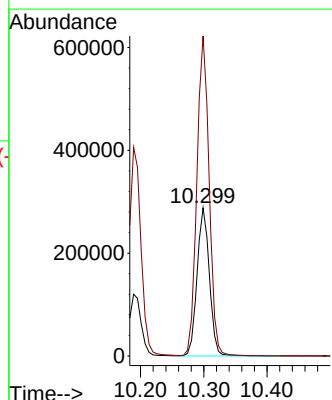
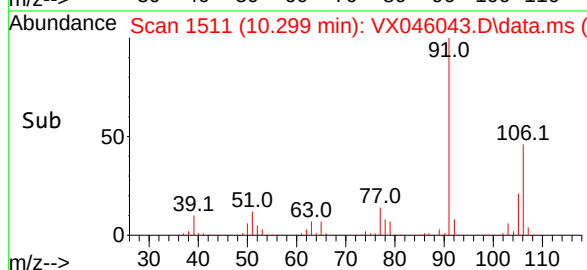
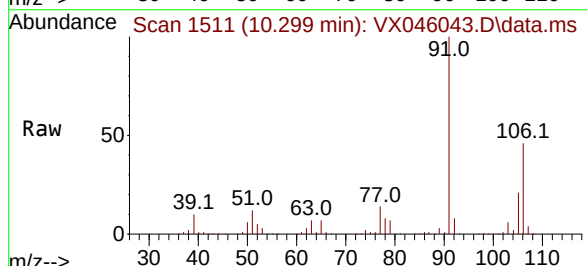
Manual Integrations  
APPROVED

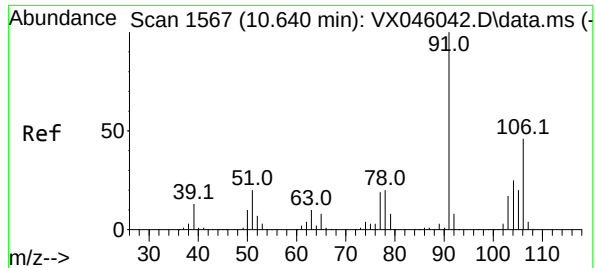
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#68  
m/p-Xylenes  
Concen: 152.181 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:106 Resp: 389935  
Ion Ratio Lower Upper  
106 100  
91 215.8 171.2 256.8





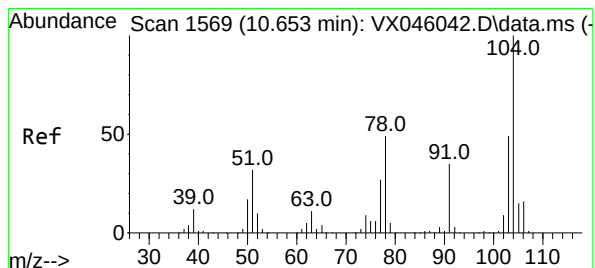
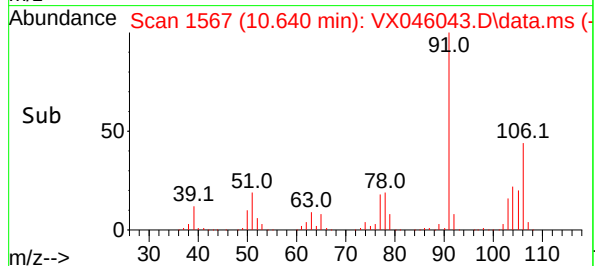
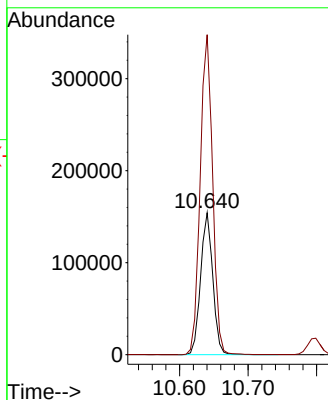
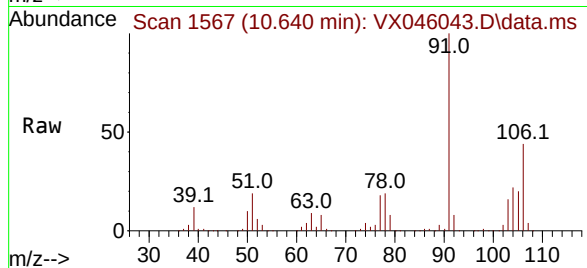
#69  
o-Xylene  
Concen: 73.890 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion:106 Resp: 190833  
Ion Ratio Lower Upper  
106 100  
91 230.3 112.7 338.1

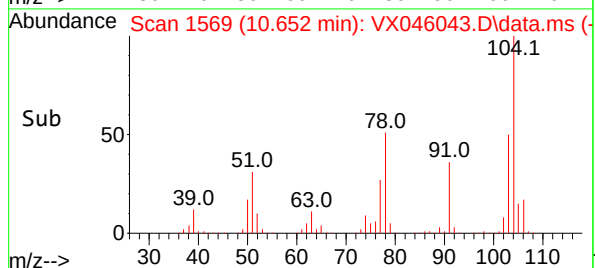
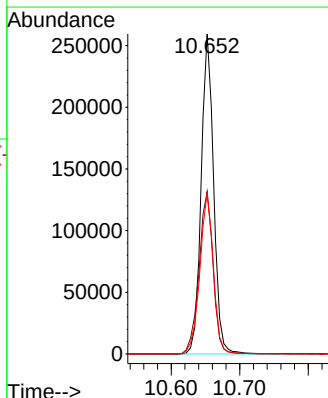
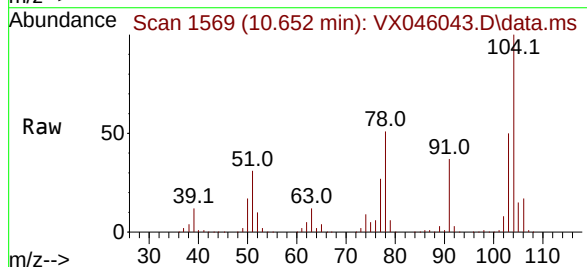
Manual Integrations  
APPROVED

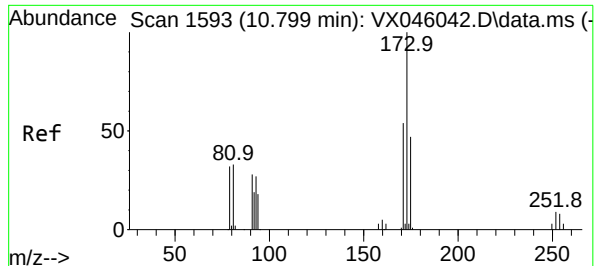
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#70  
Styrene  
Concen: 79.411 ug/l  
RT: 10.652 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

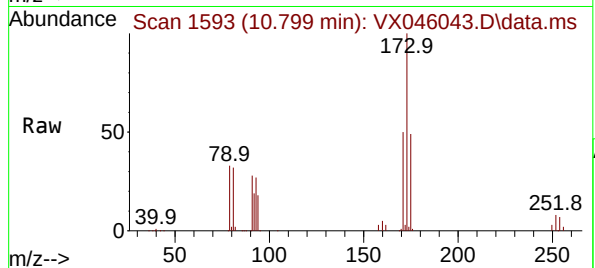
Tgt Ion:104 Resp: 328195  
Ion Ratio Lower Upper  
104 100  
78 57.4 45.7 68.5  
103 54.8 43.7 65.5





#71  
Bromoform  
Concen: 80.927 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

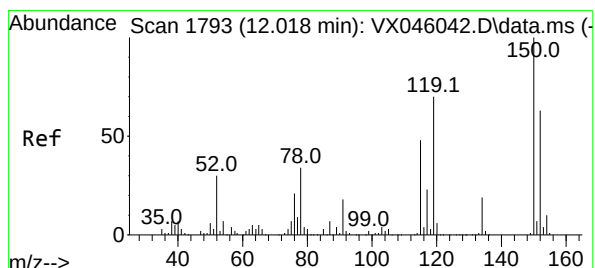
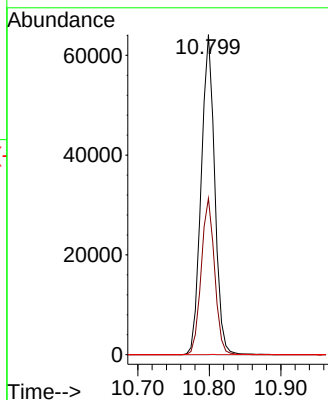
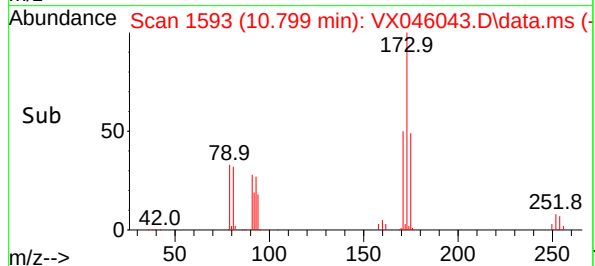
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:173 Resp: 8435  
Ion Ratio Lower Upper  
173 100  
175 48.3 23.4 70.0  
254 0.0 0.0 0.0

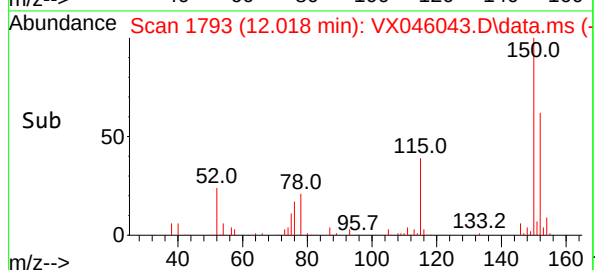
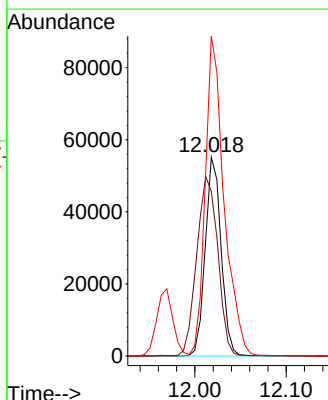
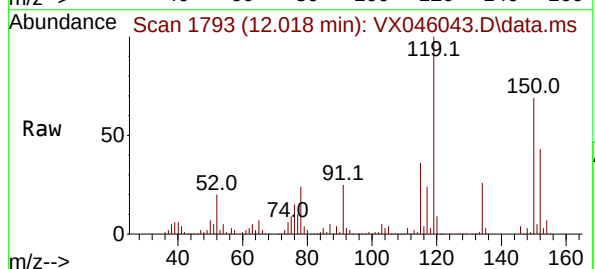
Manual Integrations  
APPROVED

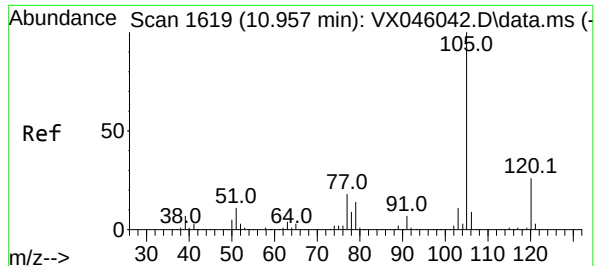
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:152 Resp: 66369  
Ion Ratio Lower Upper  
152 100  
115 120.4 46.9 140.7  
150 190.4 0.0 351.0





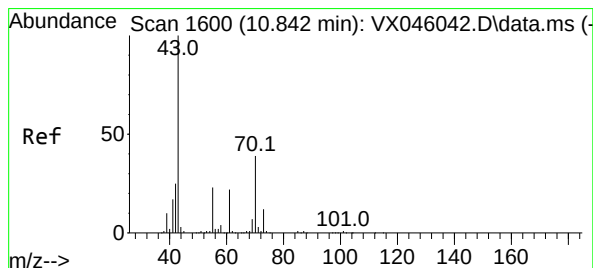
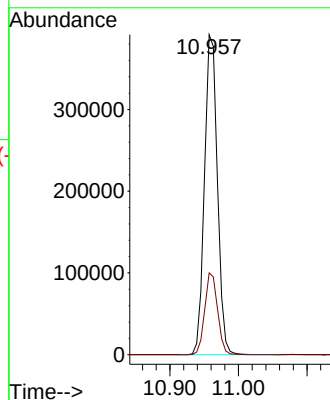
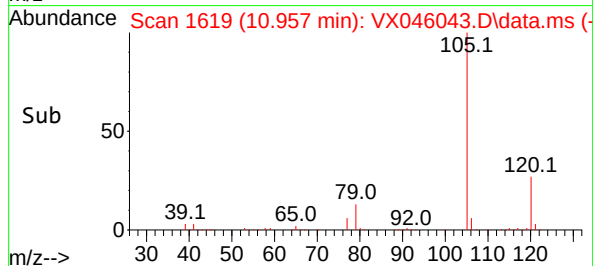
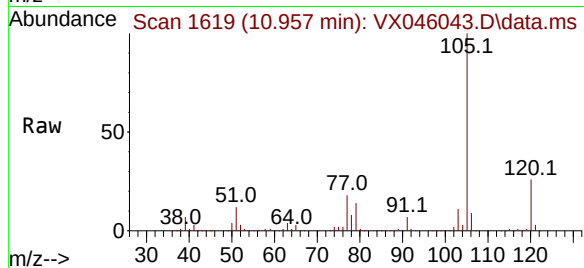
#73  
Isopropylbenzene  
Concen: 71.083 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tgt Ion:105 Resp: 514528  
Ion Ratio Lower Upper  
105 100  
120 25.4 12.8 38.4

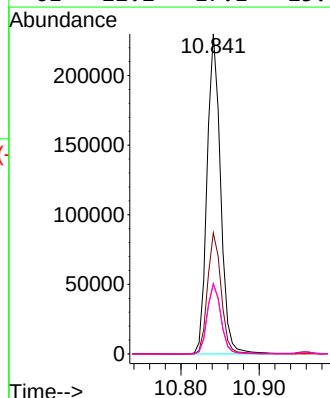
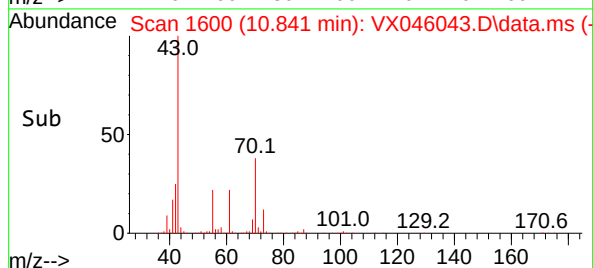
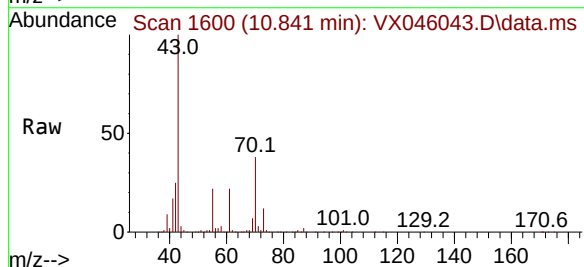
Manual Integrations  
APPROVED

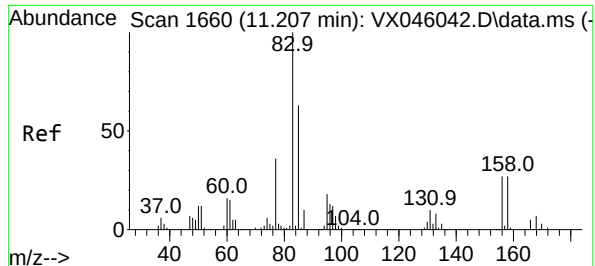
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#74  
N-ethyl acetate  
Concen: 76.073 ug/l  
RT: 10.841 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 274553  
Ion Ratio Lower Upper  
43 100  
70 38.2 30.9 46.3  
55 22.5 18.7 28.1  
61 22.2 17.1 25.7





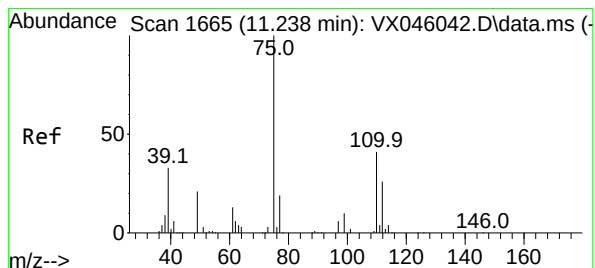
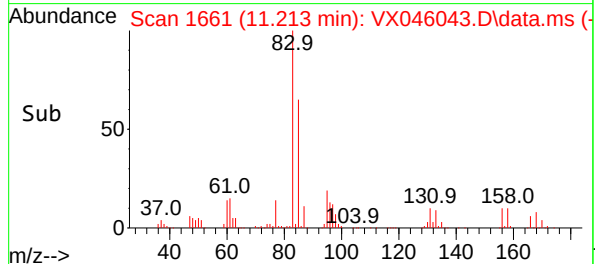
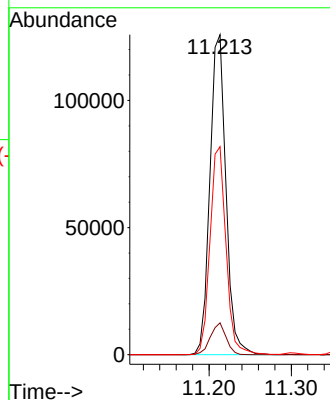
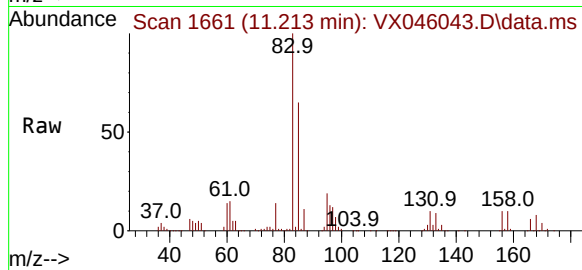
#75  
1,1,2,2-Tetrachloroethane  
Concen: 66.207 ug/l  
RT: 11.213 min Scan# 1661  
Delta R.T. 0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 83 Resp: 17048  
Ion Ratio Lower Upper  
83 100  
131 9.7 5.0 14.9  
85 64.9 31.9 95.7

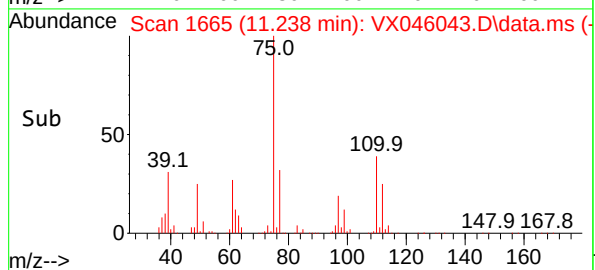
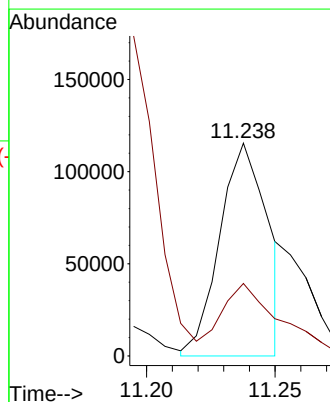
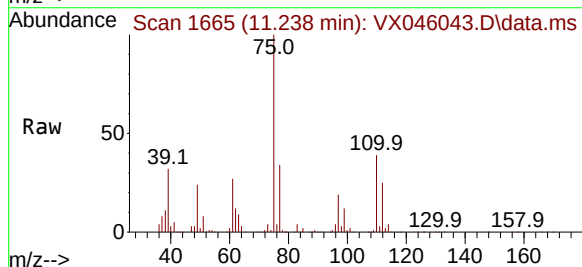
Manual Integrations  
APPROVED

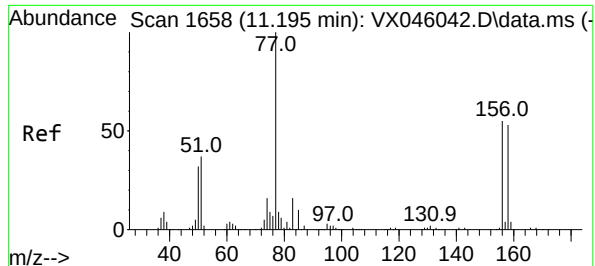
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#76  
1,2,3-Trichloropropane  
Concen: 54.277 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

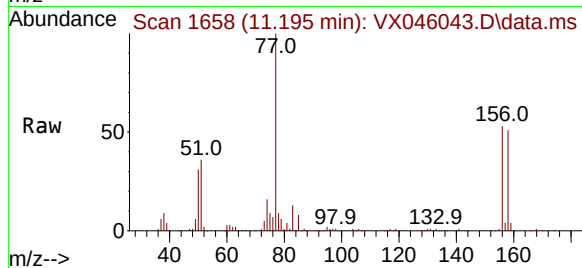
Tgt Ion: 75 Resp: 150182  
Ion Ratio Lower Upper  
75 100  
77 42.2 20.5 61.5





#77  
Bromobenzene  
Concen: 69.959 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

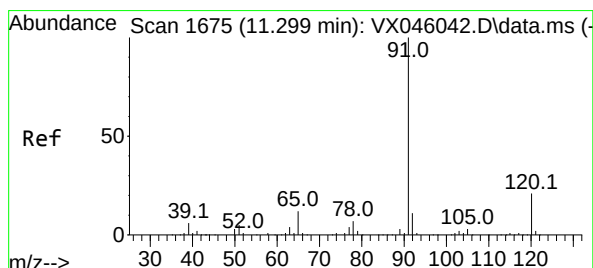
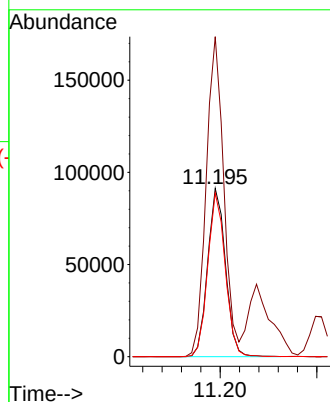
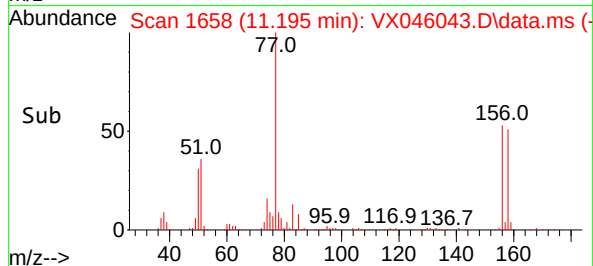
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



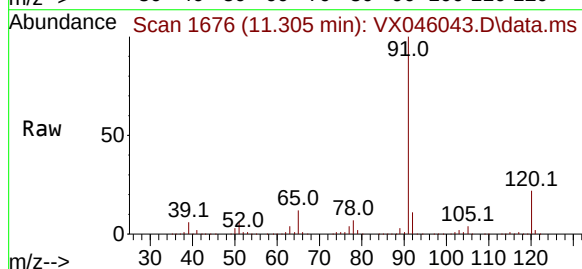
Tgt Ion:156 Resp: 11715  
Ion Ratio Lower Upper  
156 100  
77 187.4 92.8 278.3  
158 96.1 48.8 146.3

Manual Integrations  
APPROVED

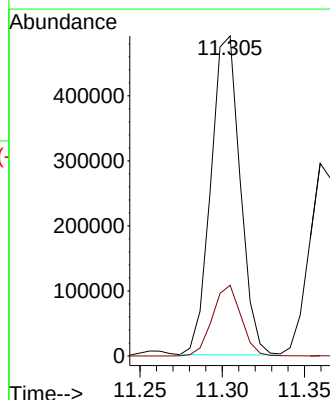
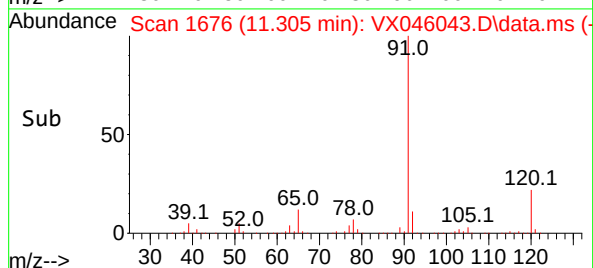
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

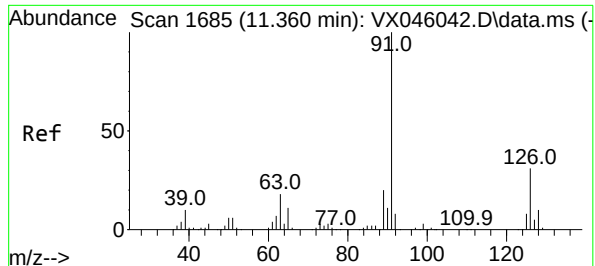


#78  
n-propylbenzene  
Concen: 74.974 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. 0.006 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21



Tgt Ion: 91 Resp: 608332  
Ion Ratio Lower Upper  
91 100  
120 21.7 10.8 32.4





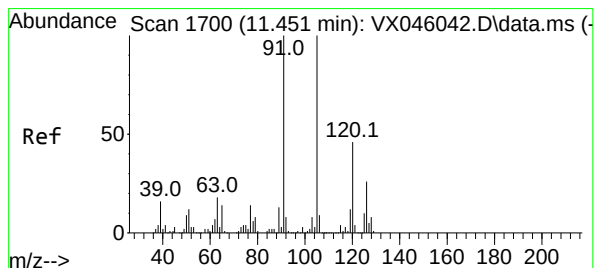
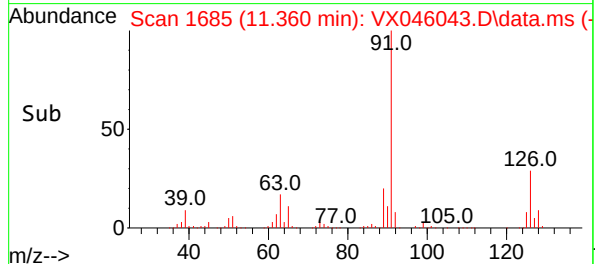
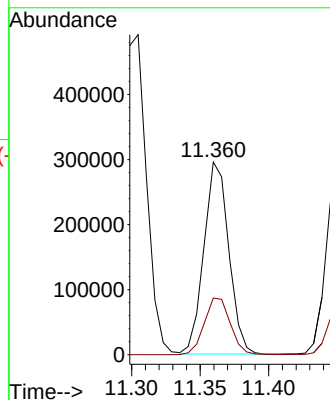
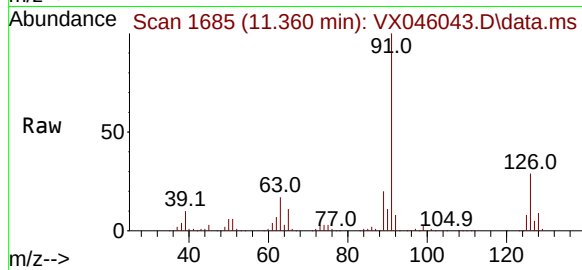
#79  
2-Chlorotoluene  
Concen: 68.100 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 91 Resp: 372392  
Ion Ratio Lower Upper  
91 100  
126 30.9 15.6 46.7

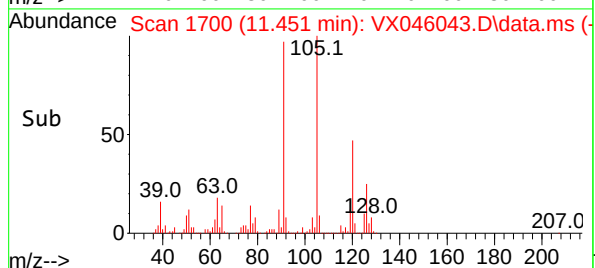
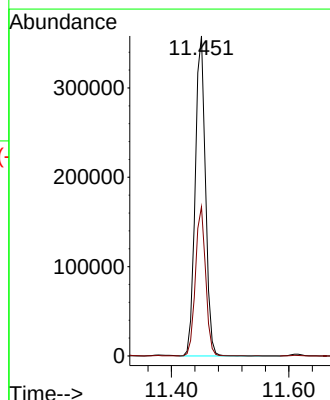
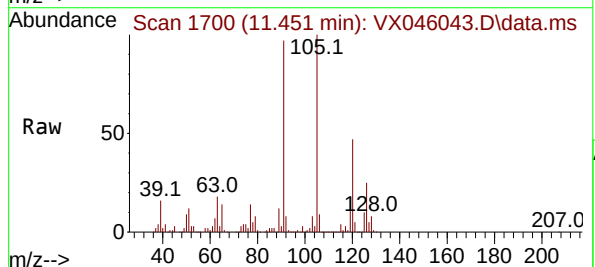
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

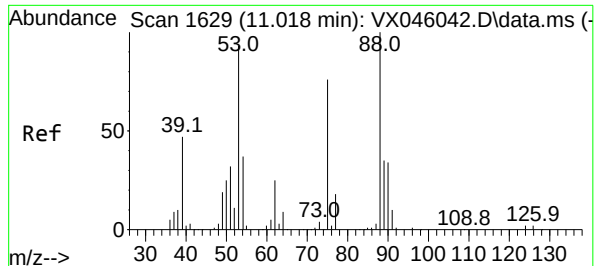


#80  
1,3,5-Trimethylbenzene  
Concen: 71.903 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 432096  
Ion Ratio Lower Upper  
105 100  
120 46.3 23.1 69.2







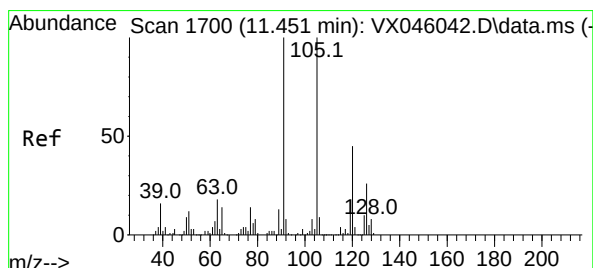
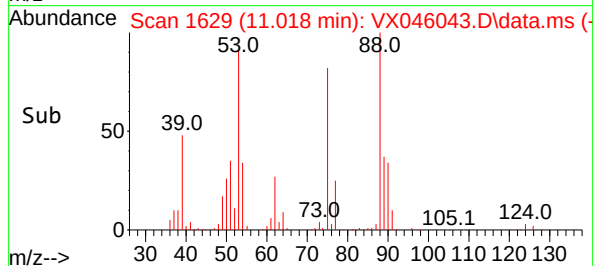
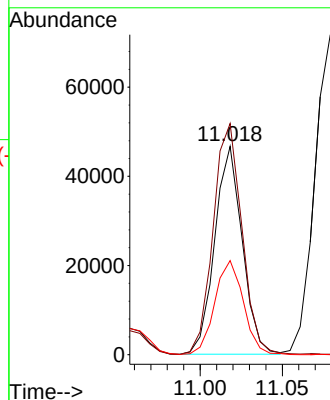
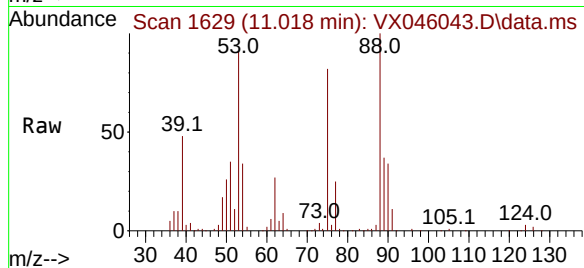
#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.820 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tgt Ion: 75 Resp: 54398  
Ion Ratio Lower Upper  
75 100  
53 115.8 100.5 150.7  
89 47.0 37.0 55.6

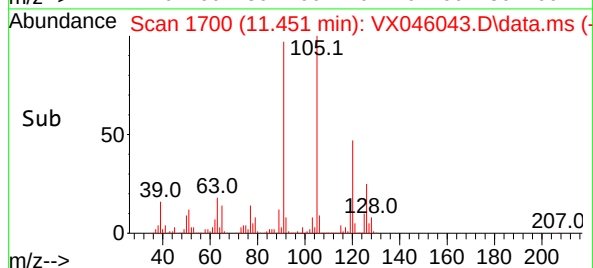
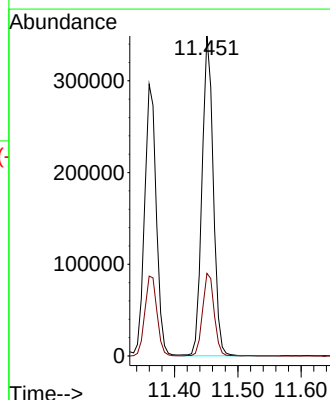
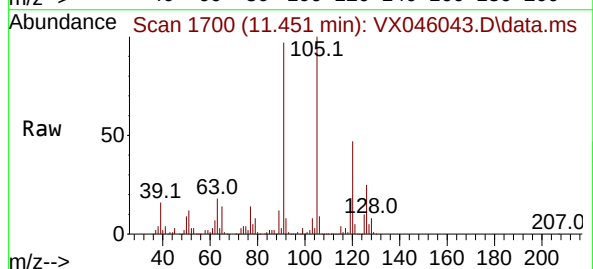
Manual Integrations  
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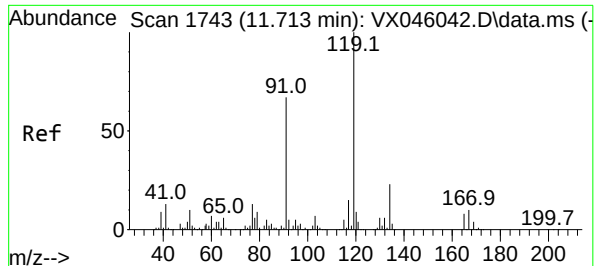
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#82  
4-Chlorotoluene  
Concen: 71.890 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

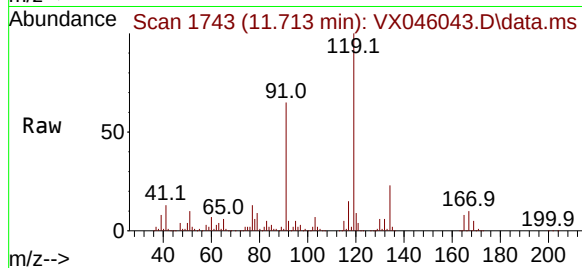
Tgt Ion: 91 Resp: 432053  
Ion Ratio Lower Upper  
91 100  
126 26.5 13.3 39.8





#83  
tert-Butylbenzene  
Concen: 73.197 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

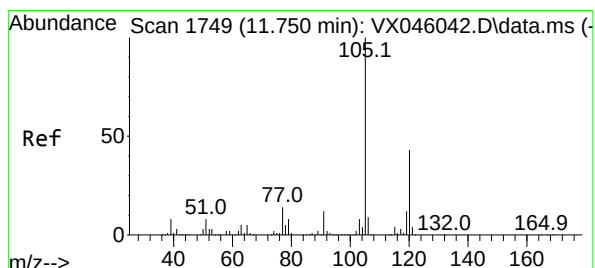
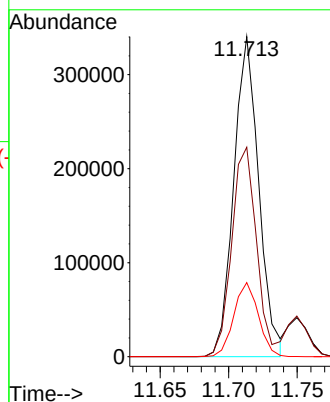
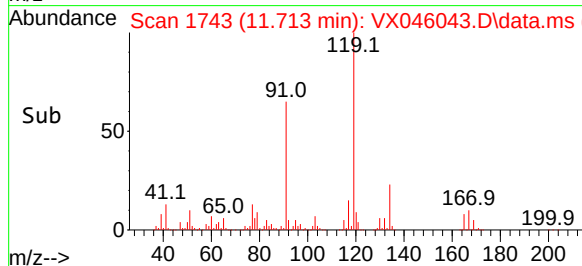
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:119 Resp: 43201  
Ion Ratio Lower Upper  
119 100  
91 64.4 32.9 98.7  
134 22.8 11.4 34.1

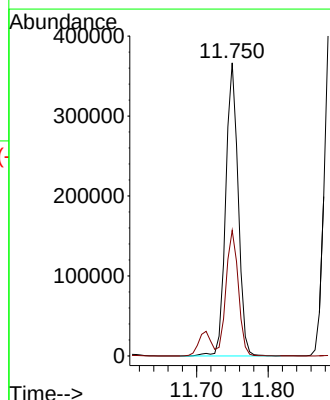
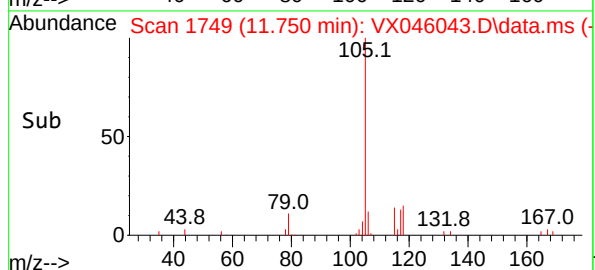
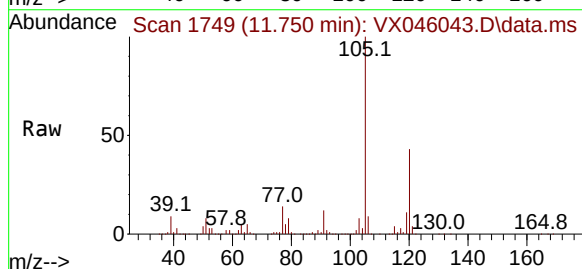
Manual Integrations  
APPROVED

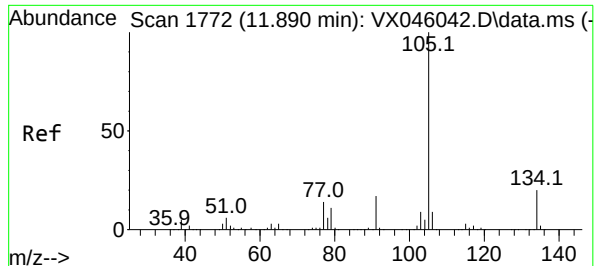
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 73.758 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 442728  
Ion Ratio Lower Upper  
105 100  
120 42.4 21.2 63.6





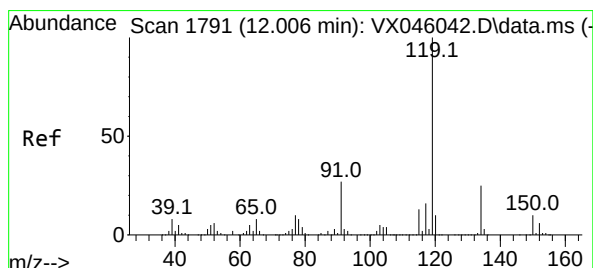
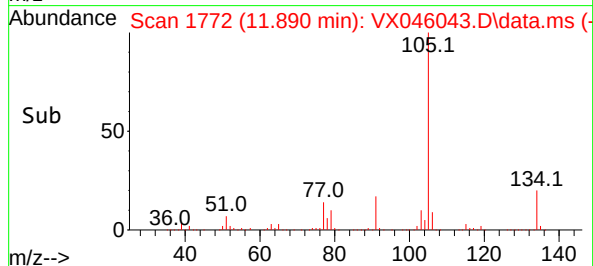
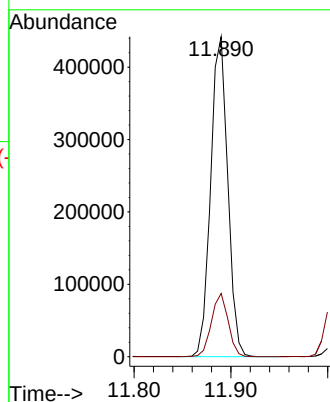
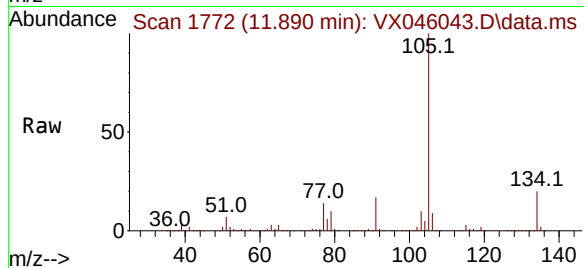
#85  
sec-Butylbenzene  
Concen: 74.188 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion:105 Resp: 54359  
Ion Ratio Lower Upper  
105 100  
134 19.4 9.7 29.1

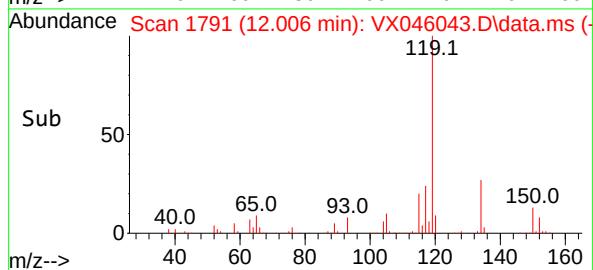
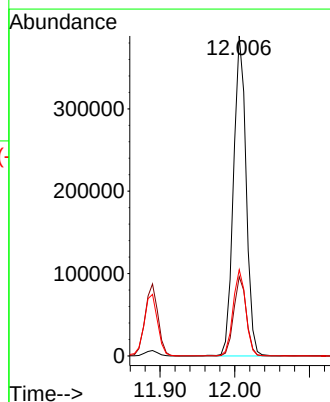
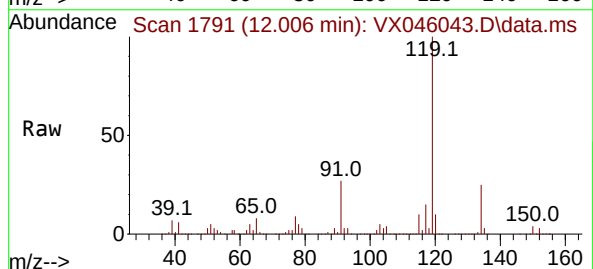
Manual Integrations  
APPROVED

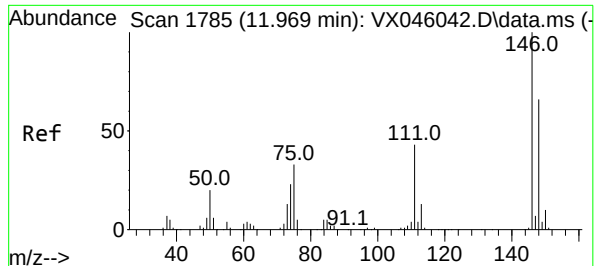
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#86  
p-Isopropyltoluene  
Concen: 77.393 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion:119 Resp: 457898  
Ion Ratio Lower Upper  
119 100  
134 24.6 12.5 37.5  
91 26.8 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 70.449 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 21975

Ion Ratio Lower Upper

146 100

111 44.1 22.1 66.3

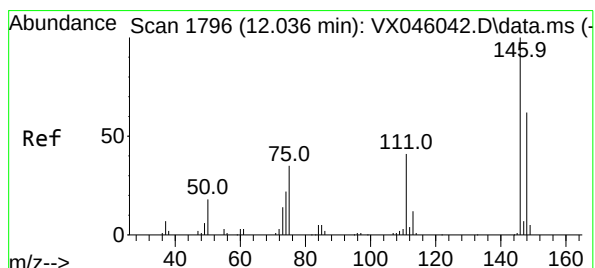
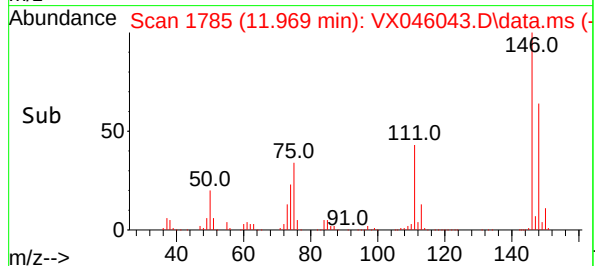
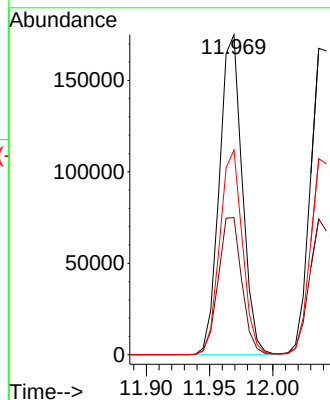
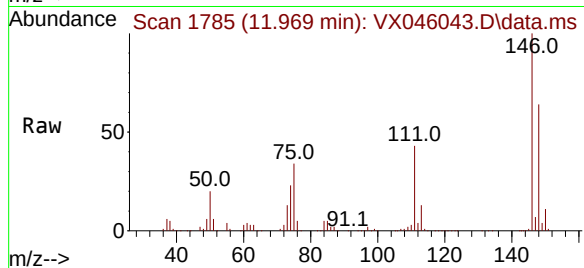
148 63.5 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#88

1,4-Dichlorobenzene

Concen: 71.190 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

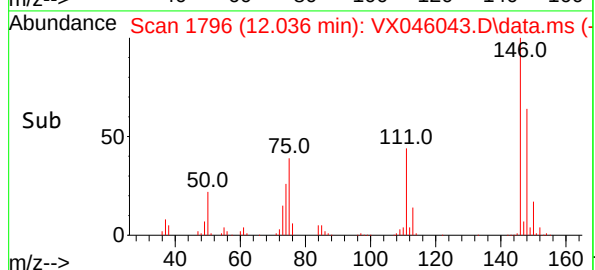
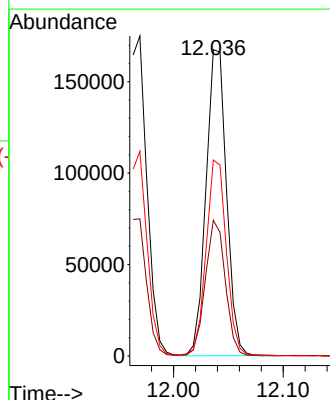
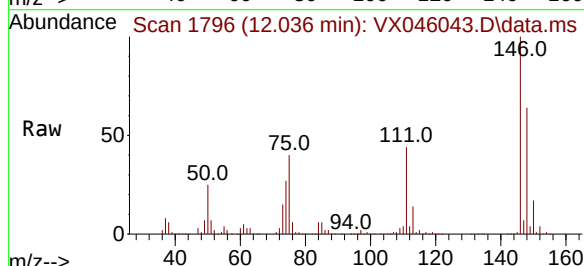
Tgt Ion:146 Resp: 217613

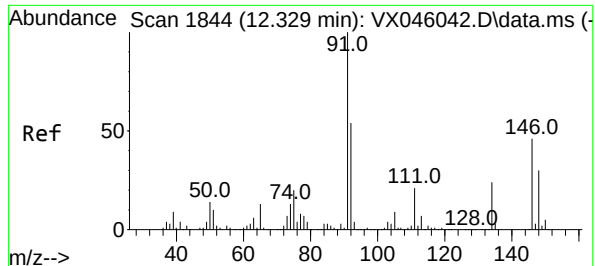
Ion Ratio Lower Upper

146 100

111 43.4 21.3 63.9

148 63.2 31.9 95.5





#89

n-Butylbenzene

Concen: 80.996 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 41660

Ion Ratio Lower Upper

91 100

92 54.0 26.9 80.7

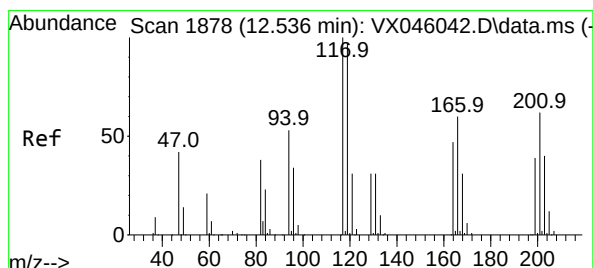
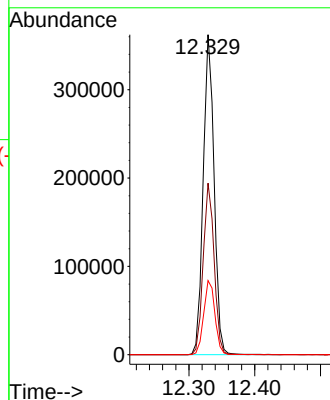
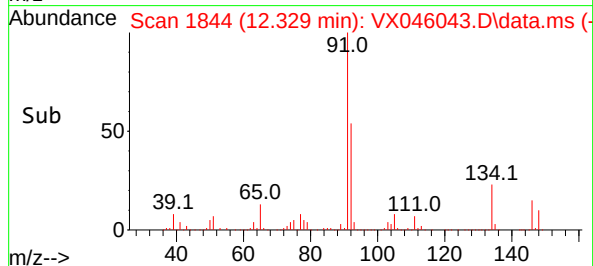
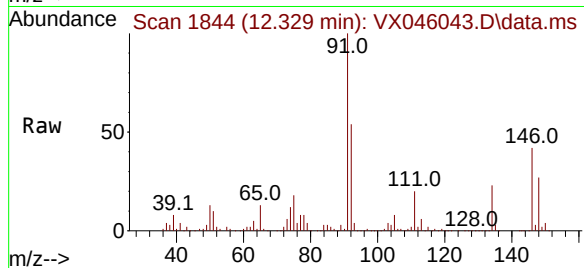
134 24.0 11.8 35.3

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 74.978 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046043.D

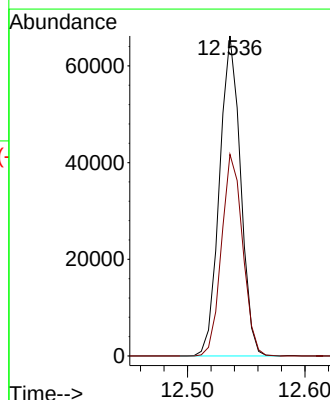
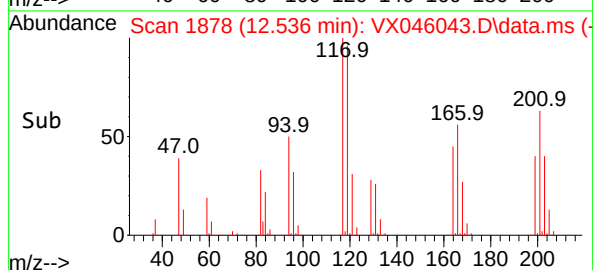
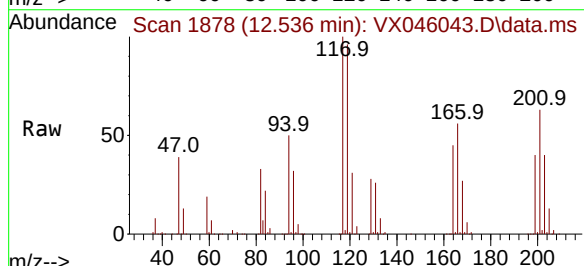
Acq: 05 May 2025 12:21

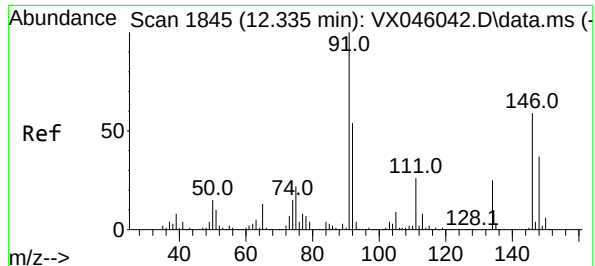
Tgt Ion:117 Resp: 82528

Ion Ratio Lower Upper

117 100

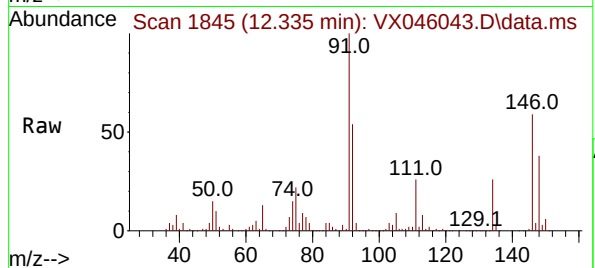
201 63.3 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 71.367 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

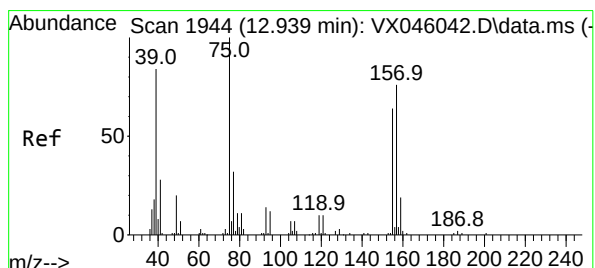
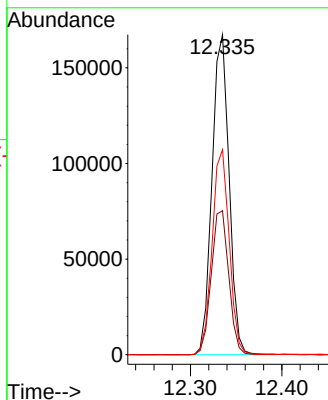
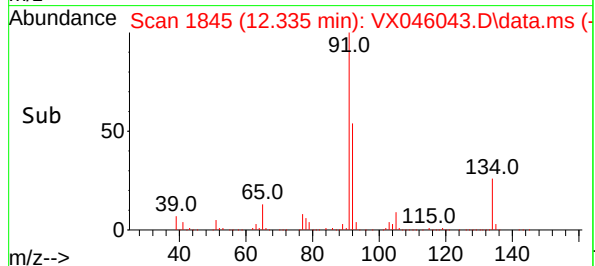
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:146 Resp: 216834  
Ion Ratio Lower Upper  
146 100  
111 46.2 22.4 67.3  
148 64.0 31.6 94.8

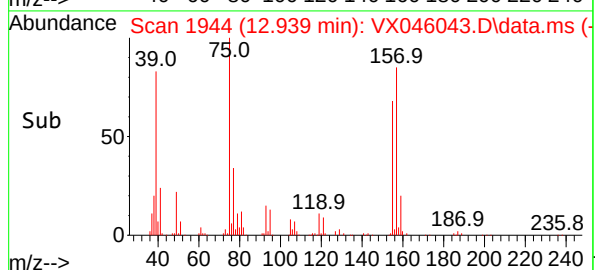
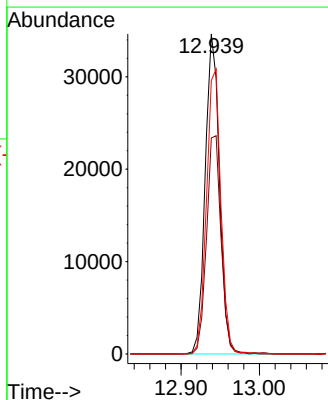
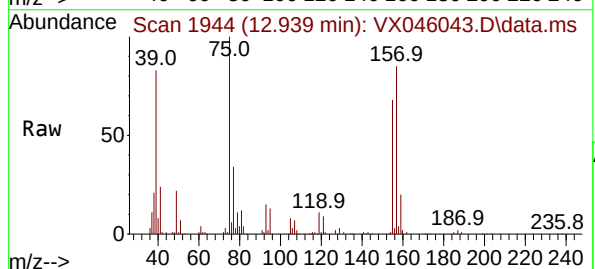
Manual Integrations  
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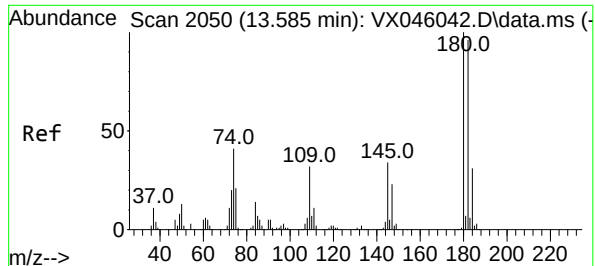
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 74.512 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX046043.D  
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 43673  
Ion Ratio Lower Upper  
75 100  
155 69.4 34.9 104.8  
157 90.1 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 82.605 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 137430

Ion Ratio Lower Upper

180 100

182 93.7 47.9 143.8

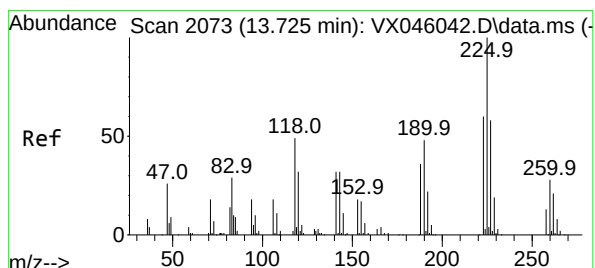
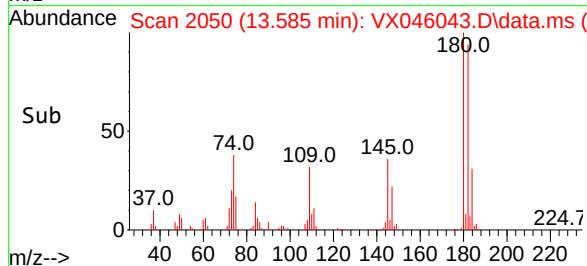
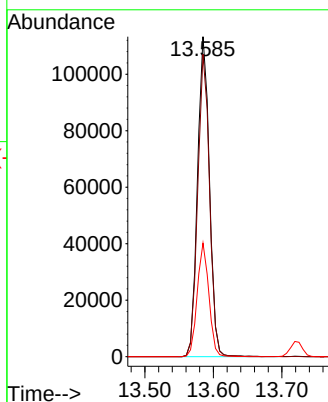
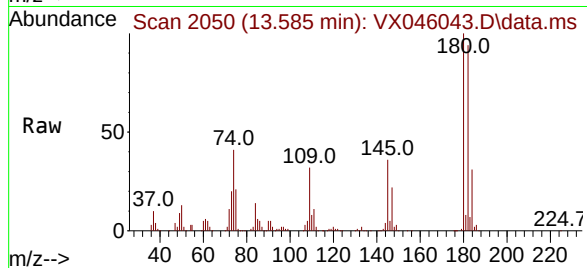
145 34.6 17.1 51.2

Manual Integrations

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Reviewed By :John Carbone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#94

Hexachlorobutadiene

Concen: 71.314 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

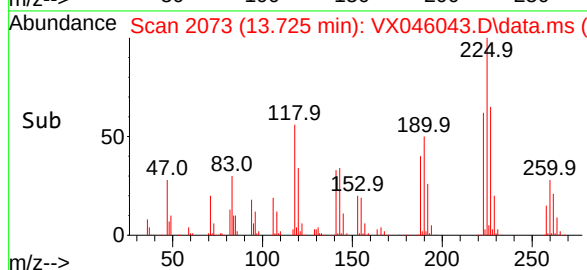
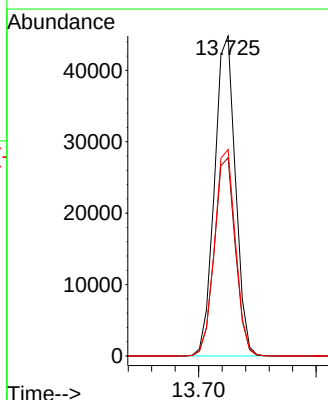
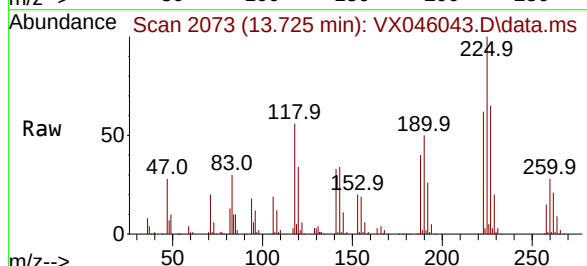
Tgt Ion:225 Resp: 55494

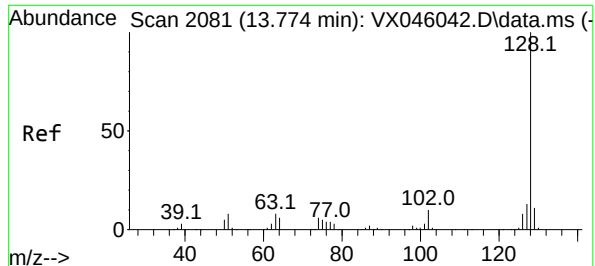
Ion Ratio Lower Upper

225 100

223 62.3 30.8 92.4

227 64.9 30.9 92.7





#95

Naphthalene

Concen: 80.842 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion:128 Resp: 489778

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

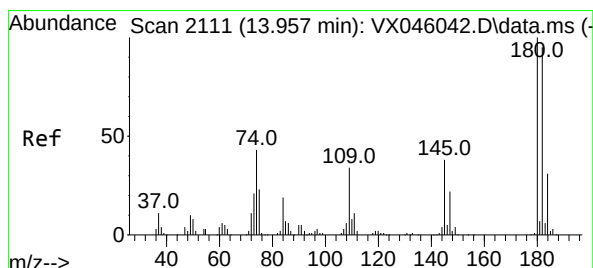
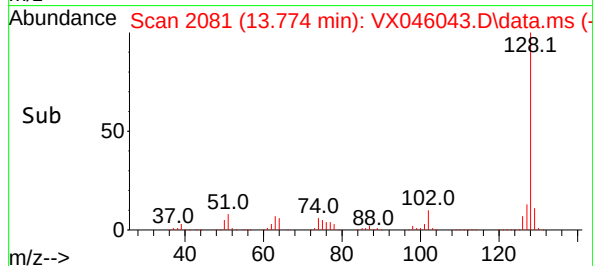
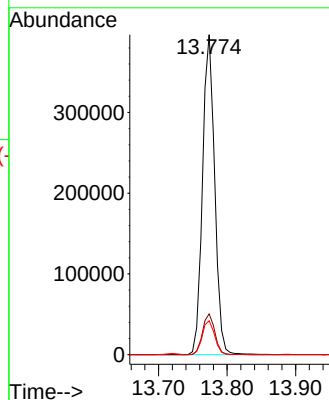
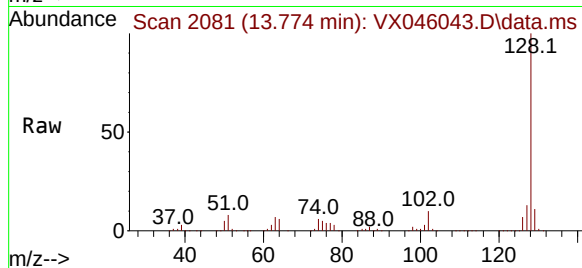
129 10.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#96

1,2,3-Trichlorobenzene

Concen: 79.981 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX046043.D

Acq: 05 May 2025 12:21

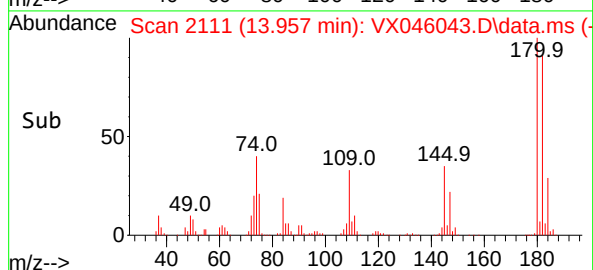
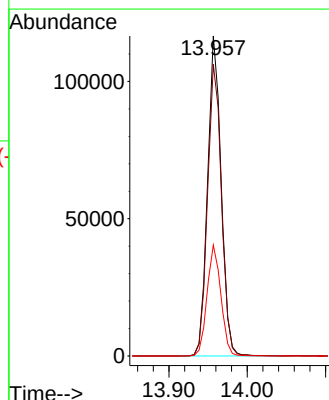
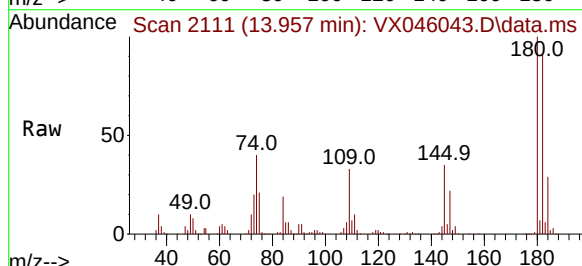
Tgt Ion:180 Resp: 139525

Ion Ratio Lower Upper

180 100

182 93.7 47.8 143.3

145 35.3 18.1 54.3





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046044.D  
 Acq On : 05 May 2025 12:45  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 05/06/2025  
 Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.     | QIon  | Response | Conc    | Units     | Dev(Min) |
|------------------------------|----------|-------|----------|---------|-----------|----------|
| -----                        |          |       |          |         |           |          |
| Internal Standards           |          |       |          |         |           |          |
| 1) Pentafluorobenzene        | 5.550    | 168   | 82963    | 50.000  | ug/l      | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757    | 114   | 144975   | 50.000  | ug/l      | 0.00     |
| 63) Chlorobenzene-d5         | 10.049   | 117   | 128557   | 50.000  | ug/l      | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018   | 152   | 60345    | 50.000  | ug/l      | # 0.00   |
|                              |          |       |          |         |           |          |
| System Monitoring Compounds  |          |       |          |         |           |          |
| 33) 1,2-Dichloroethane-d4    | 5.952    | 65    | 231952   | 93.983  | ug/l      | 0.00     |
| Spiked Amount 50.000         | Range 74 | - 125 | Recovery | =       | 187.960%# |          |
| 35) Dibromofluoromethane     | 5.385    | 113   | 160168   | 98.562  | ug/l      | 0.00     |
| Spiked Amount 50.000         | Range 75 | - 124 | Recovery | =       | 197.120%# |          |
| 50) Toluene-d8               | 8.647    | 98    | 554390   | 101.252 | ug/l      | 0.00     |
| Spiked Amount 50.000         | Range 86 | - 113 | Recovery | =       | 202.500%# |          |
| 62) 4-Bromofluorobenzene     | 11.079   | 95    | 217536   | 109.174 | ug/l      | 0.00     |
| Spiked Amount 50.000         | Range 77 | - 121 | Recovery | =       | 218.340%# |          |
|                              |          |       |          |         |           |          |
| Target Compounds             |          |       |          |         |           | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166    | 85    | 217793   | 118.929 | ug/l      | 98       |
| 3) Chloromethane             | 1.307    | 50    | 196843   | 109.161 | ug/l      | 99       |
| 4) Vinyl Chloride            | 1.374    | 62    | 187924   | 118.953 | ug/l      | 100      |
| 5) Bromomethane              | 1.593    | 94    | 83008    | 103.625 | ug/l      | 95       |
| 6) Chloroethane              | 1.660    | 64    | 78806    | 96.822  | ug/l      | 98       |
| 7) Trichlorofluoromethane    | 1.868    | 101   | 245108   | 101.851 | ug/l      | 97       |
| 8) Diethyl Ether             | 2.136    | 74    | 88441    | 111.791 | ug/l      | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.313    | 101   | 161404   | 112.243 | ug/l      | 99       |
| 10) Methyl Iodide            | 2.441    | 142   | 189843   | 112.441 | ug/l      | 100      |
| 11) Tert butyl alcohol       | 3.002    | 59    | 181238   | 616.119 | ug/l      | 100      |
| 12) 1,1-Dichloroethene       | 2.307    | 96    | 155451   | 111.039 | ug/l      | 99       |
| 13) Acrolein                 | 2.239    | 56    | 203257   | 594.872 | ug/l      | 98       |
| 14) Allyl chloride           | 2.654    | 41    | 297776   | 112.561 | ug/l      | 98       |
| 15) Acrylonitrile            | 3.069    | 53    | 484854   | 550.973 | ug/l      | 98       |
| 16) Acetone                  | 2.392    | 43    | 460820   | 545.754 | ug/l      | 98       |
| 17) Carbon Disulfide         | 2.502    | 76    | 397353   | 122.499 | ug/l      | 100      |
| 18) Methyl Acetate           | 2.709    | 43    | 217885   | 108.099 | ug/l      | 98       |
| 19) Methyl tert-butyl Ether  | 3.117    | 73    | 557210   | 114.112 | ug/l      | 100      |
| 20) Methylene Chloride       | 2.782    | 84    | 172035   | 100.579 | ug/l      | 96       |
| 21) trans-1,2-Dichloroethene | 3.081    | 96    | 154694   | 108.241 | ug/l      | 96       |
| 22) Diisopropyl ether        | 3.764    | 45    | 577610   | 116.858 | ug/l      | 90       |
| 23) Vinyl Acetate            | 3.721    | 43    | 2655751  | 608.005 | ug/l      | 100      |
| 24) 1,1-Dichloroethane       | 3.605    | 63    | 320083   | 110.182 | ug/l      | 99       |
| 25) 2-Butanone               | 4.562    | 43    | 708463   | 581.292 | ug/l      | 98       |
| 26) 2,2-Dichloropropane      | 4.471    | 77    | 258698   | 117.548 | ug/l      | 100      |
| 27) cis-1,2-Dichloroethene   | 4.483    | 96    | 187835   | 108.994 | ug/l      | 99       |
| 28) Bromochloromethane       | 4.898    | 49    | 146923   | 95.108  | ug/l      | 100      |
| 29) Tetrahydrofuran          | 5.007    | 42    | 450456   | 569.081 | ug/l      | 99       |
| 30) Chloroform               | 5.087    | 83    | 323659   | 107.208 | ug/l      | 95       |
| 31) Cyclohexane              | 5.458    | 56    | 286312   | 116.934 | ug/l      | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373    | 97    | 295702   | 113.572 | ug/l      | 98       |
| 36) 1,1-Dichloropropene      | 5.684    | 75    | 219731   | 116.462 | ug/l      | 99       |
| 37) Ethyl Acetate            | 4.715    | 43    | 274312   | 115.889 | ug/l      | 99       |
| 38) Carbon Tetrachloride     | 5.666    | 117   | 250916   | 115.760 | ug/l      | 99       |
| 39) Methylcyclohexane        | 7.373    | 83    | 286311   | 121.107 | ug/l      | 97       |
| 40) Benzene                  | 6.031    | 78    | 642178   | 109.813 | ug/l      | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046044.D  
 Acq On : 05 May 2025 12:45  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 05/06/2025  
 Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 151424   | 115.139  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 271992   | 112.492  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 447871   | 123.780  | ug/l   | 100      |
| 44) Trichloroethene           | 7.117  | 130  | 157641   | 114.032  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 164505   | 113.217  | ug/l   | 99       |
| 46) Dibromomethane            | 7.574  | 93   | 125846   | 109.869  | ug/l   | 100      |
| 47) Bromodichloromethane      | 7.818  | 83   | 258326   | 116.365  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.690  | 41   | 231040   | 124.356  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 82800    | 2241.695 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 1371275  | 577.831  | ug/l   | 100      |
| 52) Toluene                   | 8.714  | 92   | 393323   | 113.430  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 257233   | 138.001  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 271054   | 124.658  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97   | 154932   | 110.551  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 277921   | 127.968  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 272814   | 109.813  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 680608   | 697.344  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 1028597  | 571.094  | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.519  | 129  | 187497   | 122.915  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.604  | 107  | 165634   | 115.087  | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.269  | 164  | 132488   | 100.918  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.080 | 112  | 429656   | 108.615  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 152173   | 115.333  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.189 | 91   | 785121   | 116.421  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 570913   | 234.349  | ug/l   | 100      |
| 69) o-Xylene                  | 10.640 | 106  | 279906   | 113.990  | ug/l   | 99       |
| 70) Styrene                   | 10.653 | 104  | 474254   | 120.694  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 125986   | 127.128  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.957 | 105  | 752337   | 114.312  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 396877   | 120.944  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 243532   | 104.018  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 213744m  | 84.960   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 167934   | 110.297  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 881218   | 119.448  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 534560   | 107.514  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 616477   | 112.825  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 81372    | 134.609  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 611736   | 111.948  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 617473   | 115.065  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 623456   | 114.236  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 786293   | 118.023  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 651531   | 121.113  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 313100   | 110.394  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 311752   | 112.167  | ug/l   | 100      |
| 89) n-Butylbenzene            | 12.329 | 91   | 605783   | 129.533  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 123188   | 123.091  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 308039   | 111.506  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 64438    | 120.915  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 203255   | 134.366  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 80558    | 113.857  | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 721236   | 130.929  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 200379   | 126.331  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046044.D  
Acq On : 05 May 2025 12:45  
Operator : JC/MD  
Sample : VSTDICC150  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

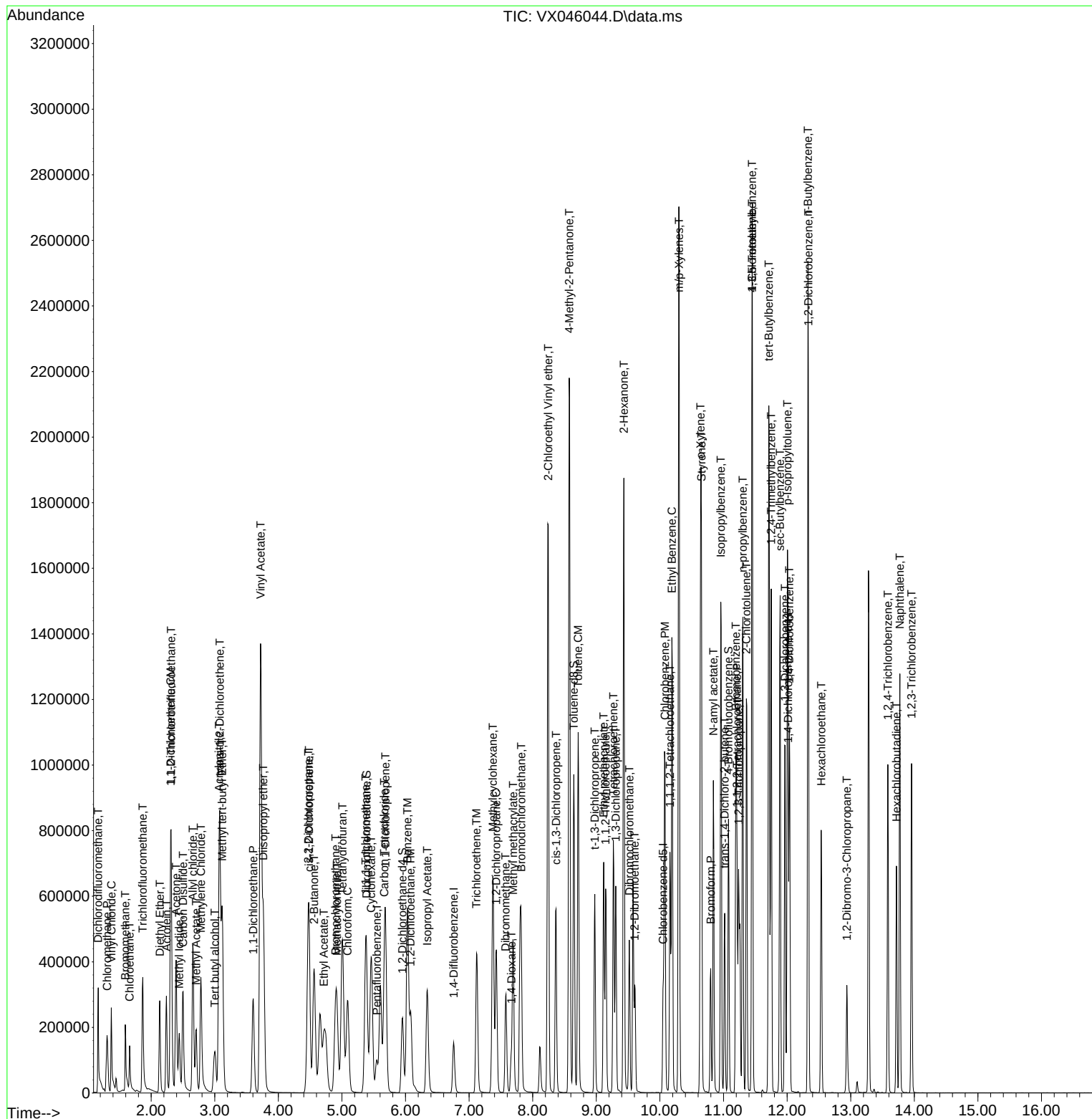
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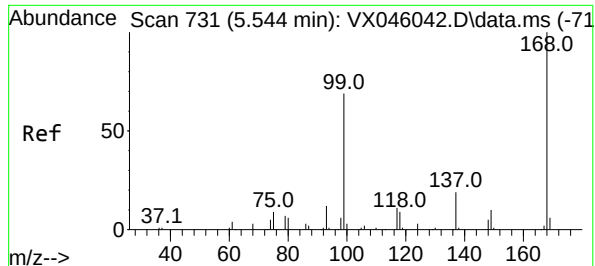
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC150

## Manual Integrations APPROVED

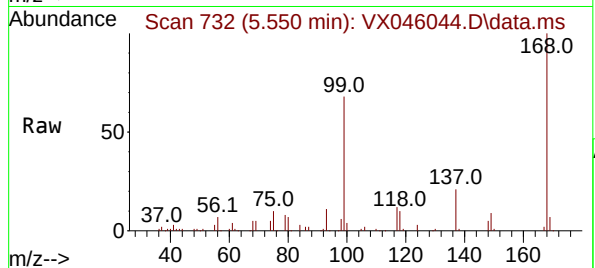
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

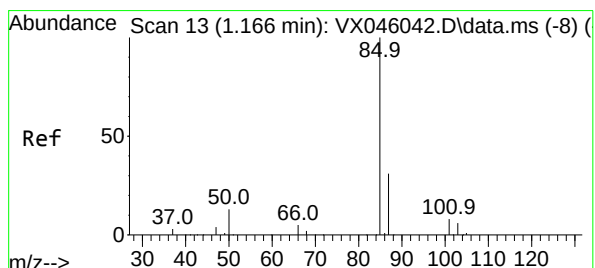
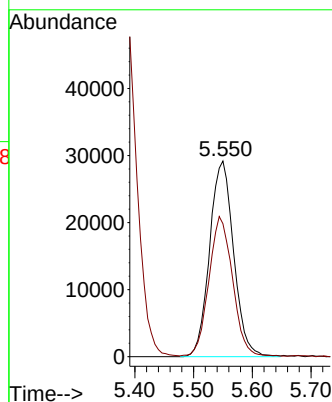
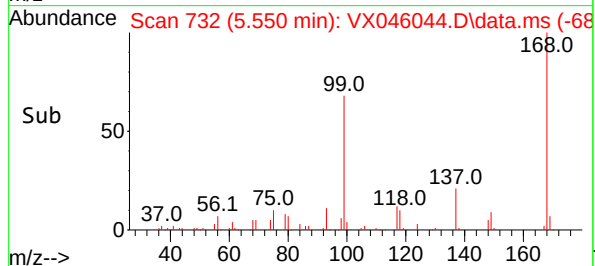
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion:168 Resp: 82961  
Ion Ratio Lower Upper  
168 100  
99 67.6 54.9 82.3

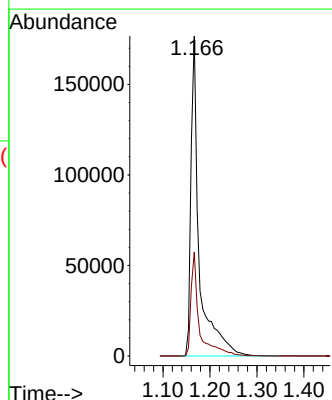
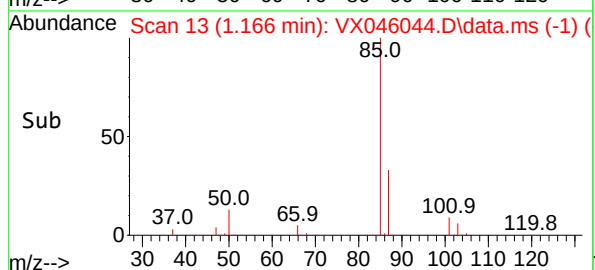
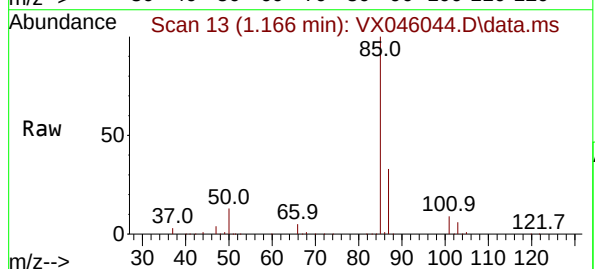
Manual Integrations  
APPROVED

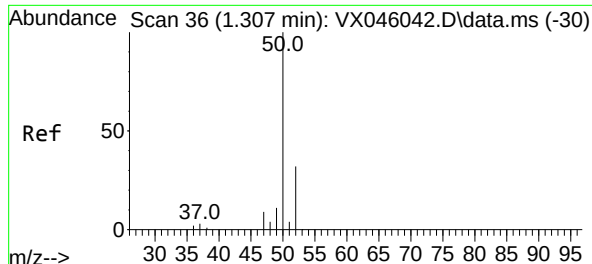
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#2  
Dichlorodifluoromethane  
Concen: 118.929 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 85 Resp: 217793  
Ion Ratio Lower Upper  
85 100  
87 32.5 15.7 47.1





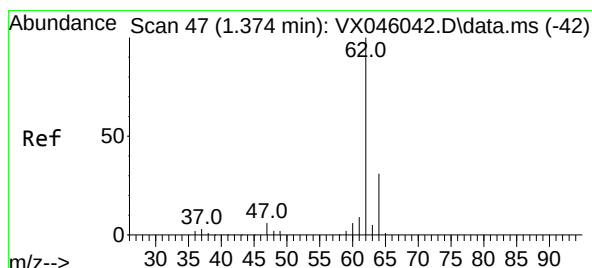
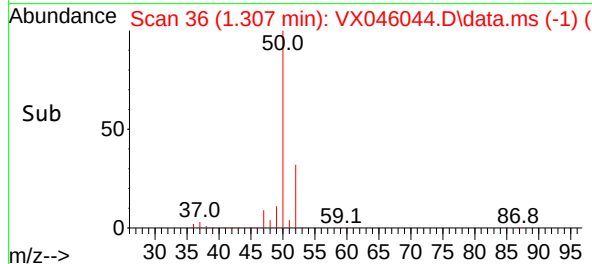
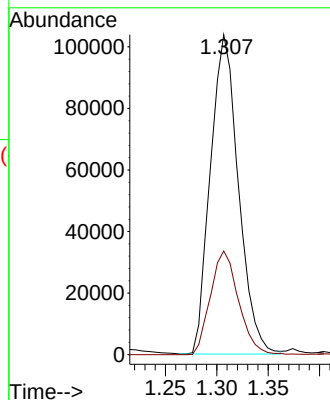
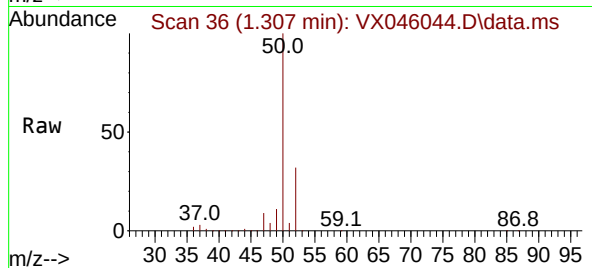
#3  
Chloromethane  
Concen: 109.161 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion: 50 Resp: 19684  
Ion Ratio Lower Upper  
50 100  
52 32.5 25.4 38.2

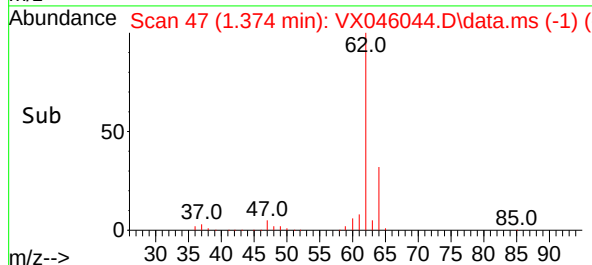
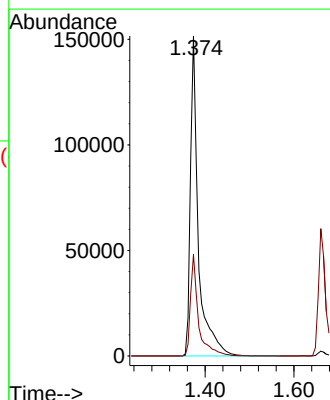
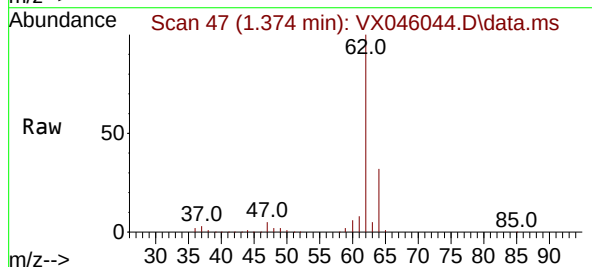
Manual Integrations  
APPROVED

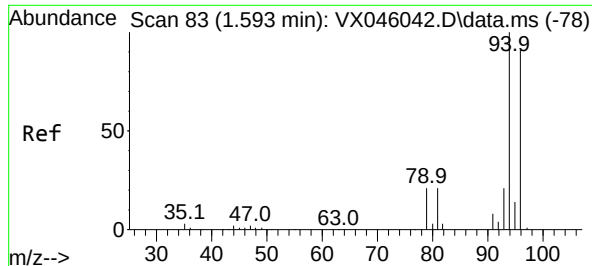
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 118.953 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

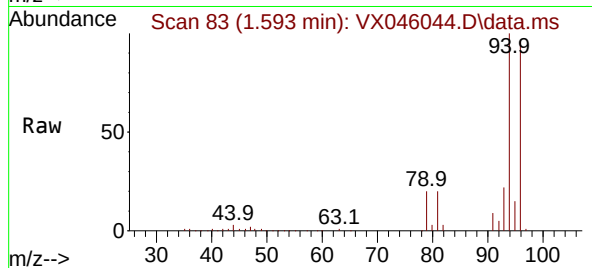
Tgt Ion: 62 Resp: 187924  
Ion Ratio Lower Upper  
62 100  
64 31.7 25.2 37.8





#5  
Bromomethane  
Concen: 103.625 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

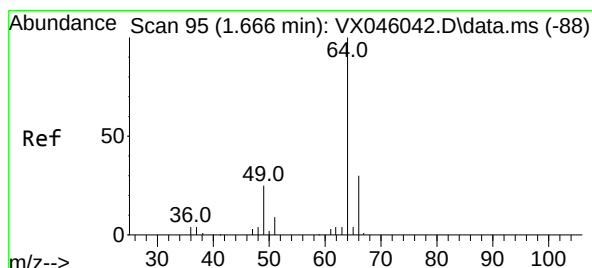
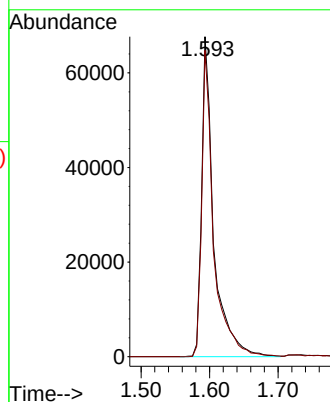
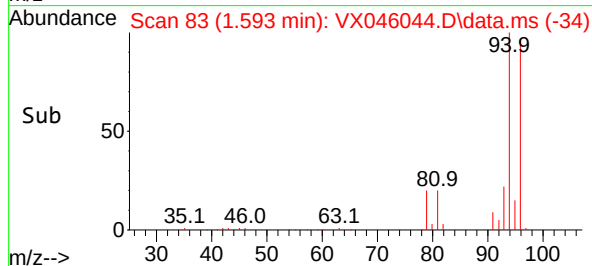
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion: 94 Resp: 83008  
Ion Ratio Lower Upper  
94 100  
96 95.8 72.8 109.2

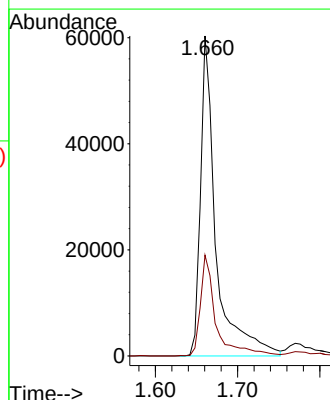
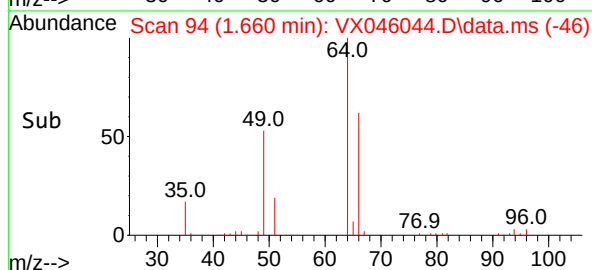
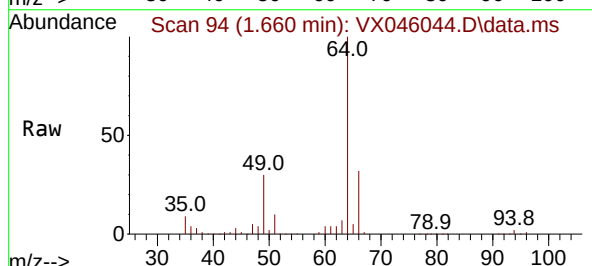
Manual Integrations  
APPROVED

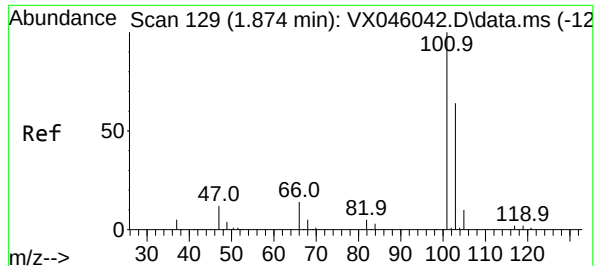
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#6  
Chloroethane  
Concen: 96.822 ug/l  
RT: 1.660 min Scan# 94  
Delta R.T. -0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

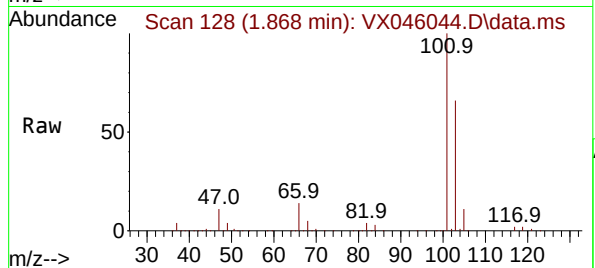
Tgt Ion: 64 Resp: 78806  
Ion Ratio Lower Upper  
64 100  
66 31.3 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 101.851 ug/l  
RT: 1.868 min Scan# 128  
Delta R.T. -0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

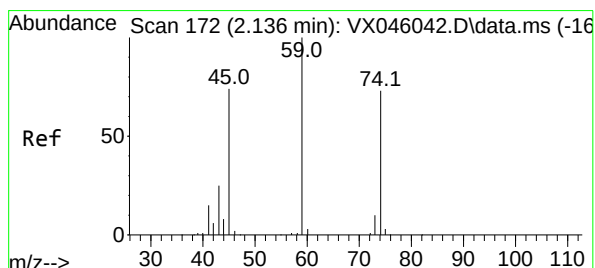
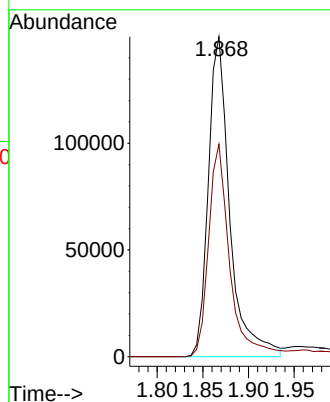
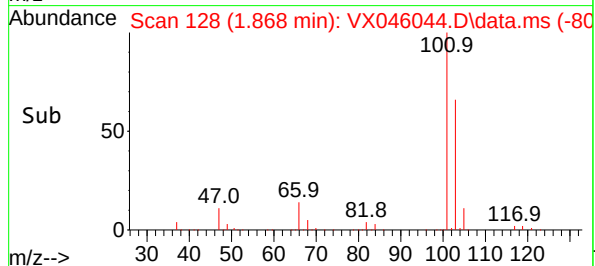
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:101 Resp: 245108  
Ion Ratio Lower Upper  
101 100  
103 66.4 51.0 76.4

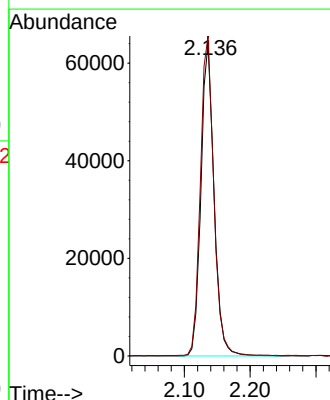
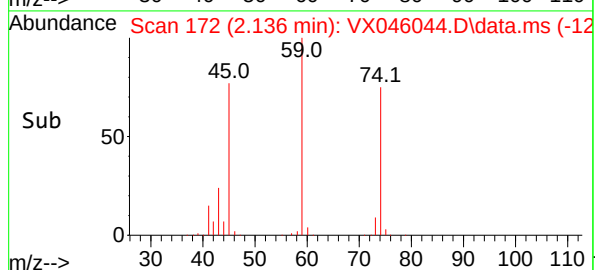
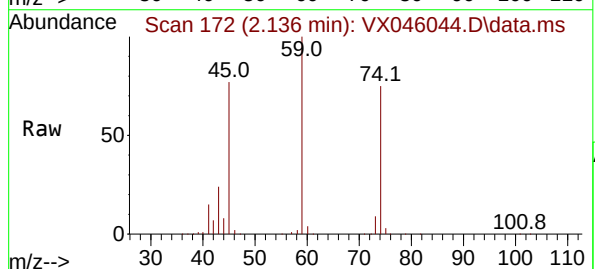
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

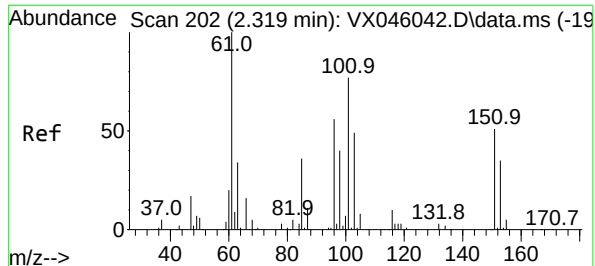


#8  
Diethyl Ether  
Concen: 111.791 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 74 Resp: 88441  
Ion Ratio Lower Upper  
74 100  
45 104.7 54.9 164.8







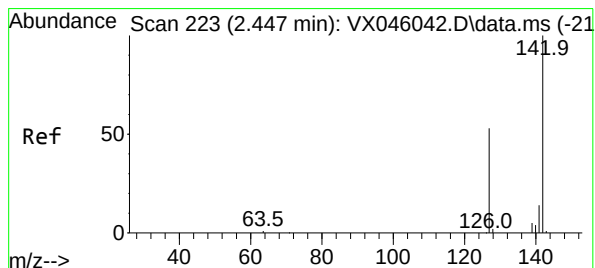
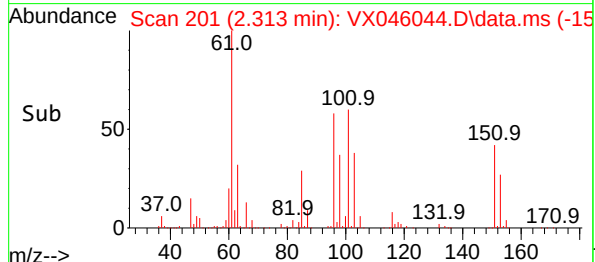
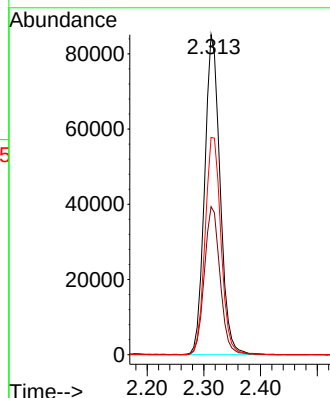
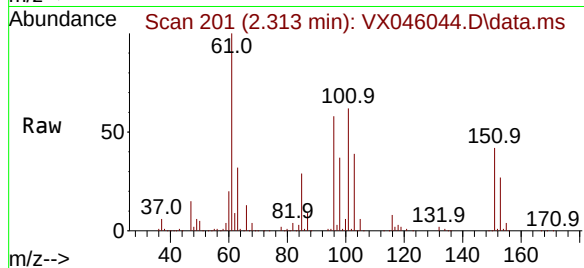
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 112.243 ug/l  
RT: 2.313 min Scan# 202  
Delta R.T. -0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion:101 Resp: 161404  
Ion Ratio Lower Upper  
101 100  
85 46.8 38.6 58.0  
151 69.8 55.2 82.8

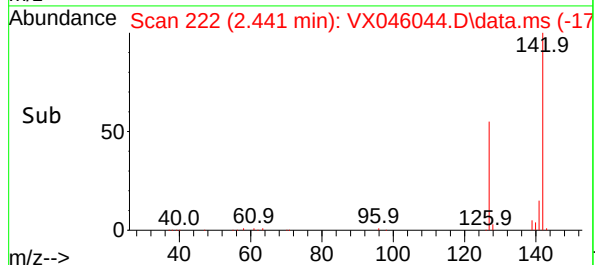
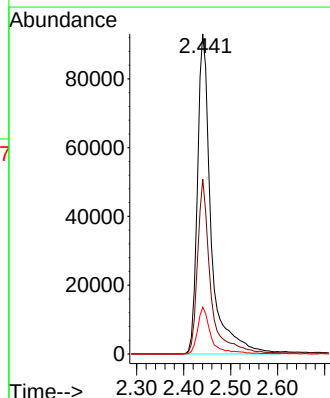
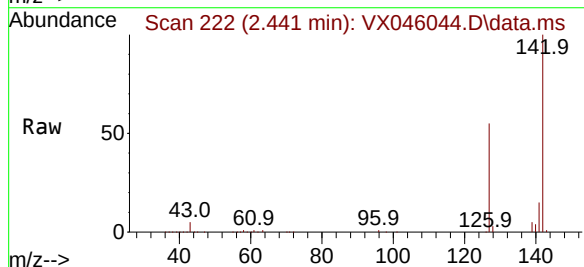
Manual Integrations  
APPROVED

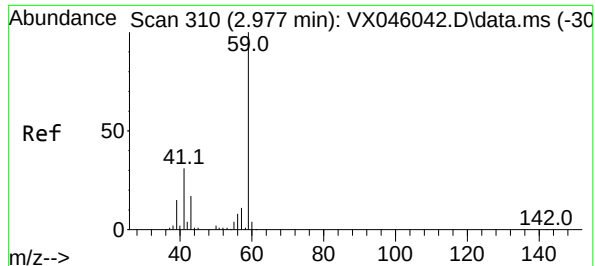
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#10  
Methyl Iodide  
Concen: 112.441 ug/l  
RT: 2.441 min Scan# 222  
Delta R.T. -0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:142 Resp: 189843  
Ion Ratio Lower Upper  
142 100  
127 52.4 41.7 62.5  
141 14.4 11.5 17.3





#11

Tert butyl alcohol

Concen: 616.119 ug/l

RT: 3.002 min Scan# 310

Delta R.T. 0.024 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 181238

Ion Ratio Lower Upper

59 100

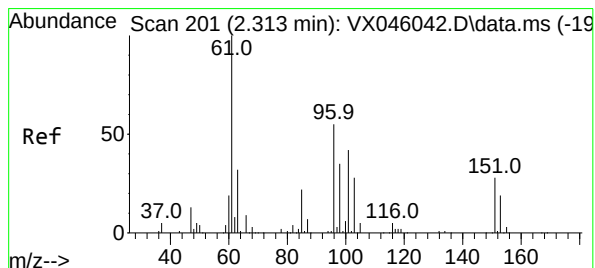
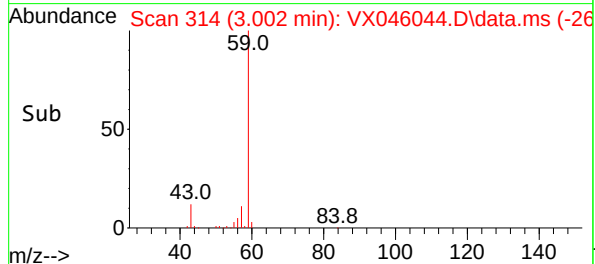
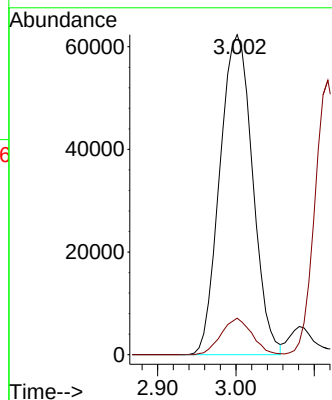
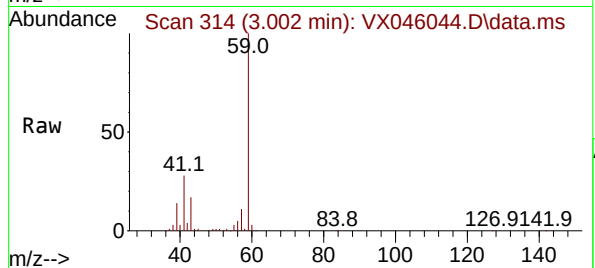
57 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#12

1,1-Dichloroethene

Concen: 111.039 ug/l

RT: 2.307 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

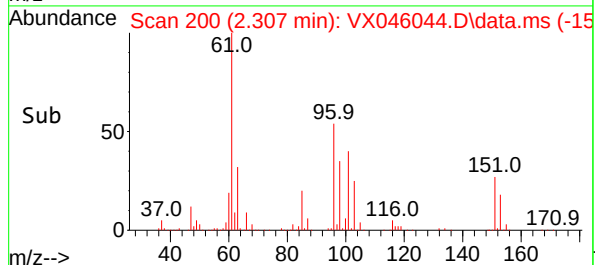
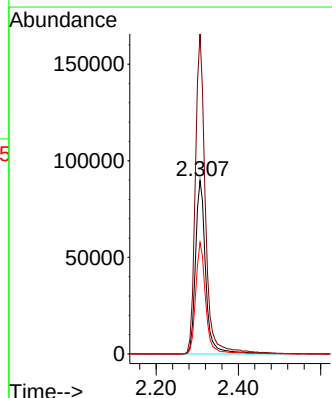
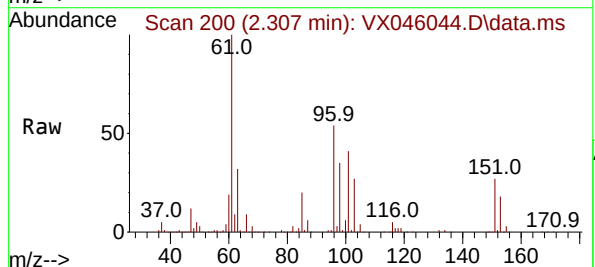
Tgt Ion: 96 Resp: 155451

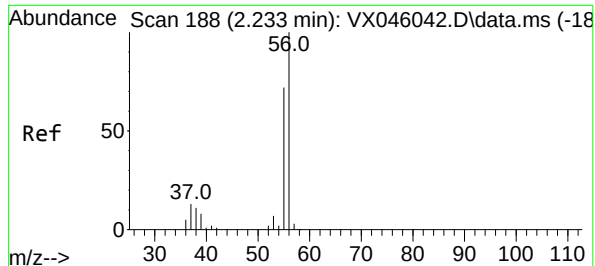
Ion Ratio Lower Upper

96 100

61 184.5 146.2 219.2

98 64.3 51.0 76.6





#13

Acrolein

Concen: 594.872 ug/l

RT: 2.239 min Scan# 188

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 20325

Ion Ratio Lower Upper

56 100

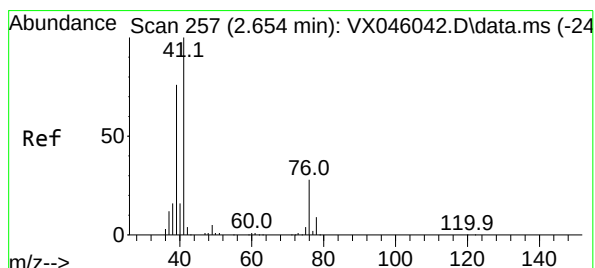
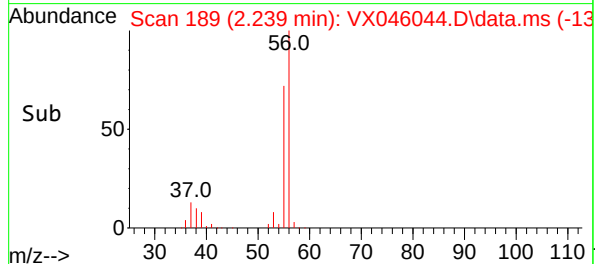
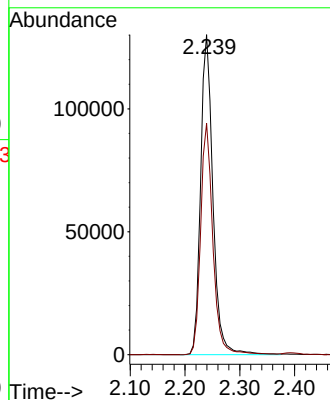
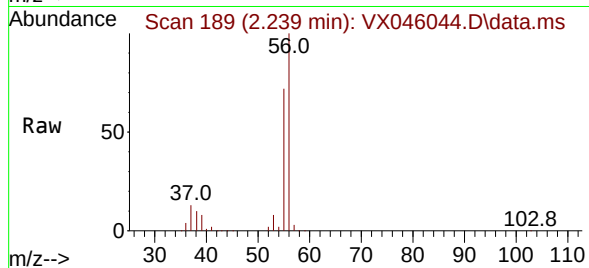
55 72.1 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 112.561 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

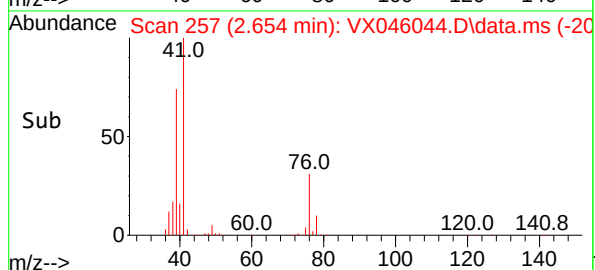
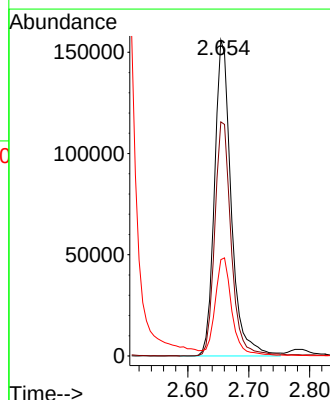
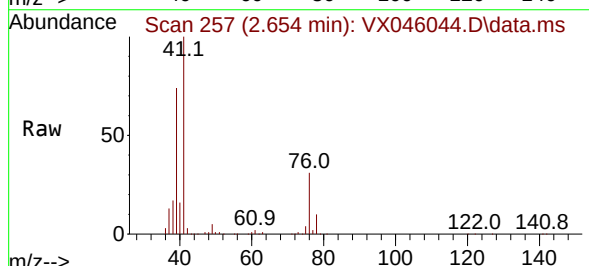
Tgt Ion: 41 Resp: 297776

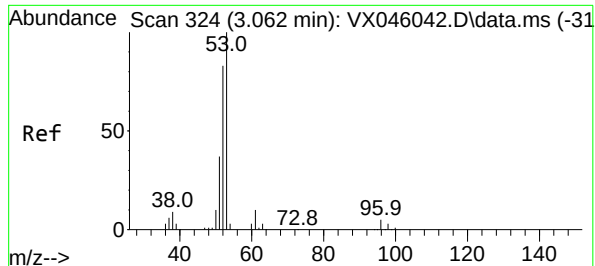
Ion Ratio Lower Upper

41 100

39 73.7 60.6 90.8

76 31.8 24.9 37.3





#15

Acrylonitrile

Concen: 550.973 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

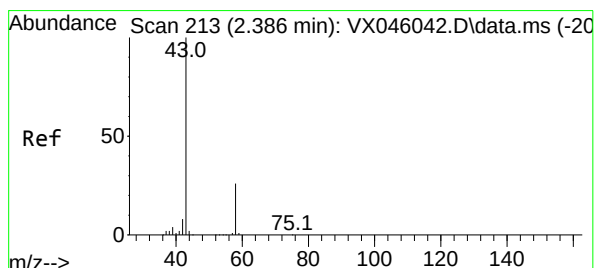
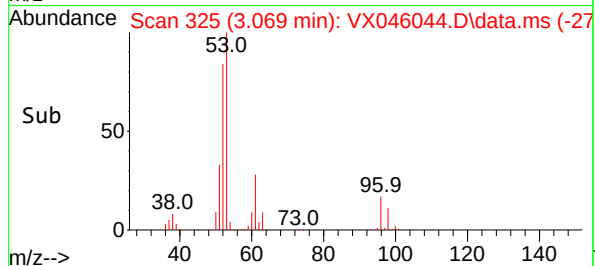
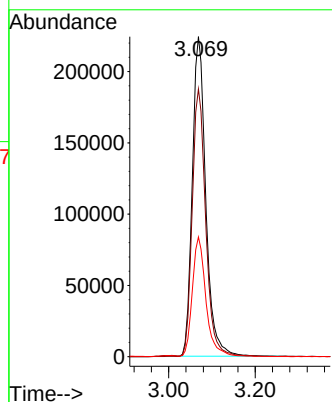
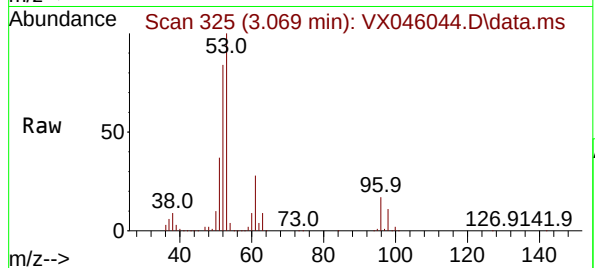
VSTDICC150

| Tgt Ion: | 53    | Resp: | 484854 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 84.2  | 65.3  | 97.9   |
| 51       | 37.5  | 29.8  | 44.8   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 545.754 ug/l

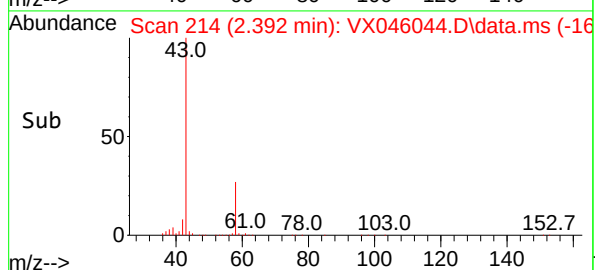
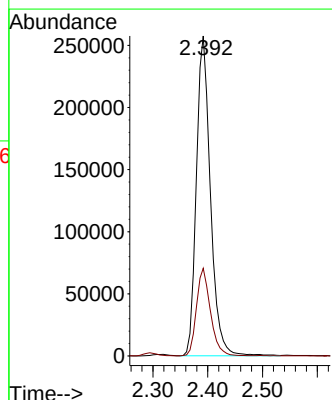
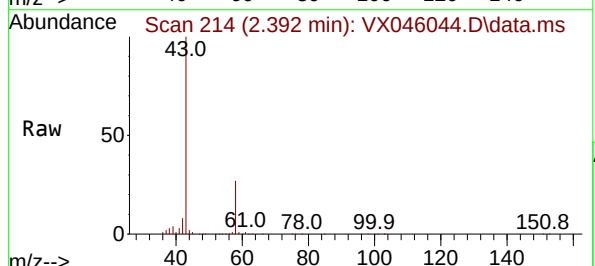
RT: 2.392 min Scan# 214

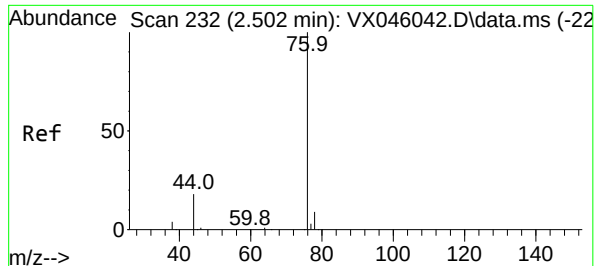
Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

| Tgt Ion: | 43    | Resp: | 460820 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 27.3  | 21.2  | 31.8   |





#17

Carbon Disulfide

Concen: 122.499 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Tgt Ion: 76 Resp: 39735

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.4

Instrument :

MSVOA\_X

ClientSampleId :

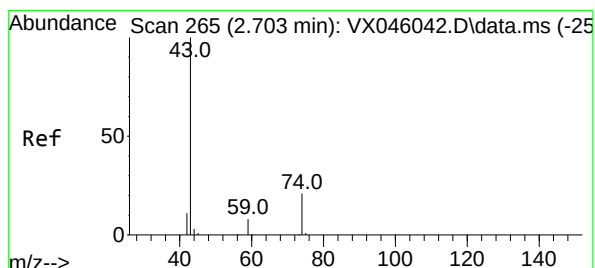
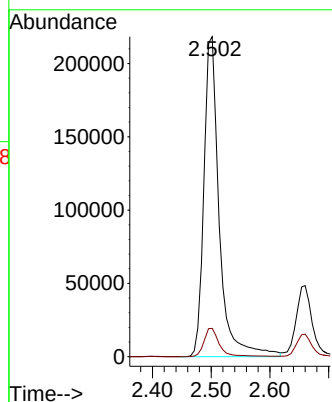
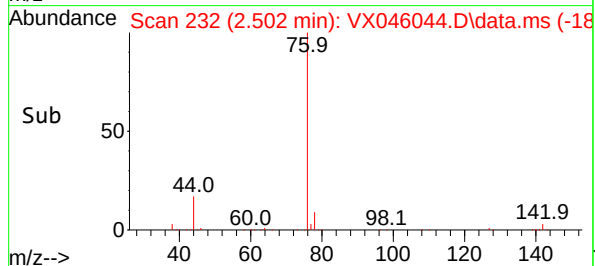
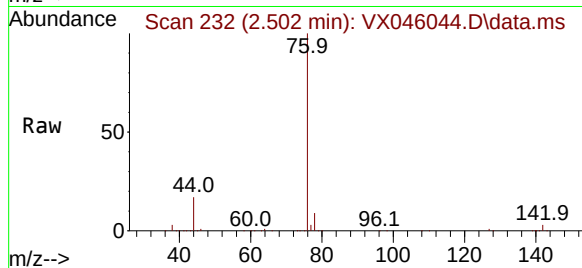
VSTDIC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 108.099 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX046044.D

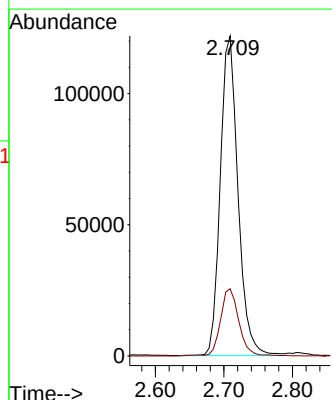
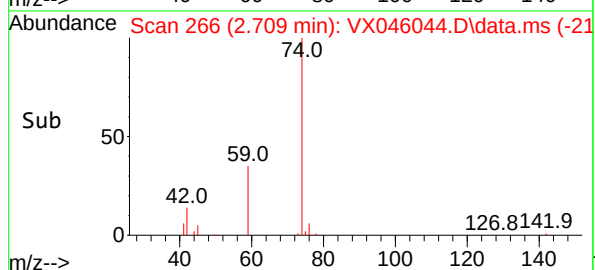
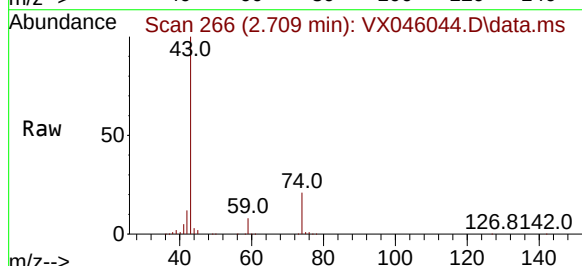
Acq: 05 May 2025 12:45

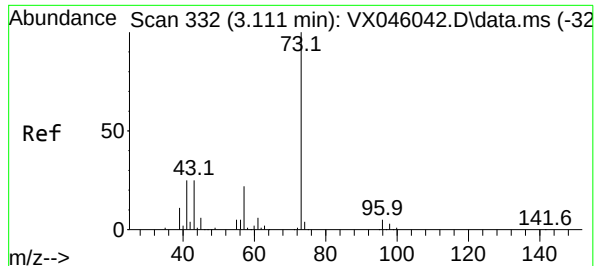
Tgt Ion: 43 Resp: 217885

Ion Ratio Lower Upper

43 100

74 21.9 16.7 25.1





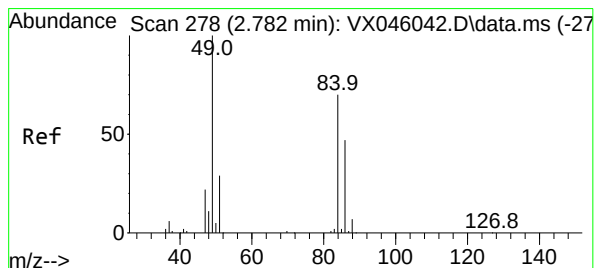
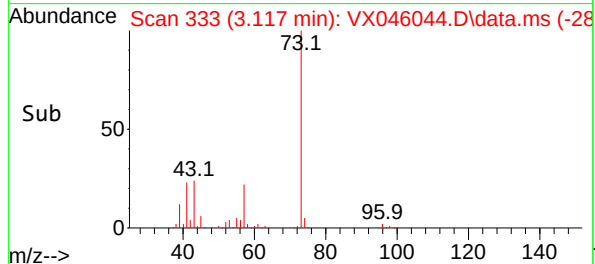
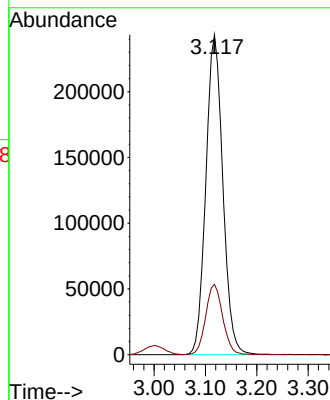
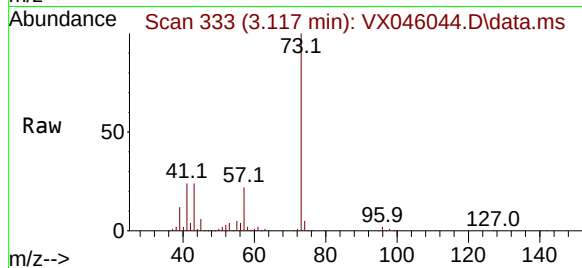
#19  
Methyl tert-butyl Ether  
Concen: 114.112 ug/l  
RT: 3.117 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 73 Resp: 557210  
Ion Ratio Lower Upper  
73 100  
57 22.0 17.7 26.5

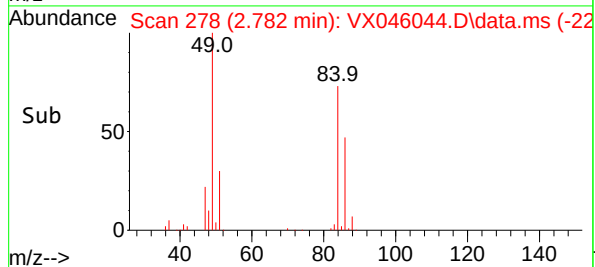
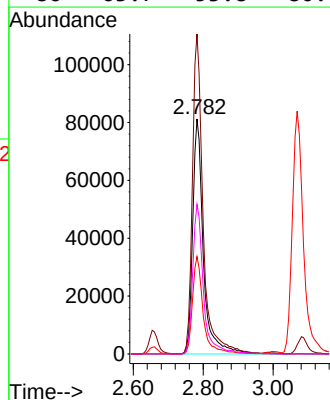
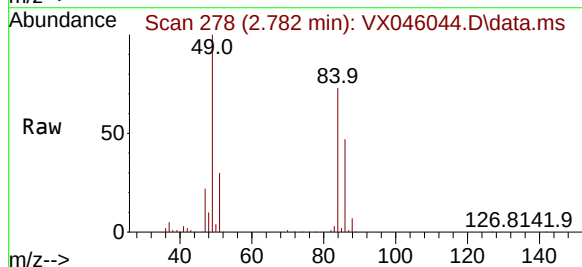
Manual Integrations  
APPROVED

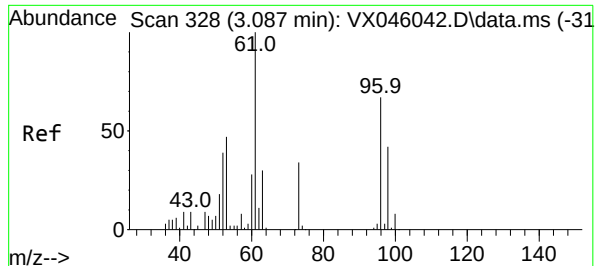
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#20  
Methylene Chloride  
Concen: 100.579 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

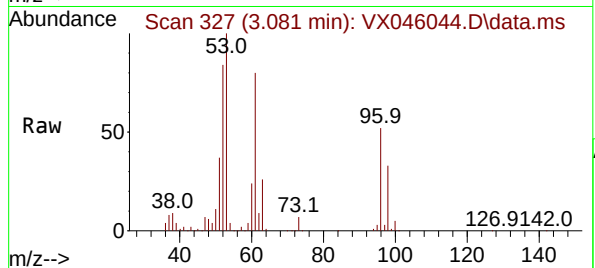
Tgt Ion: 84 Resp: 172035  
Ion Ratio Lower Upper  
84 100  
49 136.0 113.9 170.9  
51 41.5 33.5 50.3  
86 63.7 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 108.241 ug/l  
RT: 3.081 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

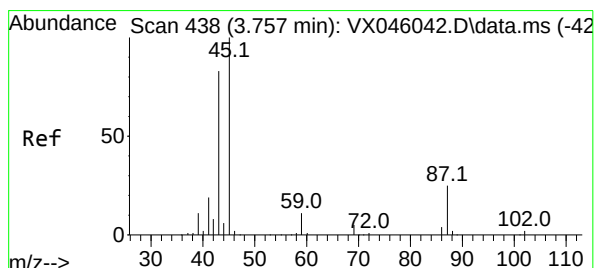
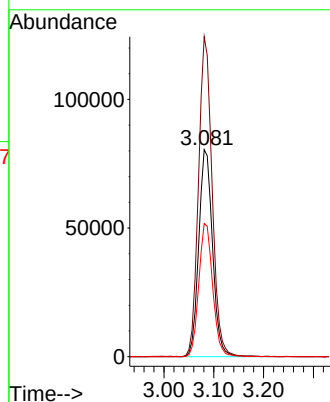
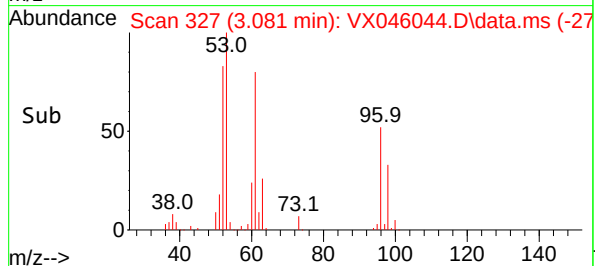
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion: 96 Resp: 154694  
Ion Ratio Lower Upper  
96 100  
61 154.6 119.5 179.3  
98 64.3 50.0 75.0

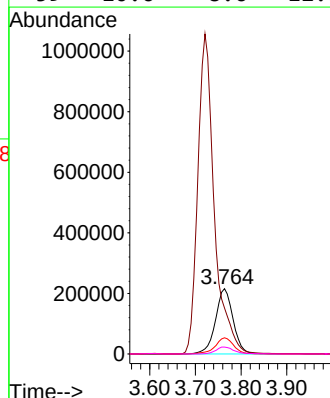
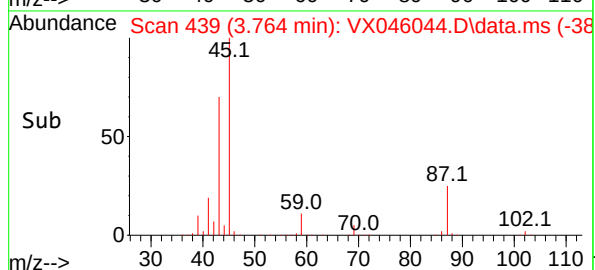
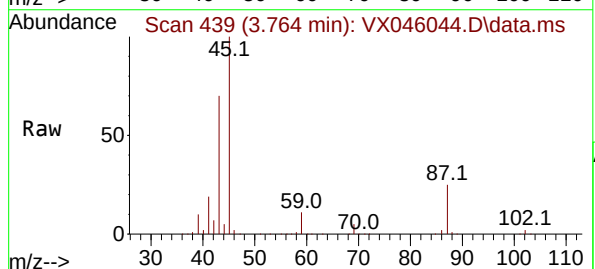
Manual Integrations  
APPROVED

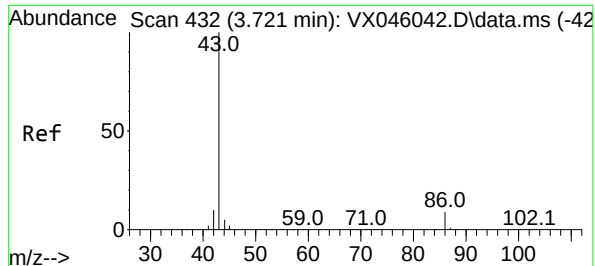
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 116.858 ug/l  
RT: 3.764 min Scan# 439  
Delta R.T. 0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

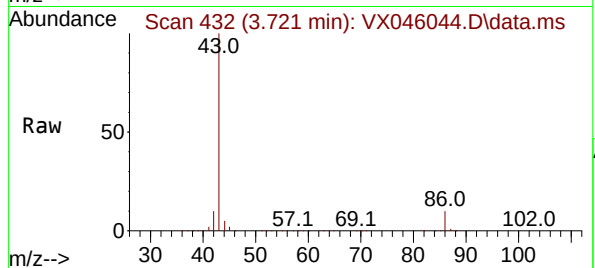
Tgt Ion: 45 Resp: 577610  
Ion Ratio Lower Upper  
45 100  
43 70.3 66.6 100.0  
87 24.7 19.8 29.6  
59 10.6 8.6 12.8





#23  
Vinyl Acetate  
Concen: 608.005 ug/l  
RT: 3.721 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

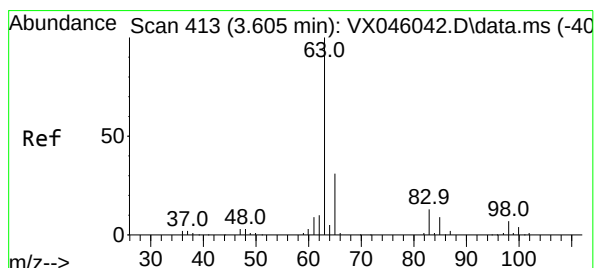
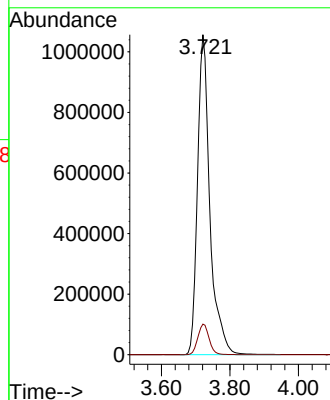
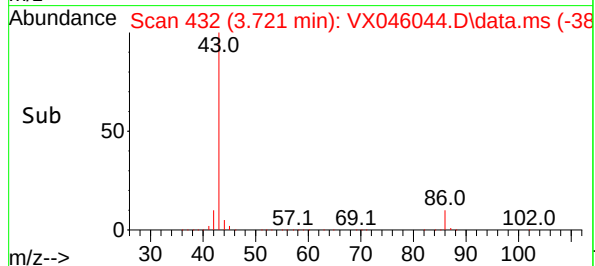
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



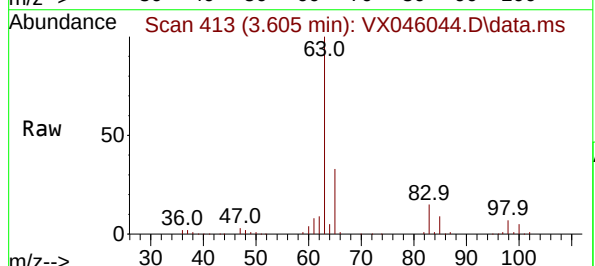
Tgt Ion: 43 Resp: 265575  
Ion Ratio Lower Upper  
43 100  
86 9.6 7.5 11.3

Manual Integrations  
APPROVED

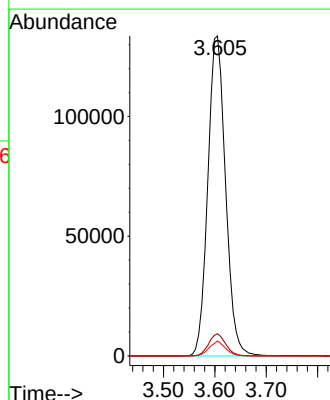
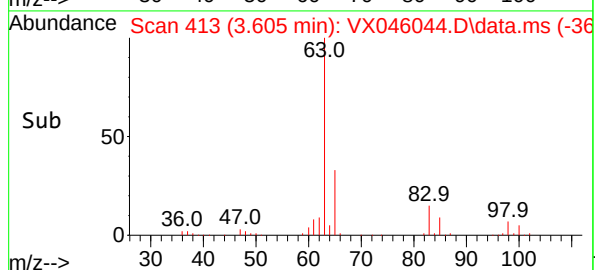
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



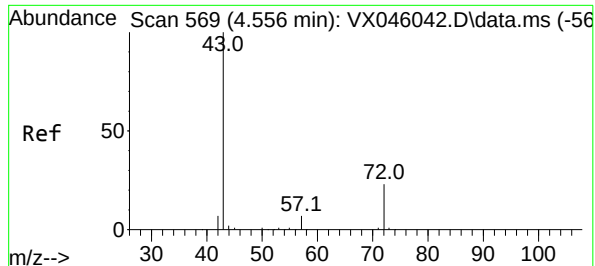
#24  
1,1-Dichloroethane  
Concen: 110.182 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45



Tgt Ion: 63 Resp: 320083  
Ion Ratio Lower Upper  
63 100  
98 7.0 3.6 10.8  
100 4.7 2.1 6.3







#25

2-Butanone

Concen: 581.292 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 70846

Ion Ratio Lower Upper

43 100

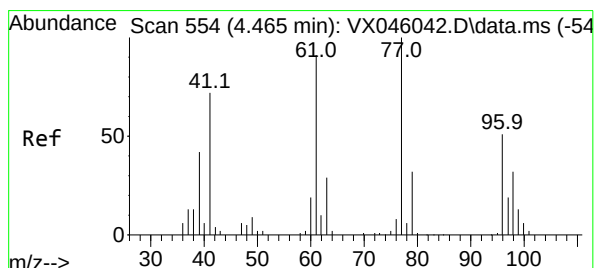
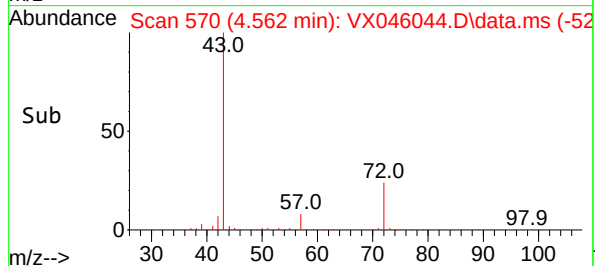
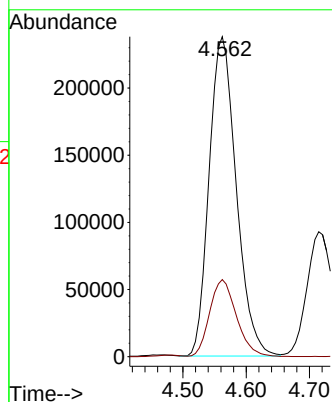
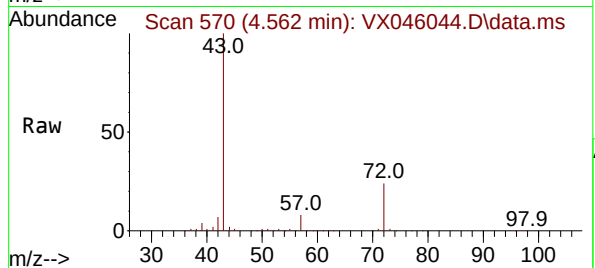
72 24.0 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 117.548 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX046044.D

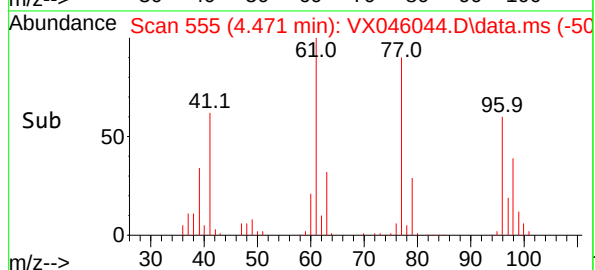
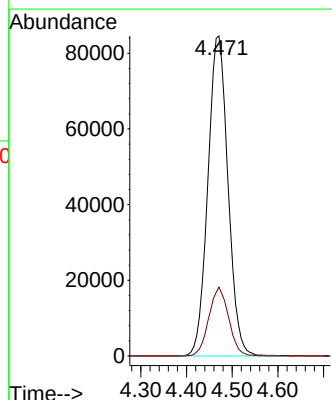
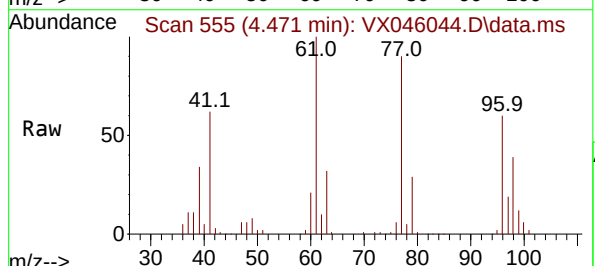
Acq: 05 May 2025 12:45

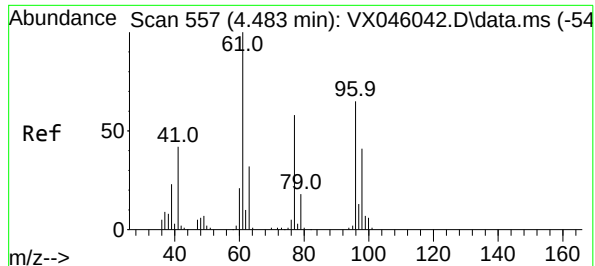
Tgt Ion: 77 Resp: 258698

Ion Ratio Lower Upper

77 100

97 21.1 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 108.994 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 18783

Ion Ratio Lower Upper

96 100

61 159.8 0.0 322.8

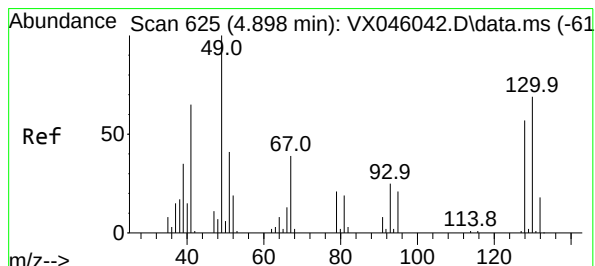
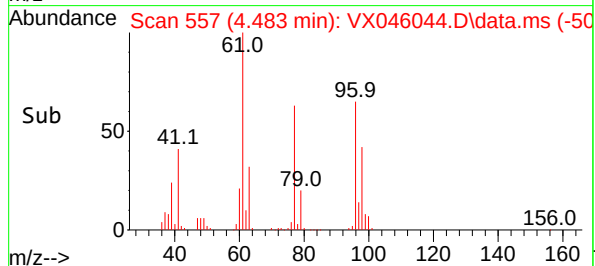
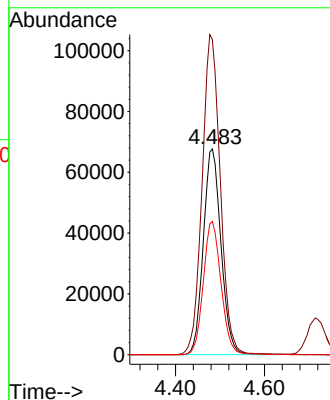
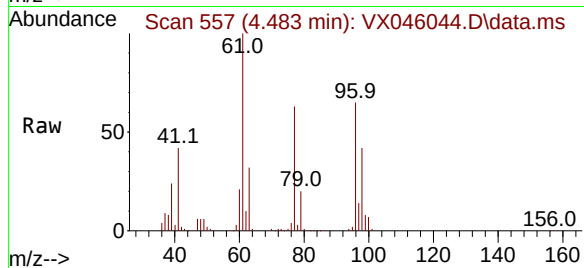
98 64.8 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 95.108 ug/l

RT: 4.898 min Scan# 625

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

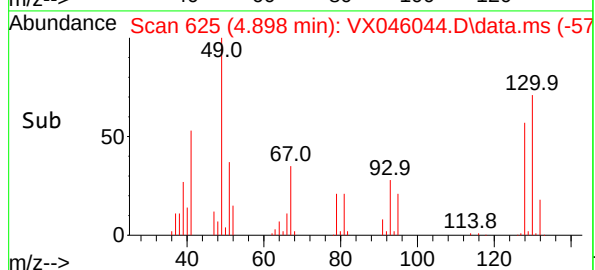
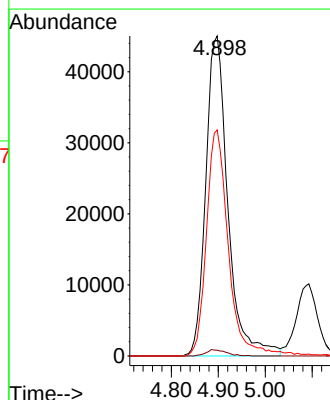
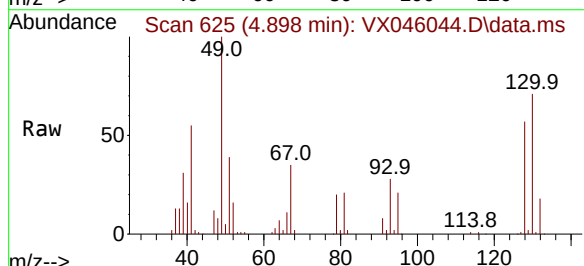
Tgt Ion: 49 Resp: 146923

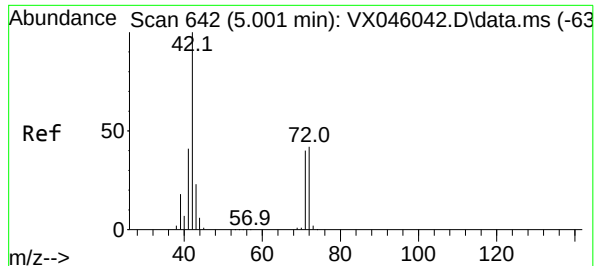
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 70.5 56.2 84.2





#29

Tetrahydrofuran

Concen: 569.081 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 450450

Ion Ratio Lower Upper

42 100

72 41.6 33.7 50.5

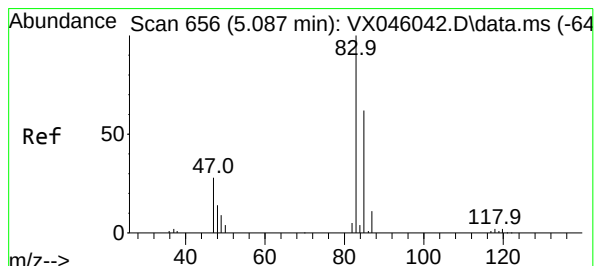
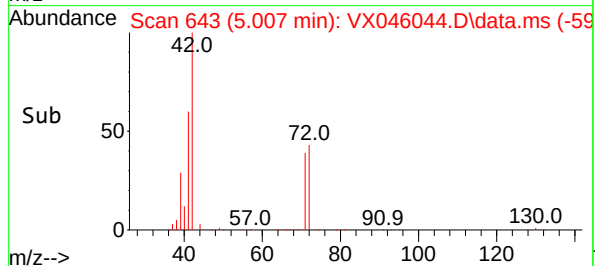
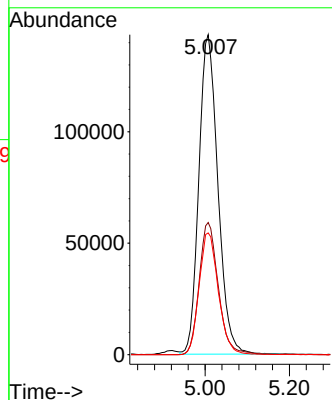
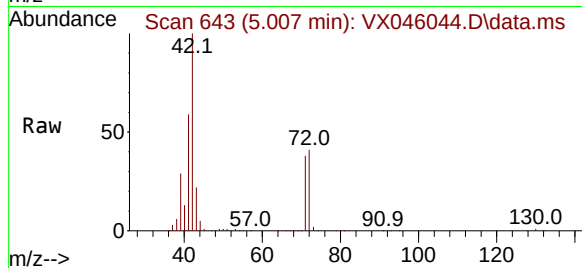
71 38.7 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 107.208 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX046044.D

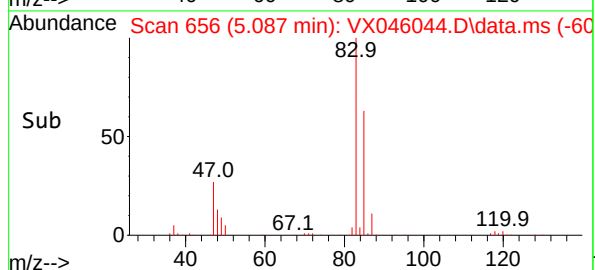
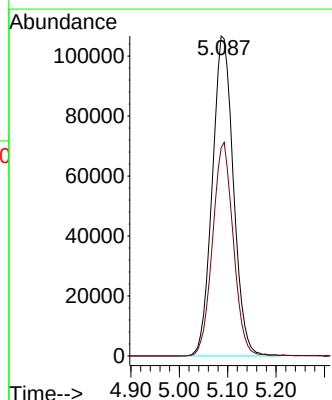
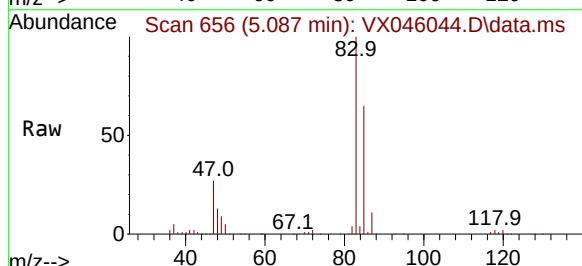
Acq: 05 May 2025 12:45

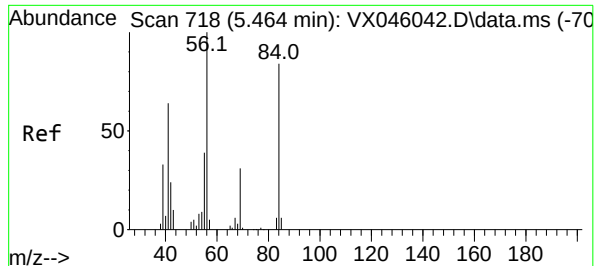
Tgt Ion: 83 Resp: 323659

Ion Ratio Lower Upper

83 100

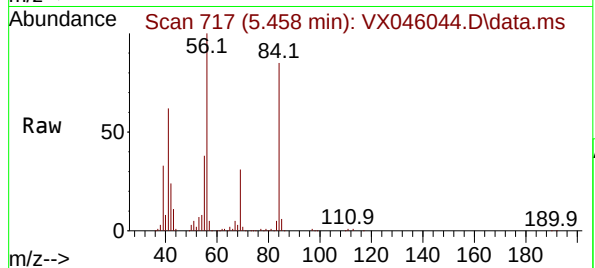
85 65.1 49.3 73.9





#31  
Cyclohexane  
Concen: 116.934 ug/l  
RT: 5.458 min Scan# 717  
Delta R.T. -0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

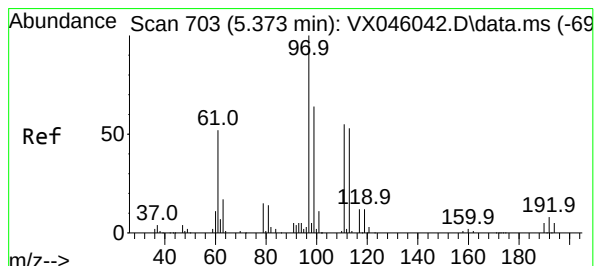
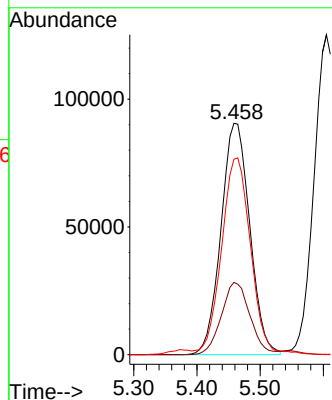
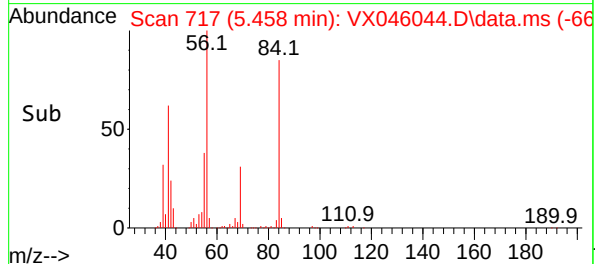
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion: 56 Resp: 28631  
Ion Ratio Lower Upper  
56 100  
69 31.2 24.4 36.6  
84 82.8 66.9 100.3

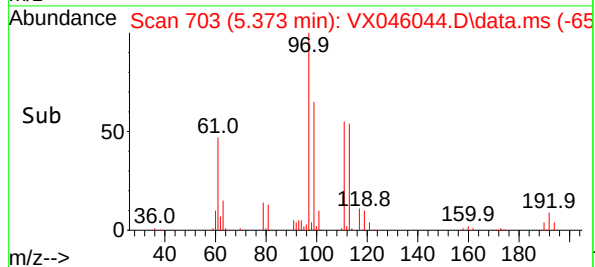
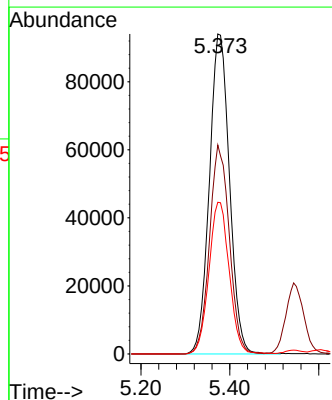
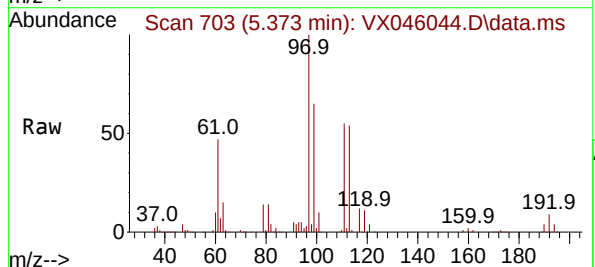
Manual Integrations  
APPROVED

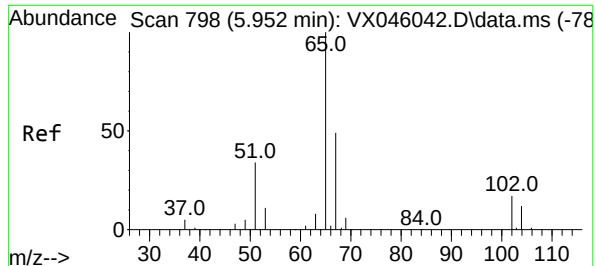
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 113.572 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 97 Resp: 295702  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.8 77.6  
61 48.0 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 93.983 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 231952

Ion Ratio Lower Upper

65 100

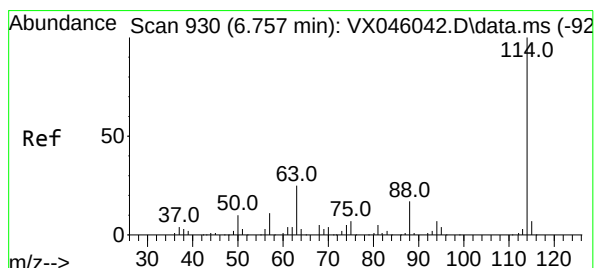
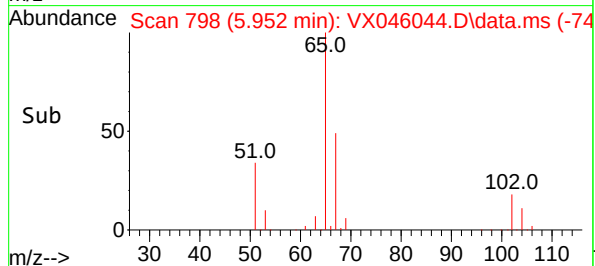
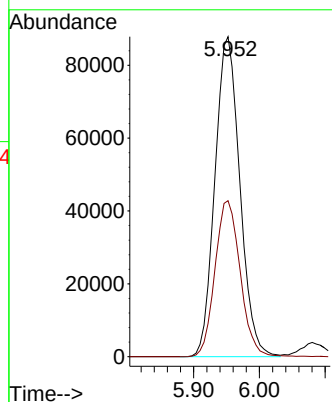
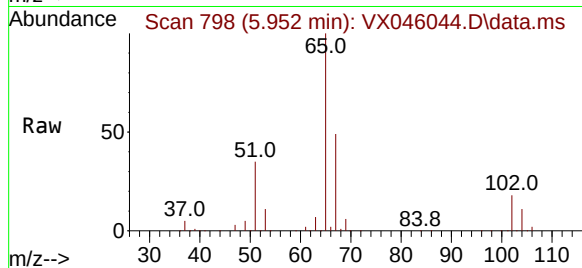
67 49.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

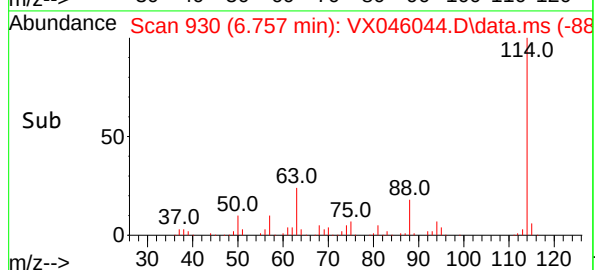
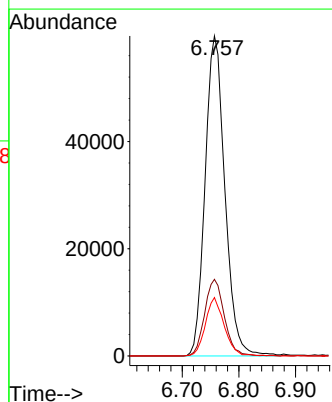
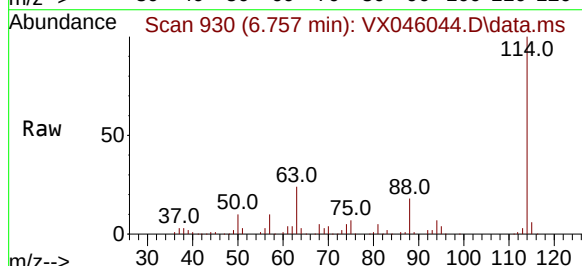
Tgt Ion:114 Resp: 144975

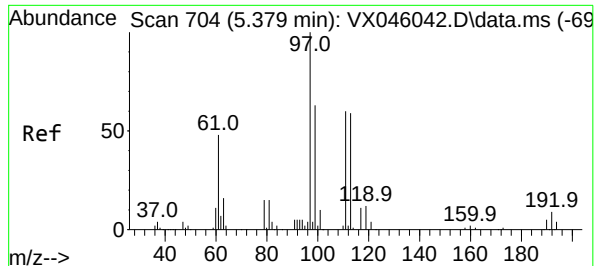
Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.2

88 18.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 98.562 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 160168

Ion Ratio Lower Upper

113 100

111 103.0 83.1 124.7

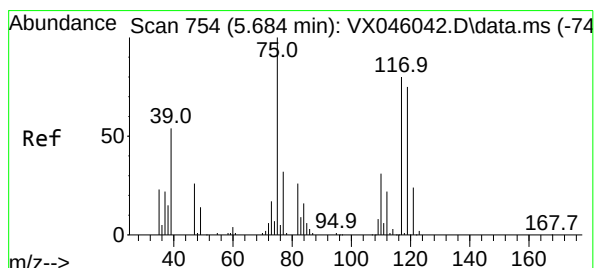
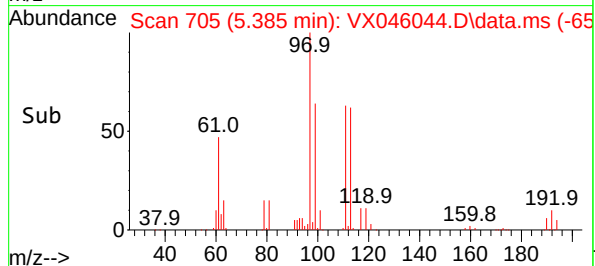
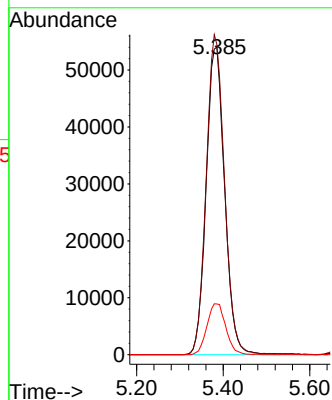
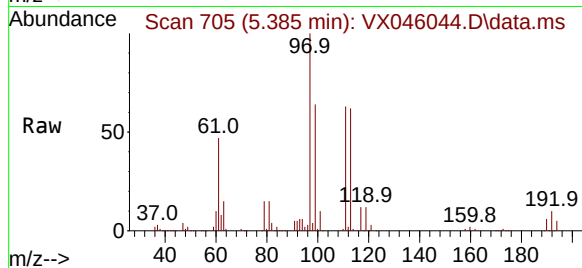
192 16.9 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#36

1,1-Dichloropropene

Concen: 116.462 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

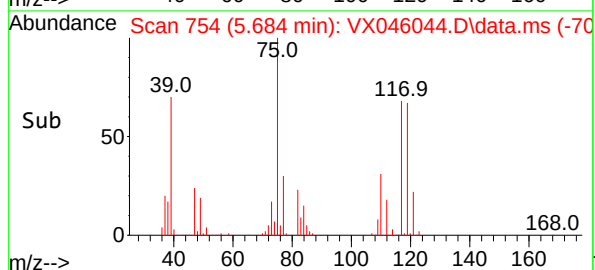
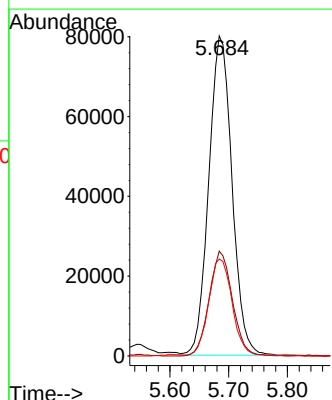
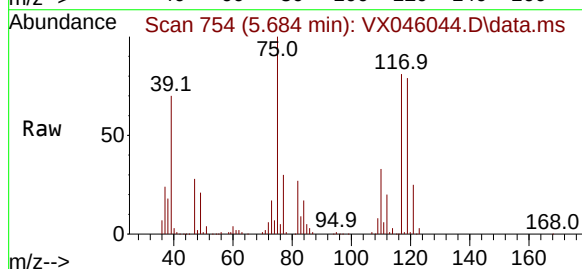
Tgt Ion: 75 Resp: 219731

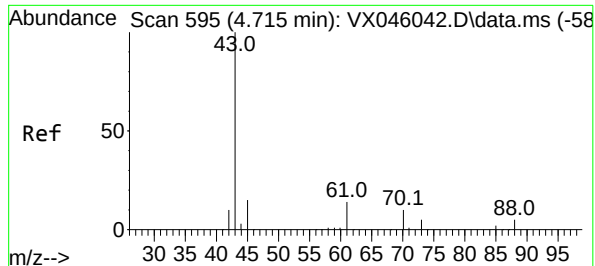
Ion Ratio Lower Upper

75 100

110 32.9 16.3 48.9

77 30.8 24.3 36.5





#37

Ethyl Acetate

Concen: 115.889 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 274312

Ion Ratio Lower Upper

43 100

61 12.5 10.3 15.5

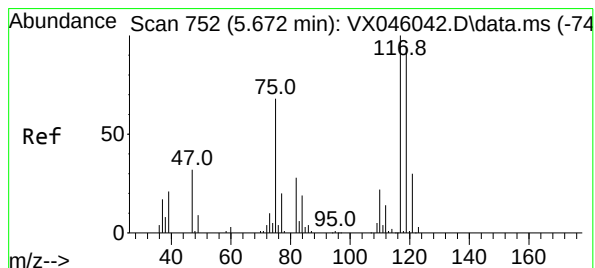
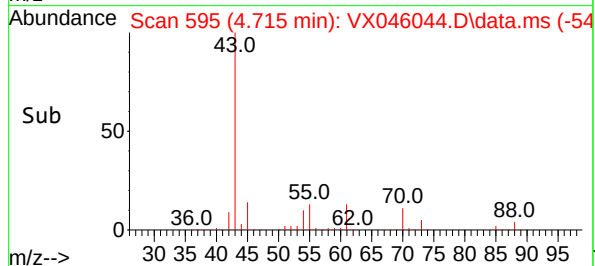
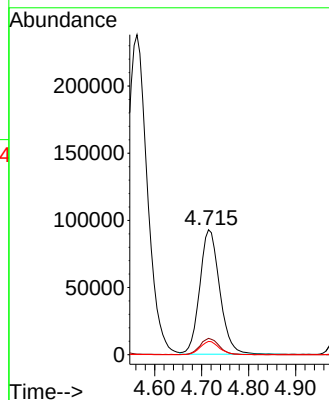
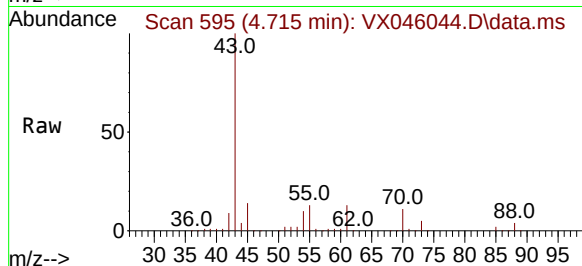
70 10.2 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#38

Carbon Tetrachloride

Concen: 115.760 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

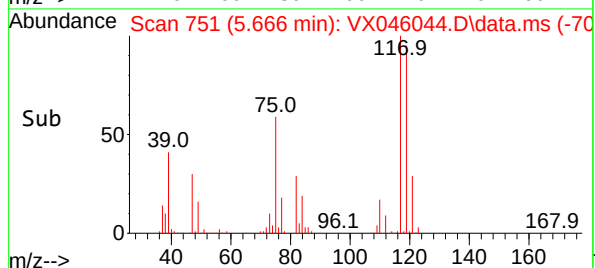
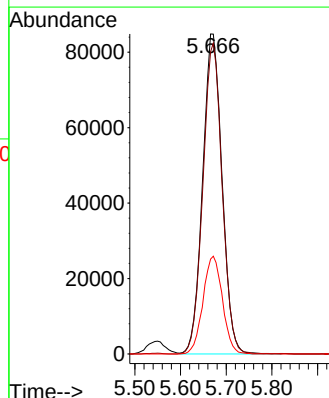
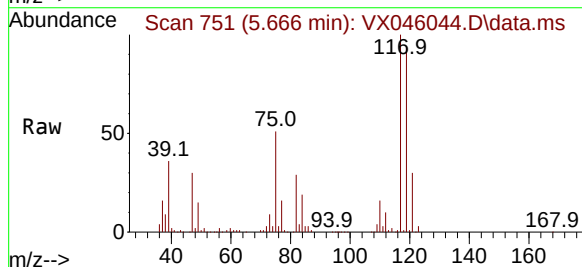
Tgt Ion:117 Resp: 250916

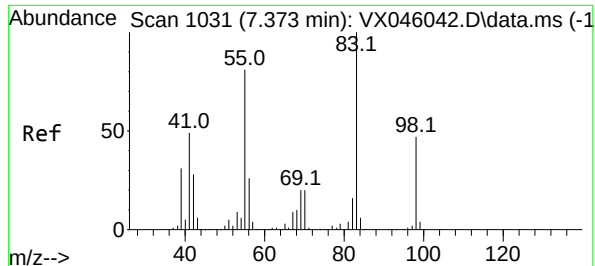
Ion Ratio Lower Upper

117 100

119 94.3 75.2 112.8

121 29.7 24.2 36.4





#39

Methylcyclohexane

Concen: 121.107 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 28631

Ion Ratio Lower Upper

83 100

55 83.8 64.7 97.1

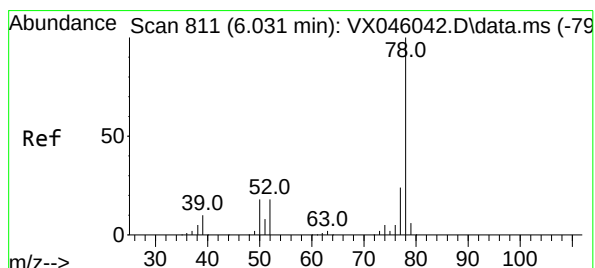
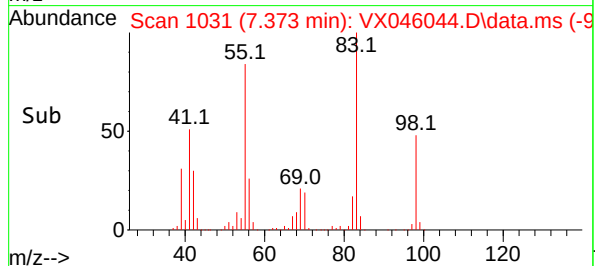
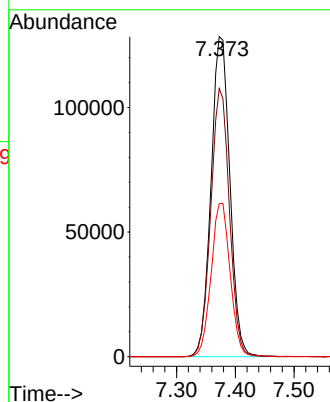
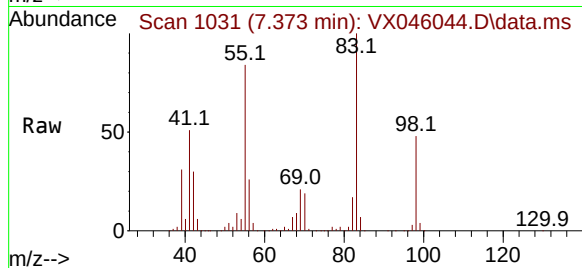
98 47.8 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#40

Benzene

Concen: 109.813 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX046044.D

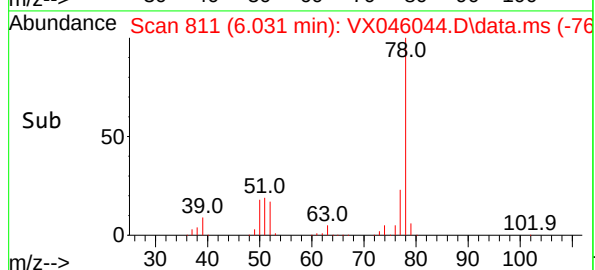
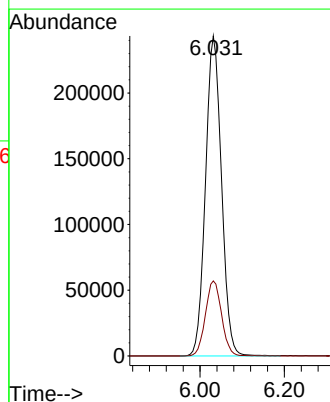
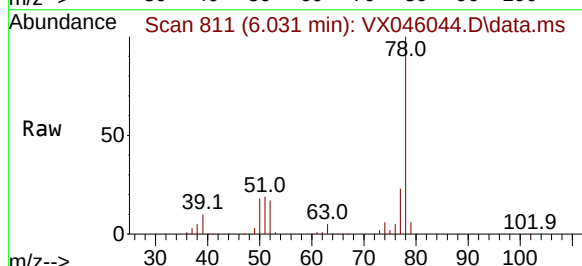
Acq: 05 May 2025 12:45

Tgt Ion: 78 Resp: 642178

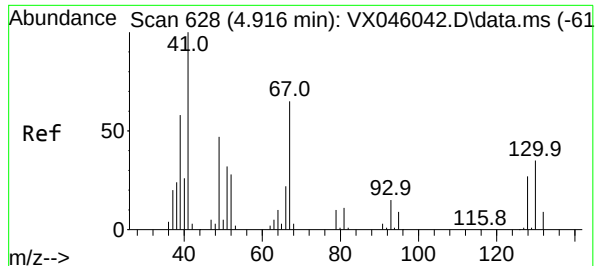
Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4

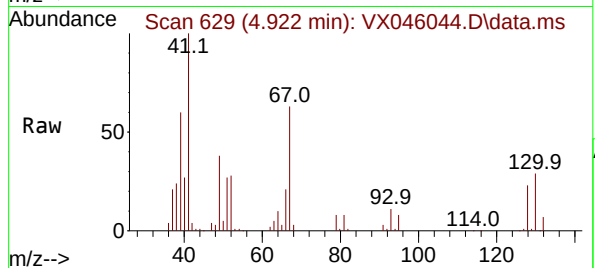






#41  
Methacrylonitrile  
Concen: 115.139 ug/l  
RT: 4.922 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

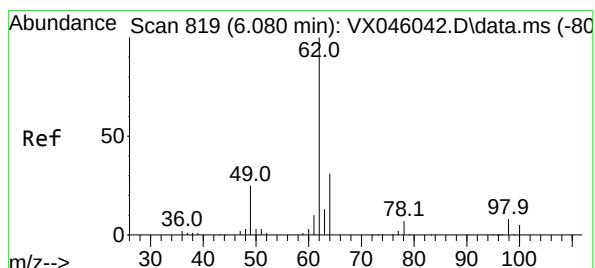
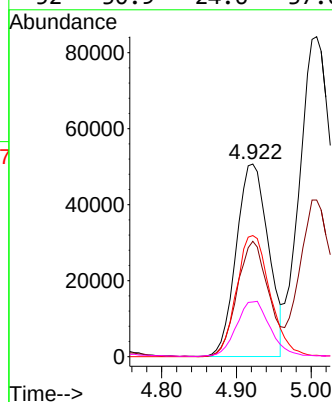
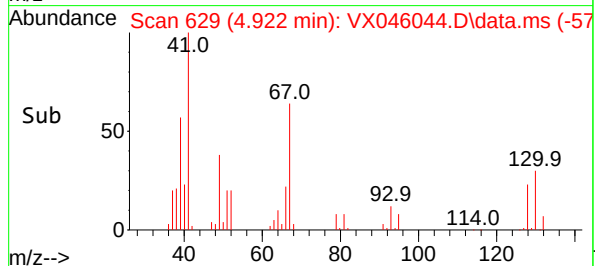
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion: 41 Resp: 151424  
Ion Ratio Lower Upper  
41 100  
39 60.0 47.2 70.8  
67 65.9 50.7 76.1  
52 30.9 24.6 37.0

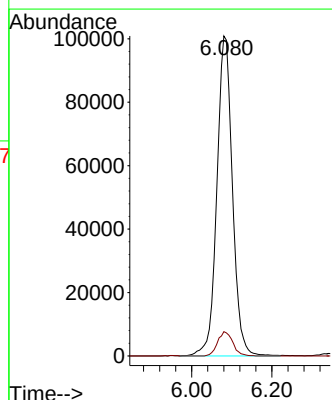
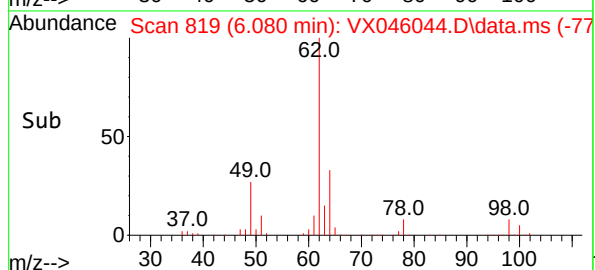
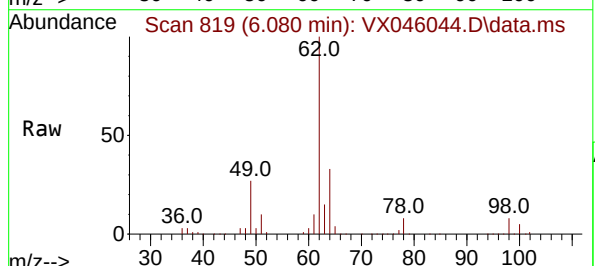
Manual Integrations  
APPROVED

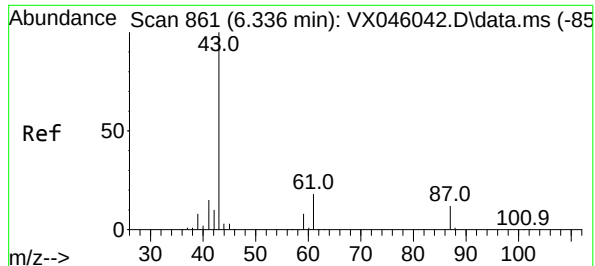
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#42  
1,2-Dichloroethane  
Concen: 112.492 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 271992  
Ion Ratio Lower Upper  
62 100  
98 7.4 0.0 15.2





#43

Isopropyl Acetate

Concen: 123.780 ug/l

RT: 6.342 min Scan# 861

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 44787

Ion Ratio Lower Upper

43 100

61 18.1 14.3 21.5

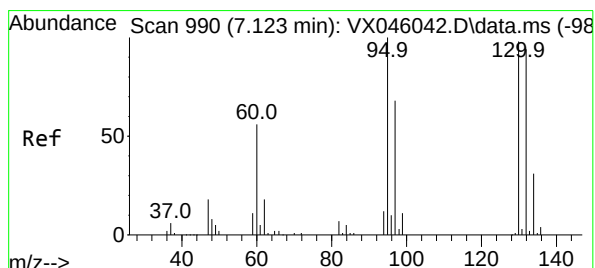
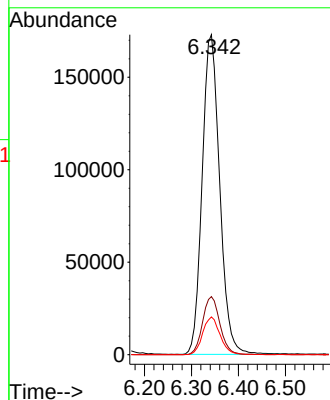
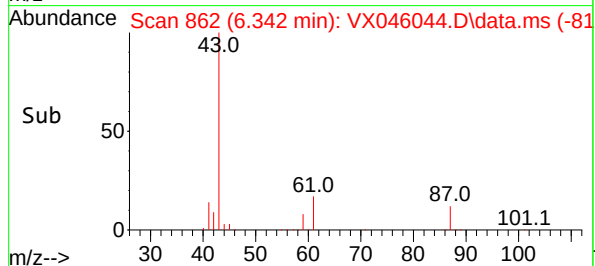
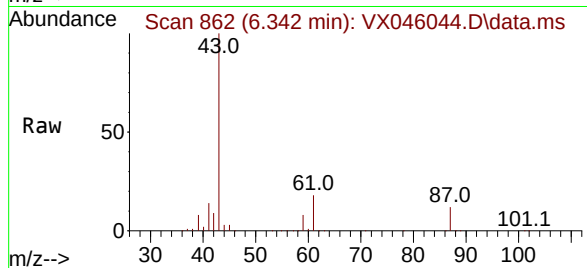
87 11.7 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#44

Trichloroethene

Concen: 114.032 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX046044.D

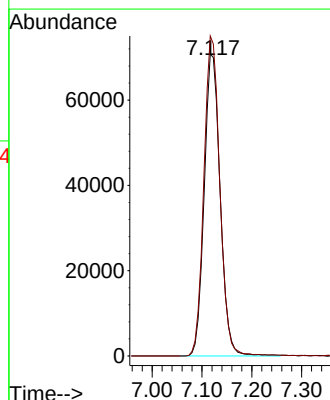
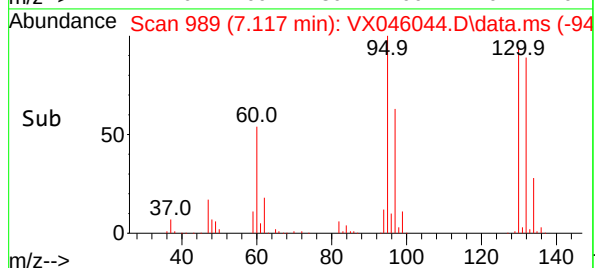
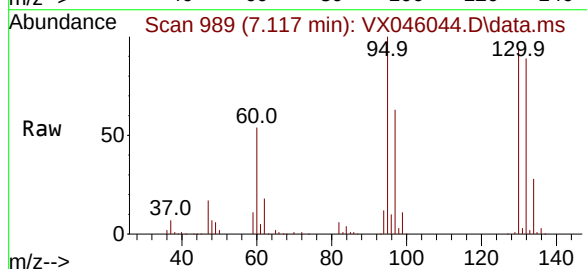
Acq: 05 May 2025 12:45

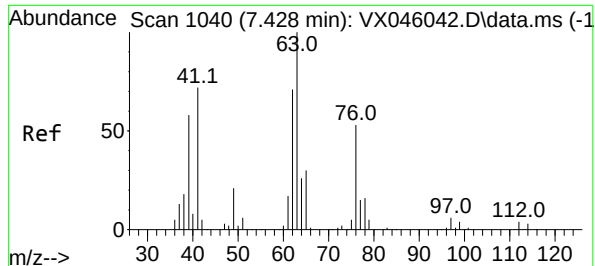
Tgt Ion:130 Resp: 157641

Ion Ratio Lower Upper

130 100

95 105.9 0.0 204.2





#45

1,2-Dichloropropane

Concen: 113.217 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 16450

Ion Ratio Lower Upper

63 100

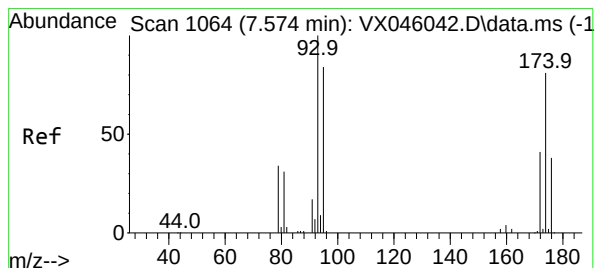
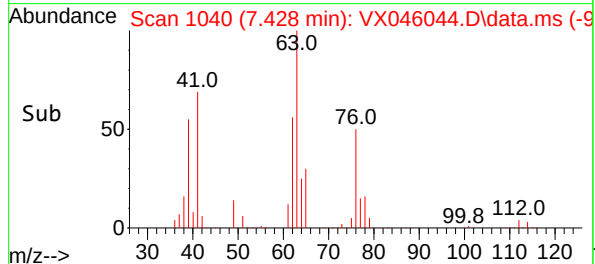
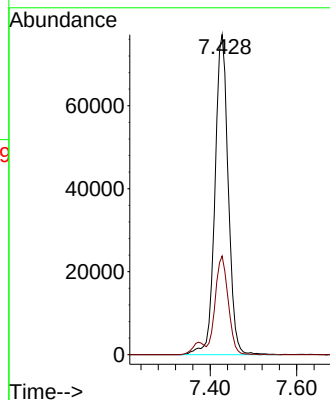
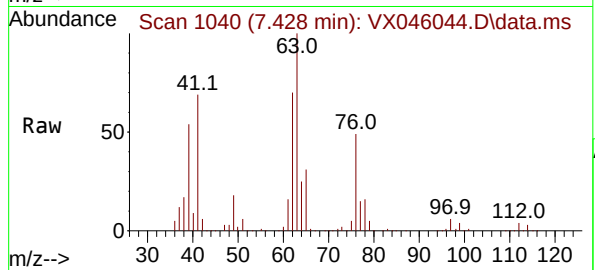
65 30.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#46

Dibromomethane

Concen: 109.869 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

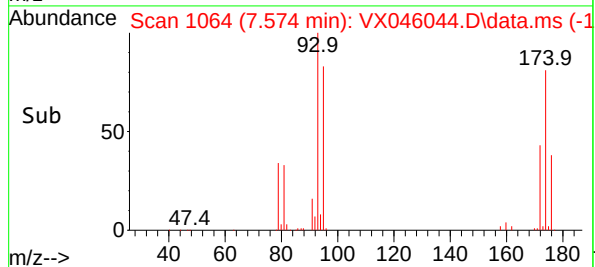
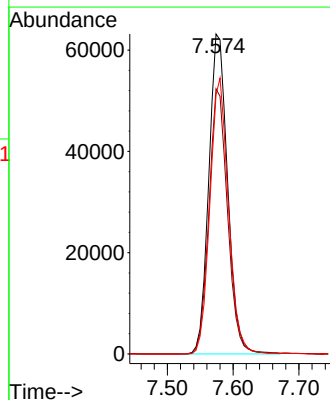
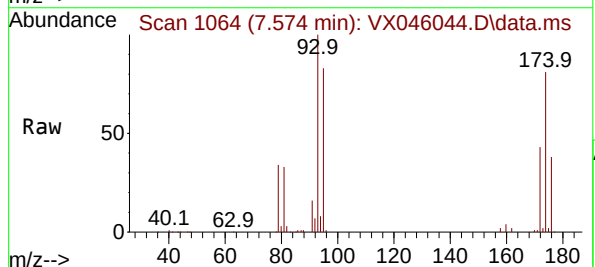
Tgt Ion: 93 Resp: 125846

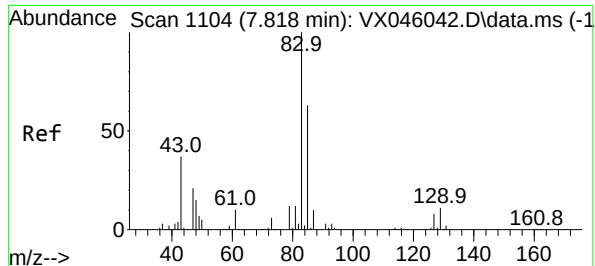
Ion Ratio Lower Upper

93 100

95 82.4 65.6 98.4

174 85.0 68.2 102.2





#47

Bromodichloromethane

Concen: 116.365 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 258320

Ion Ratio Lower Upper

83 100

85 64.8 50.5 75.7

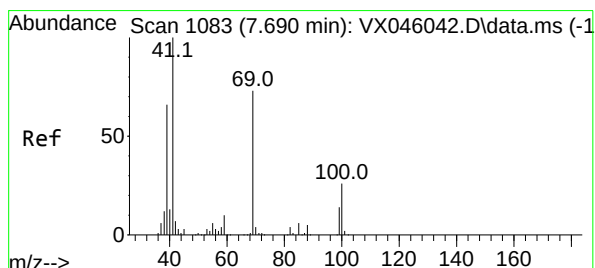
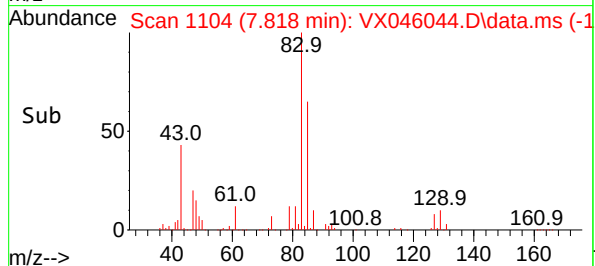
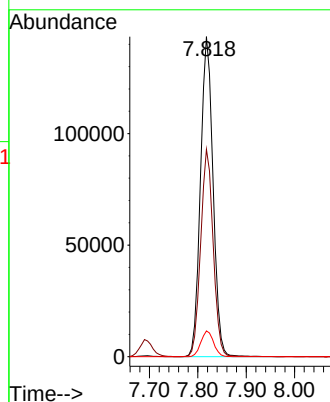
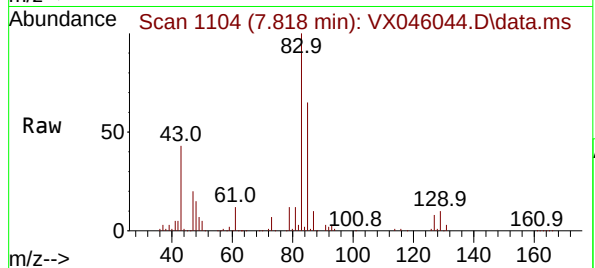
127 8.0 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#48

Methyl methacrylate

Concen: 124.356 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

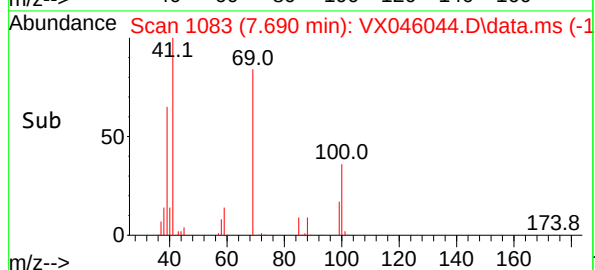
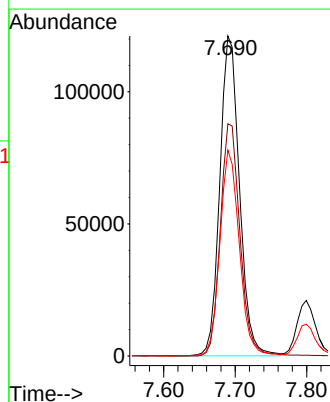
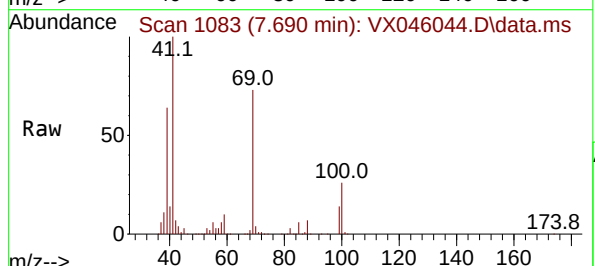
Tgt Ion: 41 Resp: 231040

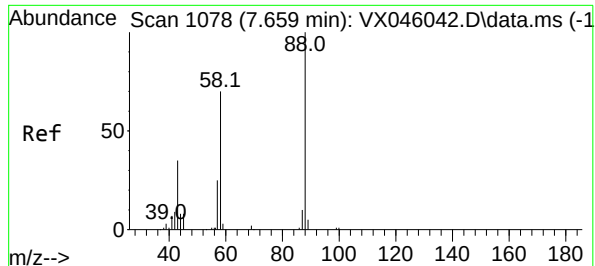
Ion Ratio Lower Upper

41 100

69 73.0 58.5 87.7

39 63.8 51.7 77.5





#49

1,4-Dioxane

Concen: 2241.695 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 82800

Ion Ratio Lower Upper

88 100

43 40.0 33.4 50.2

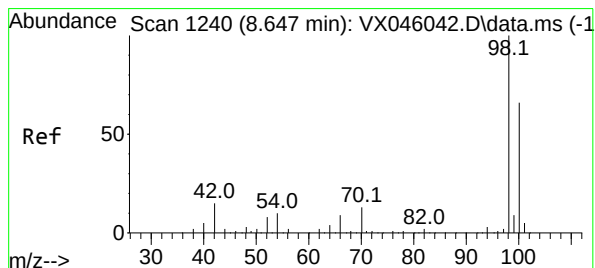
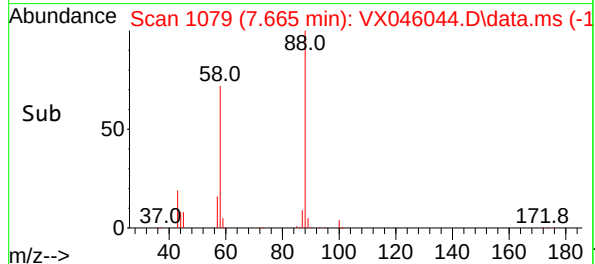
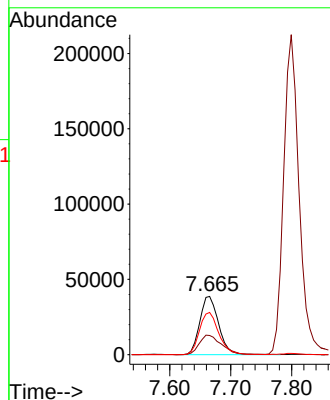
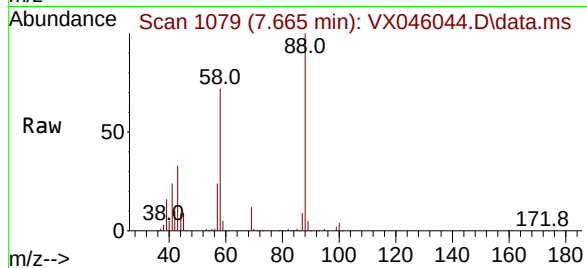
58 74.8 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#50

Toluene-d8

Concen: 101.252 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX046044.D

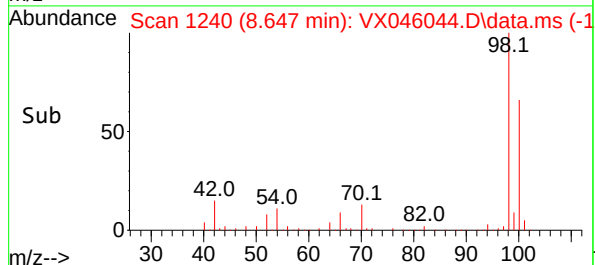
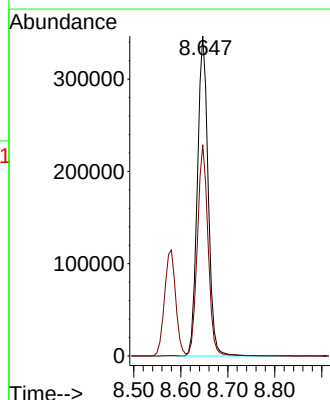
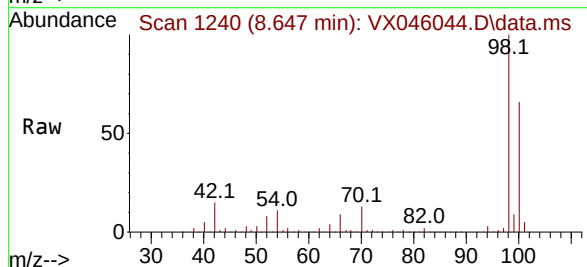
Acq: 05 May 2025 12:45

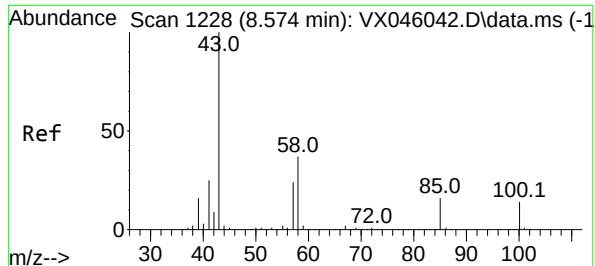
Tgt Ion: 98 Resp: 554390

Ion Ratio Lower Upper

98 100

100 65.4 53.5 80.3





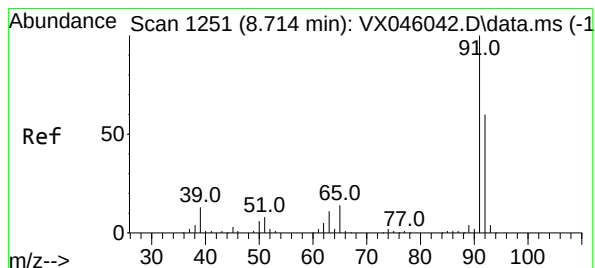
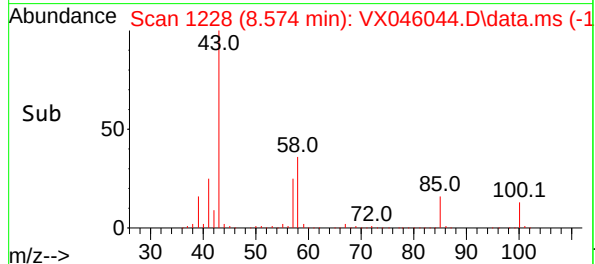
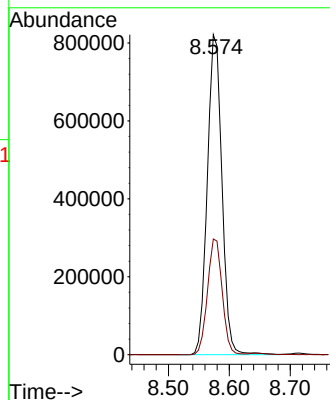
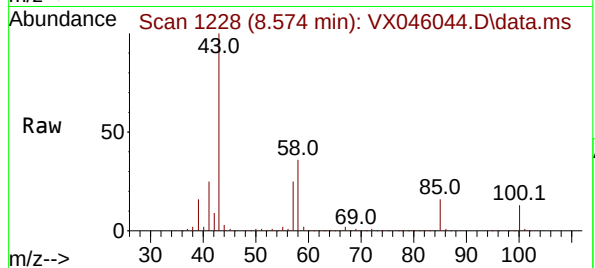
#51  
4-Methyl-2-Pentanone  
Concen: 577.831 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 43 Resp: 137127  
Ion Ratio Lower Upper  
43 100  
58 36.2 28.9 43.3

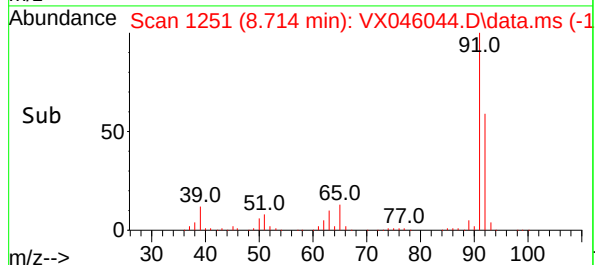
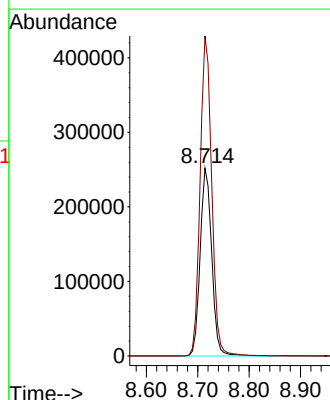
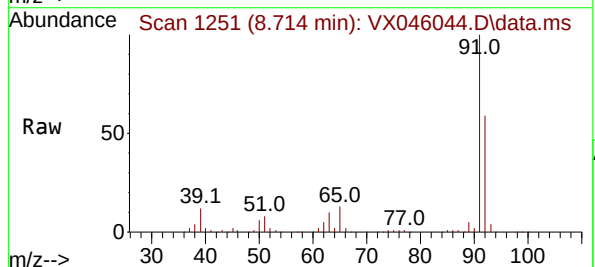
Manual Integrations  
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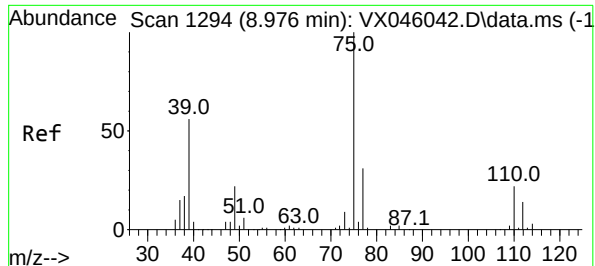
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#52  
Toluene  
Concen: 113.430 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 92 Resp: 393323  
Ion Ratio Lower Upper  
92 100  
91 171.0 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 138.001 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 25723

Ion Ratio Lower Upper

75 100

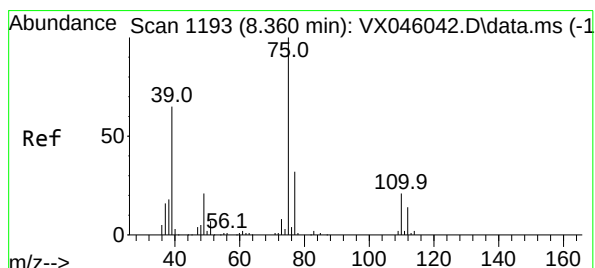
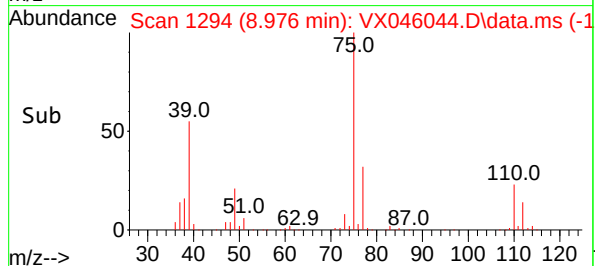
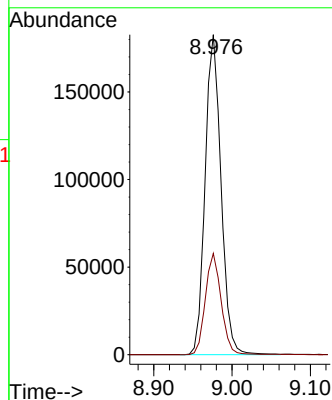
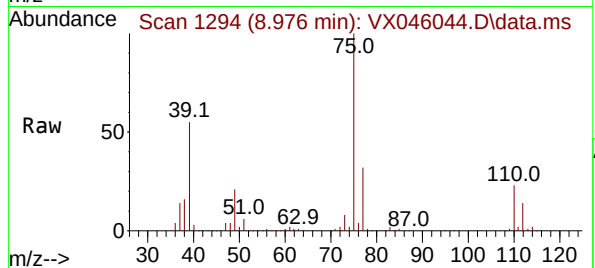
77 31.7 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#54

cis-1,3-Dichloropropene

Concen: 124.658 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

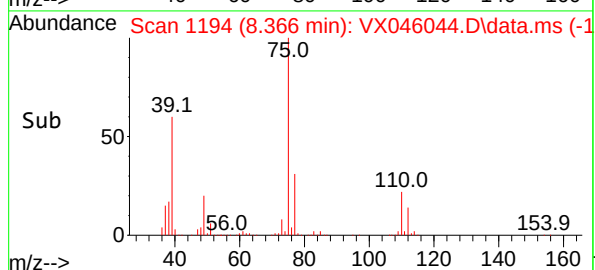
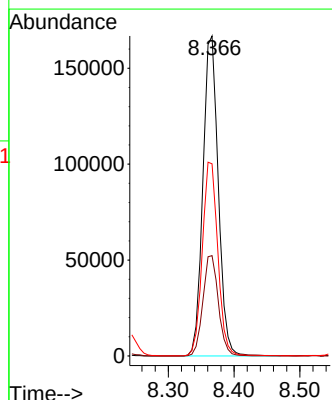
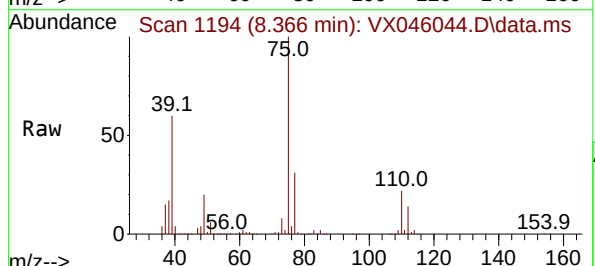
Tgt Ion: 75 Resp: 271054

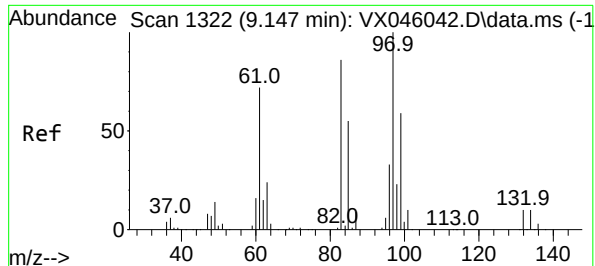
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

39 60.0 52.2 78.4





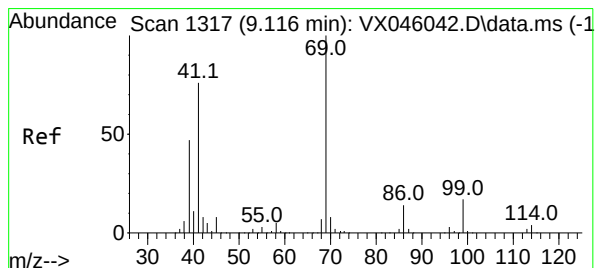
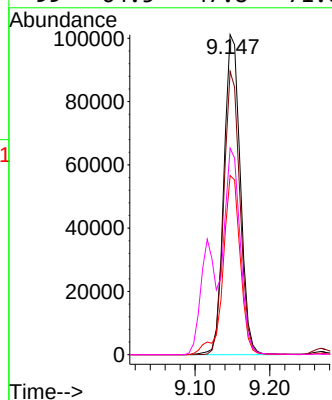
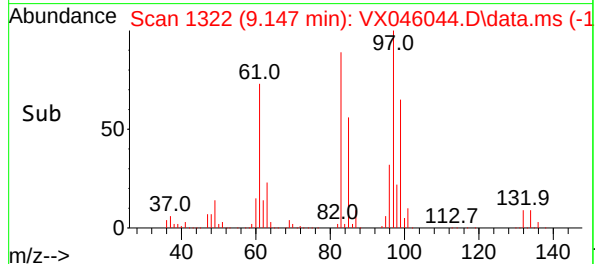
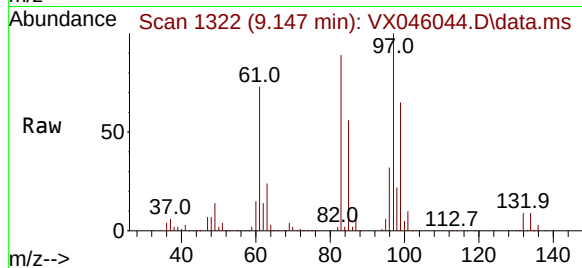
#55  
1,1,2-Trichloroethane  
Concen: 110.551 ug/l  
RT: 9.147 min Scan# 1322  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 97 Resp: 154932  
Ion Ratio Lower Upper  
97 100  
83 88.5 69.0 103.6  
85 56.0 44.3 66.5  
99 64.5 47.8 71.6

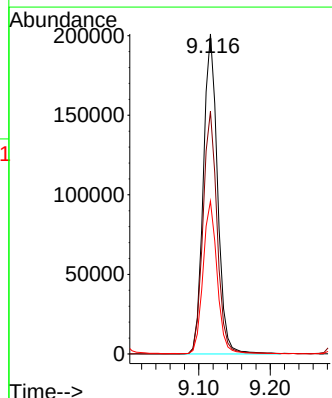
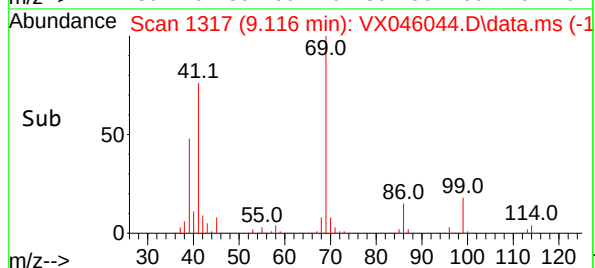
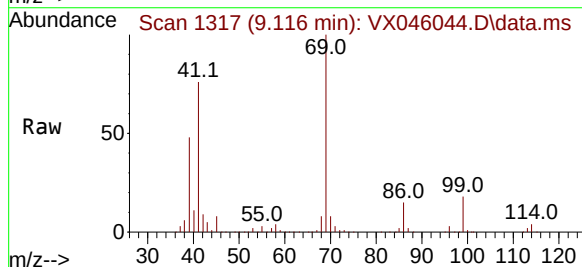
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

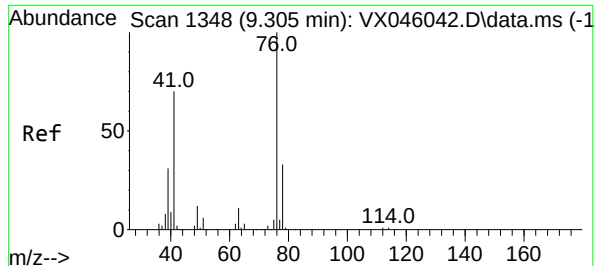


#56  
Ethyl methacrylate  
Concen: 127.968 ug/l  
RT: 9.116 min Scan# 1317  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 69 Resp: 277921  
Ion Ratio Lower Upper  
69 100  
41 75.4 60.8 91.2  
39 47.2 39.0 58.6







#57

1,3-Dichloropropane

Concen: 109.813 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 272814

Ion Ratio Lower Upper

76 100

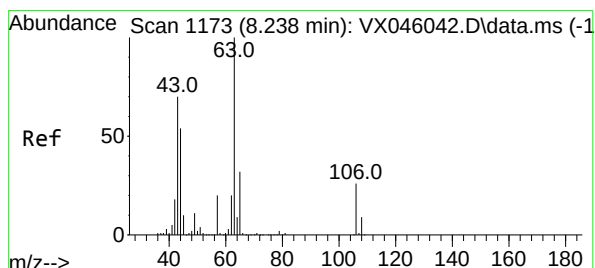
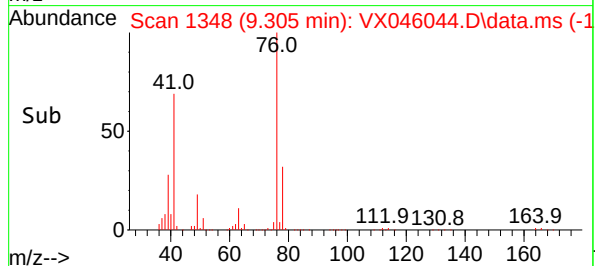
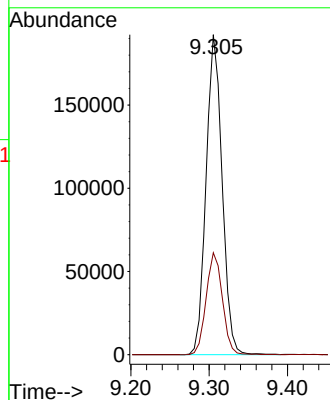
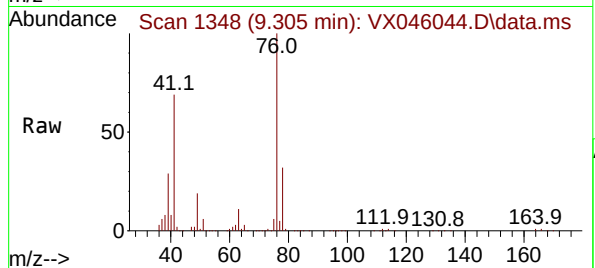
78 32.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 697.344 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.006 min

Lab File: VX046044.D

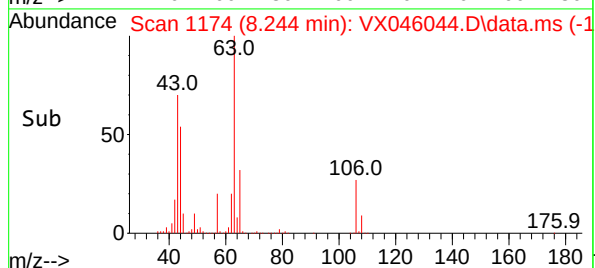
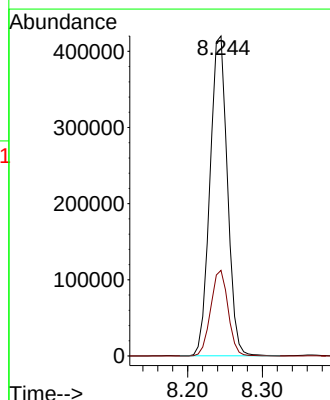
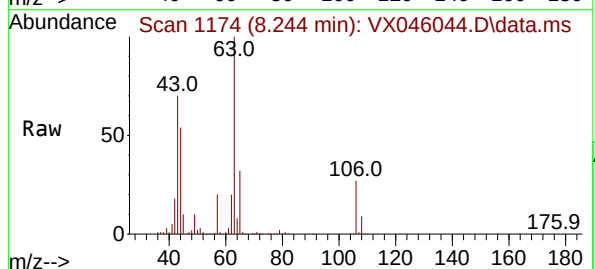
Acq: 05 May 2025 12:45

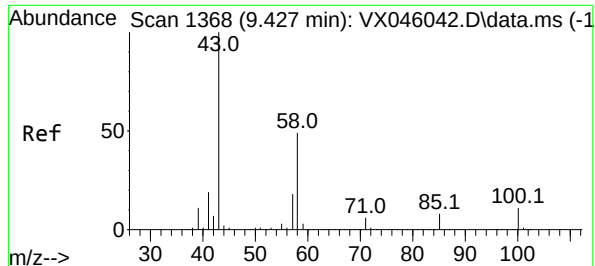
Tgt Ion: 63 Resp: 680608

Ion Ratio Lower Upper

63 100

106 26.7 21.5 32.3





#59

2-Hexanone

Concen: 571.094 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 102859

Ion Ratio Lower Upper

43 100

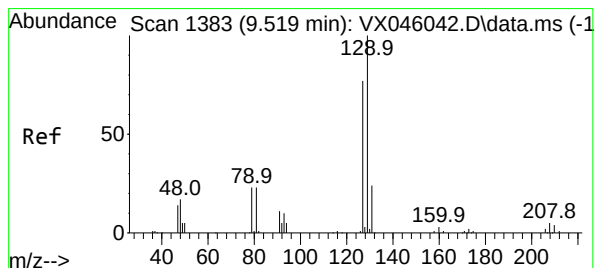
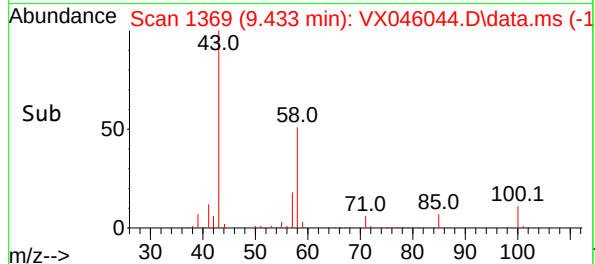
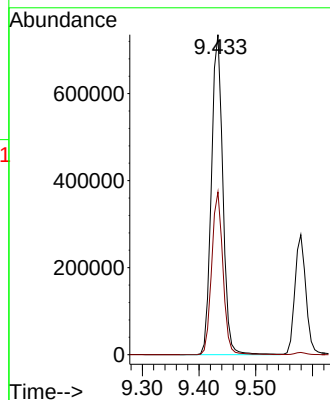
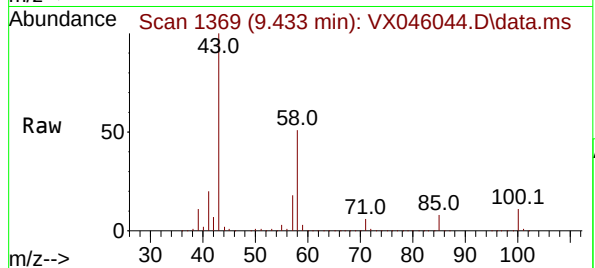
58 50.2 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#60

Dibromochloromethane

Concen: 122.915 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX046044.D

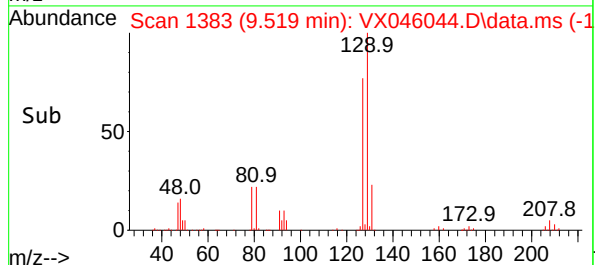
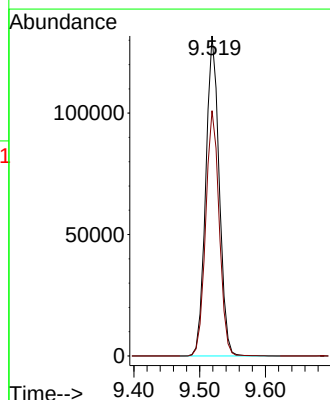
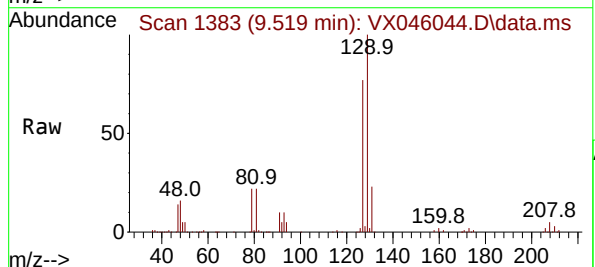
Acq: 05 May 2025 12:45

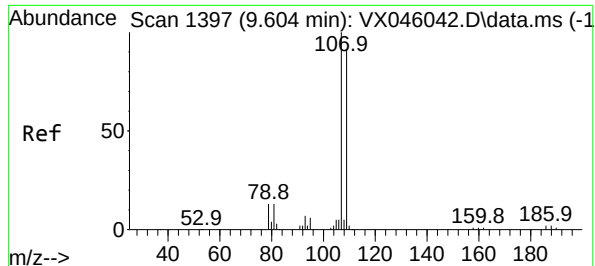
Tgt Ion:129 Resp: 187497

Ion Ratio Lower Upper

129 100

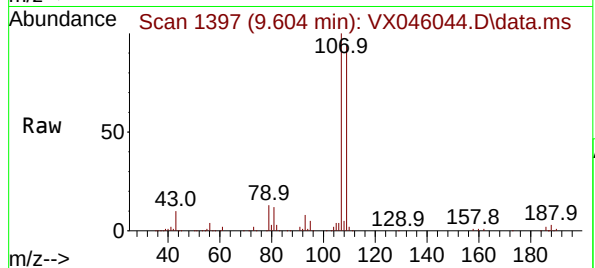
127 77.1 39.3 117.8





#61  
1,2-Dibromoethane  
Concen: 115.087 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

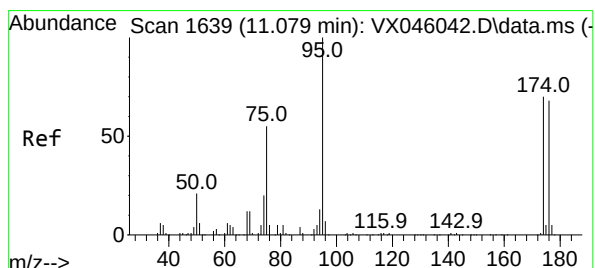
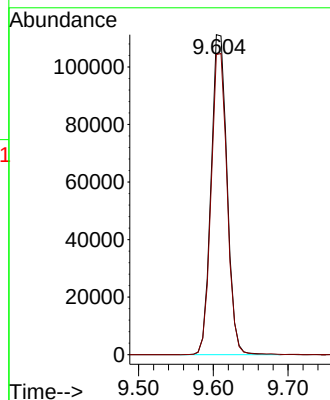
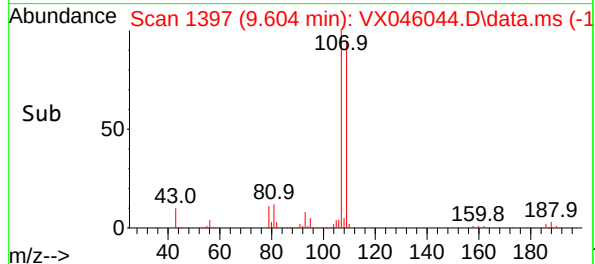
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:107 Resp: 165634  
Ion Ratio Lower Upper  
107 100  
109 94.6 73.3 109.9

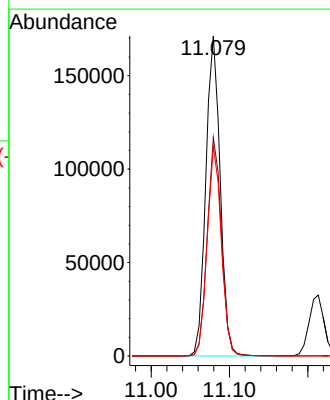
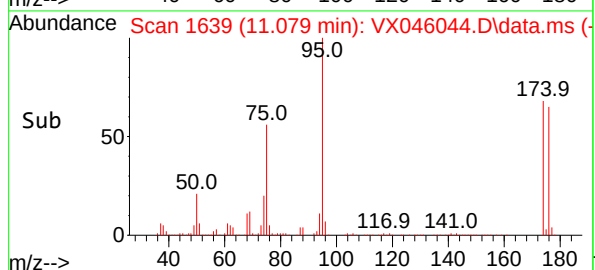
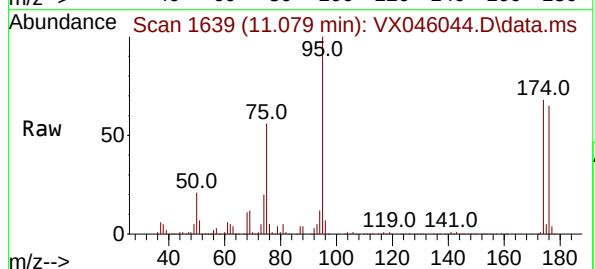
Manual Integrations  
APPROVED

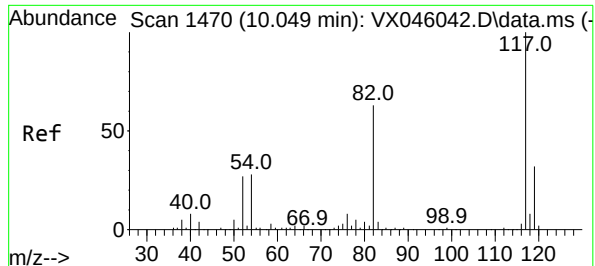
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#62  
4-Bromofluorobenzene  
Concen: 109.174 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

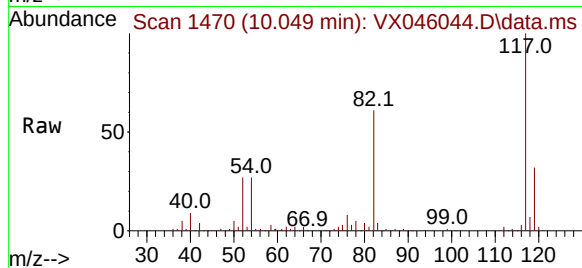
Tgt Ion: 95 Resp: 217536  
Ion Ratio Lower Upper  
95 100  
174 67.5 0.0 135.8  
176 64.4 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

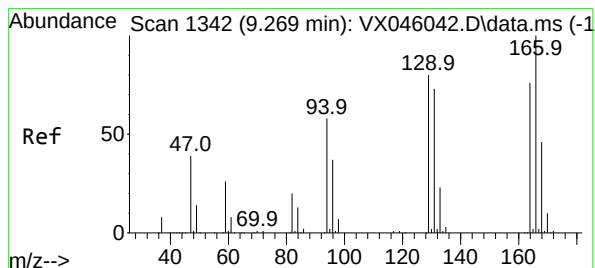
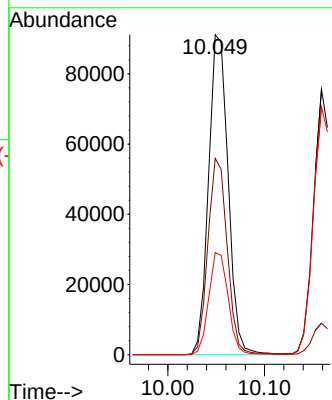
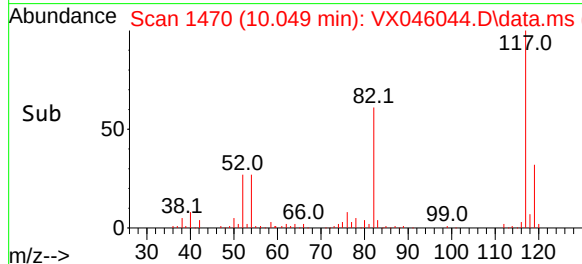
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:117 Resp: 12855  
Ion Ratio Lower Upper  
117 100  
82 61.4 50.6 76.0  
119 31.9 25.8 38.6

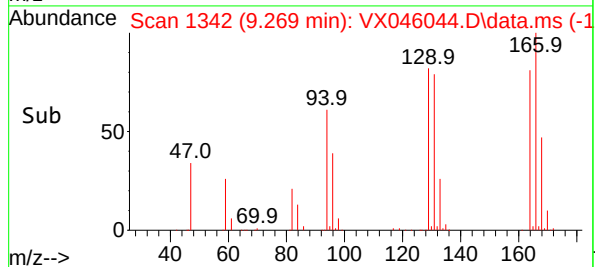
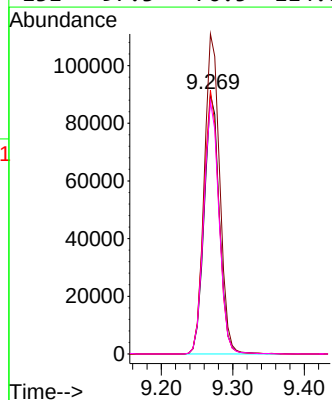
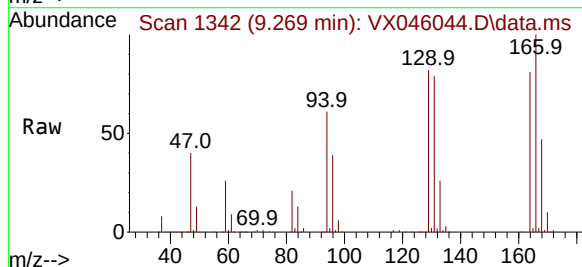
Manual Integrations  
APPROVED

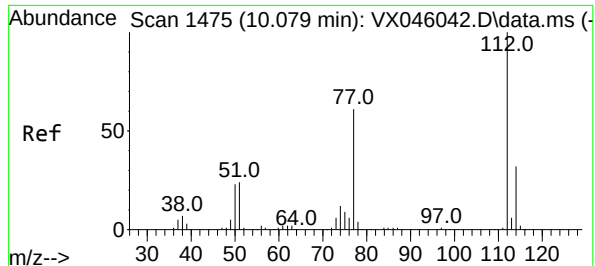
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#64  
Tetrachloroethene  
Concen: 100.918 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:164 Resp: 132488  
Ion Ratio Lower Upper  
164 100  
166 123.3 105.0 157.6  
129 101.6 83.5 125.3  
131 97.3 76.5 114.7





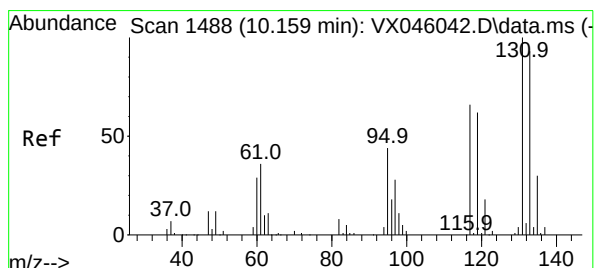
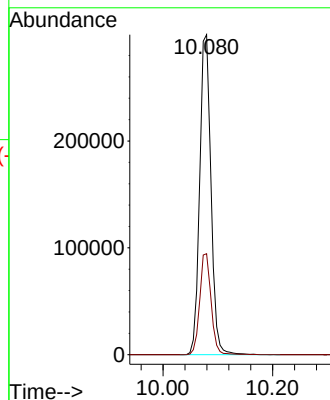
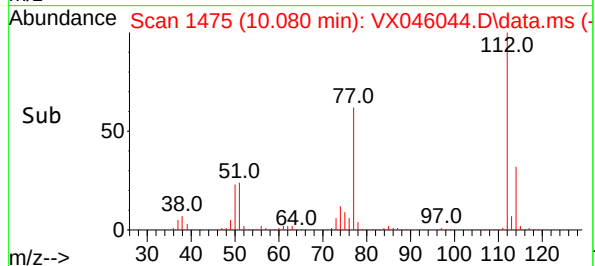
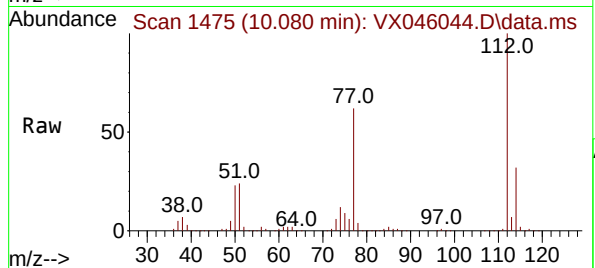
#65  
Chlorobenzene  
Concen: 108.615 ug/l  
RT: 10.080 min Scan# 1475  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion:112 Resp: 429650  
Ion Ratio Lower Upper  
112 100  
114 31.5 25.4 38.2

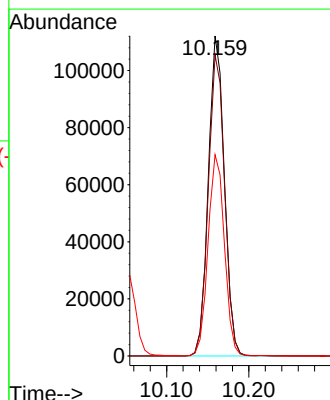
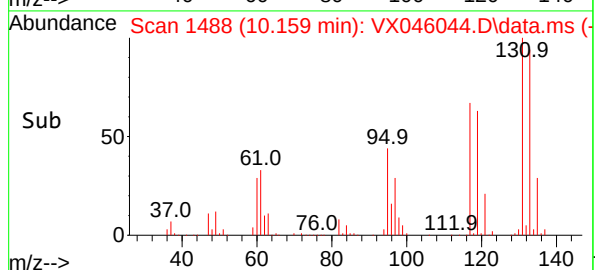
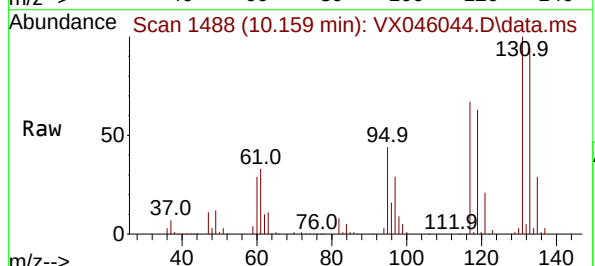
Manual Integrations  
APPROVED

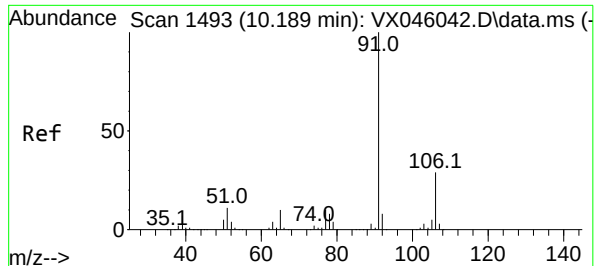
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 115.333 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:131 Resp: 152173  
Ion Ratio Lower Upper  
131 100  
133 95.7 47.3 141.9  
119 64.0 31.6 95.0





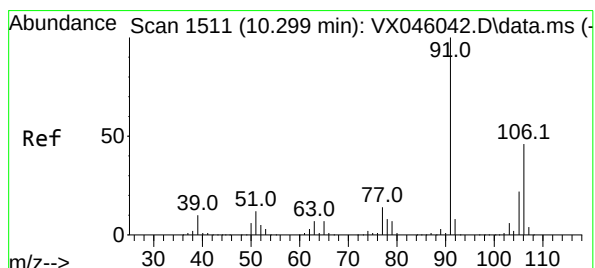
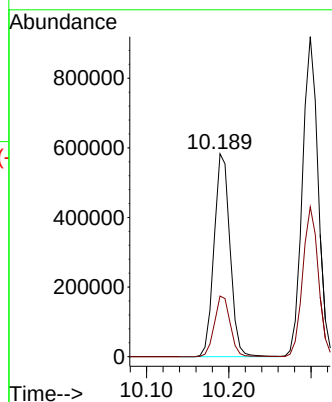
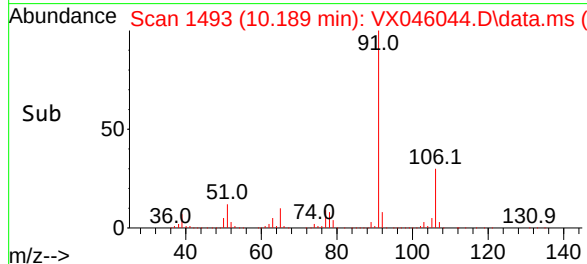
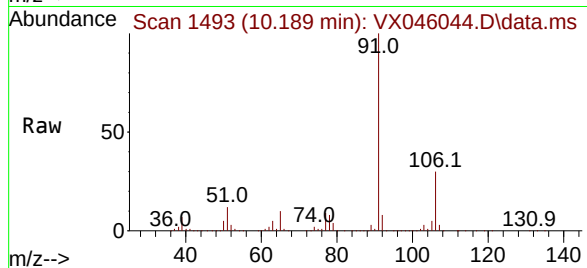
#67  
Ethyl Benzene  
Concen: 116.421 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion: 91 Resp: 78512  
Ion Ratio Lower Upper  
91 100  
106 29.9 23.4 35.2

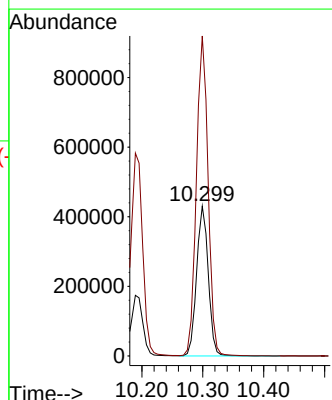
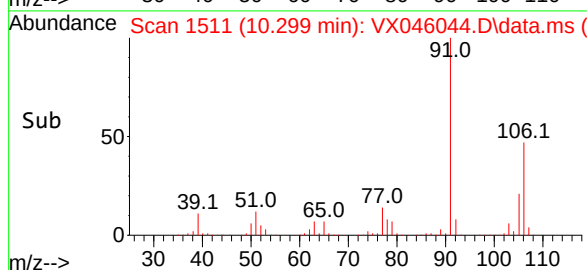
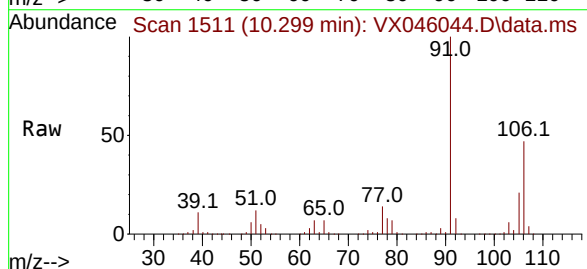
Manual Integrations  
APPROVED

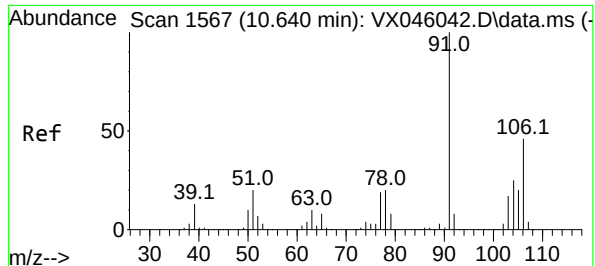
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#68  
m/p-Xylenes  
Concen: 234.349 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:106 Resp: 570913  
Ion Ratio Lower Upper  
106 100  
91 214.2 171.2 256.8





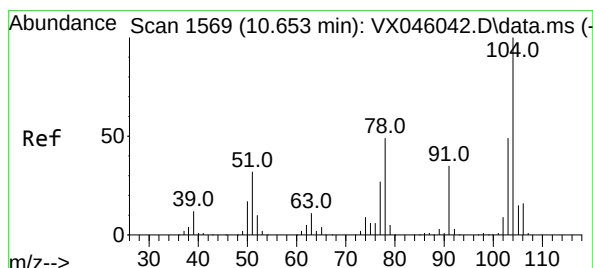
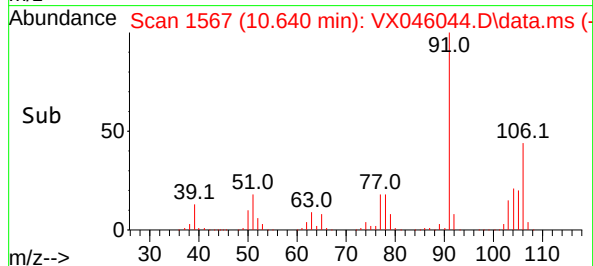
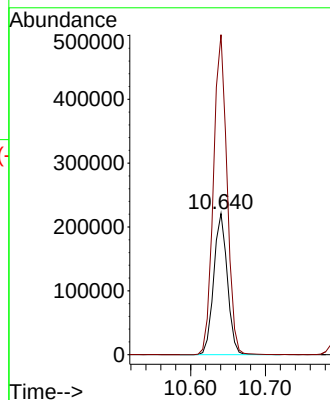
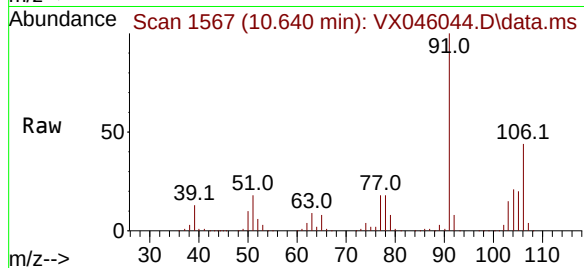
#69  
o-Xylene  
Concen: 113.990 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion:106 Resp: 279900  
Ion Ratio Lower Upper  
106 100  
91 226.9 112.7 338.1

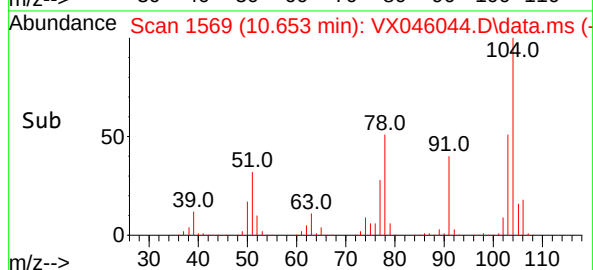
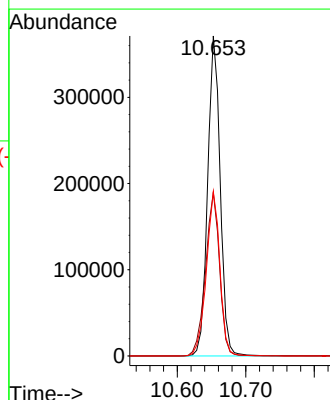
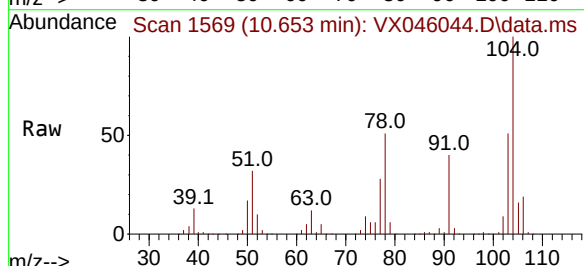
Manual Integrations  
APPROVED

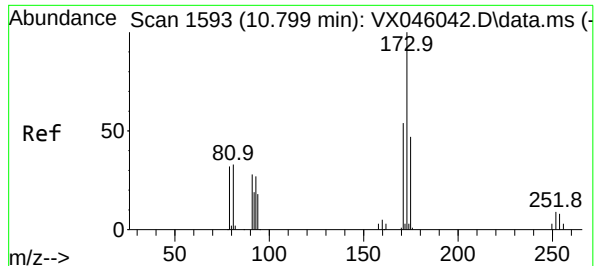
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#70  
Styrene  
Concen: 120.694 ug/l  
RT: 10.653 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

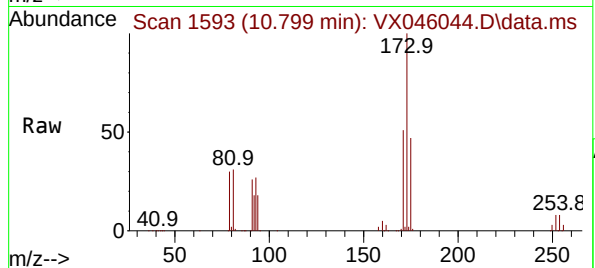
Tgt Ion:104 Resp: 474254  
Ion Ratio Lower Upper  
104 100  
78 57.2 45.7 68.5  
103 55.5 43.7 65.5





#71  
Bromoform  
Concen: 127.128 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

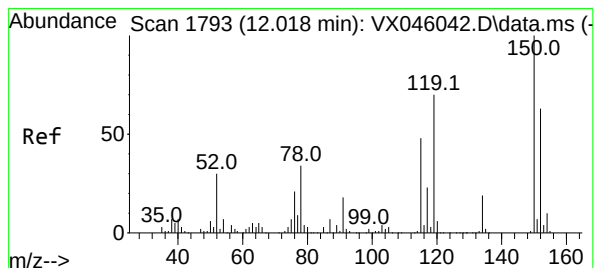
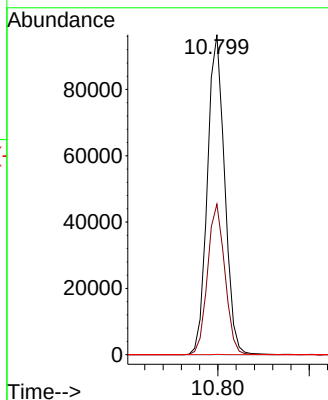
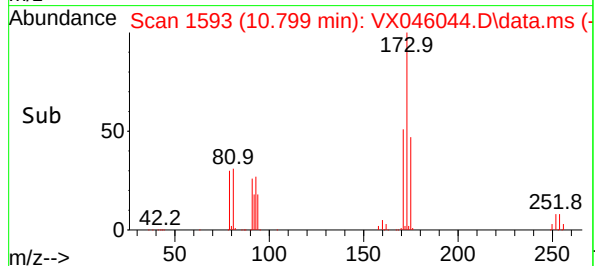
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:173 Resp: 125980  
Ion Ratio Lower Upper  
173 100  
175 47.3 23.4 70.0  
254 0.1 0.0 0.0

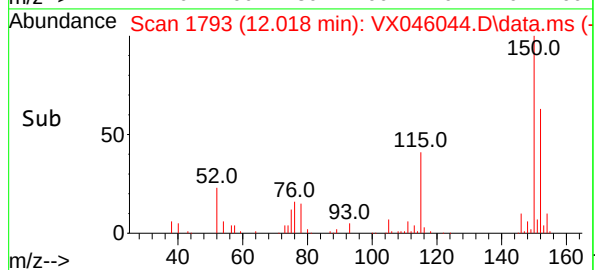
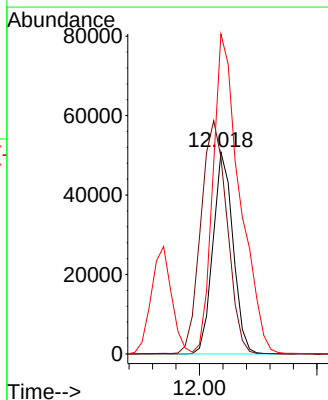
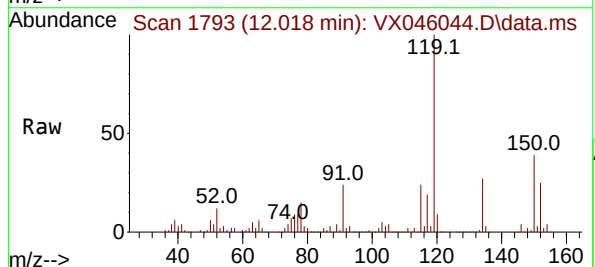
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

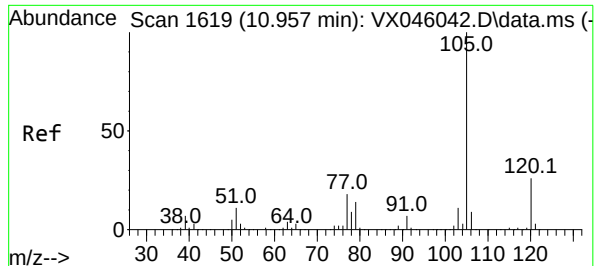


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:152 Resp: 60345  
Ion Ratio Lower Upper  
152 100  
115 150.7 46.9 140.7#  
150 211.6 0.0 351.0

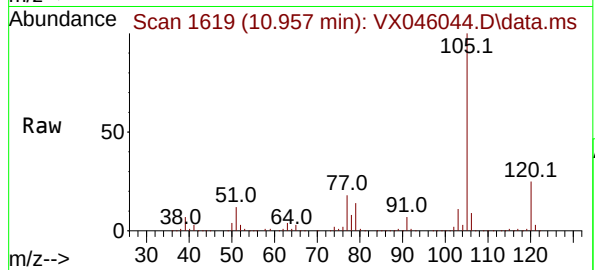






#73  
Isopropylbenzene  
Concen: 114.312 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

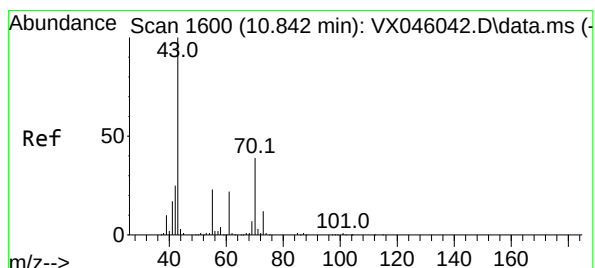
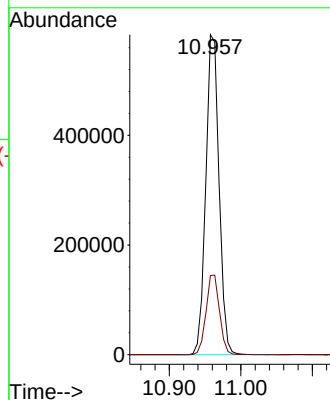
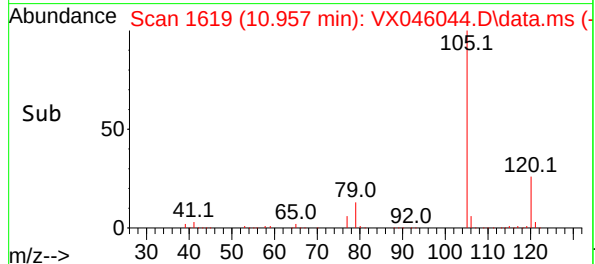
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:105 Resp: 75233  
Ion Ratio Lower Upper  
105 100  
120 25.3 12.8 38.4

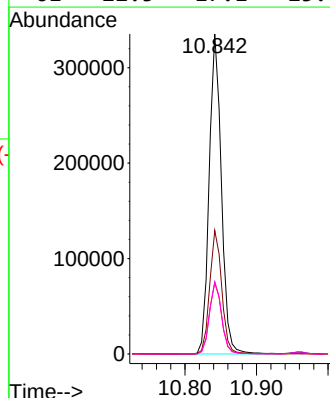
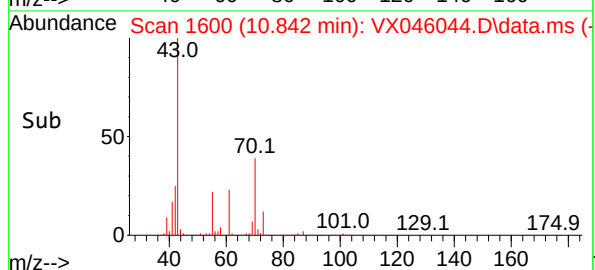
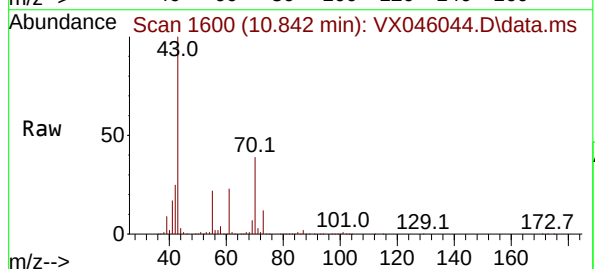
Manual Integrations  
APPROVED

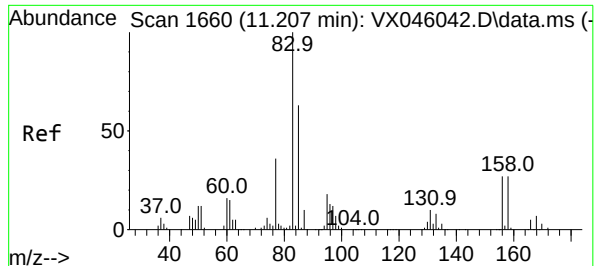
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#74  
N-ethyl acetate  
Concen: 120.944 ug/l  
RT: 10.842 min Scan# 1600  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 396877  
Ion Ratio Lower Upper  
43 100  
70 38.5 30.9 46.3  
55 22.5 18.7 28.1  
61 22.5 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 104.018 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 24353

Ion Ratio Lower Upper

83 100

131 9.7 5.0 14.9

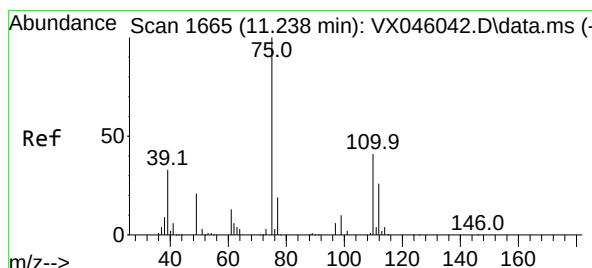
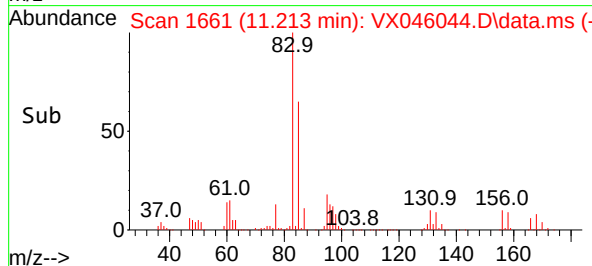
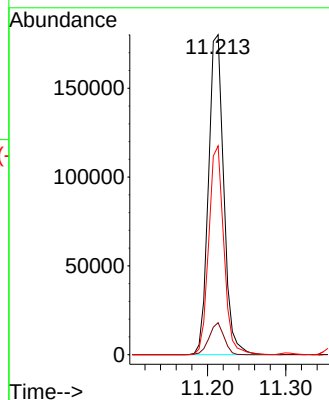
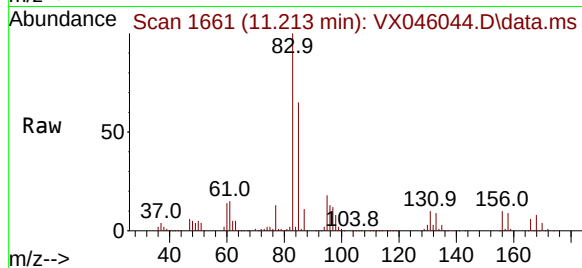
85 64.4 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#76

1,2,3-Trichloropropane

Concen: 84.960 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX046044.D

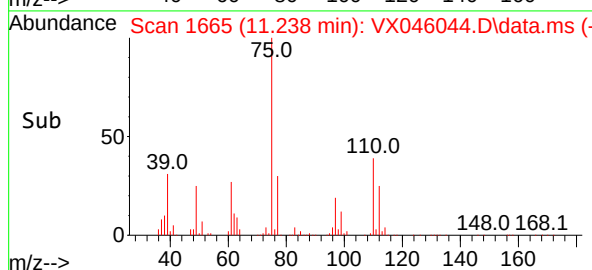
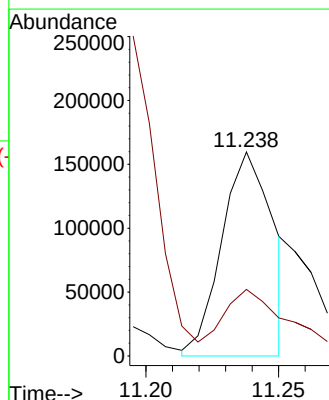
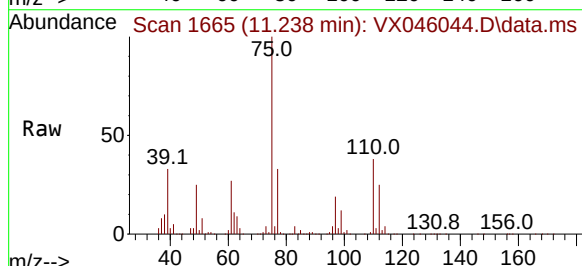
Acq: 05 May 2025 12:45

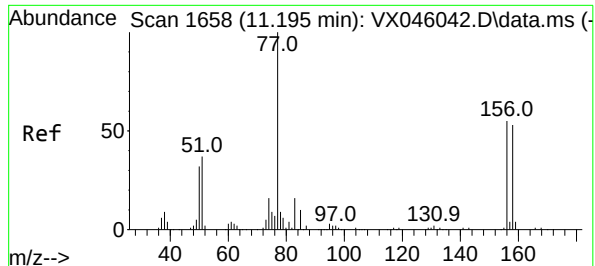
Tgt Ion: 75 Resp: 213744

Ion Ratio Lower Upper

75 100

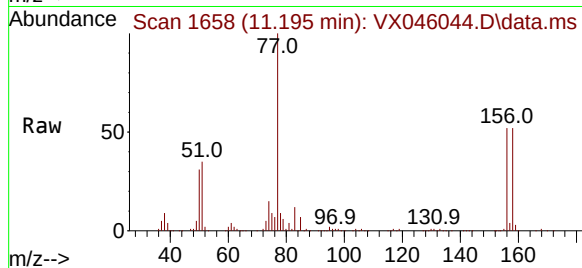
77 42.4 20.5 61.5





#77  
Bromobenzene  
Concen: 110.297 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

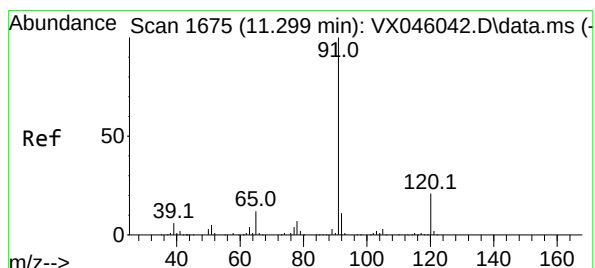
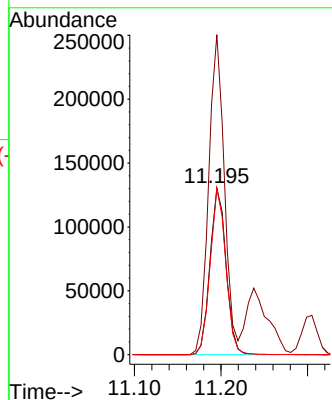
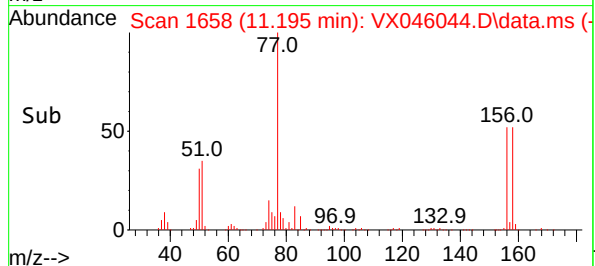
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion:156 Resp: 167934  
Ion Ratio Lower Upper  
156 100  
77 187.1 92.8 278.3  
158 97.3 48.8 146.3

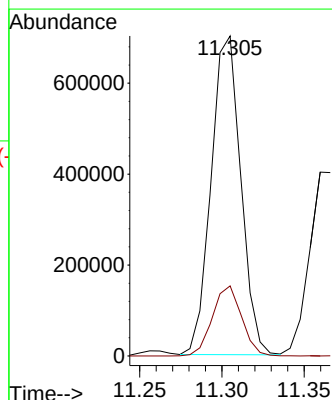
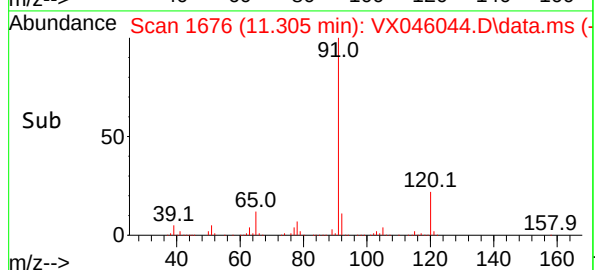
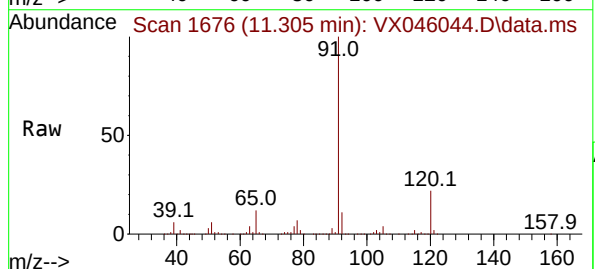
Manual Integrations  
APPROVED

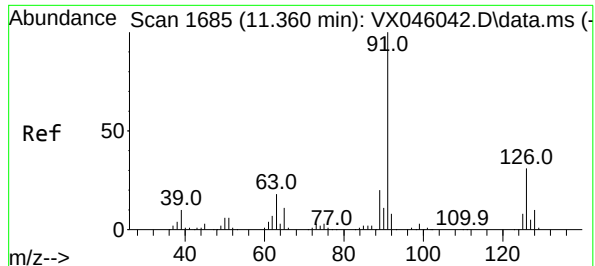
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#78  
n-propylbenzene  
Concen: 119.448 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. 0.006 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 881218  
Ion Ratio Lower Upper  
91 100  
120 21.7 10.8 32.4





#79

2-Chlorotoluene

Concen: 107.514 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 534560

Ion Ratio Lower Upper

91 100

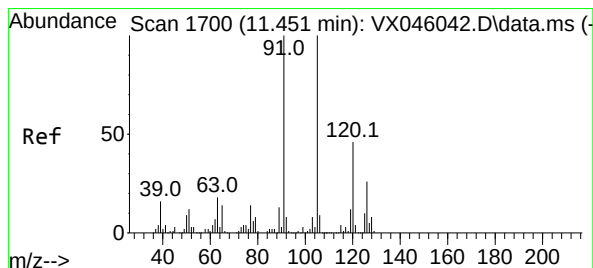
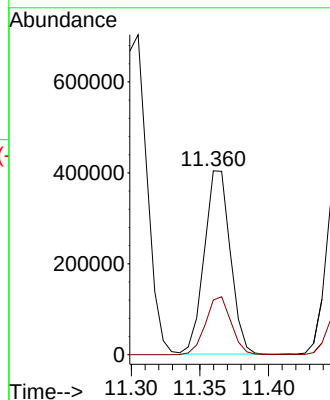
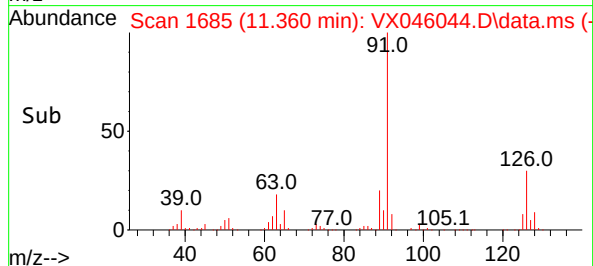
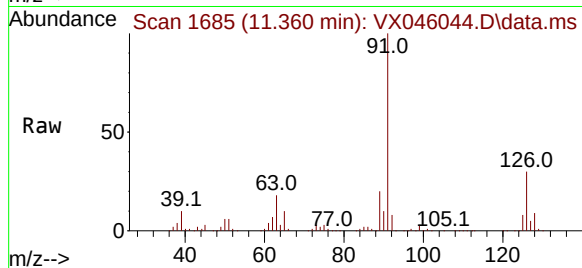
126 31.0 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#80

1,3,5-Trimethylbenzene

Concen: 112.825 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046044.D

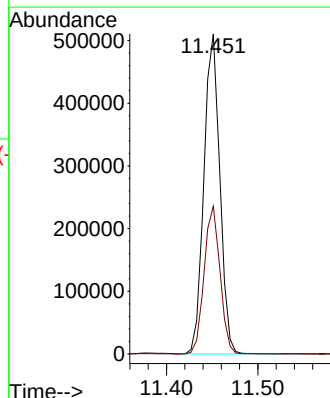
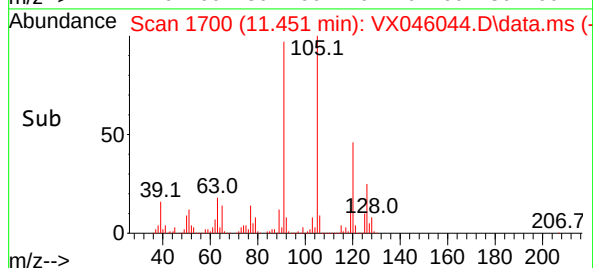
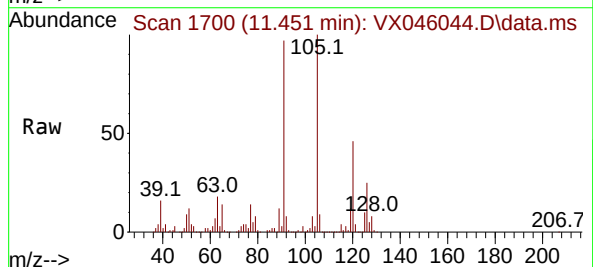
Acq: 05 May 2025 12:45

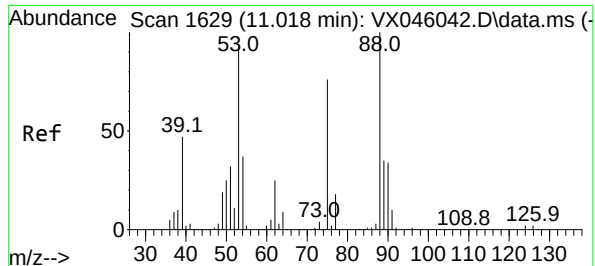
Tgt Ion:105 Resp: 616477

Ion Ratio Lower Upper

105 100

120 46.0 23.1 69.2





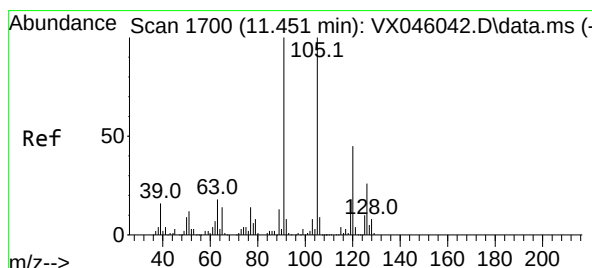
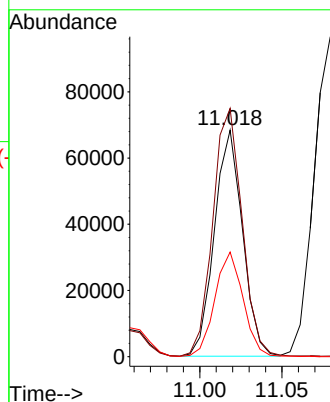
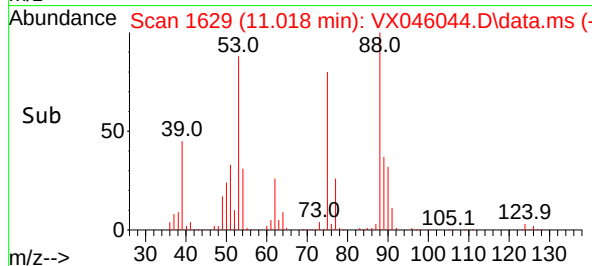
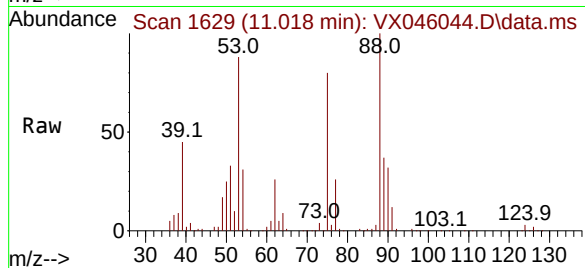
#81  
trans-1,4-Dichloro-2-butene  
Concen: 134.609 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 75 Resp: 81372  
Ion Ratio Lower Upper  
75 100  
53 114.9 100.5 150.7  
89 46.5 37.0 55.6

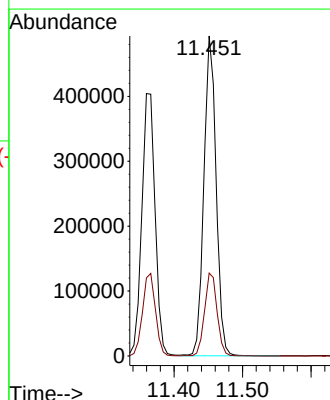
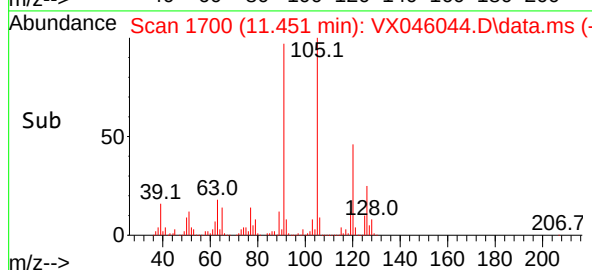
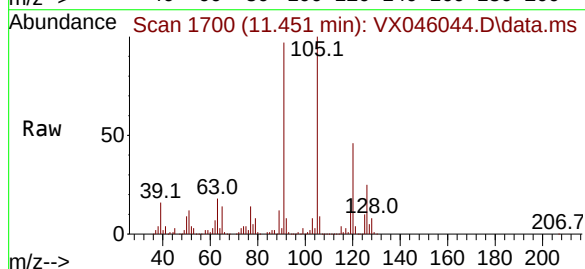
Manual Integrations  
APPROVED

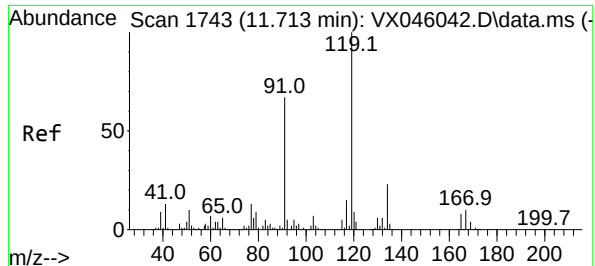
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#82  
4-Chlorotoluene  
Concen: 111.948 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 611736  
Ion Ratio Lower Upper  
91 100  
126 26.7 13.3 39.8





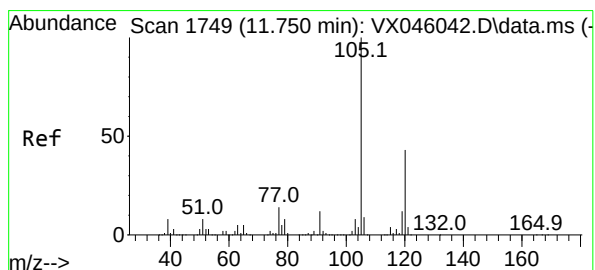
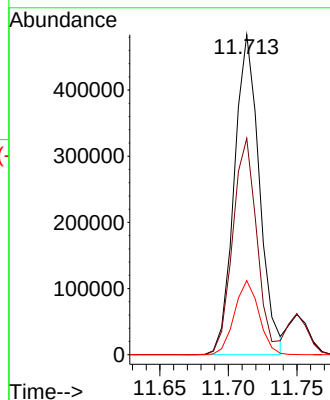
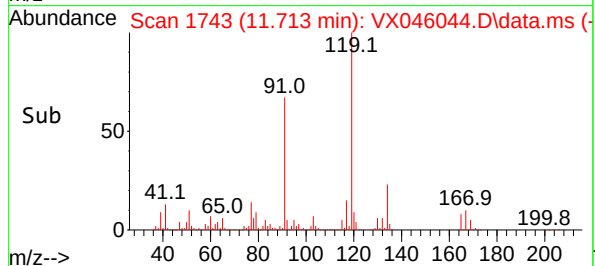
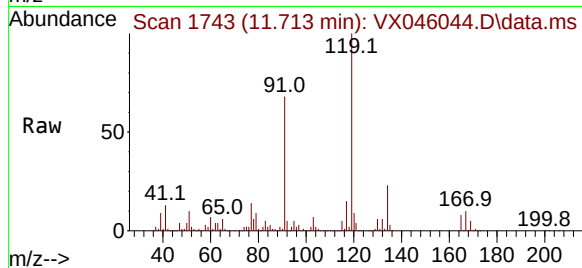
#83  
tert-Butylbenzene  
Concen: 115.065 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion:119 Resp: 61747  
Ion Ratio Lower Upper  
119 100  
91 65.6 32.9 98.7  
134 22.6 11.4 34.1

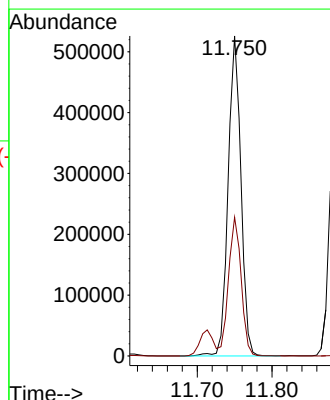
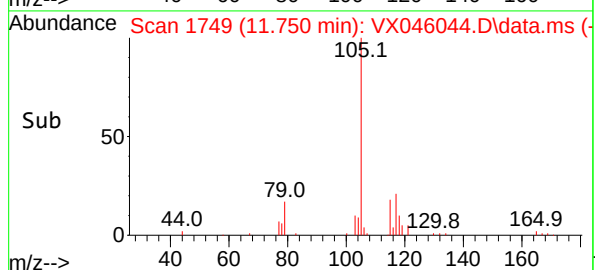
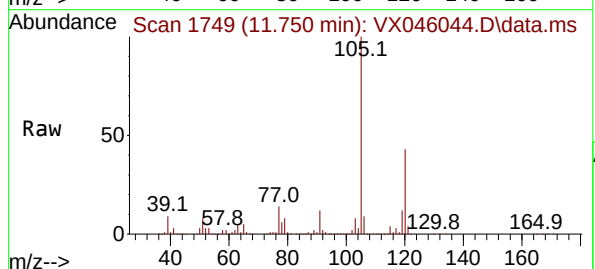
Manual Integrations  
APPROVED

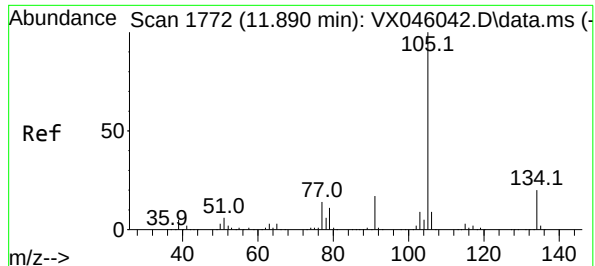
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 114.236 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 623456  
Ion Ratio Lower Upper  
105 100  
120 43.1 21.2 63.6





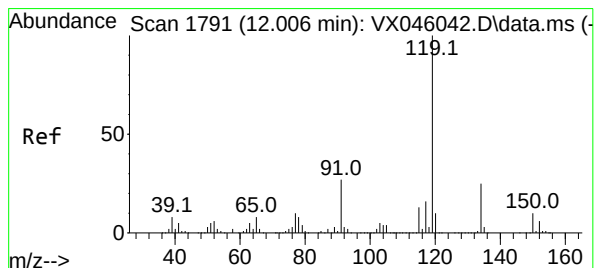
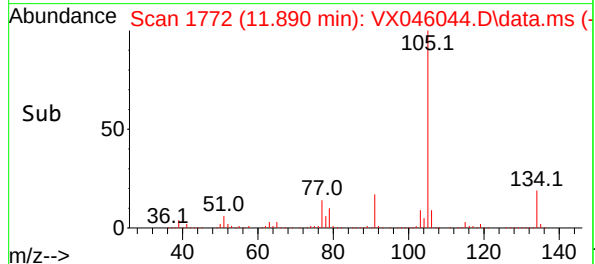
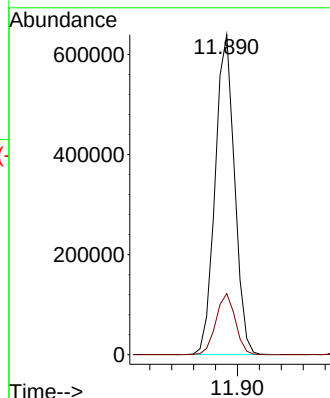
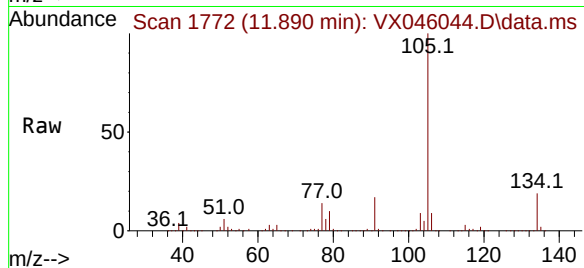
#85  
sec-Butylbenzene  
Concen: 118.023 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion:105 Resp: 78629  
Ion Ratio Lower Upper  
105 100  
134 19.1 9.7 29.1

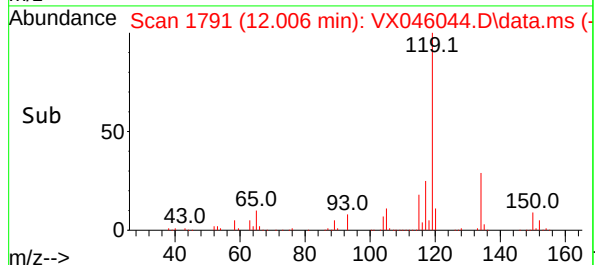
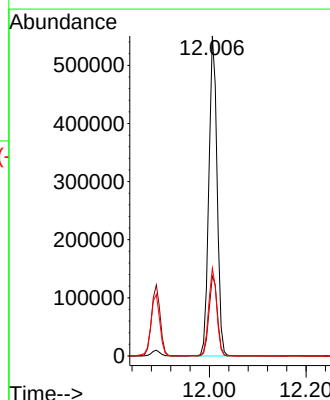
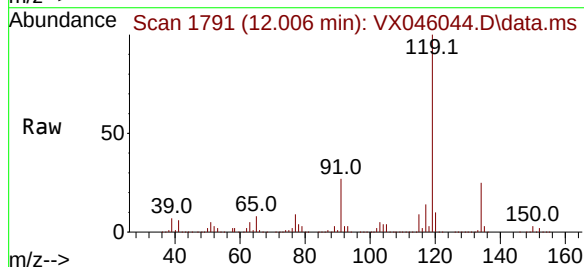
Manual Integrations  
APPROVED

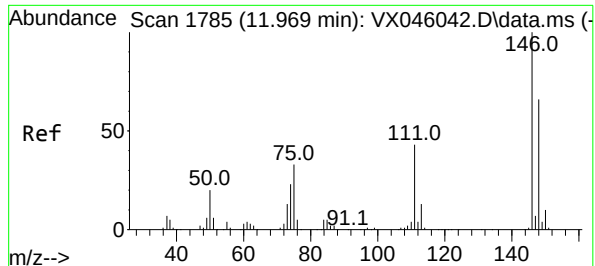
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#86  
p-Isopropyltoluene  
Concen: 121.113 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:119 Resp: 651531  
Ion Ratio Lower Upper  
119 100  
134 25.4 12.5 37.5  
91 27.0 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 110.394 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 313100

Ion Ratio Lower Upper

146 100

111 44.5 22.1 66.3

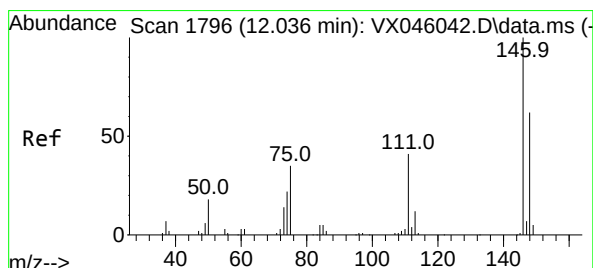
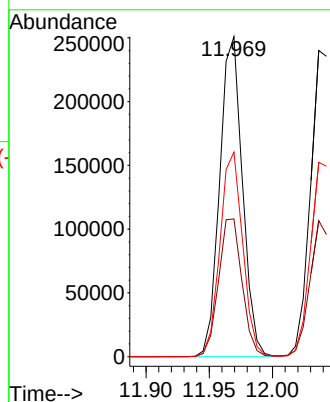
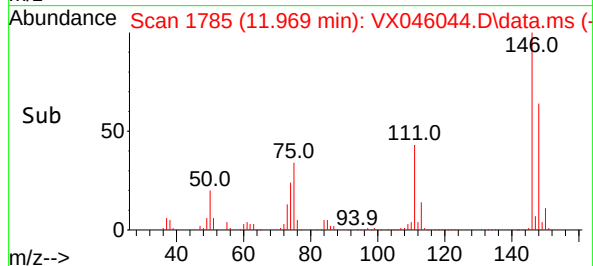
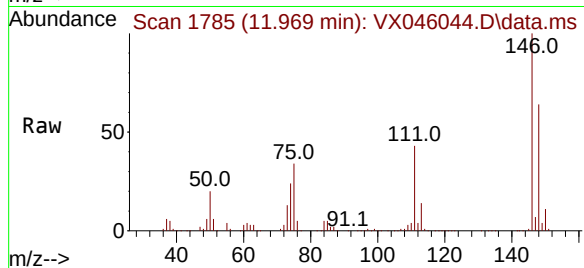
148 64.0 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#88

1,4-Dichlorobenzene

Concen: 112.167 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

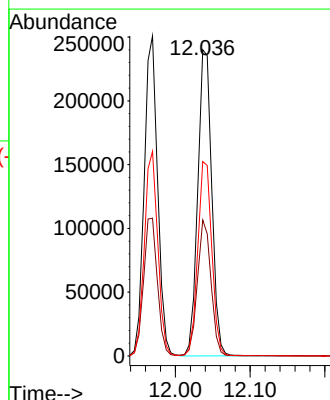
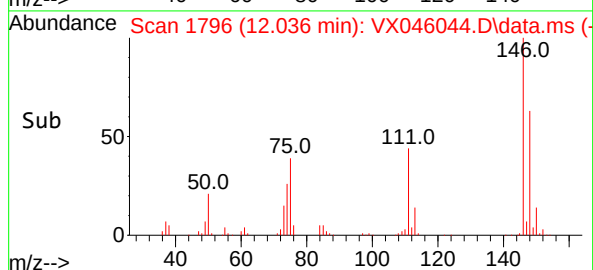
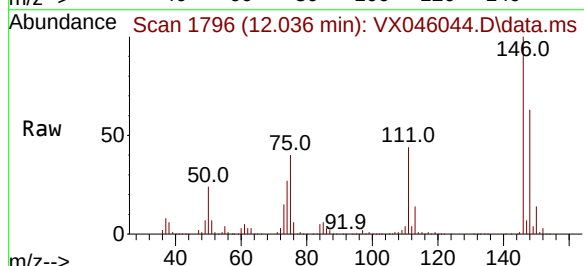
Tgt Ion:146 Resp: 311752

Ion Ratio Lower Upper

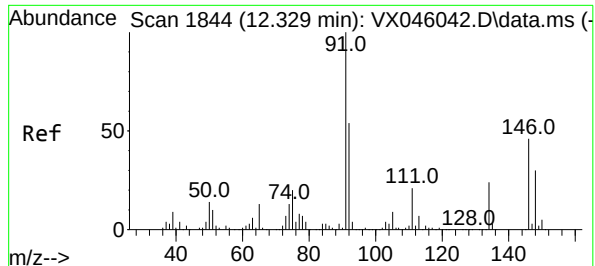
146 100

111 43.0 21.3 63.9

148 63.9 31.9 95.5







#89

n-Butylbenzene

Concen: 129.533 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 60578

Ion Ratio Lower Upper

91 100

92 53.6 26.9 80.7

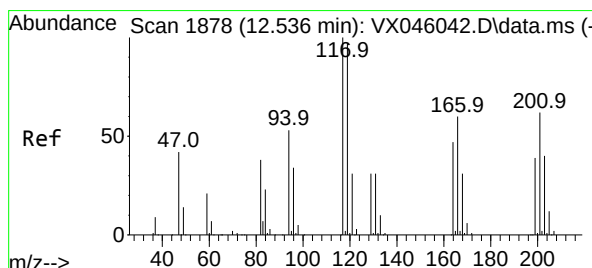
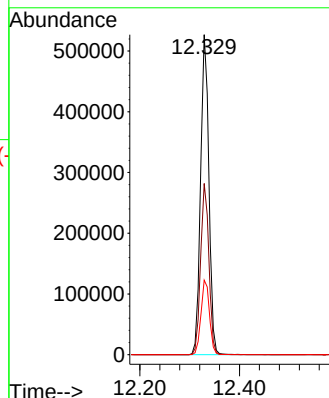
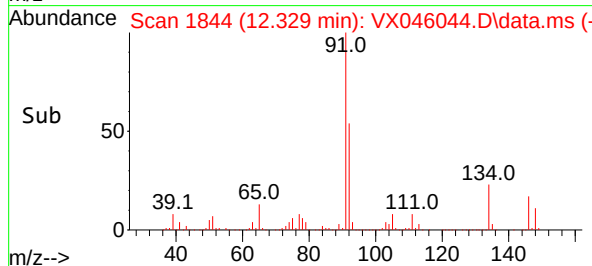
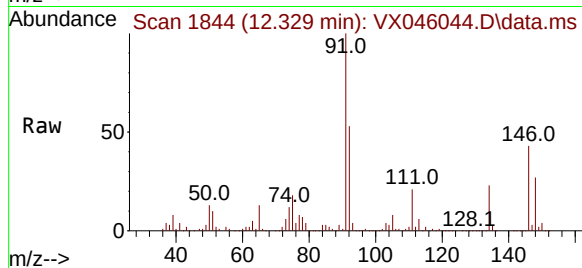
134 24.0 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 123.091 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046044.D

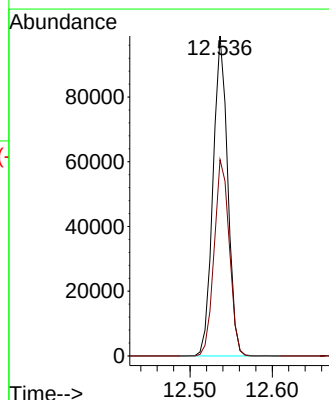
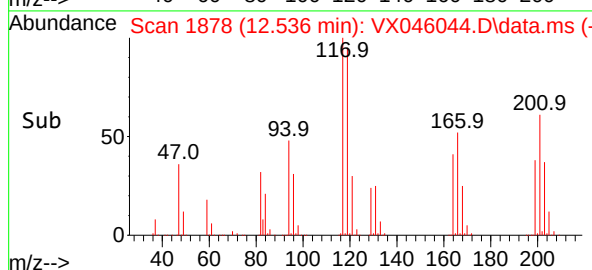
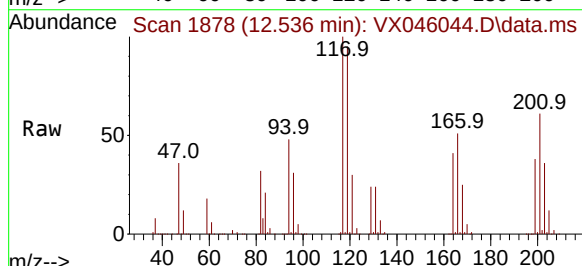
Acq: 05 May 2025 12:45

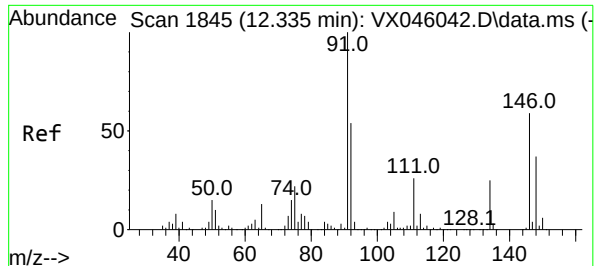
Tgt Ion:117 Resp: 123188

Ion Ratio Lower Upper

117 100

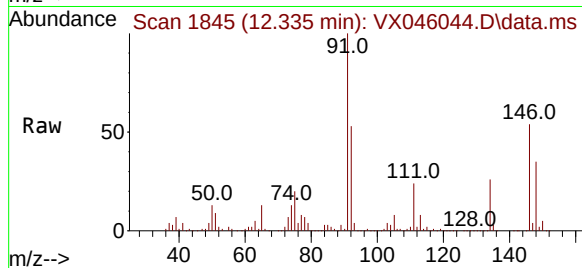
201 63.2 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 111.506 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

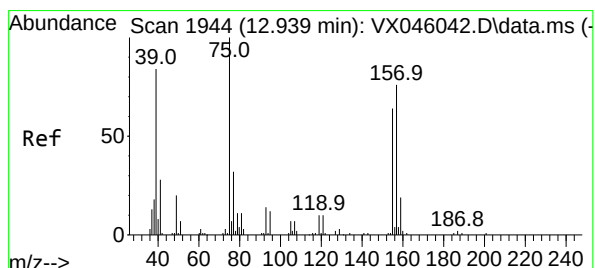
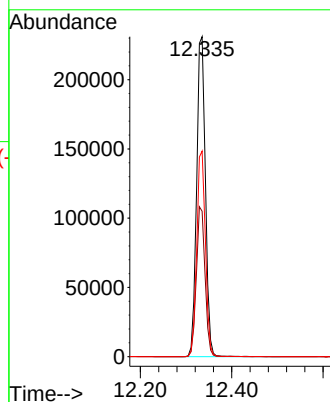
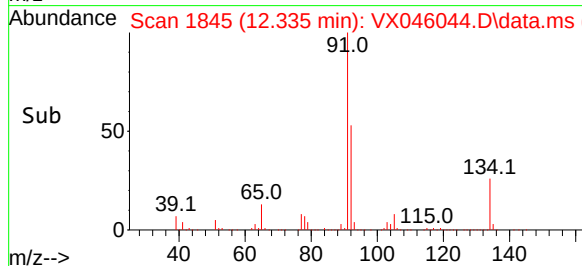
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion:146 Resp: 308039  
Ion Ratio Lower Upper  
146 100  
111 46.3 22.4 67.3  
148 63.6 31.6 94.8

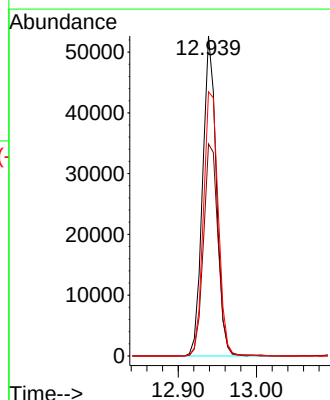
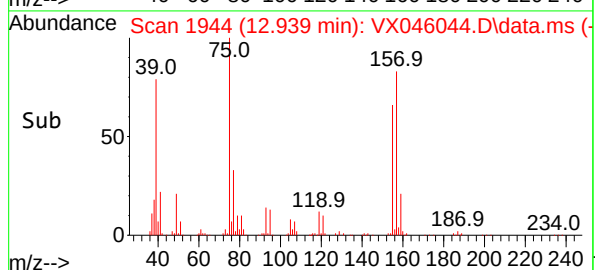
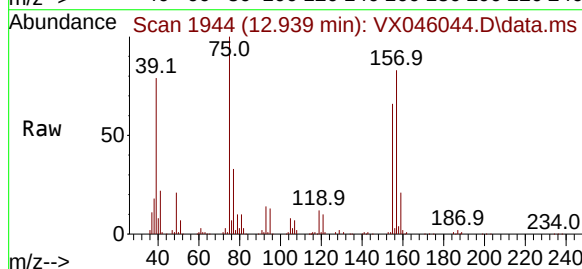
Manual Integrations  
APPROVED

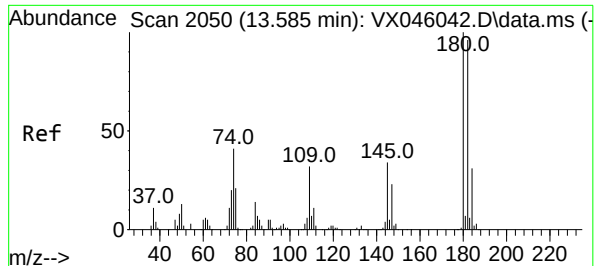
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 120.915 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 64438  
Ion Ratio Lower Upper  
75 100  
155 69.6 34.9 104.8  
157 88.4 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 134.366 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 20325

Ion Ratio Lower Upper

180 100

182 94.1 47.9 143.8

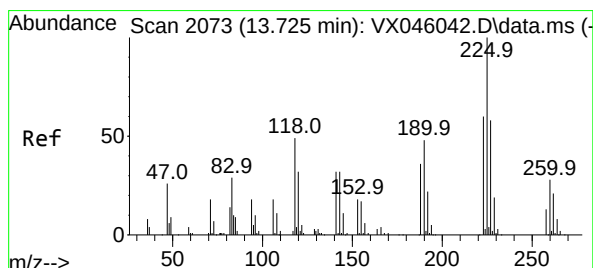
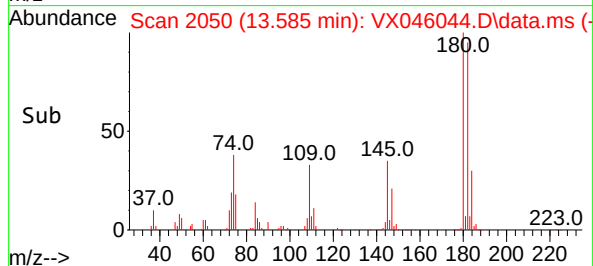
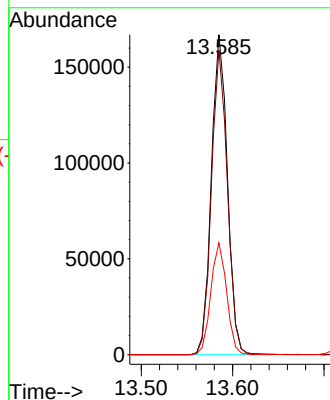
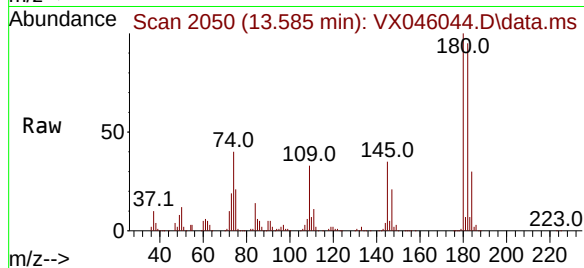
145 34.5 17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#94

Hexachlorobutadiene

Concen: 113.857 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX046044.D

Acq: 05 May 2025 12:45

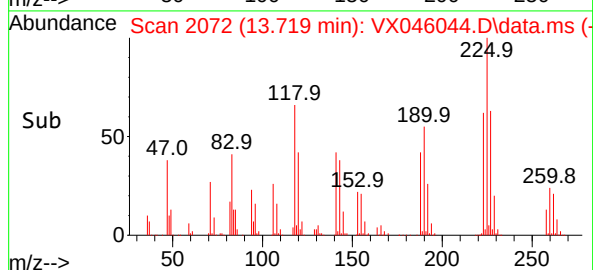
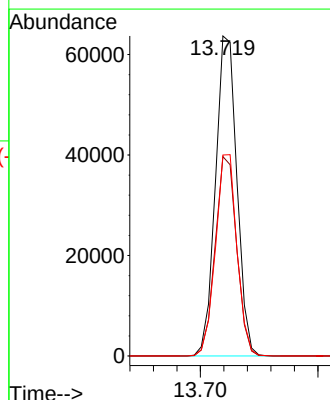
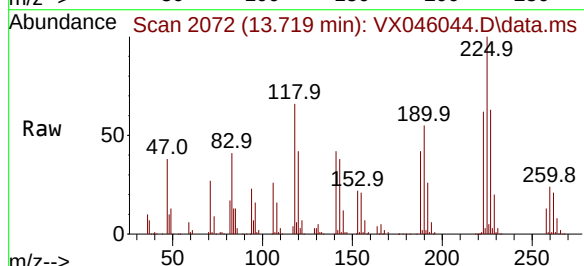
Tgt Ion:225 Resp: 80558

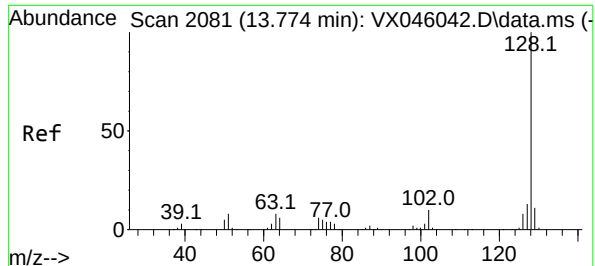
Ion Ratio Lower Upper

225 100

223 62.5 30.8 92.4

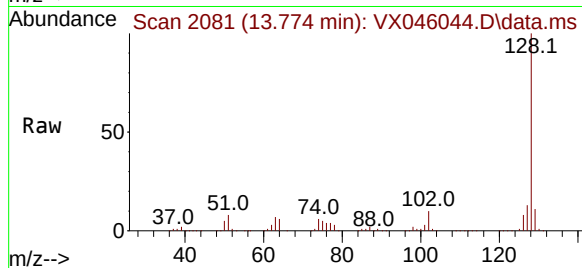
227 63.1 30.9 92.7





#95  
Naphthalene  
Concen: 130.929 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

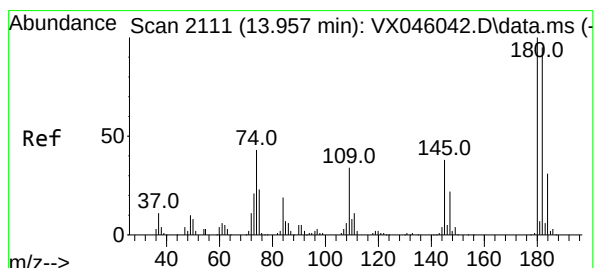
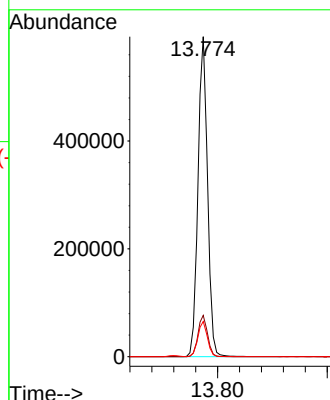
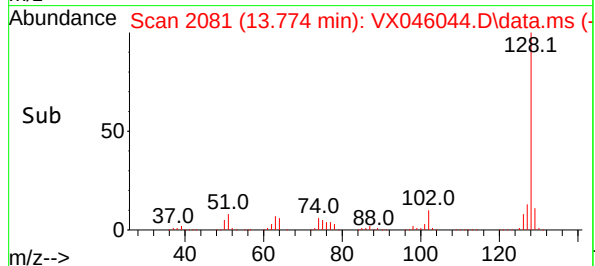
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:128 Resp: 721236  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.4 15.6  
129 11.0 8.6 13.0

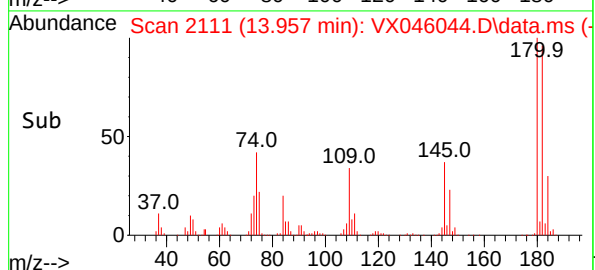
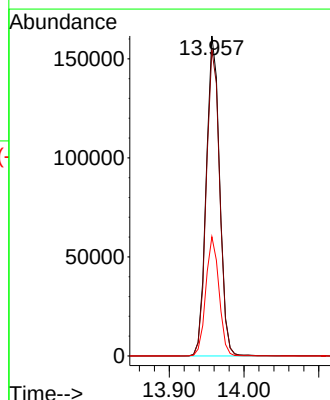
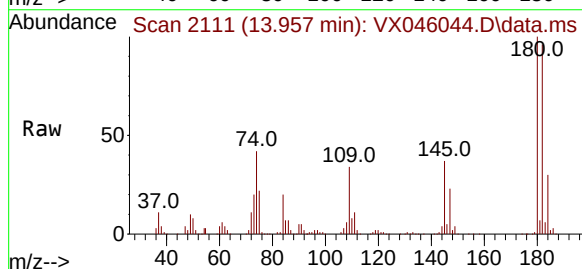
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 126.331 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VX046044.D  
Acq: 05 May 2025 12:45

Tgt Ion:180 Resp: 200379  
Ion Ratio Lower Upper  
180 100  
182 96.5 47.8 143.3  
145 36.7 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046046.D  
 Acq On : 05 May 2025 16:04  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.538          | 168  | 96964      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.751          | 114  | 168484     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 147167     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 67939      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.946          | 65   | 9067       | 3.143   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 6.280%# |        |          |
| 35) Dibromofluoromethane     | 5.373          | 113  | 5969       | 3.161   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 6.320%# |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 20566      | 3.232   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 6.460%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 7822       | 3.378   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 6.760%# |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 6195       | 2.894   | ug/l   | 95       |
| 3) Chloromethane             | 1.307          | 50   | 6587       | 3.125   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 5999       | 3.249   | ug/l   | 96       |
| 5) Bromomethane              | 1.593          | 94   | 2962       | 3.164   | ug/l   | 88       |
| 6) Chloroethane              | 1.666          | 64   | 3567       | 3.750   | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 9599       | 3.413   | ug/l   | 88       |
| 8) Diethyl Ether             | 2.130          | 74   | 3020       | 3.266   | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 5911       | 3.517   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.441          | 142  | 5900       | 2.990   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.965          | 59   | 5539       | 16.111  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 2.306          | 96   | 5496       | 3.359   | ug/l   | 97       |
| 13) Acrolein                 | 2.233          | 56   | 5673       | 14.206  | ug/l   | 95       |
| 14) Allyl chloride           | 2.654          | 41   | 10262      | 3.319   | ug/l   | 98       |
| 15) Acrylonitrile            | 3.062          | 53   | 16746      | 16.282  | ug/l   | 97       |
| 16) Acetone                  | 2.380          | 43   | 19773      | 20.036  | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.501          | 76   | 11068      | 2.919   | ug/l   | 96       |
| 18) Methyl Acetate           | 2.703          | 43   | 7909       | 3.357   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 18497      | 3.241   | ug/l   | 97       |
| 20) Methylene Chloride       | 2.782          | 84   | 6680       | 3.341   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.081          | 96   | 5402       | 3.234   | ug/l   | 100      |
| 22) Diisopropyl ether        | 3.751          | 45   | 18657      | 3.230   | ug/l # | 65       |
| 23) Vinyl Acetate            | 3.715          | 43   | 82328      | 16.127  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 11193      | 3.297   | ug/l   | 99       |
| 25) 2-Butanone               | 4.562          | 43   | 26125      | 18.340  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.465          | 77   | 8245       | 3.205   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 6222       | 3.089   | ug/l   | 95       |
| 28) Bromochloromethane       | 4.891          | 49   | 5360       | 2.969   | ug/l # | 100      |
| 29) Tetrahydrofuran          | 5.001          | 42   | 15431      | 16.680  | ug/l   | 98       |
| 30) Chloroform               | 5.080          | 83   | 11624      | 3.294   | ug/l   | 89       |
| 31) Cyclohexane              | 5.458          | 56   | 10269      | 3.588   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.367          | 97   | 9827       | 3.229   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.678          | 75   | 7787       | 3.551   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.721          | 43   | 9806m      | 3.565   | ug/l   |          |
| 38) Carbon Tetrachloride     | 5.659          | 117  | 8505       | 3.376   | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.373          | 83   | 9882       | 3.597   | ug/l   | 93       |
| 40) Benzene                  | 6.031          | 78   | 22528      | 3.315   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046046.D  
 Acq On : 05 May 2025 16:04  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 4851     | 3.174  | ug/l # | 65       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 10011    | 3.563  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.348  | 43   | 13914    | 3.309  | ug/l   | 96       |
| 44) Trichloroethene           | 7.123  | 130  | 5313     | 3.307  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 5451     | 3.228  | ug/l # | 89       |
| 46) Dibromomethane            | 7.580  | 93   | 4417     | 3.318  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.818  | 83   | 8394     | 3.254  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 7171     | 3.321  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 2907     | 67.721 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.567  | 43   | 46794    | 16.967 | ug/l   | 98       |
| 52) Toluene                   | 8.714  | 92   | 14126    | 3.505  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 6834     | 3.155  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 7908     | 3.129  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 5685     | 3.490  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 8555     | 3.390  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 10127    | 3.508  | ug/l   | 94       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 20809    | 18.346 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 34853    | 16.651 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.518  | 129  | 5500     | 3.102  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.604  | 107  | 5614     | 3.356  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.269  | 164  | 4752     | 3.162  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 15391    | 3.399  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 5024     | 3.326  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 26732    | 3.463  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 19957    | 7.156  | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 9398     | 3.343  | ug/l   | 95       |
| 70) Styrene                   | 10.652 | 104  | 14900    | 3.312  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 3470     | 3.059  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.957 | 105  | 24201    | 3.266  | ug/l   | 98       |
| 74) N-amyl acetate            | 10.841 | 43   | 11224    | 3.038  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 9170     | 3.479  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 7928m    | 2.799  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 5857     | 3.417  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.299 | 91   | 28436    | 3.424  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 18672    | 3.336  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 20742    | 3.372  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 1828     | 2.686  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 19966    | 3.245  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 21049    | 3.484  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 20613    | 3.355  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 25590    | 3.412  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 20955    | 3.460  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 10585    | 3.315  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 10908    | 3.486  | ug/l   | 90       |
| 89) n-Butylbenzene            | 12.329 | 91   | 18004    | 3.419  | ug/l   | 94       |
| 90) Hexachloroethane          | 12.536 | 117  | 3553     | 3.153  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 10712    | 3.444  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 1687     | 2.812  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 5720     | 3.359  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 2816     | 3.535  | ug/l   | 96       |
| 95) Naphthalene               | 13.774 | 128  | 19902    | 3.209  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 5745     | 3.217  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046046.D  
Acq On : 05 May 2025 16:04  
Operator : JC/MD  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

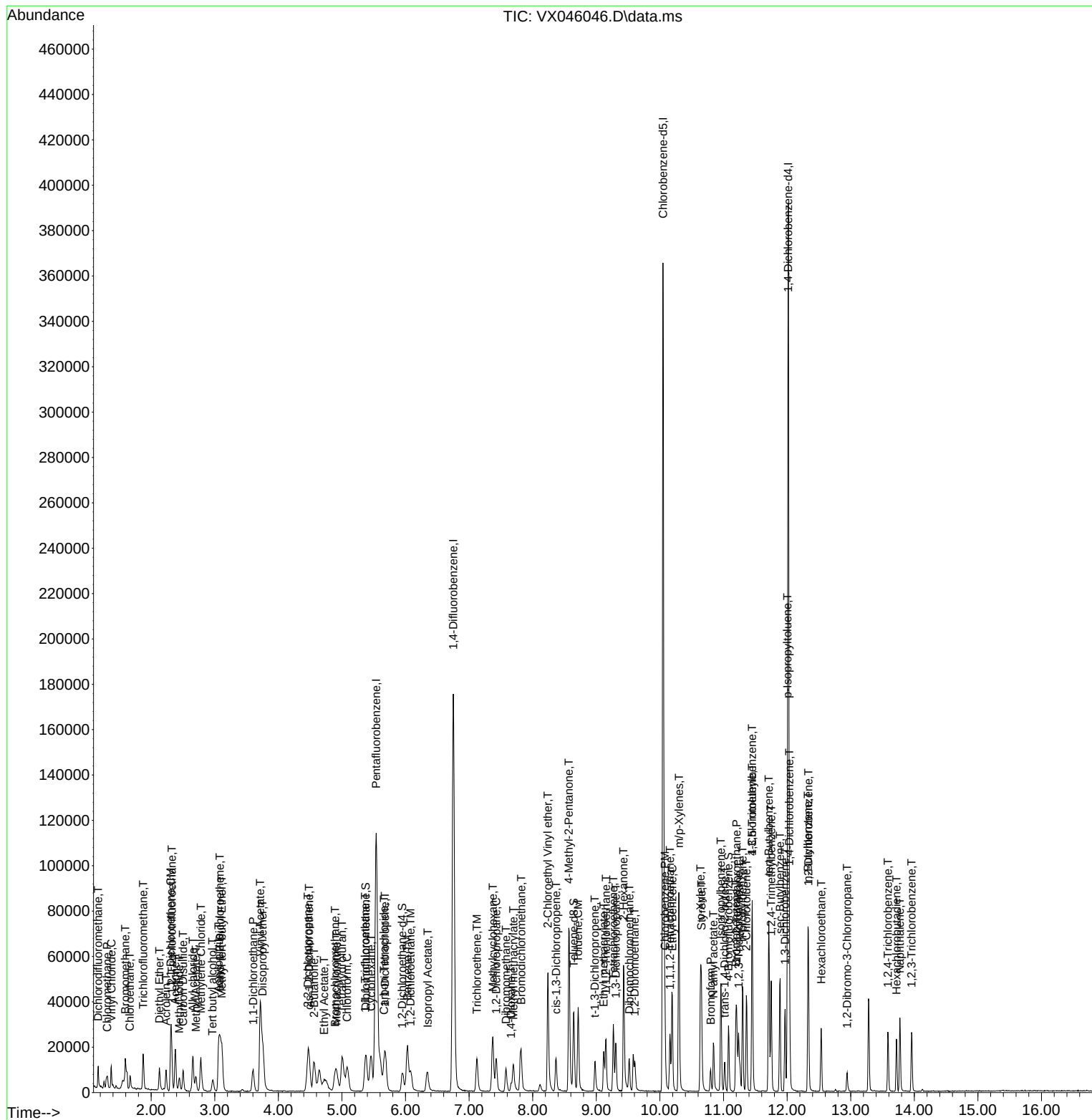
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On    : 05 May 2025  16:04
Operator  : JC/MD
Sample    : VSTDIC005
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 10   Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC005

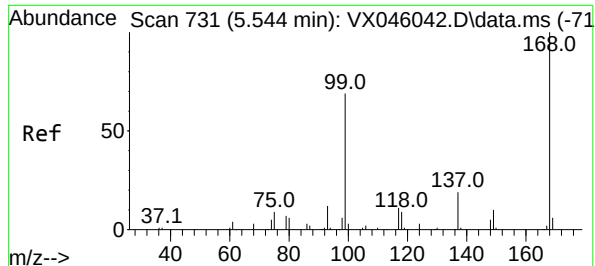
## Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 06:04:56 2025  
Response via : Initial Calibration

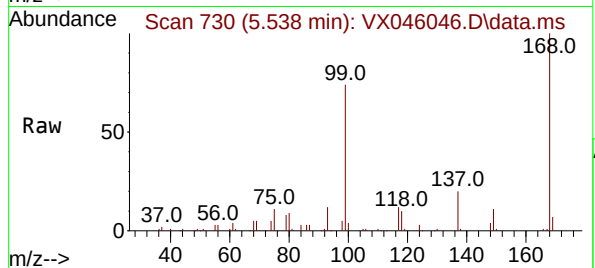






#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

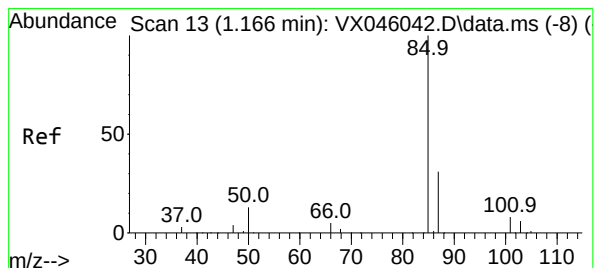
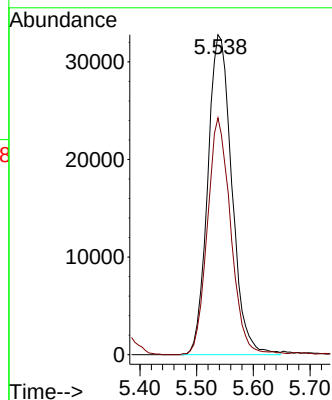
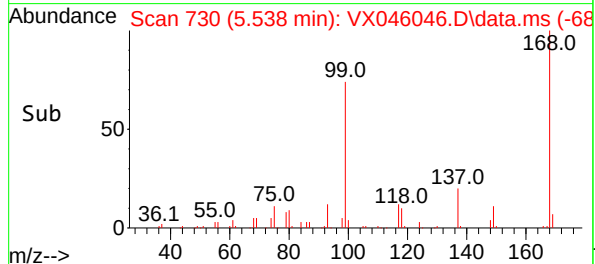
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:168 Resp: 9696  
Ion Ratio Lower Upper  
168 100  
99 74.0 54.9 82.3

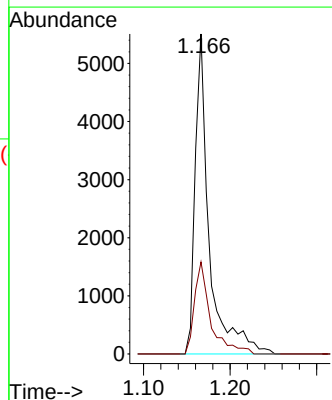
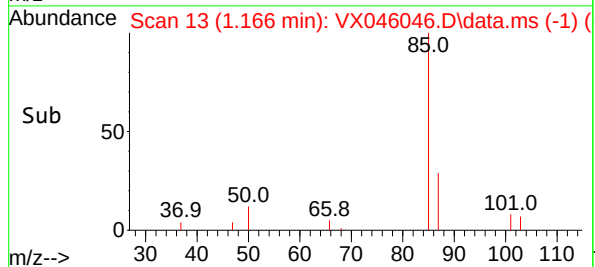
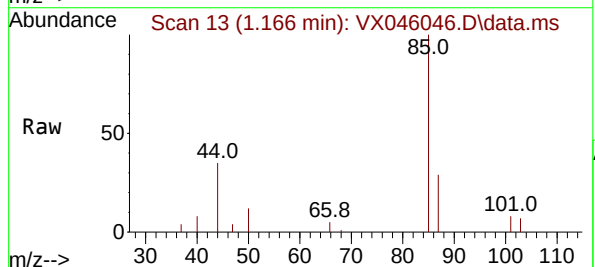
Manual Integrations  
APPROVED

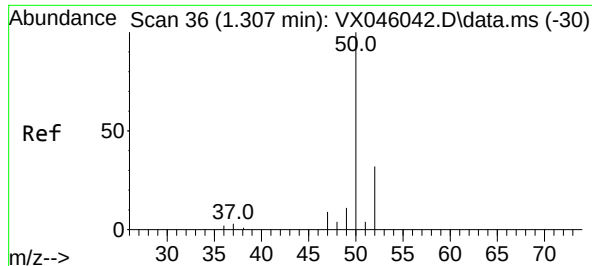
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#2  
Dichlorodifluoromethane  
Concen: 2.894 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 85 Resp: 6195  
Ion Ratio Lower Upper  
85 100  
87 28.7 15.7 47.1





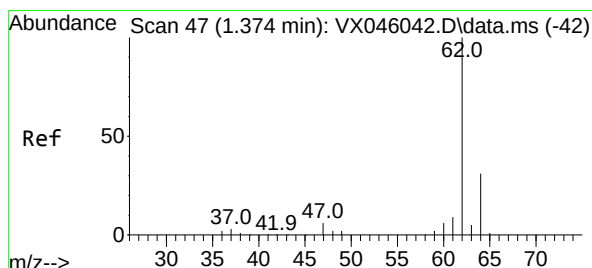
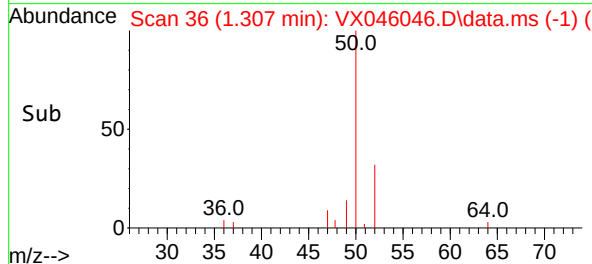
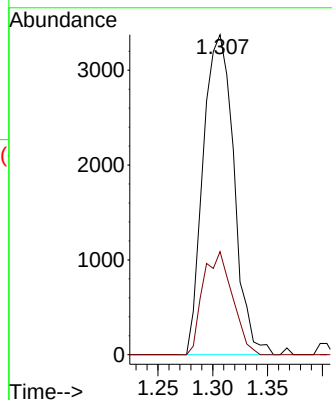
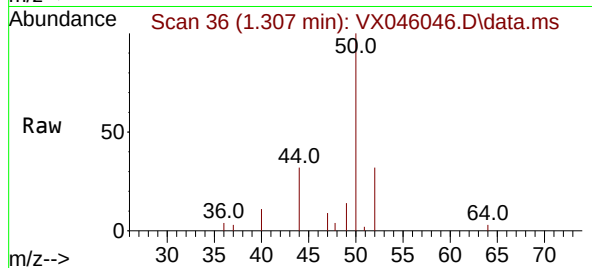
#3  
Chloromethane  
Concen: 3.125 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion: 50 Resp: 658  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.4 38.2

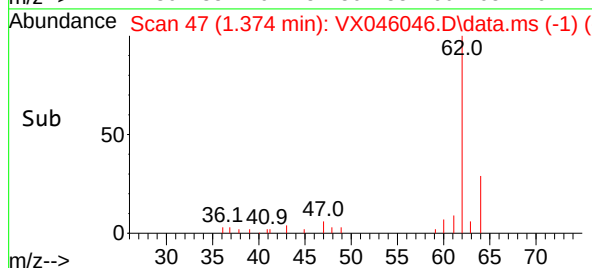
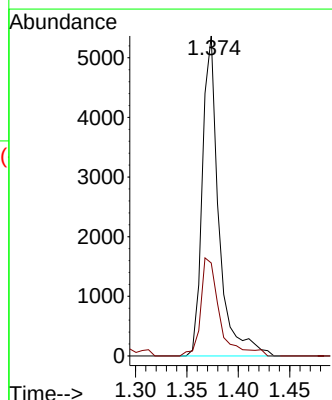
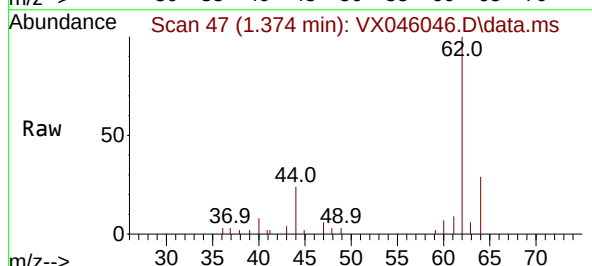
Manual Integrations  
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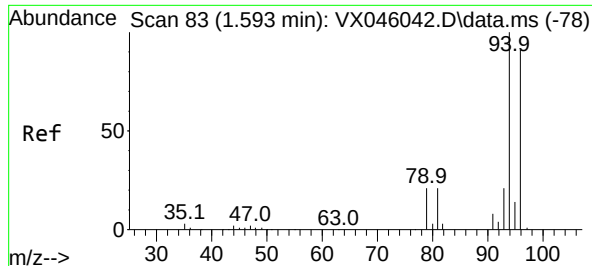
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 3.249 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

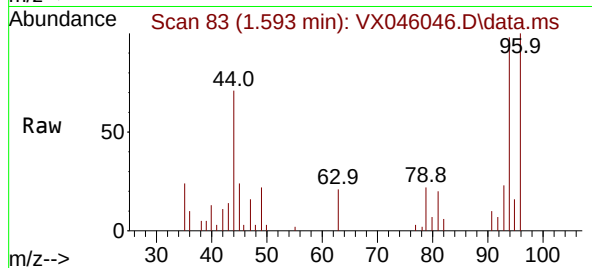
Tgt Ion: 62 Resp: 5999  
Ion Ratio Lower Upper  
62 100  
64 29.1 25.2 37.8





#5  
Bromomethane  
Concen: 3.164 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

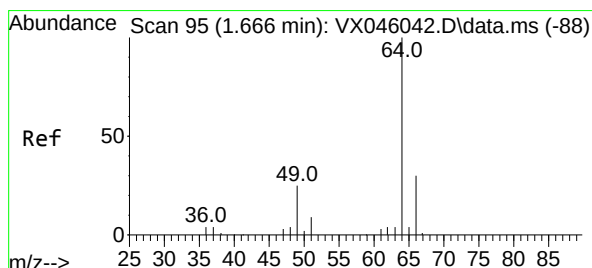
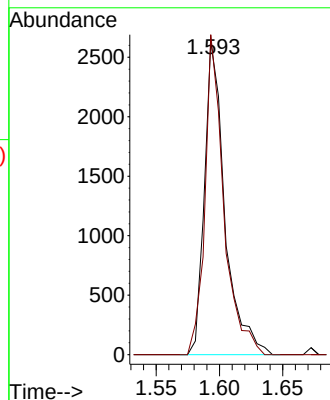
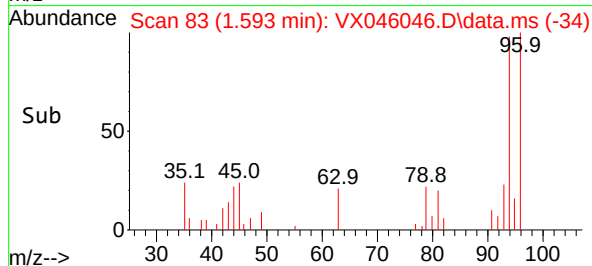
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 94 Resp: 2962  
Ion Ratio Lower Upper  
94 100  
96 102.2 72.8 109.2

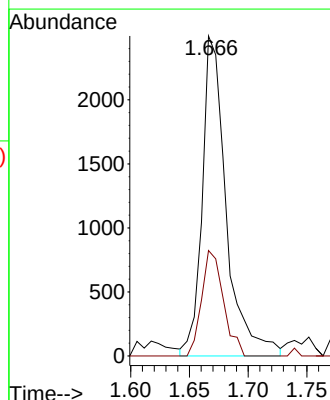
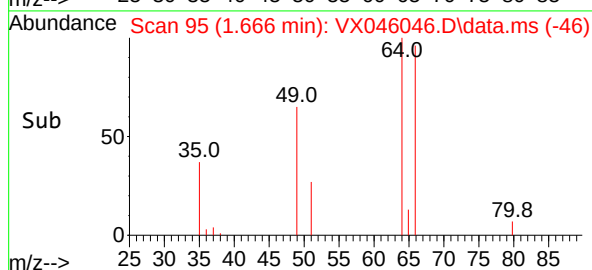
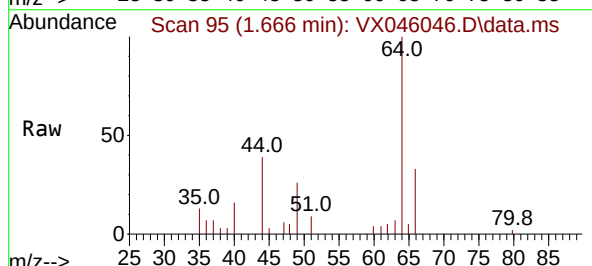
Manual Integrations  
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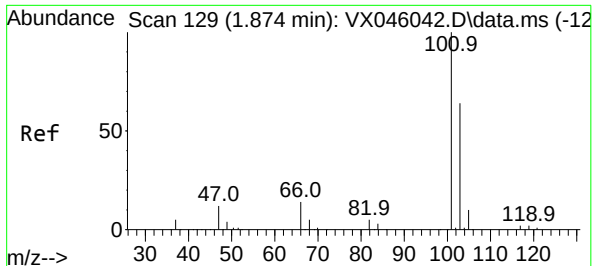
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#6  
Chloroethane  
Concen: 3.750 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

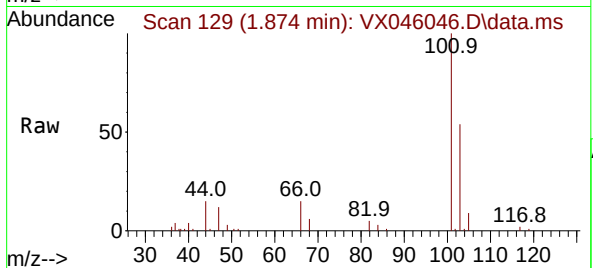
Tgt Ion: 64 Resp: 3567  
Ion Ratio Lower Upper  
64 100  
66 33.7 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 3.413 ug/l  
RT: 1.874 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

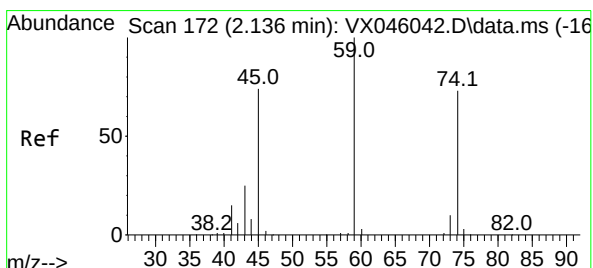
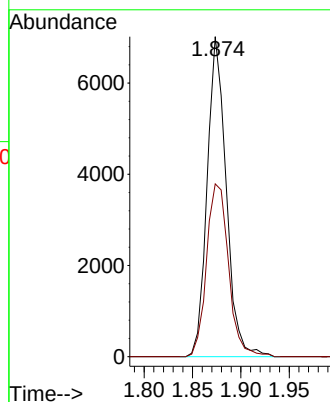
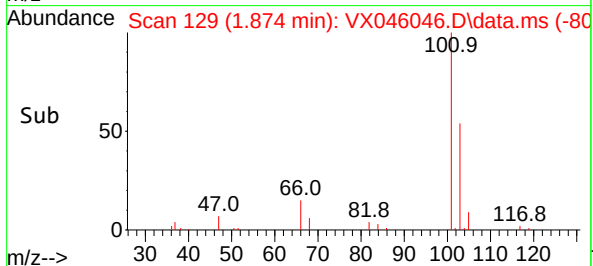
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:101 Resp: 959  
Ion Ratio Lower Upper  
101 100  
103 54.0 51.0 76.4

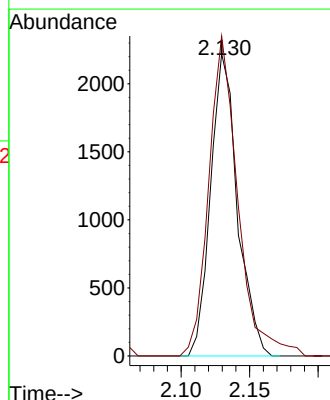
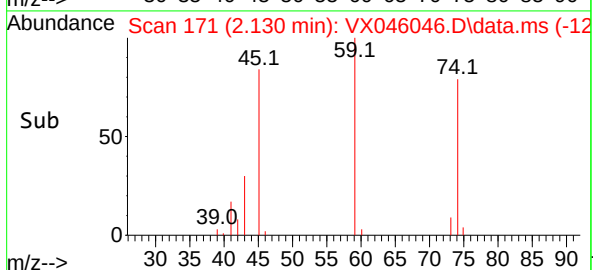
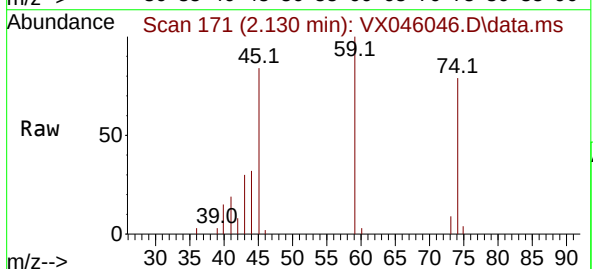
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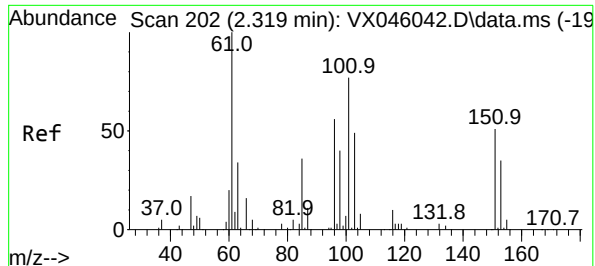
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#8  
Diethyl Ether  
Concen: 3.266 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 74 Resp: 3020  
Ion Ratio Lower Upper  
74 100  
45 115.1 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.517 ug/l

RT: 2.325 min Scan# 202

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

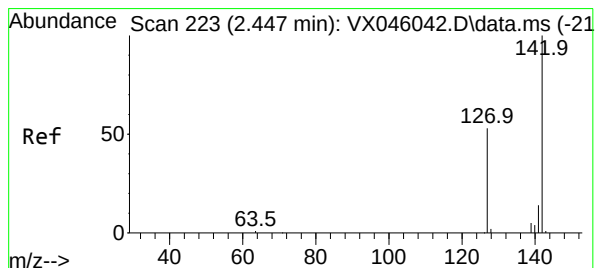
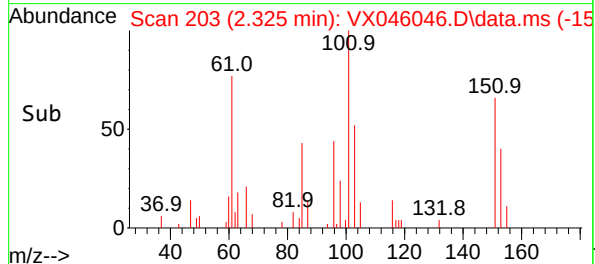
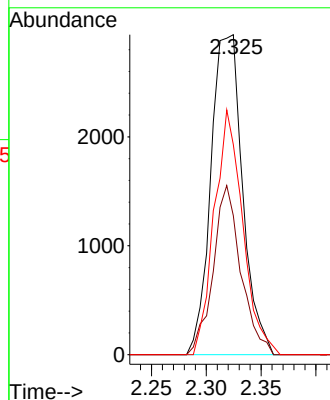
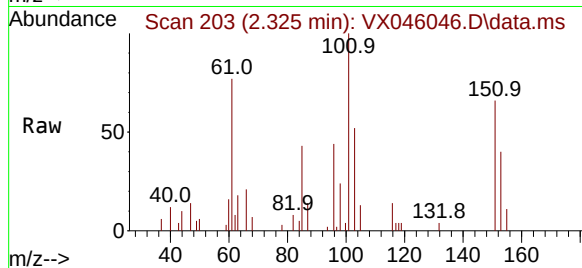
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 591   |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 46.3  | 38.6  | 58.0  |
| 151      | 68.8  | 55.2  | 82.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#10

Methyl Iodide

Concen: 2.990 ug/l

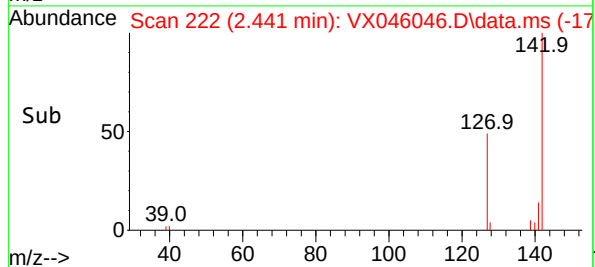
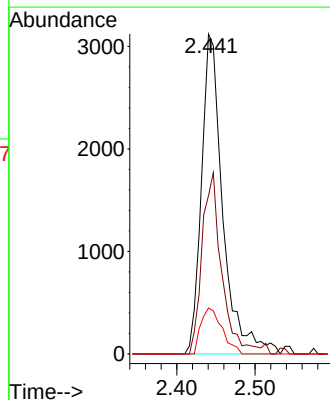
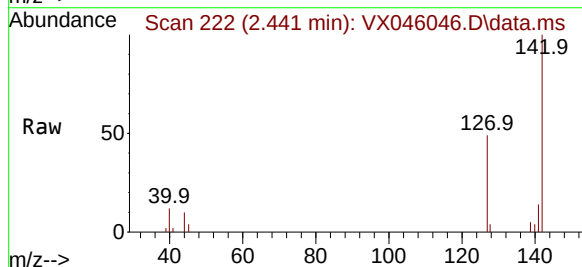
RT: 2.441 min Scan# 222

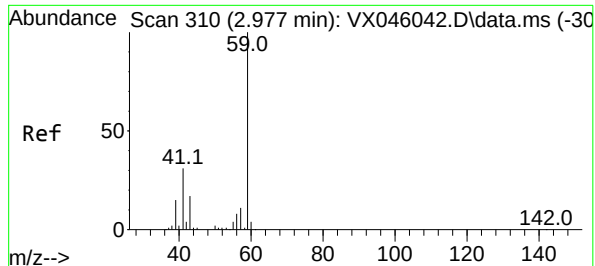
Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 5900  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 52.8  | 41.7  | 62.5  |
| 141      | 14.3  | 11.5  | 17.3  |





#11

Tert butyl alcohol

Concen: 16.111 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.012 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 553

Ion Ratio Lower Upper

59 100

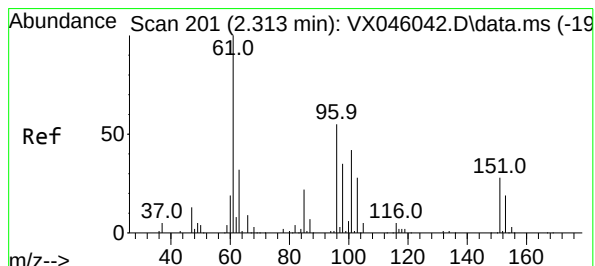
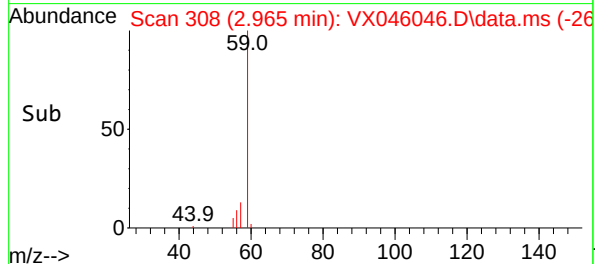
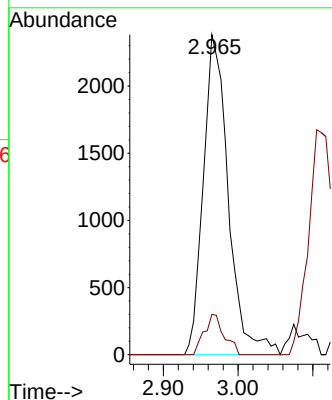
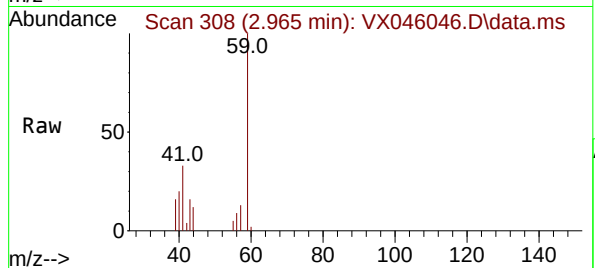
57 10.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#12

1,1-Dichloroethene

Concen: 3.359 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

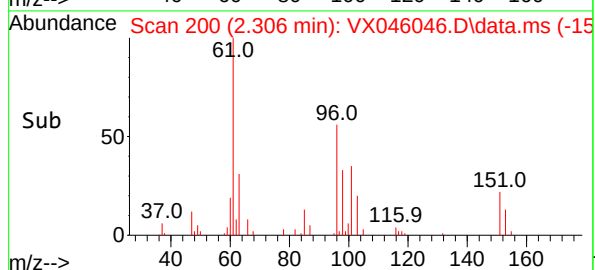
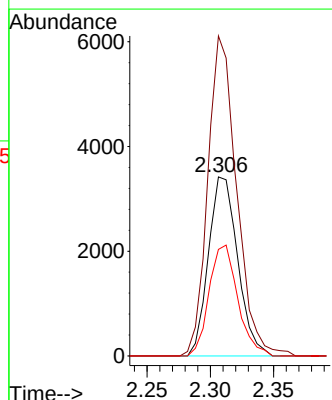
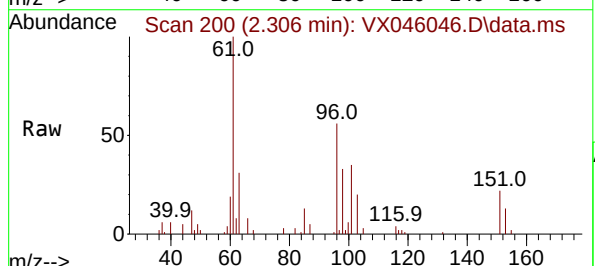
Tgt Ion: 96 Resp: 5496

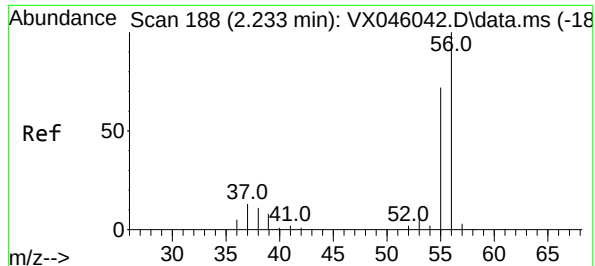
Ion Ratio Lower Upper

96 100

61 178.7 146.2 219.2

98 59.5 51.0 76.6





#13

Acrolein

Concen: 14.206 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 567

Ion Ratio Lower Upper

56 100

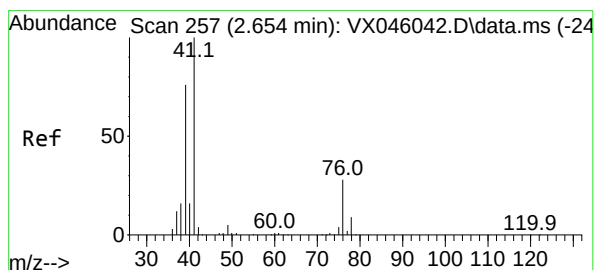
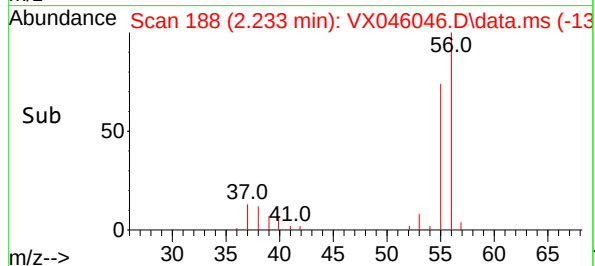
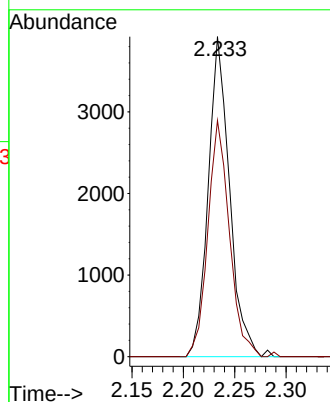
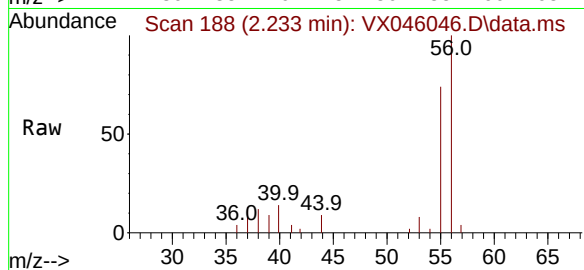
55 74.5 56.2 84.4

Manual Integrations

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Reviewed By :John Carbone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 3.319 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

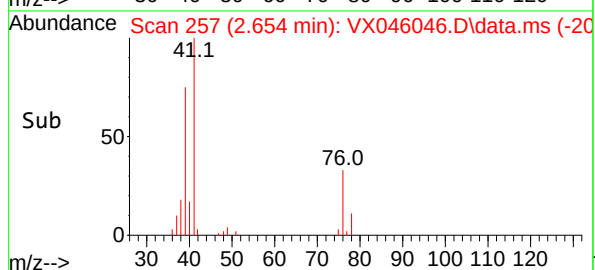
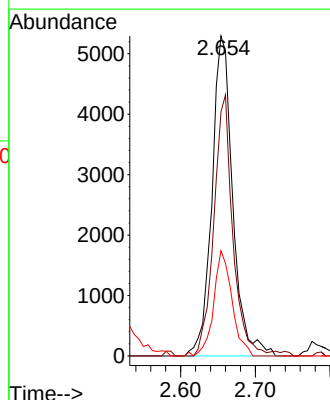
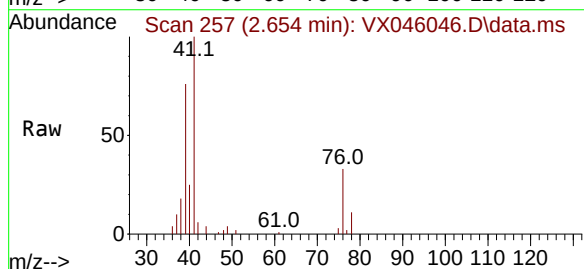
Tgt Ion: 41 Resp: 10262

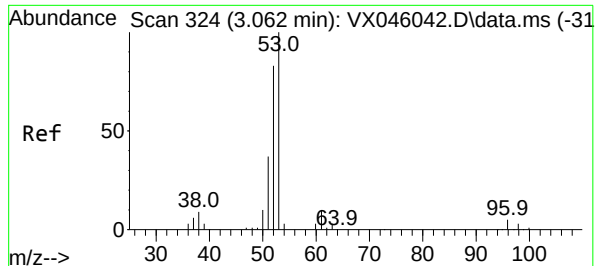
Ion Ratio Lower Upper

41 100

39 74.1 60.6 90.8

76 29.1 24.9 37.3





#15

Acrylonitrile

Concen: 16.282 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

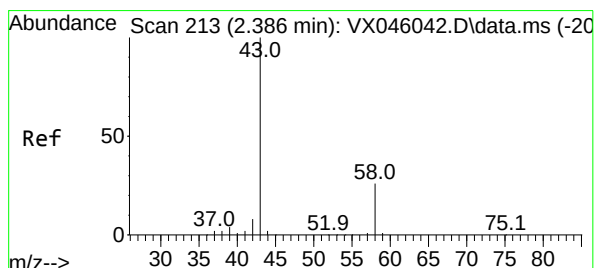
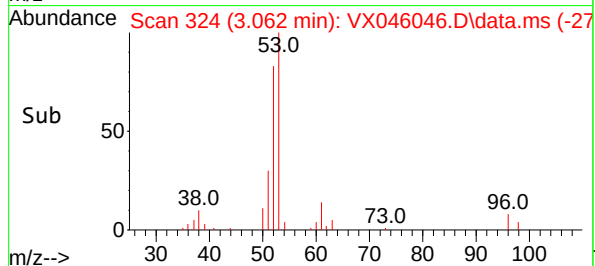
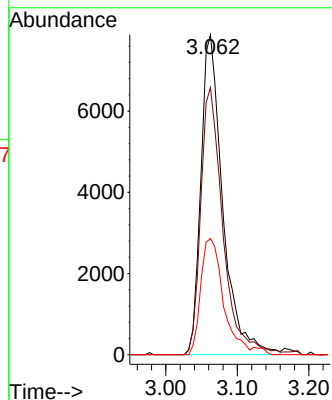
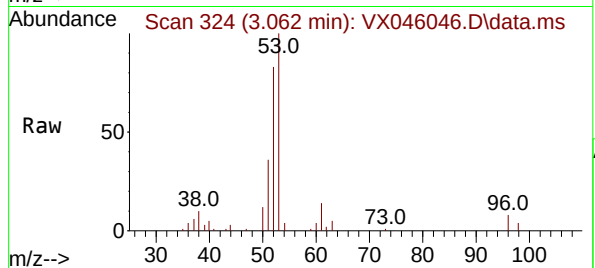
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 53    | Resp: | 16740 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 84.3  | 65.3  | 97.9  |
| 51       | 38.5  | 29.8  | 44.8  |

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 20.036 ug/l

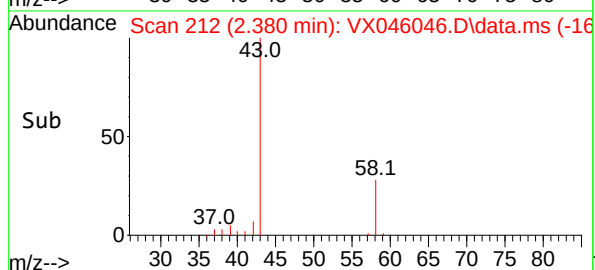
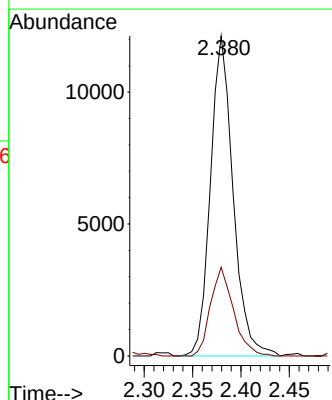
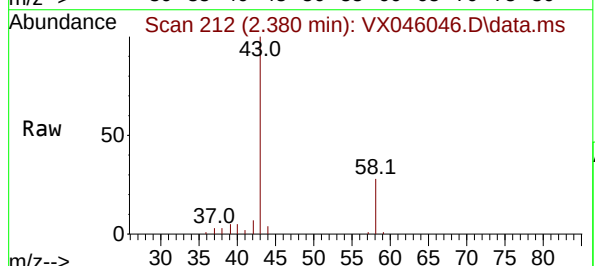
RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

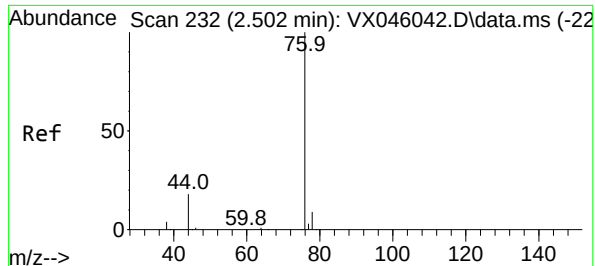
Lab File: VX046046.D

Acq: 05 May 2025 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 19773 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 27.7  | 21.2  | 31.8  |







#17

Carbon Disulfide

Concen: 2.919 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 11068

Ion Ratio Lower Upper

76 100

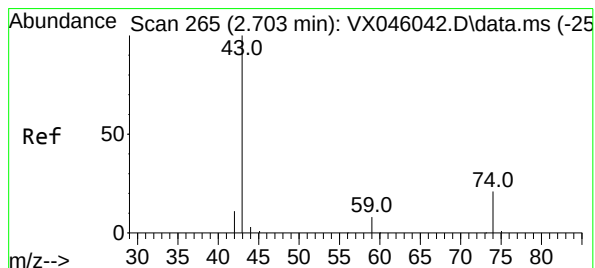
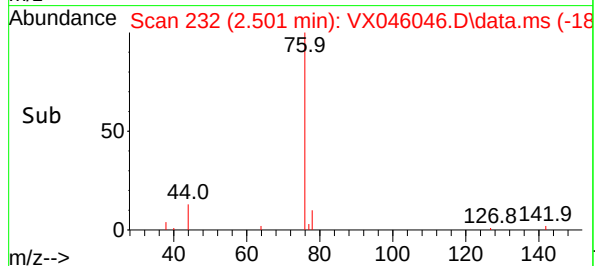
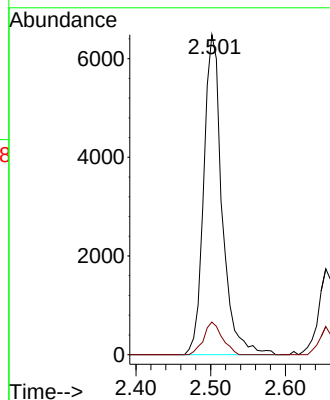
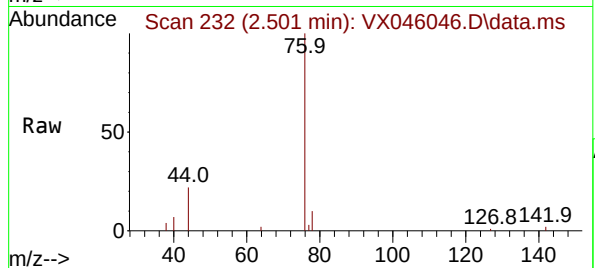
78 10.2 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 3.357 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX046046.D

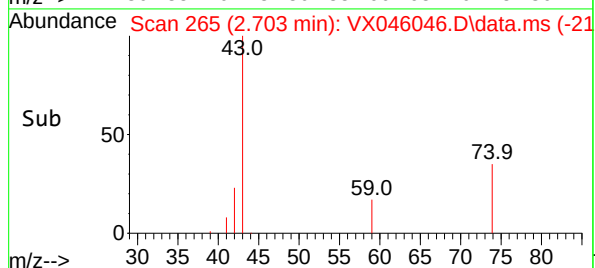
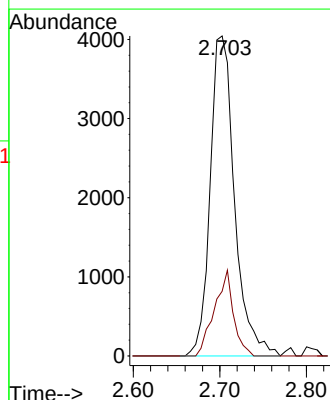
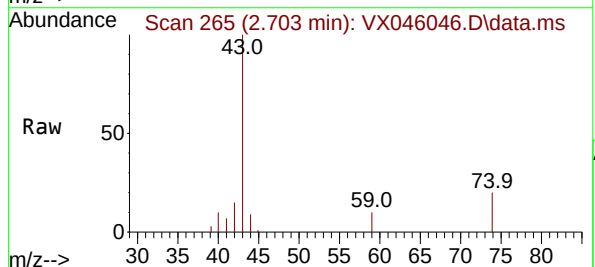
Acq: 05 May 2025 16:04

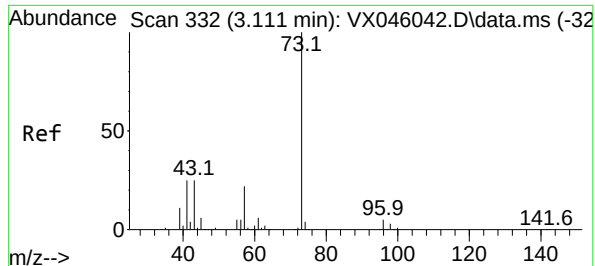
Tgt Ion: 43 Resp: 7909

Ion Ratio Lower Upper

43 100

74 20.9 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 3.241 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046046.D

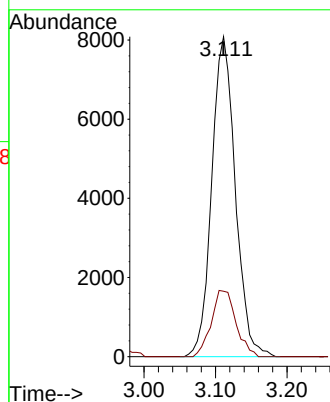
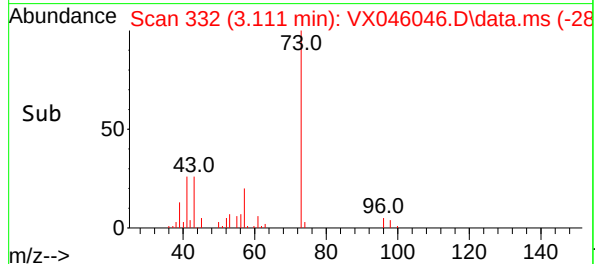
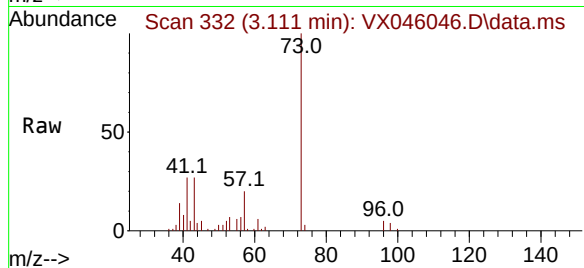
Acq: 05 May 2025 16:04

Tgt Ion: 73 Resp: 1849

Ion Ratio Lower Upper

73 100

57 20.5 17.7 26.5



Instrument :

MSVOA\_X

ClientSampleId :

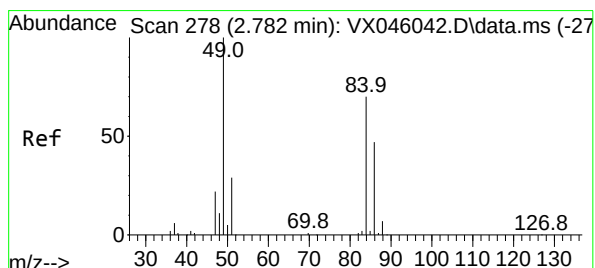
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#20

Methylene Chloride

Concen: 3.341 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Tgt Ion: 84 Resp: 6680

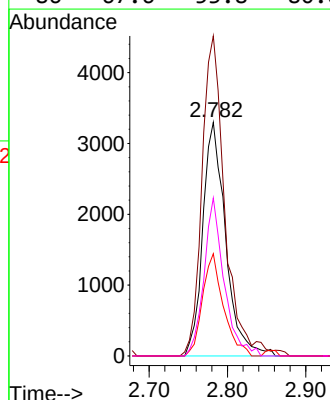
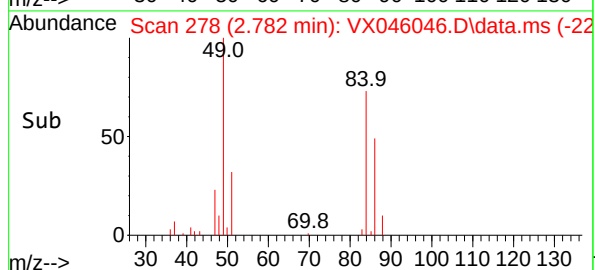
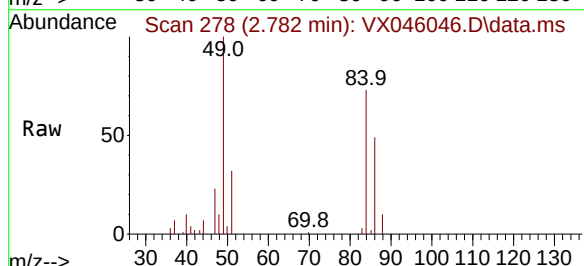
Ion Ratio Lower Upper

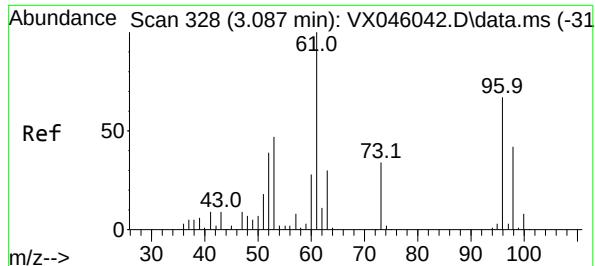
84 100

49 137.0 113.9 170.9

51 43.8 33.5 50.3

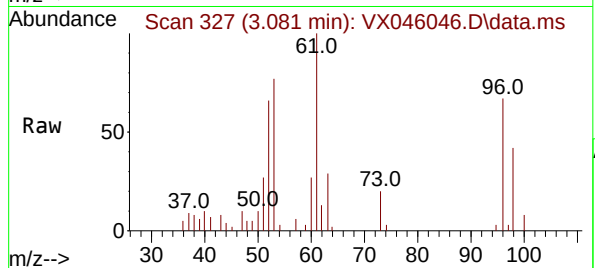
86 67.6 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 3.234 ug/l  
RT: 3.081 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

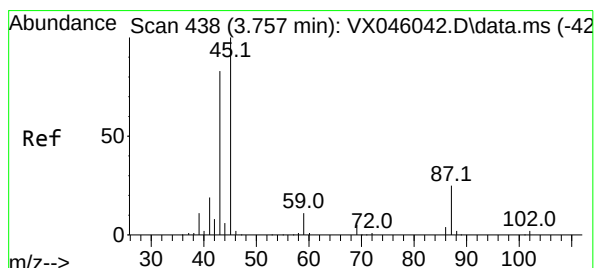
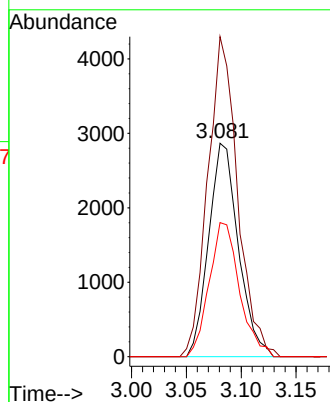
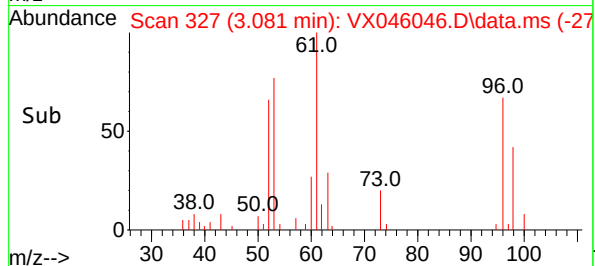
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 96 Resp: 540  
Ion Ratio Lower Upper  
96 100  
61 149.9 119.5 179.3  
98 62.9 50.0 75.0

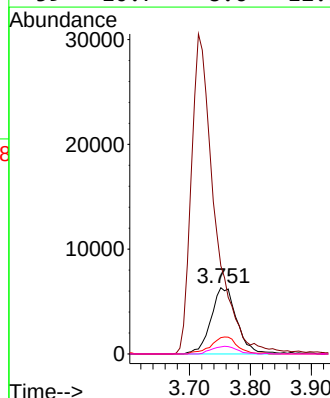
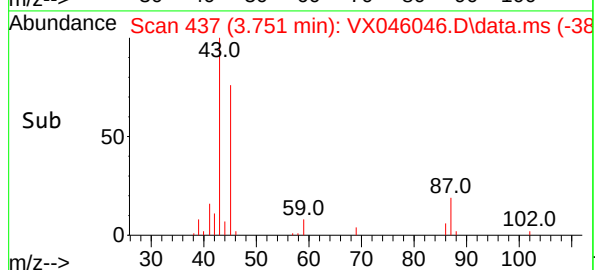
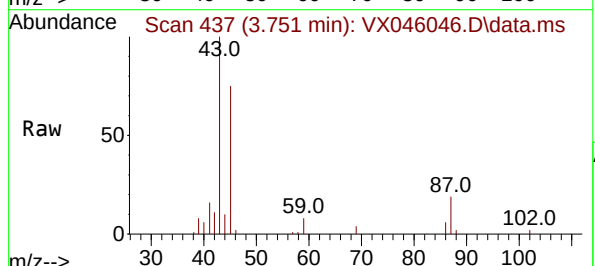
Manual Integrations  
APPROVED

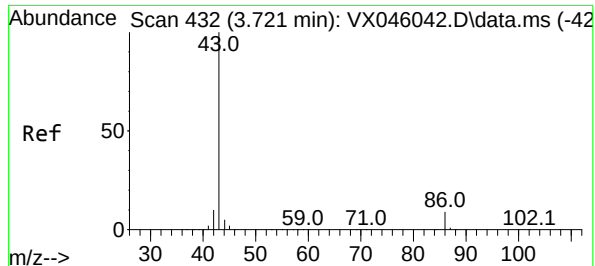
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 3.230 ug/l  
RT: 3.751 min Scan# 437  
Delta R.T. -0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 45 Resp: 18657  
Ion Ratio Lower Upper  
45 100  
43 128.0 66.6 100.0#  
87 24.7 19.8 29.6  
59 10.7 8.6 12.8





#23

Vinyl Acetate

Concen: 16.127 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 82328

Ion Ratio Lower Upper

43

100

86

9.1

7.5

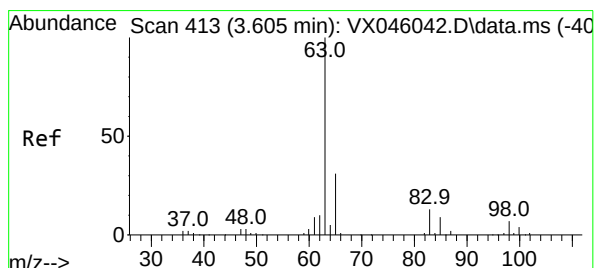
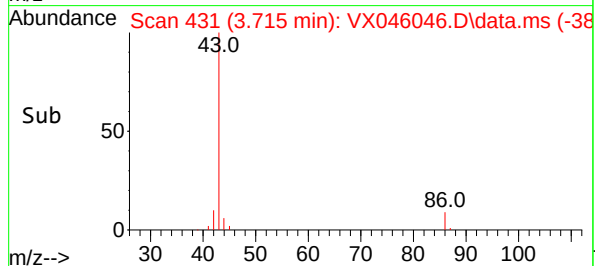
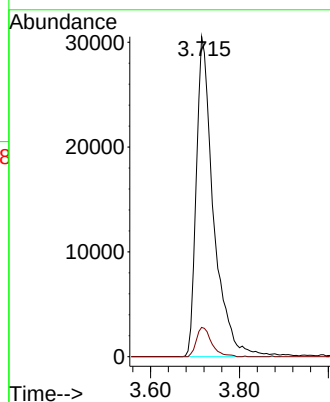
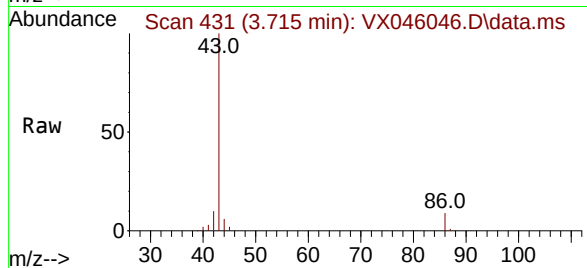
11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#24

1,1-Dichloroethane

Concen: 3.297 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 11193

Ion Ratio Lower Upper

63

100

98

6.9

3.6

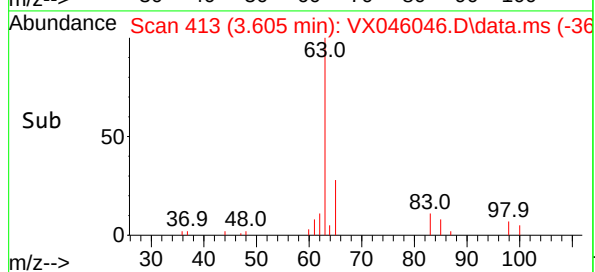
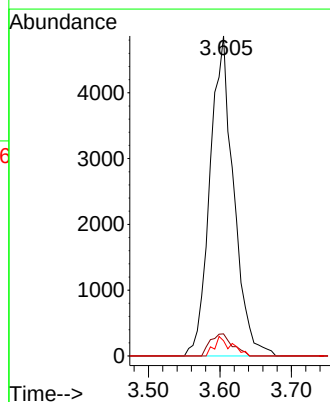
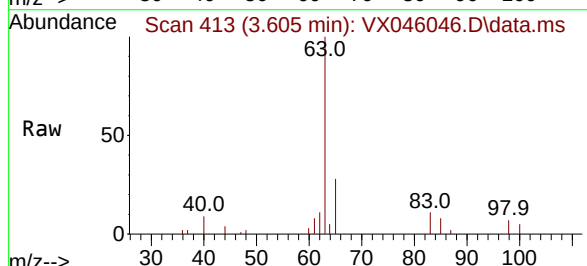
10.8

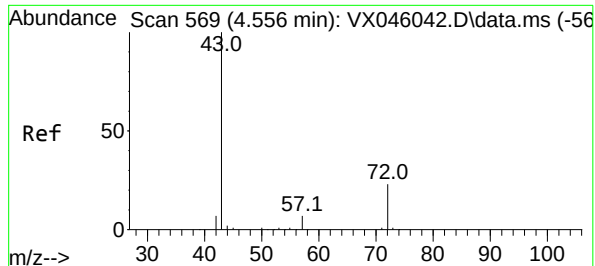
100

4.7

2.1

6.3





#25

2-Butanone

Concen: 18.340 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 2612

Ion Ratio Lower Upper

43 100

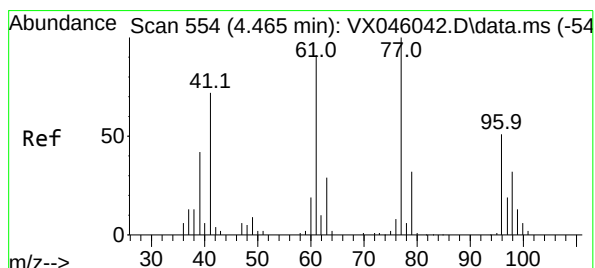
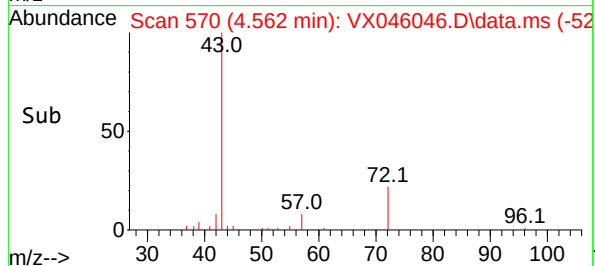
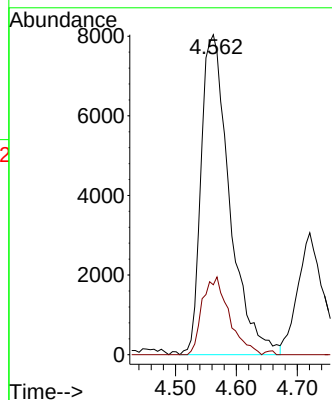
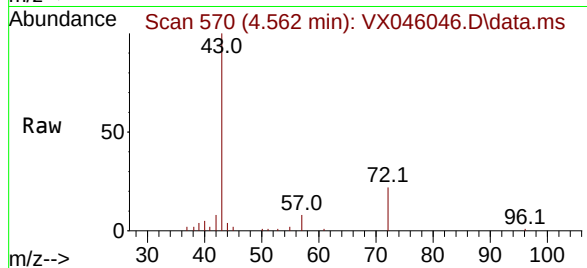
72 21.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 3.205 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX046046.D

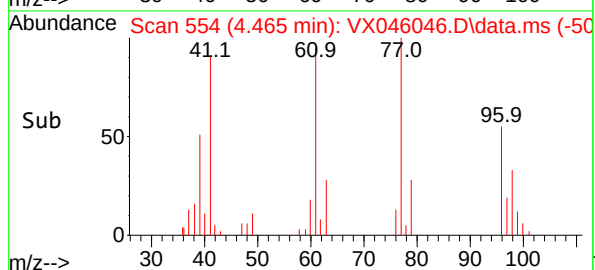
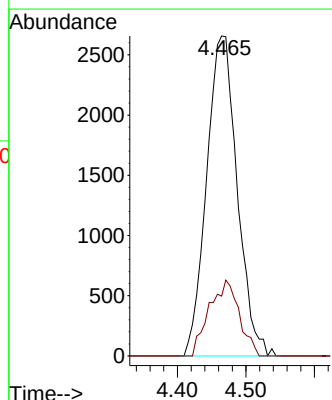
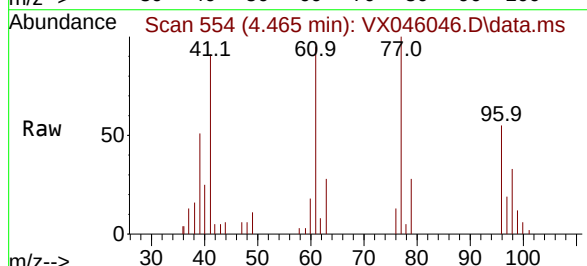
Acq: 05 May 2025 16:04

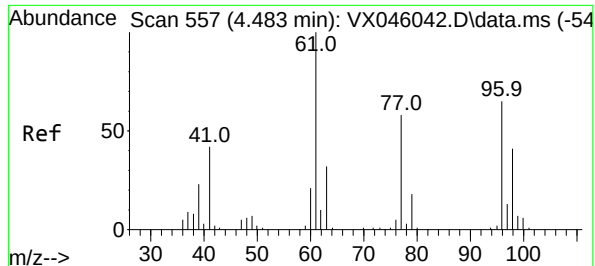
Tgt Ion: 77 Resp: 8245

Ion Ratio Lower Upper

77 100

97 23.1 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 3.089 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 622

Ion Ratio Lower Upper

96 100

61 168.5 0.0 322.8

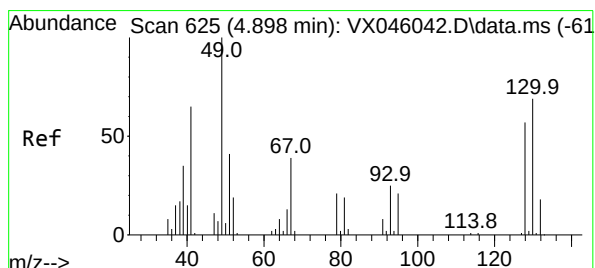
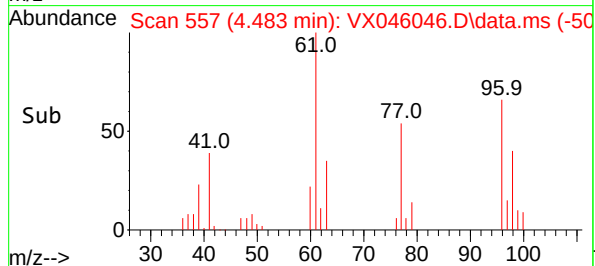
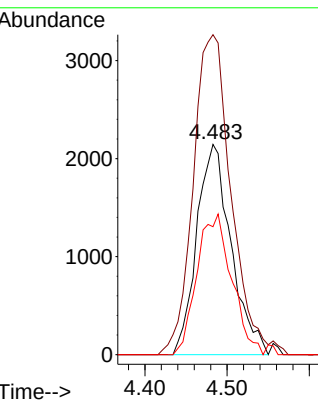
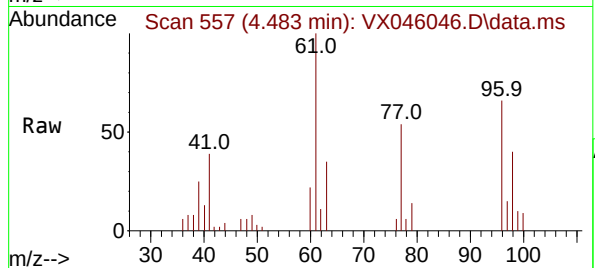
98 67.6 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 2.969 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

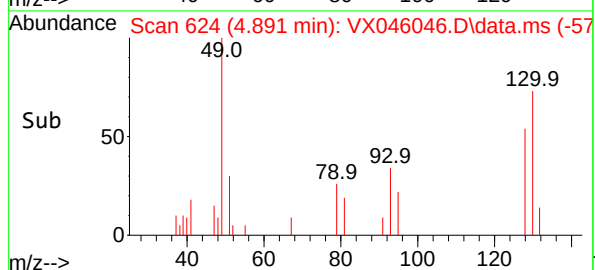
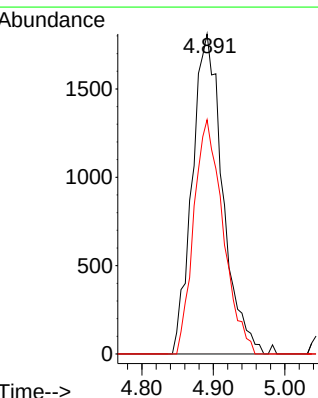
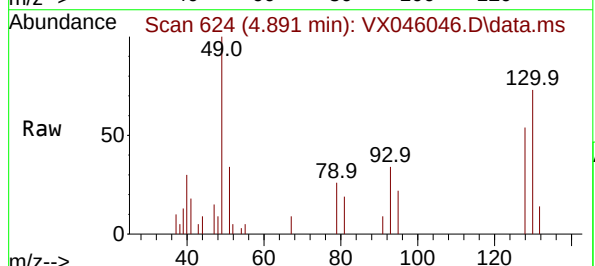
Tgt Ion: 49 Resp: 5360

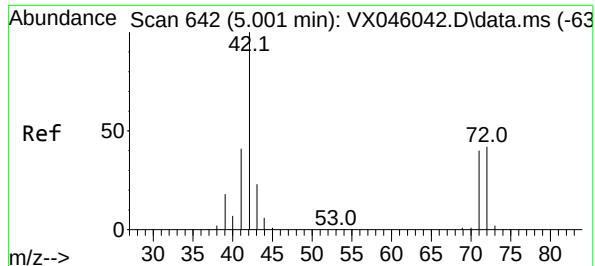
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 70.5 56.2 84.2





#29

Tetrahydrofuran

Concen: 16.680 ug/l

RT: 5.001 min Scan# 642

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 42 Resp: 1543

Ion Ratio Lower Upper

42 100

72 42.2 33.7 50.5

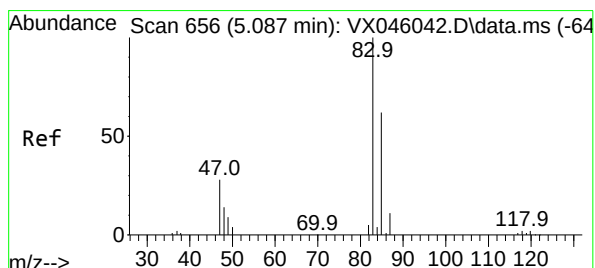
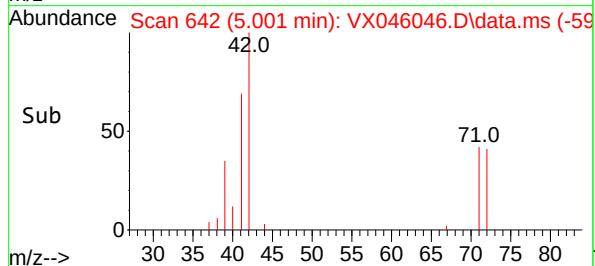
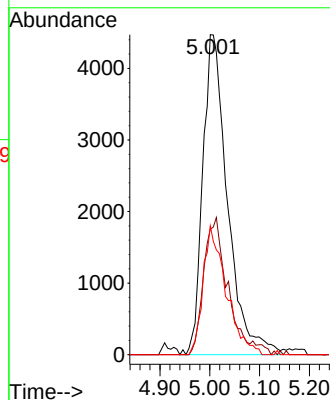
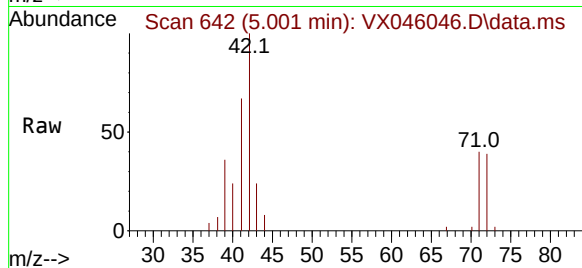
71 37.4 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 3.294 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.006 min

Lab File: VX046046.D

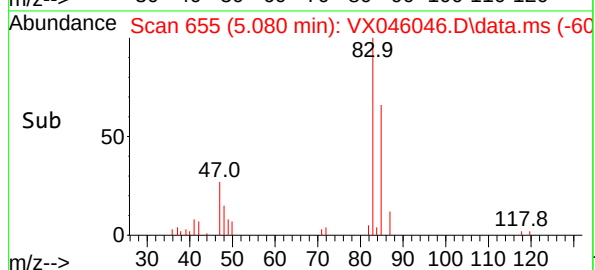
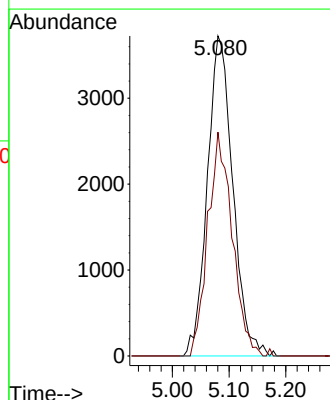
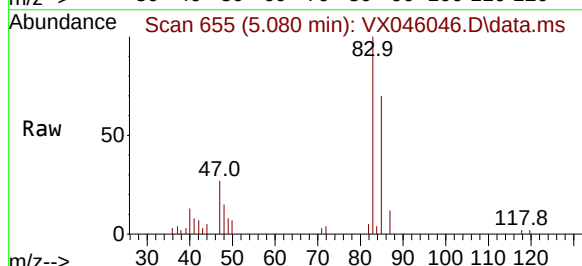
Acq: 05 May 2025 16:04

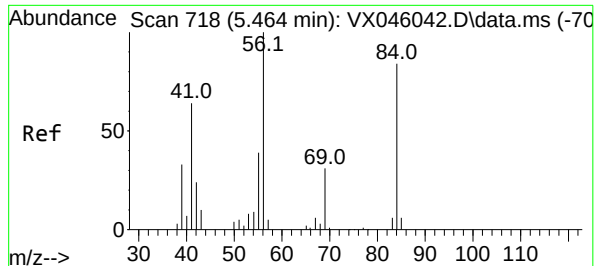
Tgt Ion: 83 Resp: 11624

Ion Ratio Lower Upper

83 100

85 69.9 49.3 73.9





#31

Cyclohexane

Concen: 3.588 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 10269

Ion Ratio Lower Upper

56 100

69 31.6 24.4 36.6

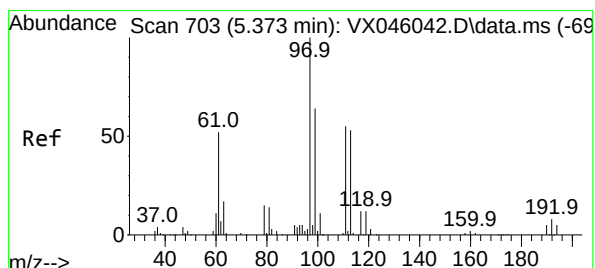
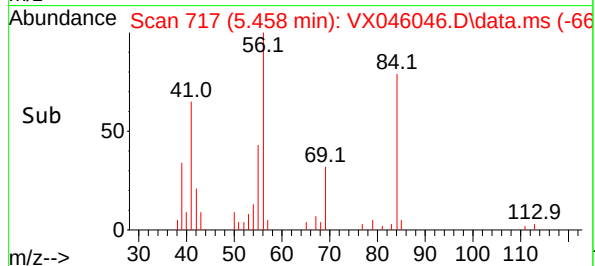
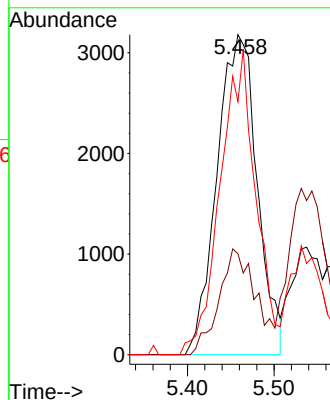
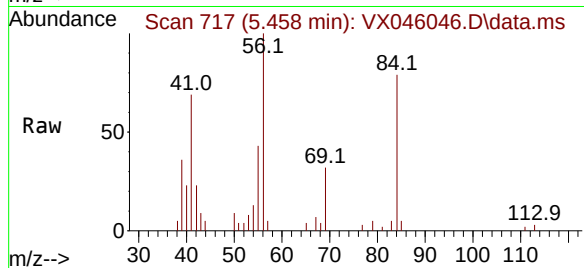
84 79.1 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#32

1,1,1-Trichloroethane

Concen: 3.229 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

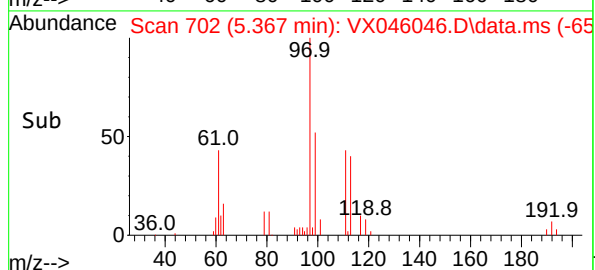
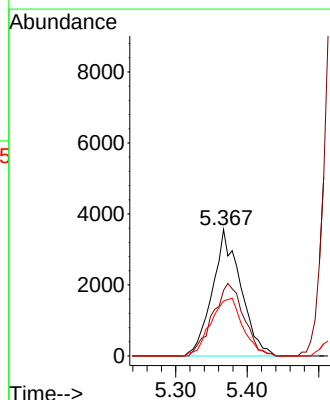
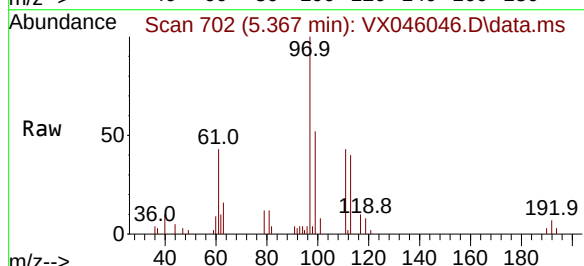
Tgt Ion: 97 Resp: 9827

Ion Ratio Lower Upper

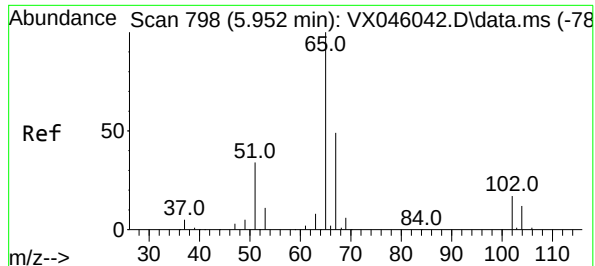
97 100

99 62.6 51.8 77.6

61 51.8 40.1 60.1







#33

1,2-Dichloroethane-d4

Concen: 3.143 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 906

Ion Ratio Lower Upper

65 100

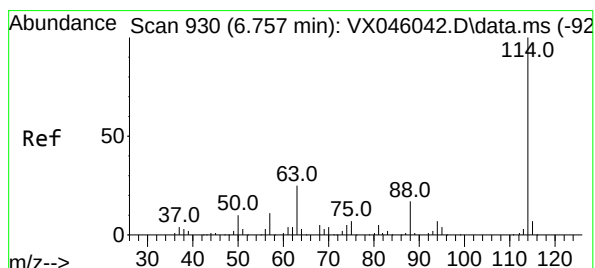
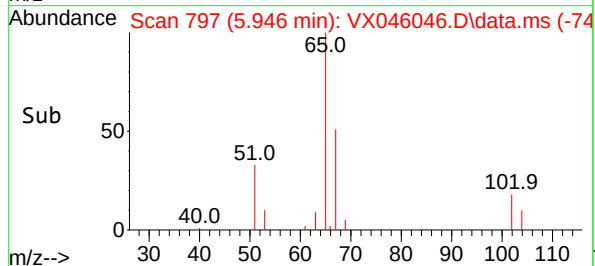
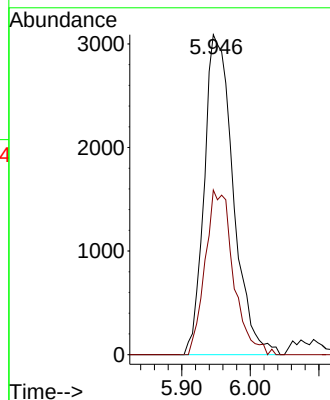
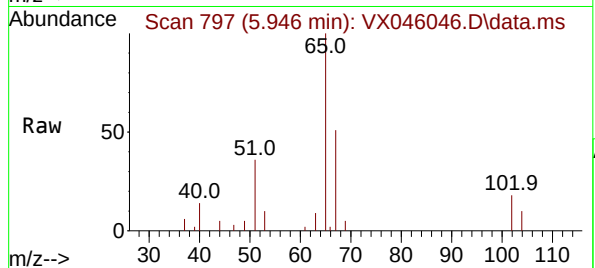
67 50.1 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

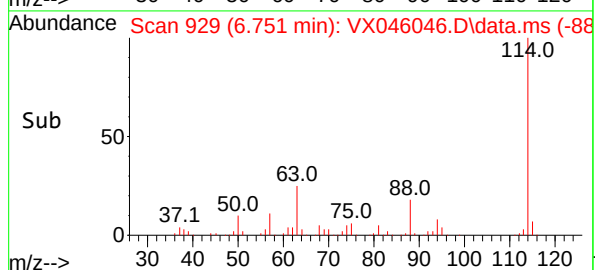
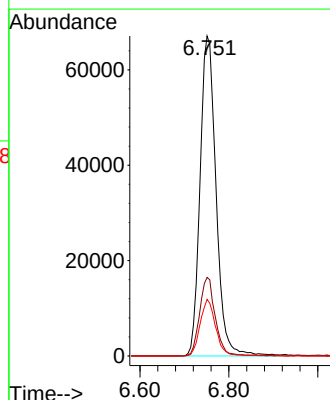
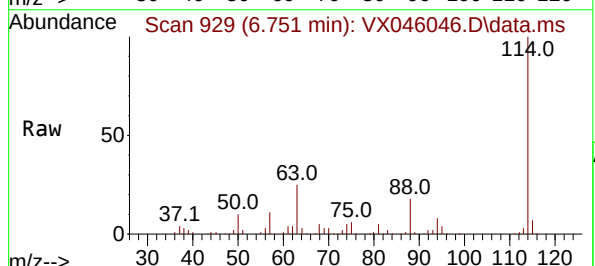
Tgt Ion:114 Resp: 168484

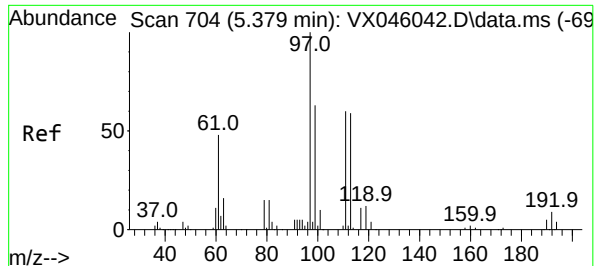
Ion Ratio Lower Upper

114 100

63 24.5 0.0 49.2

88 17.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 3.161 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

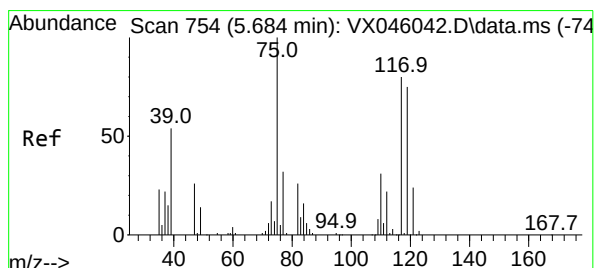
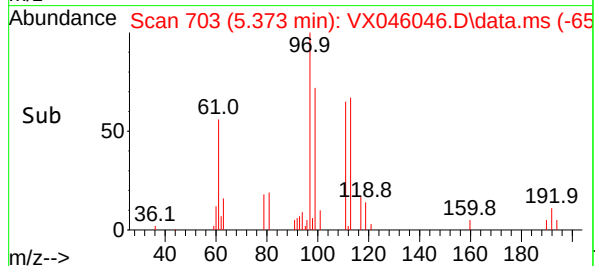
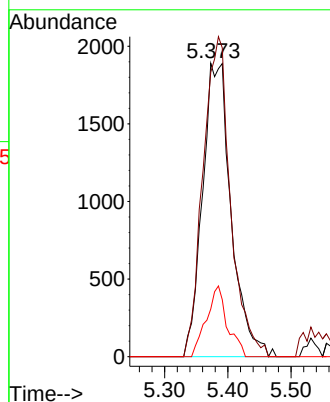
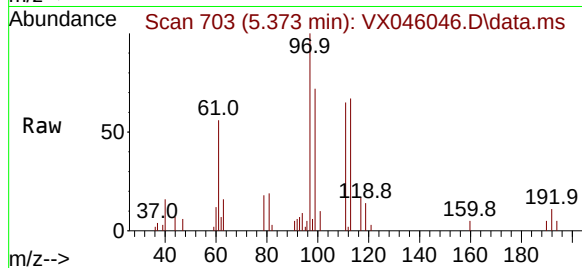
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 596   |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 104.4 | 83.1  | 124.7 |
| 192      | 17.5  | 13.3  | 19.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#36

1,1-Dichloropropene

Concen: 3.551 ug/l

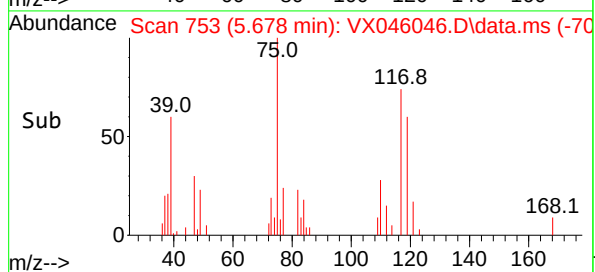
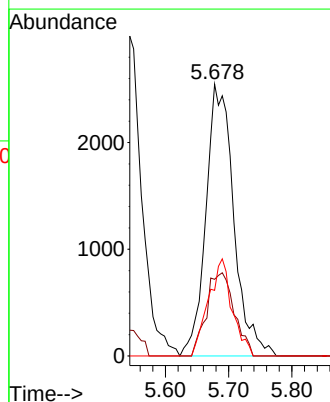
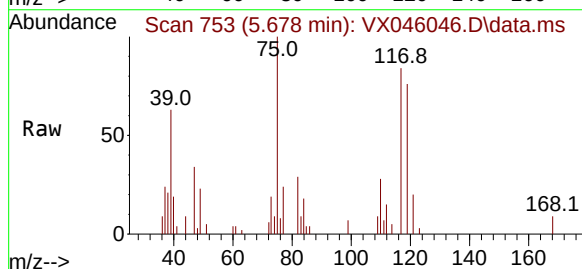
RT: 5.678 min Scan# 753

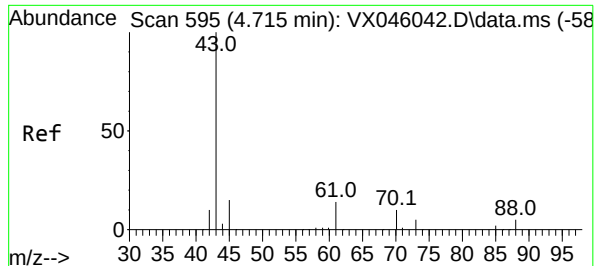
Delta R.T. -0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7787  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 30.6  | 16.3  | 48.9  |
| 77       | 30.5  | 24.3  | 36.5  |





#37

Ethyl Acetate

Concen: 3.565 ug/l m

RT: 4.721 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 9800

Ion Ratio Lower Upper

43 100

61 11.0 10.3 15.5

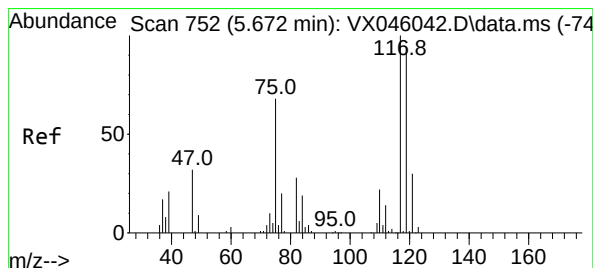
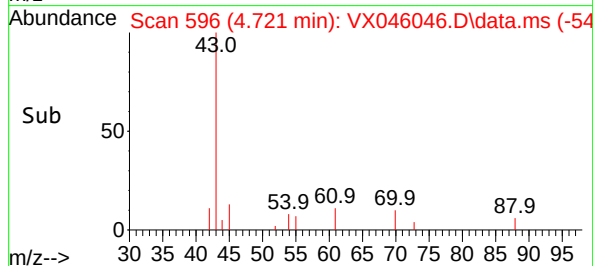
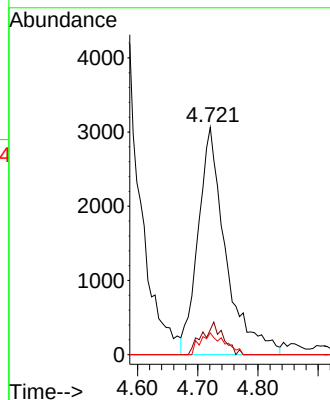
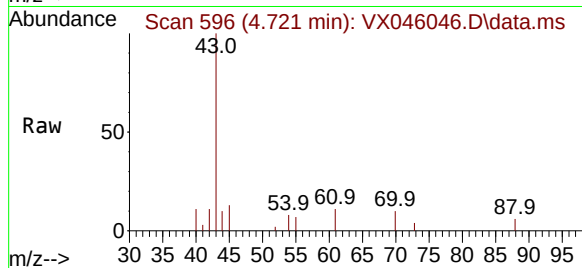
70 8.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#38

Carbon Tetrachloride

Concen: 3.376 ug/l

RT: 5.659 min Scan# 750

Delta R.T. -0.012 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

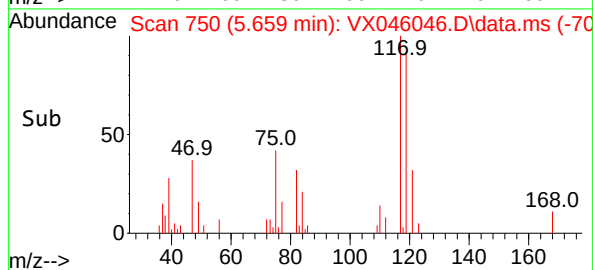
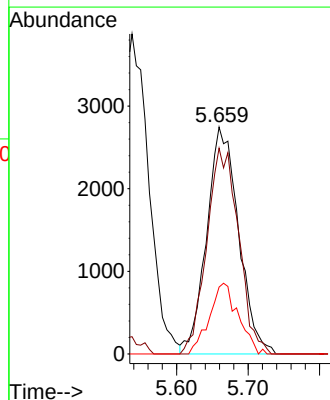
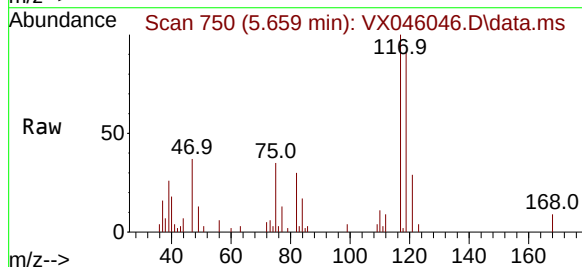
Tgt Ion:117 Resp: 8505

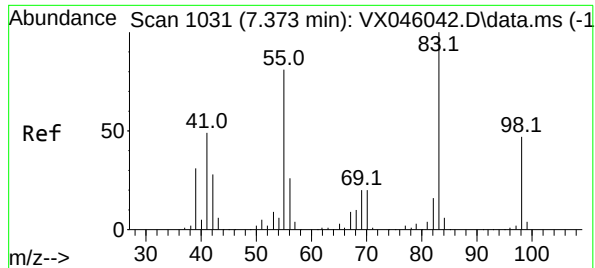
Ion Ratio Lower Upper

117 100

119 90.6 75.2 112.8

121 29.5 24.2 36.4





#39

Methylcyclohexane

Concen: 3.597 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

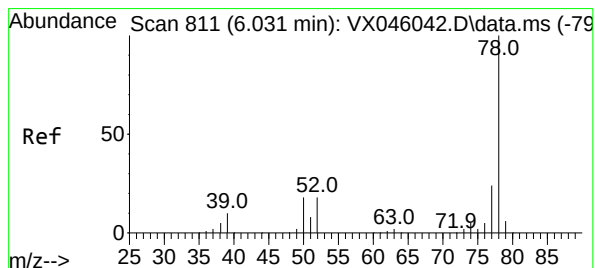
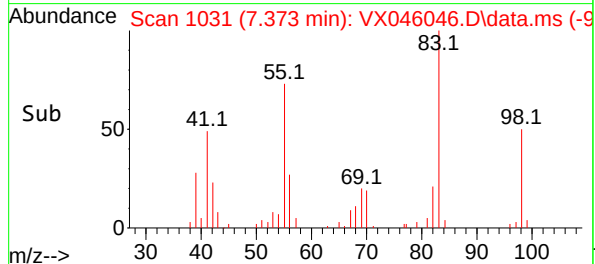
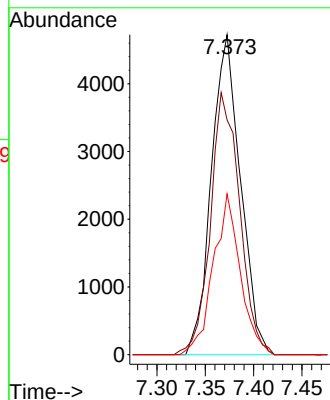
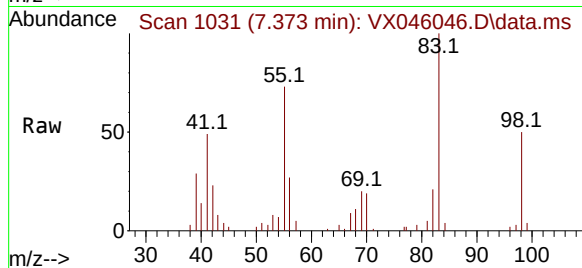
VSTDICC005

|             |                |
|-------------|----------------|
| Tgt Ion: 83 | Resp: 988      |
| Ion Ratio   | Lower Upper    |
| 83          | 100            |
| 55          | 73.3 64.7 97.1 |
| 98          | 50.3 37.4 56.2 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#40

Benzene

Concen: 3.315 ug/l

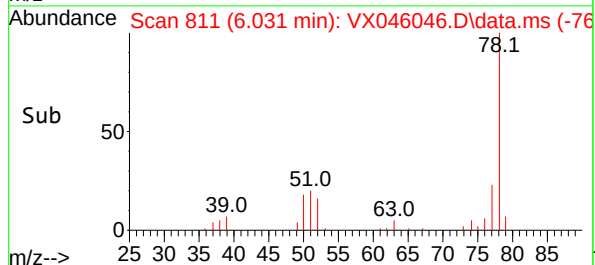
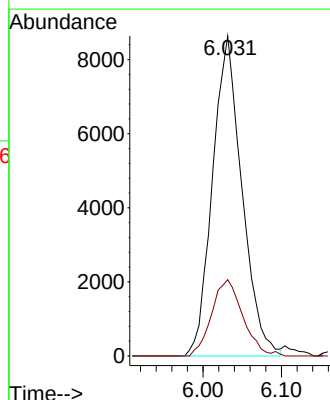
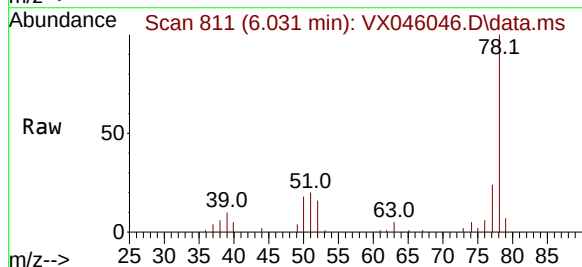
RT: 6.031 min Scan# 811

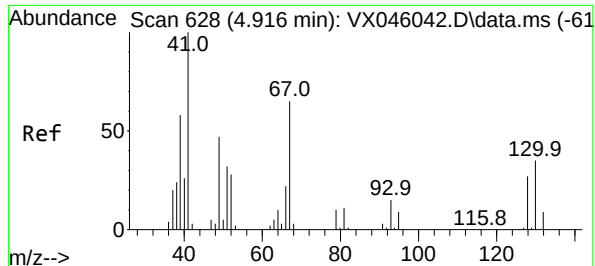
Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

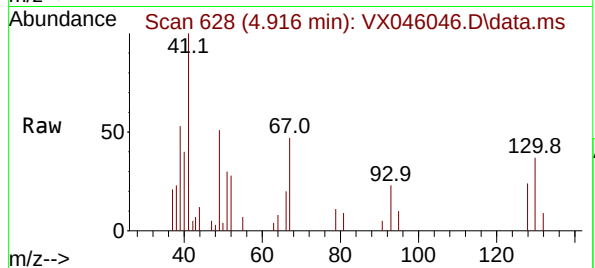
|             |                |
|-------------|----------------|
| Tgt Ion: 78 | Resp: 22528    |
| Ion Ratio   | Lower Upper    |
| 78          | 100            |
| 77          | 23.9 19.0 28.4 |





#41  
Methacrylonitrile  
Concen: 3.174 ug/l  
RT: 4.916 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

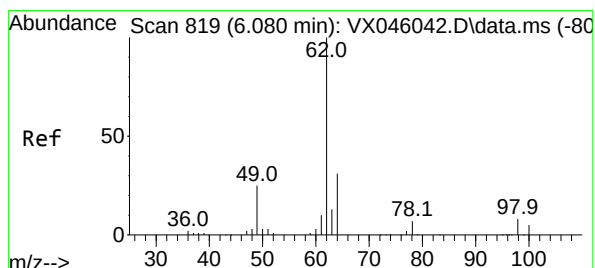
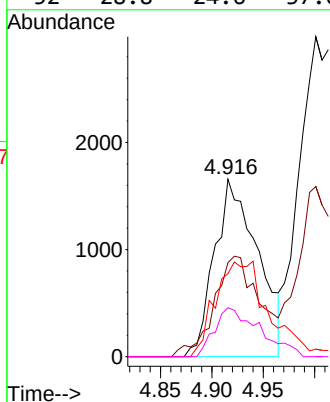
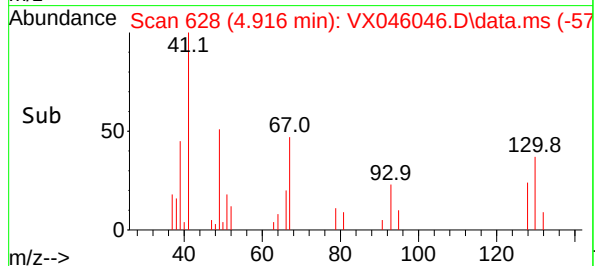
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 41 Resp: 485  
Ion Ratio Lower Upper  
41 100  
39 59.7 47.2 70.8  
67 0.0 50.7 76.1  
52 28.8 24.6 37.0

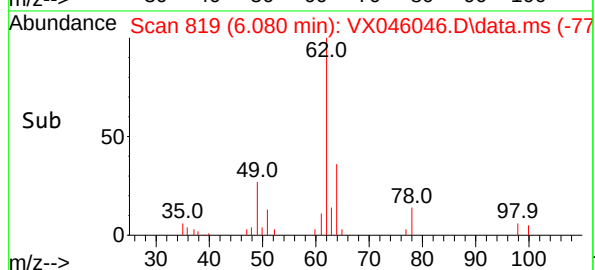
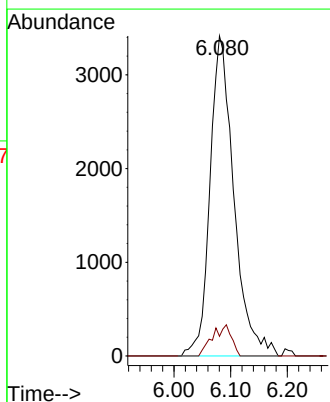
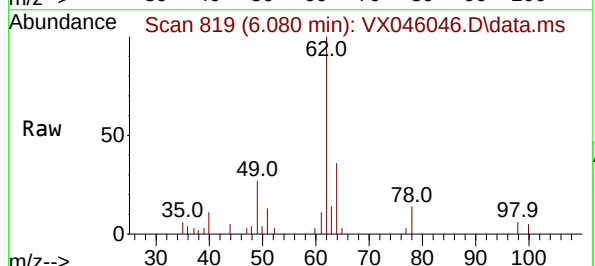
Manual Integrations  
APPROVED

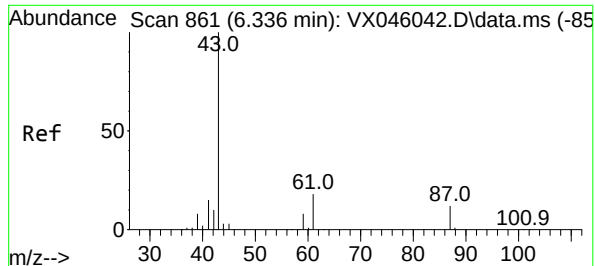
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#42  
1,2-Dichloroethane  
Concen: 3.563 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 10011  
Ion Ratio Lower Upper  
62 100  
98 7.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 3.309 ug/l

RT: 6.348 min Scan# 80

Delta R.T. 0.012 min

Lab File: VX046046.D

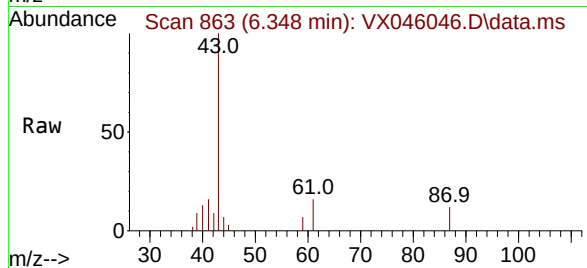
Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005



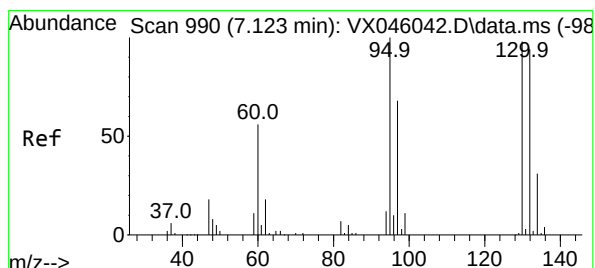
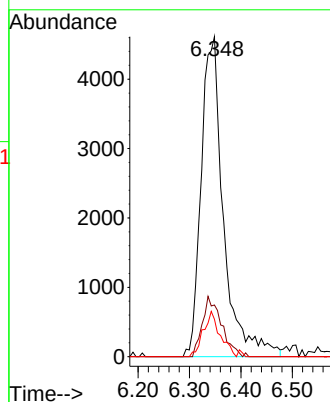
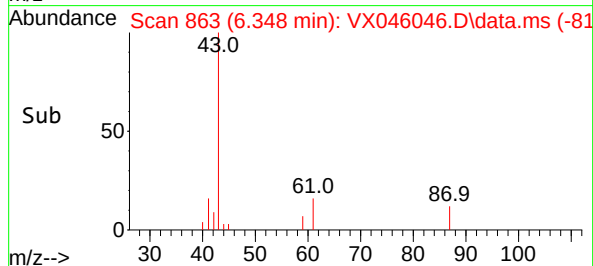
| Tgt Ion:  | 43   | Resp: | 13914 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 61        | 16.2 | 14.3  | 21.5  |
| 87        | 10.6 | 9.5   | 14.3  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#44

Trichloroethene

Concen: 3.307 ug/l

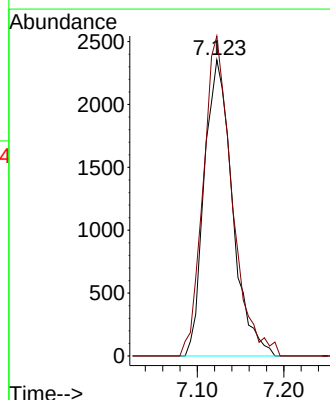
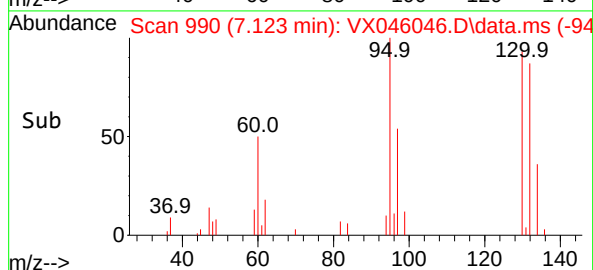
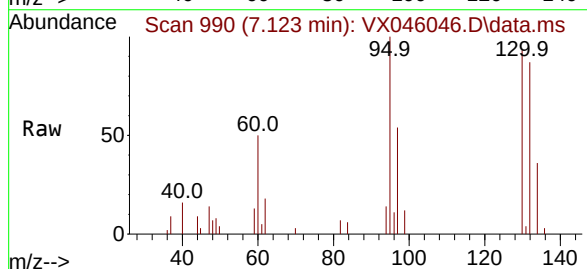
RT: 7.123 min Scan# 990

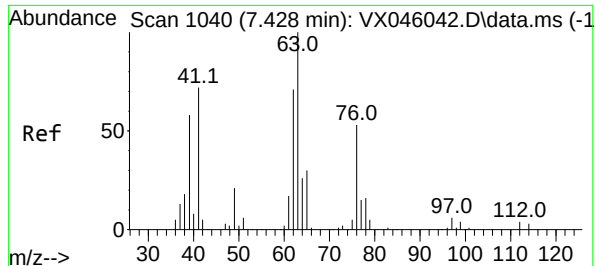
Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

| Tgt Ion:  | 130   | Resp: | 5313  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 95        | 108.1 | 0.0   | 204.2 |





#45

1,2-Dichloropropane

Concen: 3.228 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 545

Ion Ratio Lower Upper

63 100

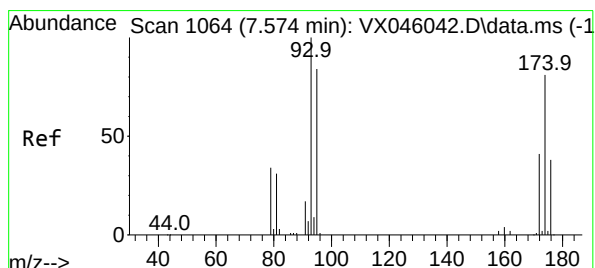
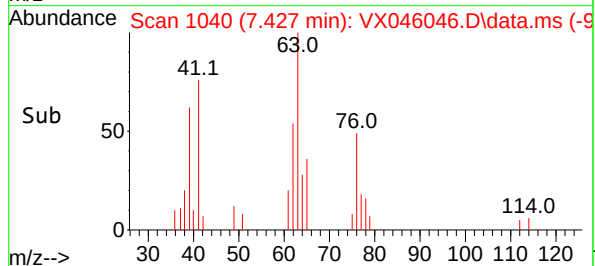
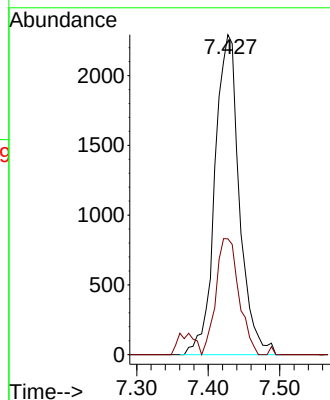
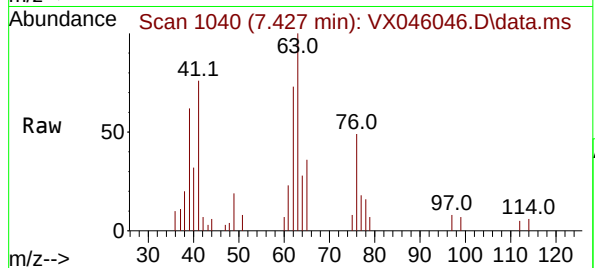
65 36.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#46

Dibromomethane

Concen: 3.318 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

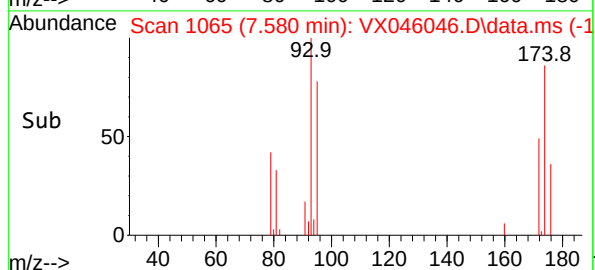
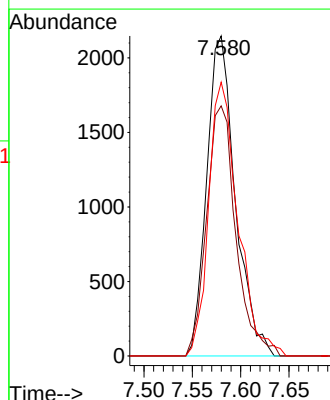
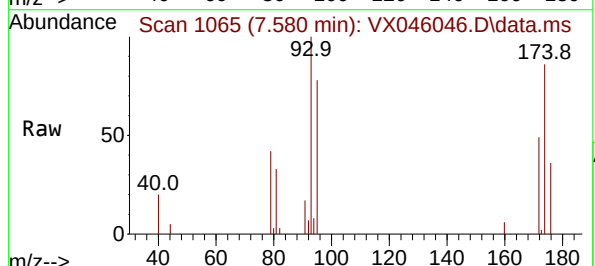
Tgt Ion: 93 Resp: 4417

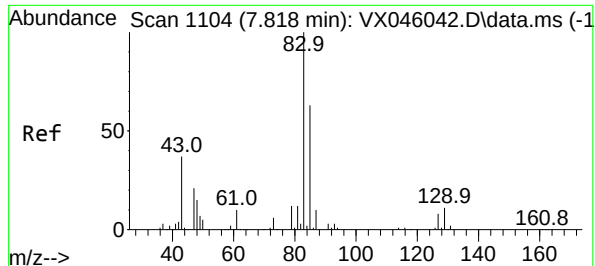
Ion Ratio Lower Upper

93 100

95 80.1 65.6 98.4

174 87.6 68.2 102.2





#47

Bromodichloromethane

Concen: 3.254 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

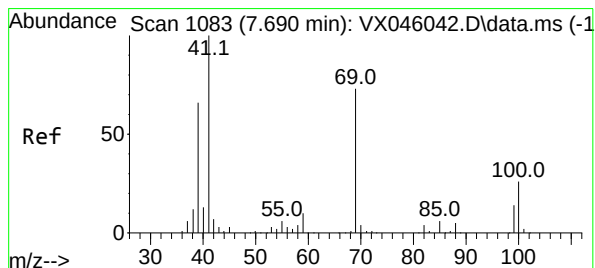
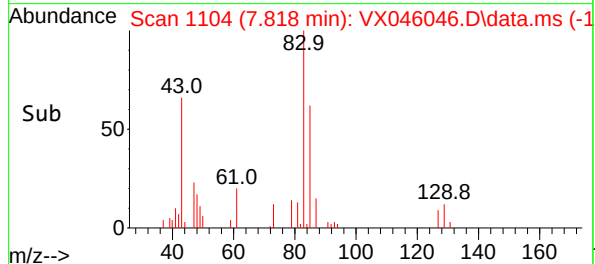
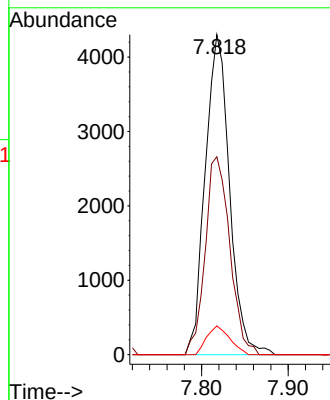
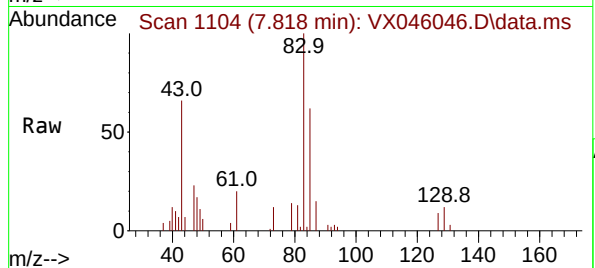
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 8394  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 61.9  | 50.5  | 75.7  |
| 127      | 9.0   | 6.5   | 9.7   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#48

Methyl methacrylate

Concen: 3.321 ug/l

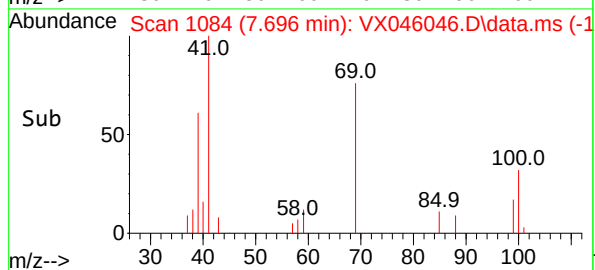
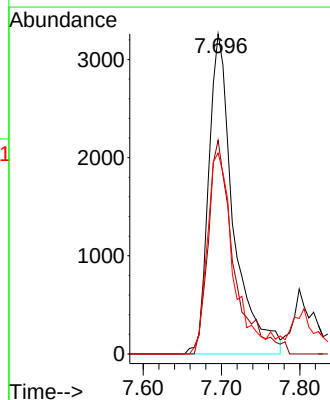
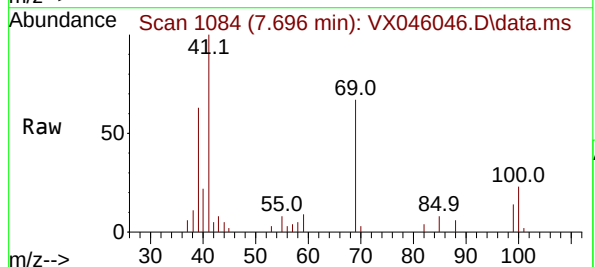
RT: 7.696 min Scan# 1084

Delta R.T. 0.006 min

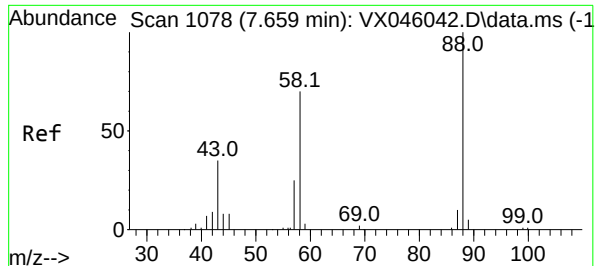
Lab File: VX046046.D

Acq: 05 May 2025 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 7171  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 68.4  | 58.5  | 87.7  |
| 39       | 65.1  | 51.7  | 77.5  |







#49

1,4-Dioxane

Concen: 67.721 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

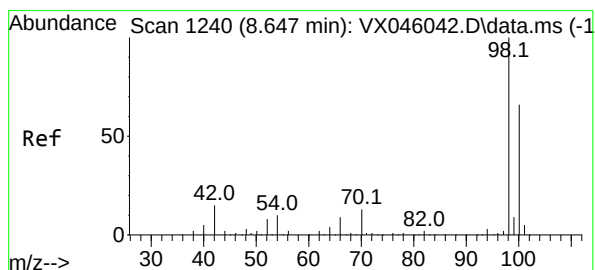
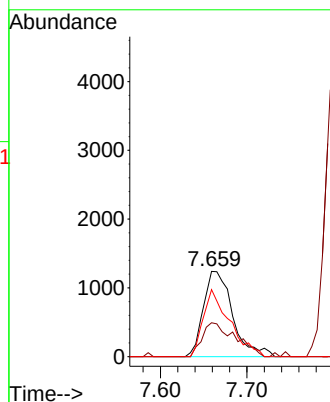
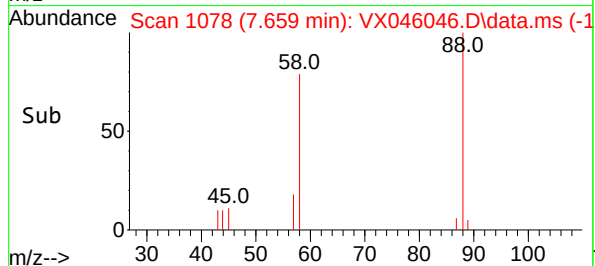
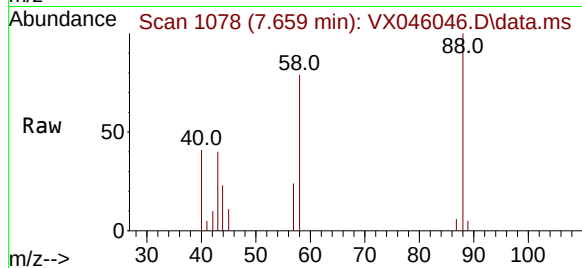
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 290   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 45.3  | 33.4  | 50.2  |
| 58       | 71.0  | 58.6  | 88.0  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#50

Toluene-d8

Concen: 3.232 ug/l

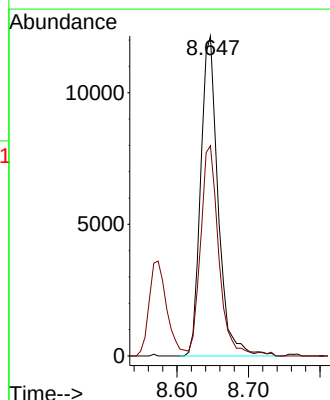
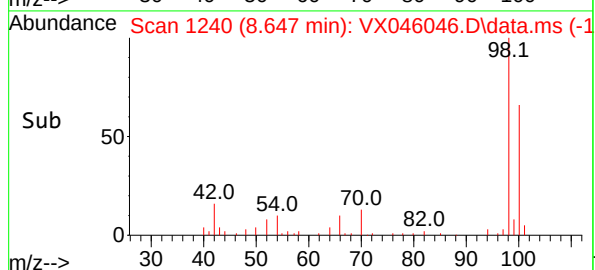
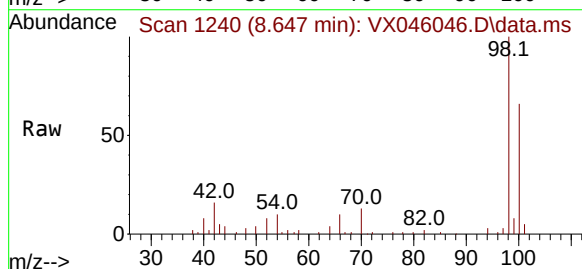
RT: 8.647 min Scan# 1240

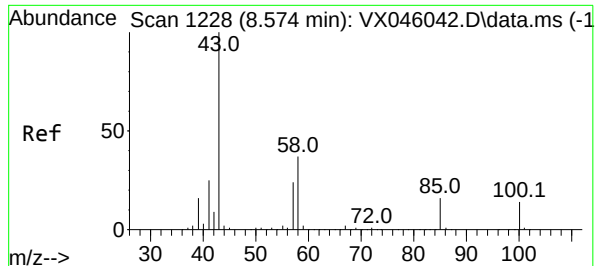
Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 20566 |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 66.1  | 53.5  | 80.3  |





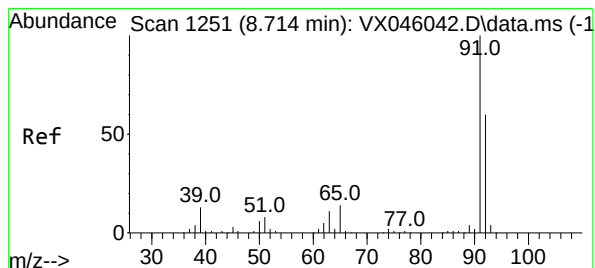
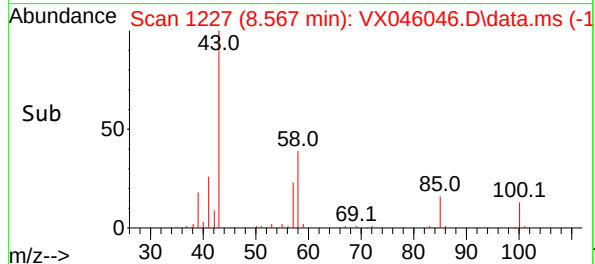
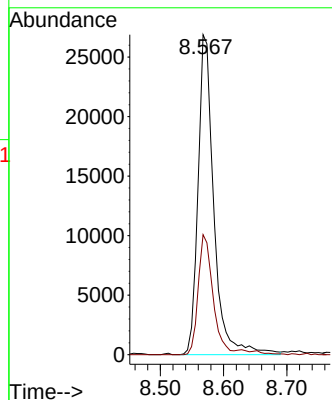
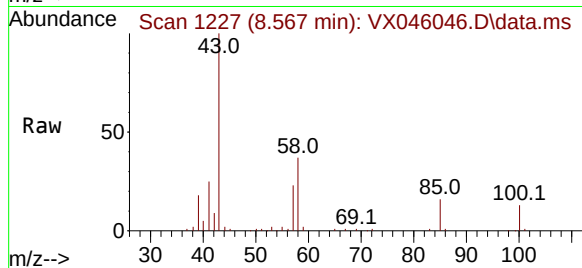
#51  
4-Methyl-2-Pentanone  
Concen: 16.967 ug/l  
RT: 8.567 min Scan# 1227  
Delta R.T. -0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion: 43 Resp: 46794  
Ion Ratio Lower Upper  
43 100  
58 34.8 28.9 43.3

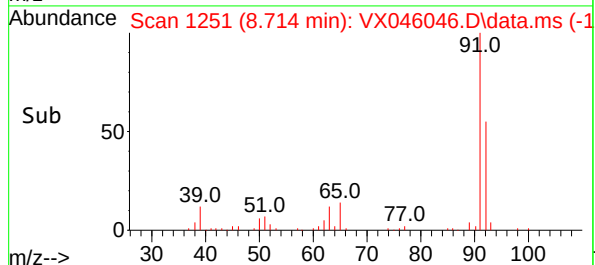
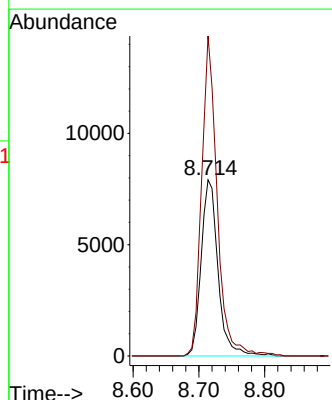
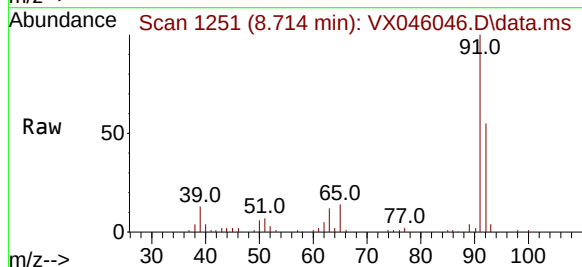
Manual Integrations  
APPROVED

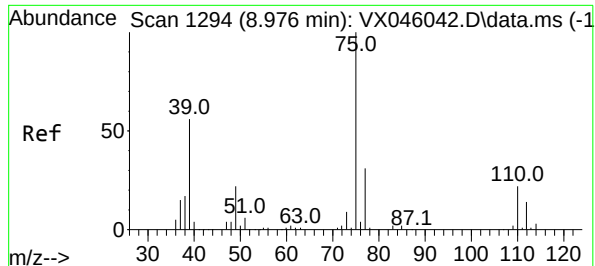
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#52  
Toluene  
Concen: 3.505 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 92 Resp: 14126  
Ion Ratio Lower Upper  
92 100  
91 167.2 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 3.155 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 6834

Ion Ratio Lower Upper

75 100

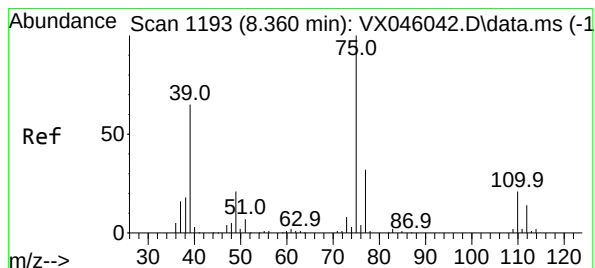
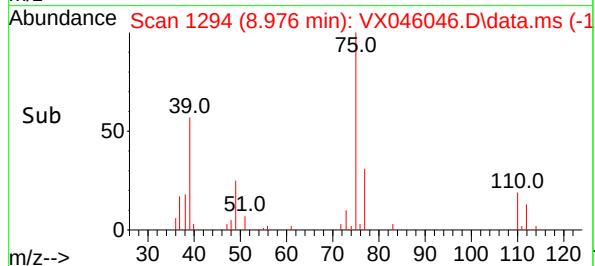
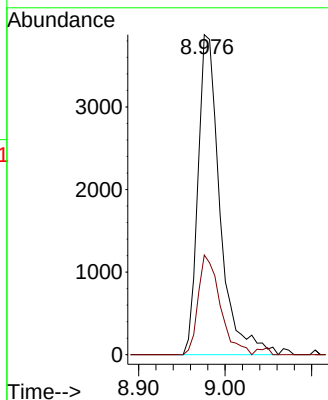
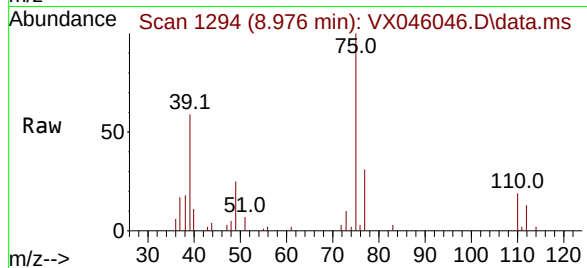
77 31.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#54

cis-1,3-Dichloropropene

Concen: 3.129 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

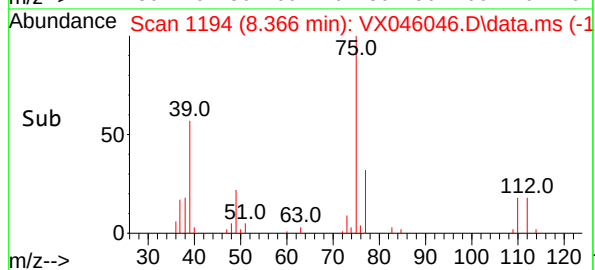
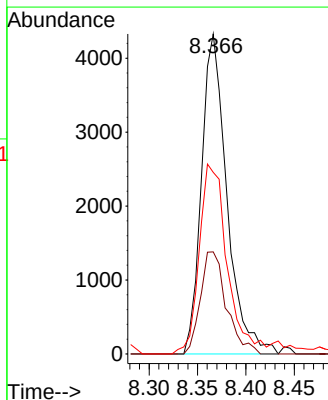
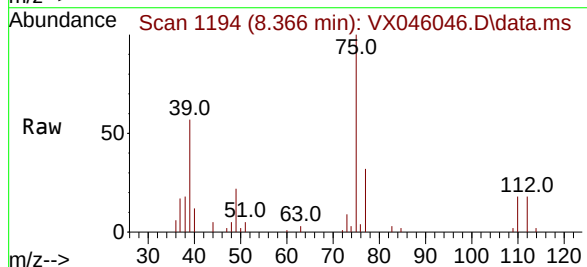
Tgt Ion: 75 Resp: 7908

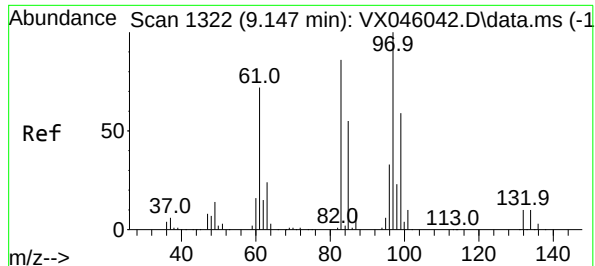
Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0

39 55.3 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 3.490 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 568

Ion Ratio Lower Upper

97 100

83 88.0 69.0 103.6

85 54.4 44.3 66.5

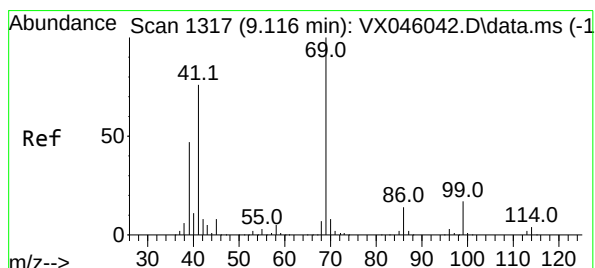
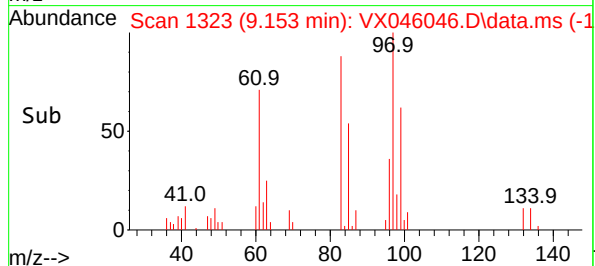
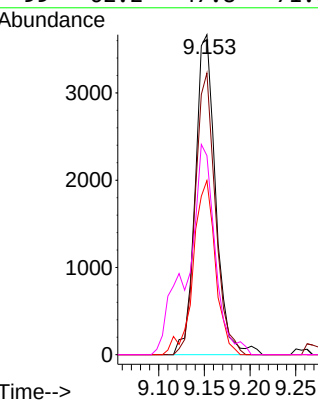
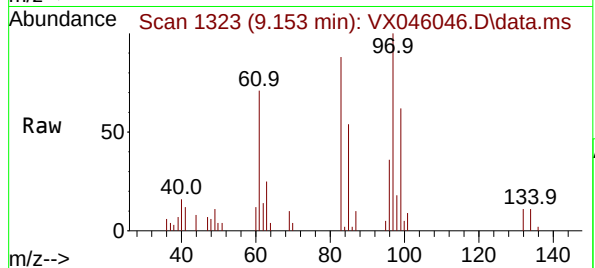
99 62.2 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#56

Ethyl methacrylate

Concen: 3.390 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

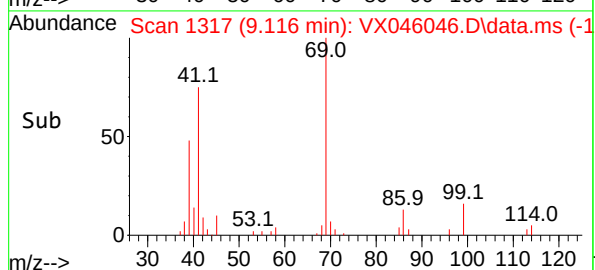
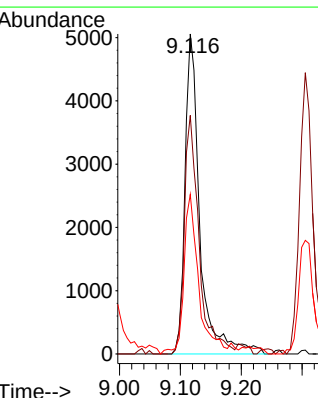
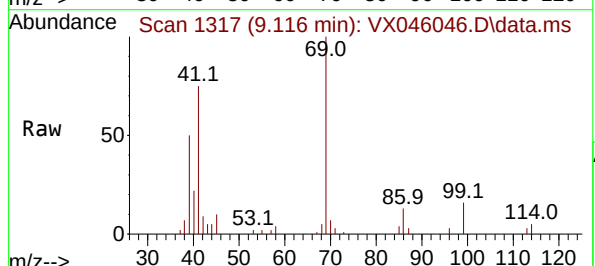
Tgt Ion: 69 Resp: 8555

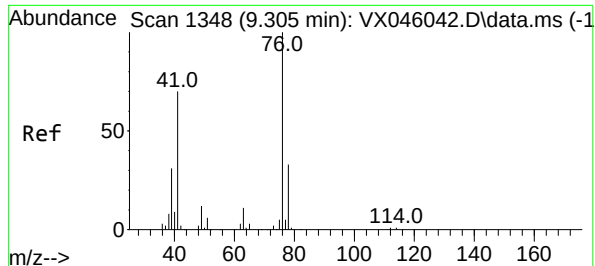
Ion Ratio Lower Upper

69 100

41 73.7 60.8 91.2

39 49.3 39.0 58.6





#57

1,3-Dichloropropane

Concen: 3.508 ug/l

RT: 9.305 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 1012

Ion Ratio Lower Upper

76 100

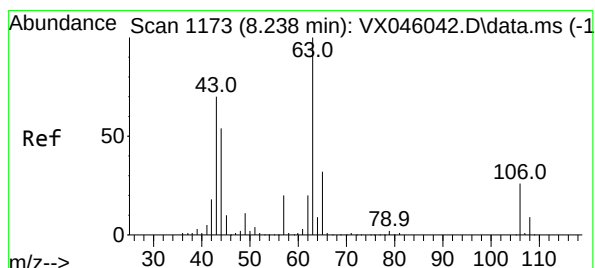
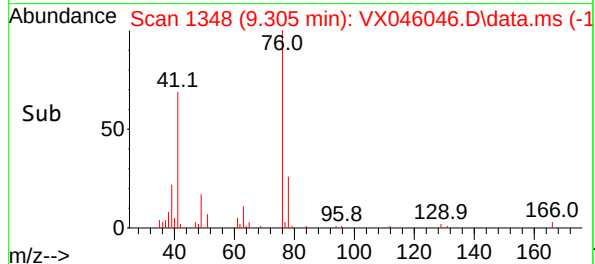
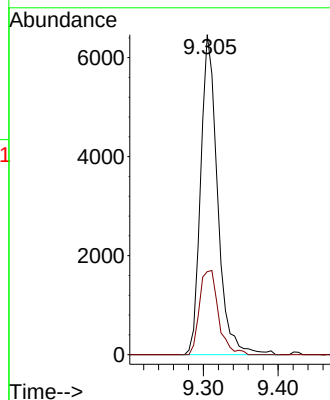
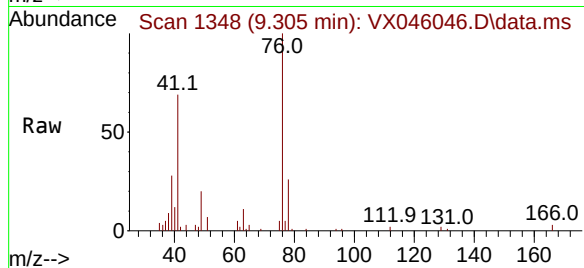
78 29.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 18.346 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046046.D

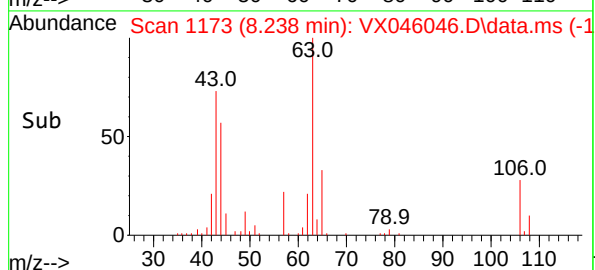
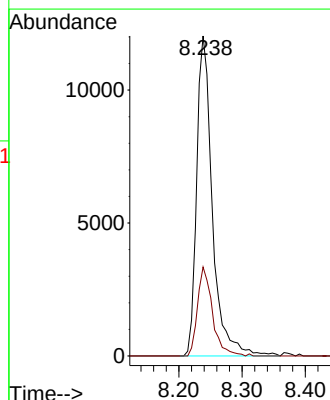
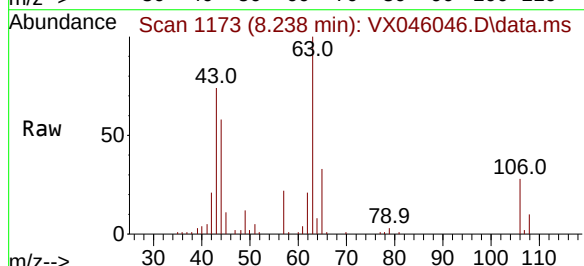
Acq: 05 May 2025 16:04

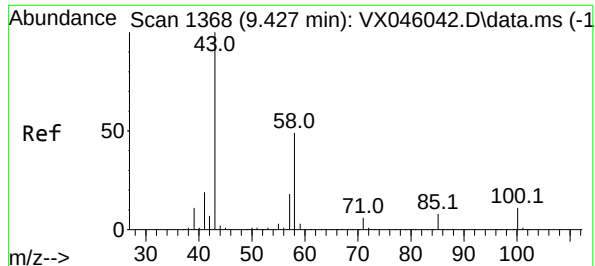
Tgt Ion: 63 Resp: 20809

Ion Ratio Lower Upper

63 100

106 26.4 21.5 32.3





#59

2-Hexanone

Concen: 16.651 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 3485

Ion Ratio Lower Upper

43 100

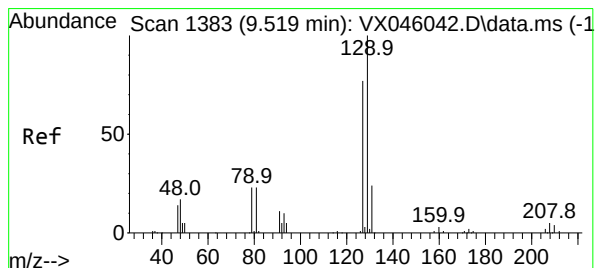
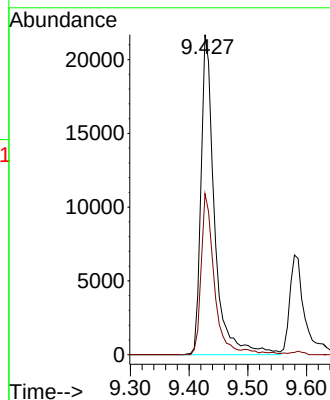
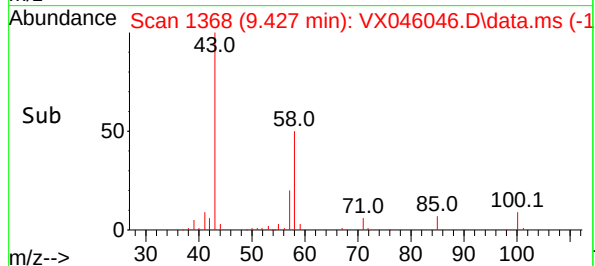
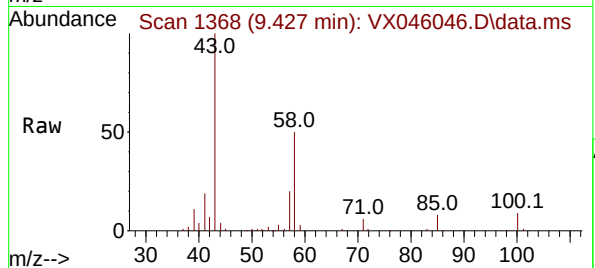
58 47.5 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#60

Dibromochloromethane

Concen: 3.102 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046046.D

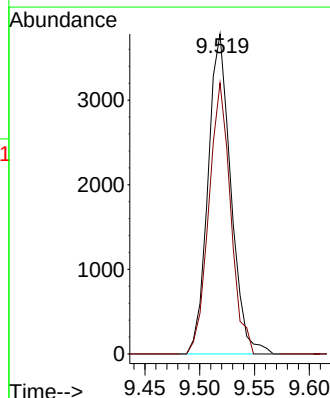
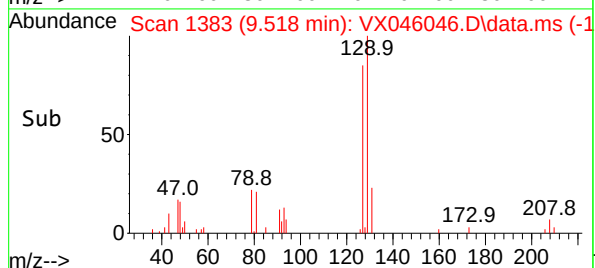
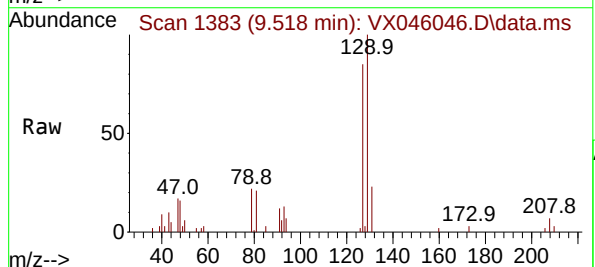
Acq: 05 May 2025 16:04

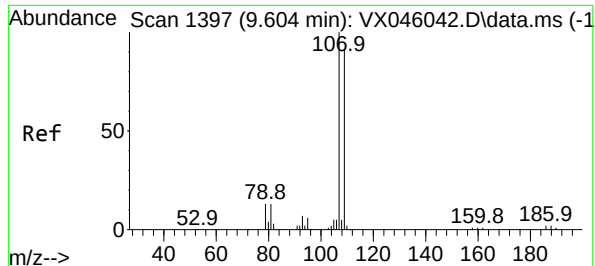
Tgt Ion:129 Resp: 5500

Ion Ratio Lower Upper

129 100

127 80.4 39.3 117.8





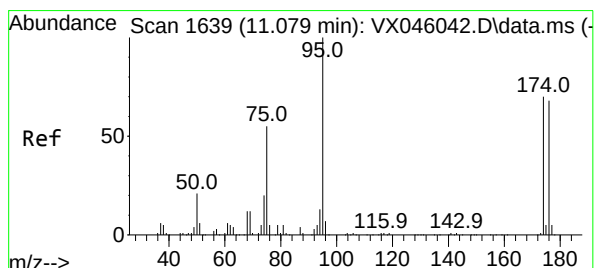
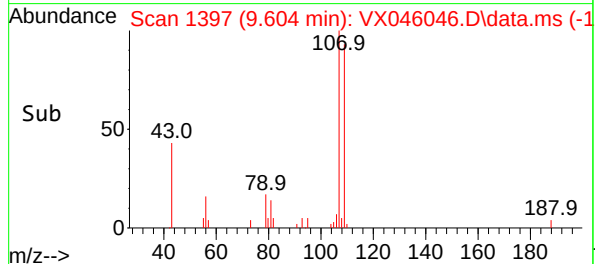
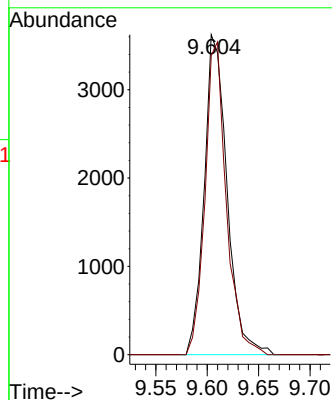
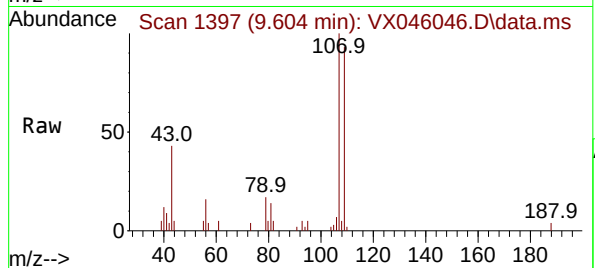
#61  
1,2-Dibromoethane  
Concen: 3.356 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion:107 Resp: 5614  
Ion Ratio Lower Upper  
107 100  
109 91.0 73.3 109.9

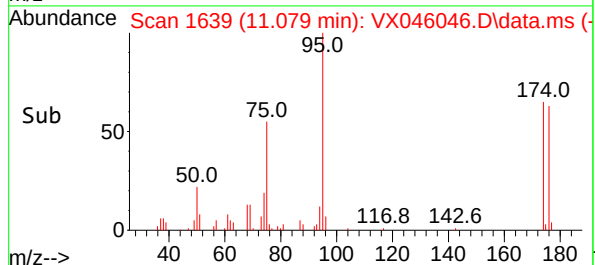
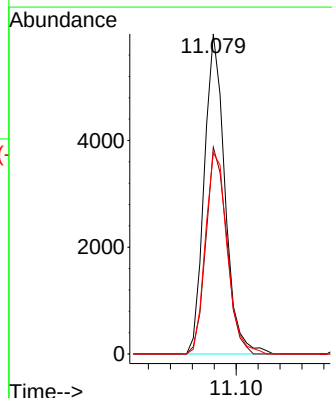
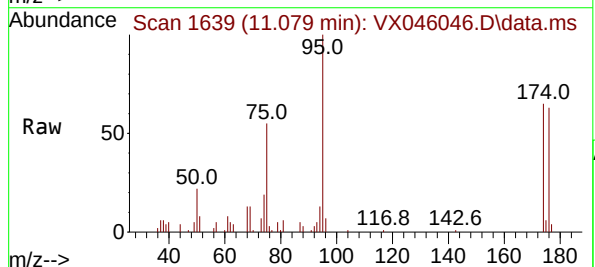
Manual Integrations  
APPROVED

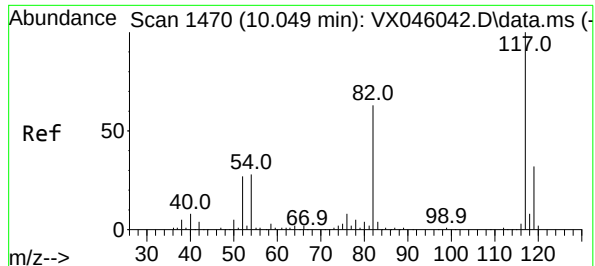
Reviewed By :John Carbone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#62  
4-Bromofluorobenzene  
Concen: 3.378 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

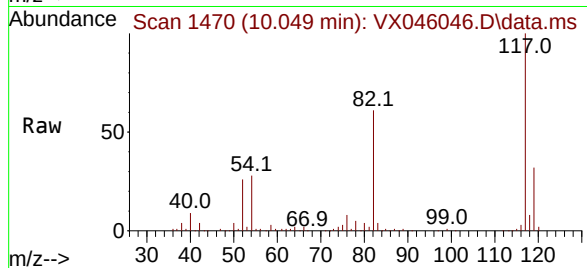
Tgt Ion: 95 Resp: 7822  
Ion Ratio Lower Upper  
95 100  
174 65.0 0.0 135.8  
176 66.6 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

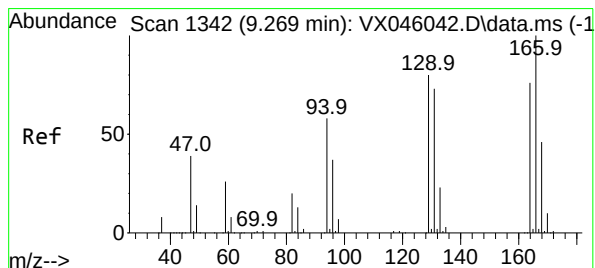
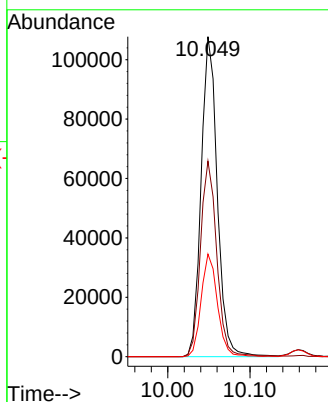
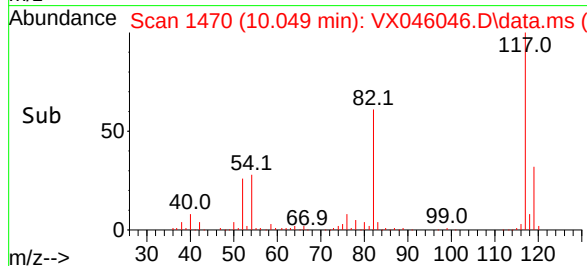
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



Tgt Ion:117 Resp: 14716  
Ion Ratio Lower Upper  
117 100  
82 61.1 50.6 76.0  
119 32.1 25.8 38.6

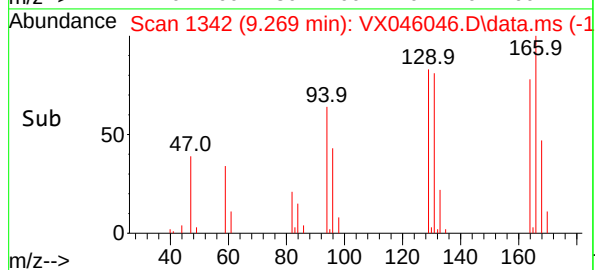
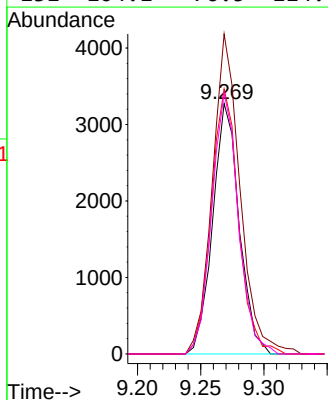
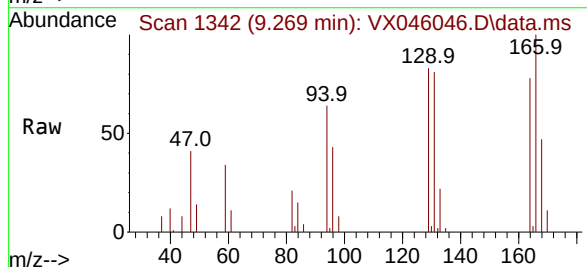
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

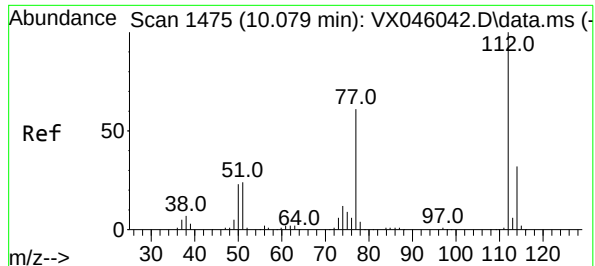


#64  
Tetrachloroethene  
Concen: 3.162 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion:164 Resp: 4752  
Ion Ratio Lower Upper  
164 100  
166 127.8 105.0 157.6  
129 105.8 83.5 125.3  
131 104.1 76.5 114.7







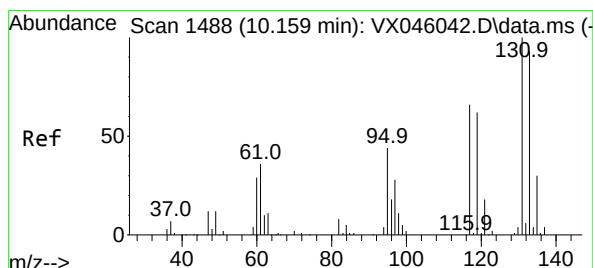
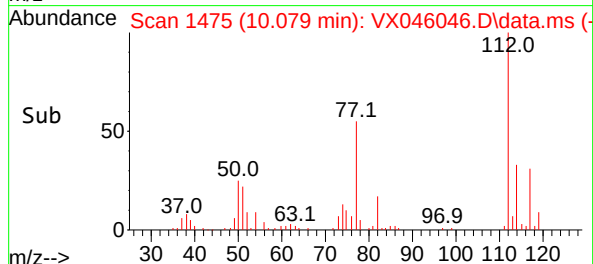
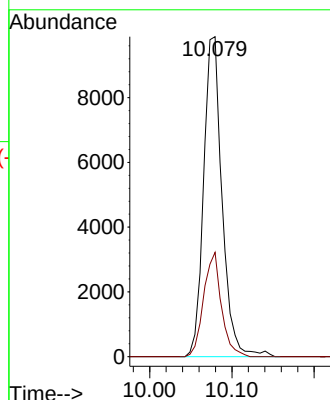
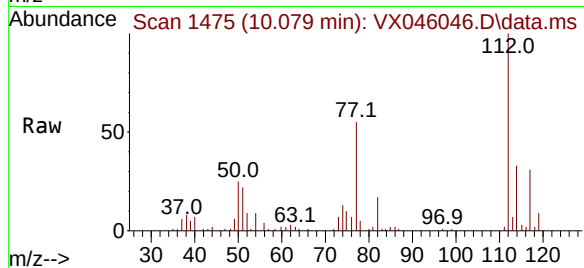
#65  
Chlorobenzene  
Concen: 3.399 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion:112 Resp: 1539  
Ion Ratio Lower Upper  
112 100  
114 32.6 25.4 38.2

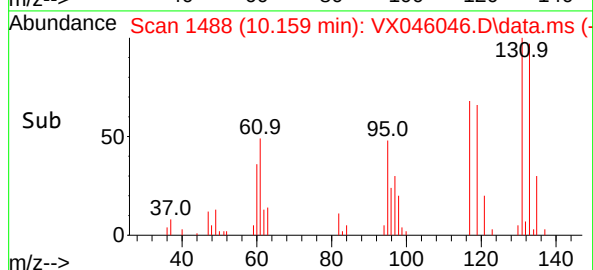
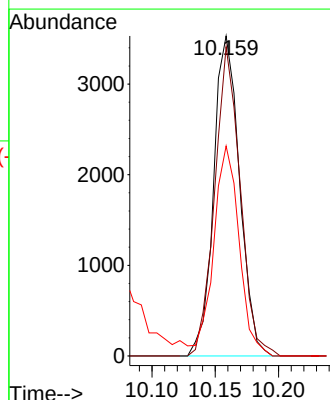
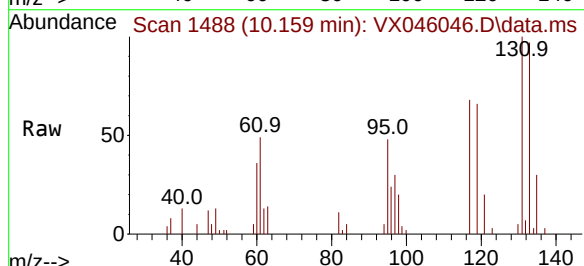
Manual Integrations  
APPROVED

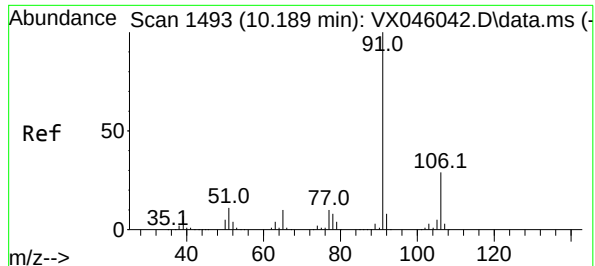
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 3.326 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion:131 Resp: 5024  
Ion Ratio Lower Upper  
131 100  
133 95.0 47.3 141.9  
119 64.8 31.6 95.0





#67

Ethyl Benzene

Concen: 3.463 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 2673

Ion Ratio Lower Upper

91 100

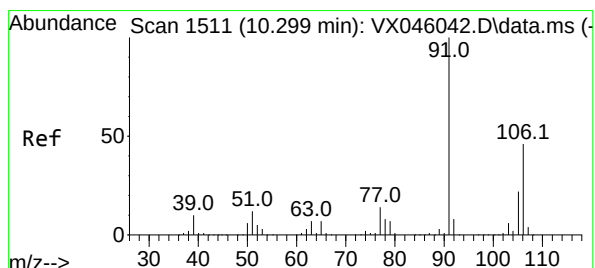
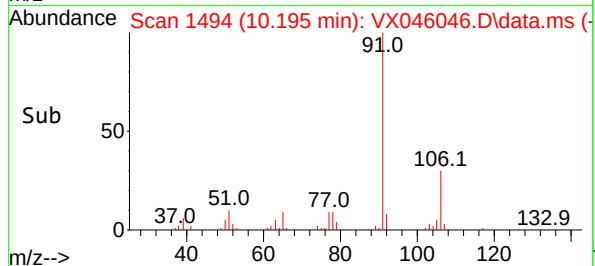
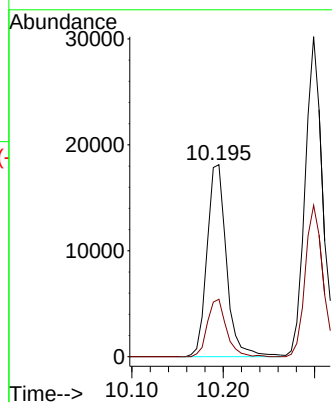
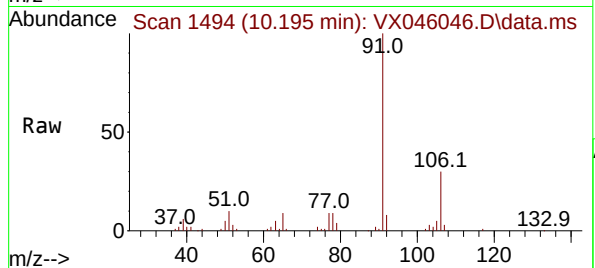
106 29.9 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#68

m/p-Xylenes

Concen: 7.156 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046046.D

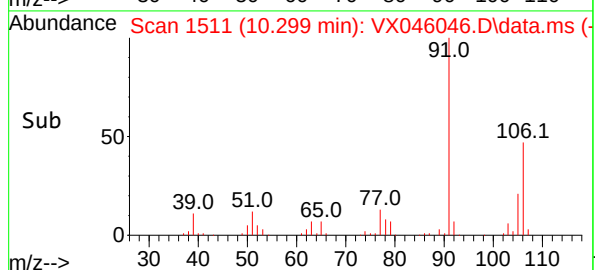
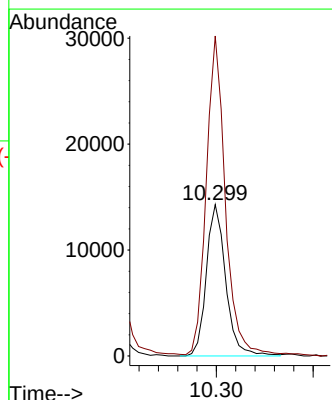
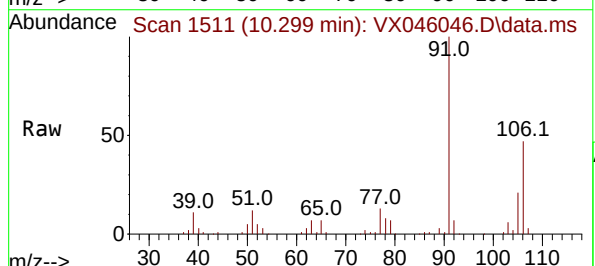
Acq: 05 May 2025 16:04

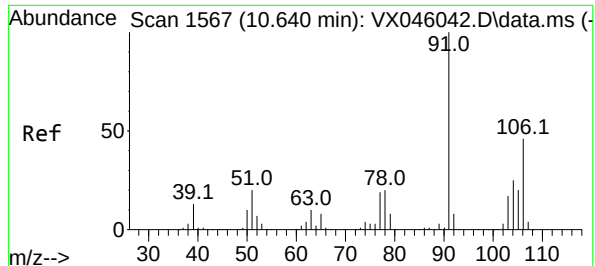
Tgt Ion:106 Resp: 19957

Ion Ratio Lower Upper

106 100

91 210.1 171.2 256.8





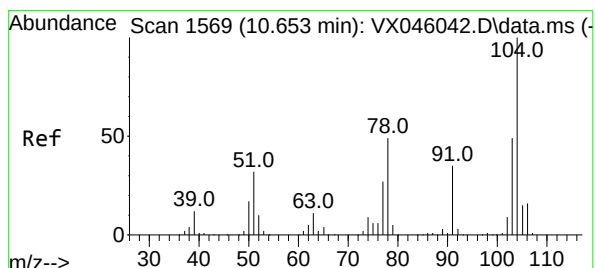
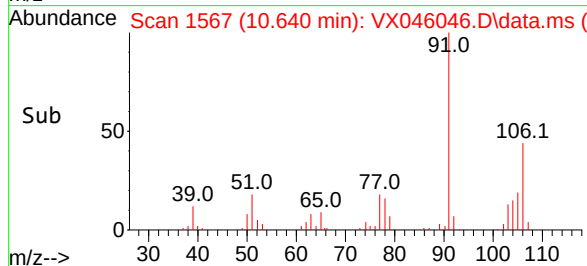
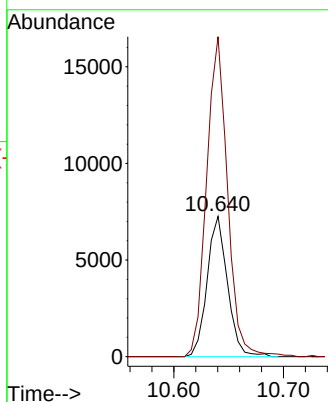
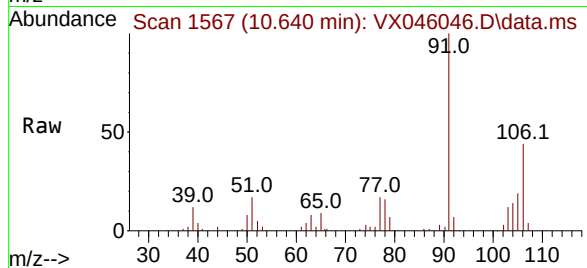
#69  
o-Xylene  
Concen: 3.343 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion:106 Resp: 9398  
Ion Ratio Lower Upper  
106 100  
91 233.6 112.7 338.1

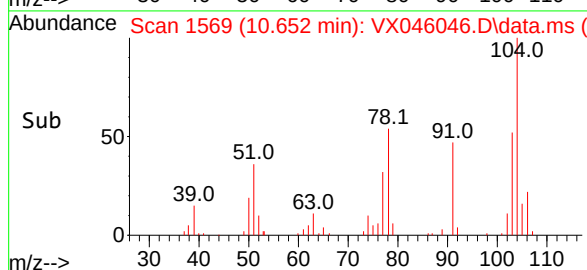
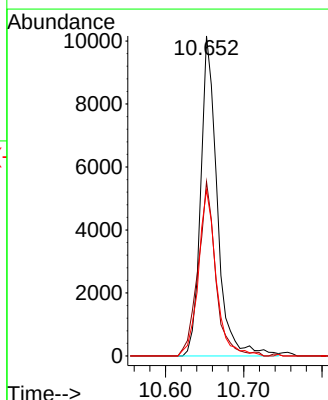
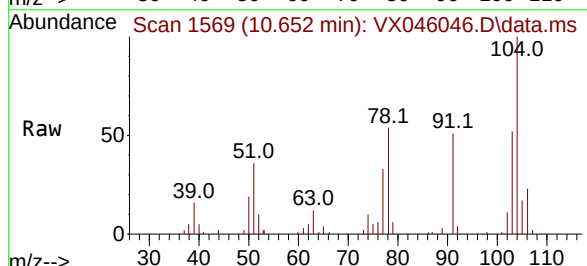
Manual Integrations  
APPROVED

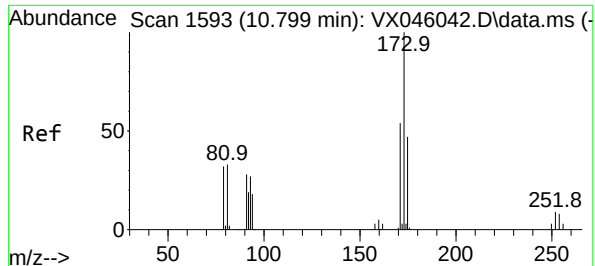
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#70  
Styrene  
Concen: 3.312 ug/l  
RT: 10.652 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

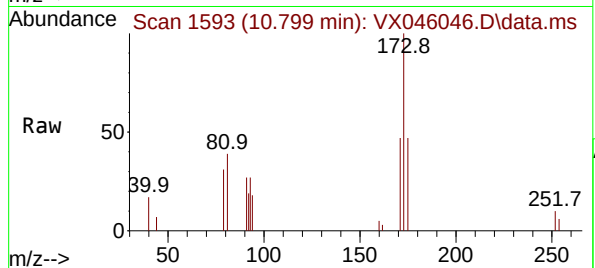
Tgt Ion:104 Resp: 14900  
Ion Ratio Lower Upper  
104 100  
78 57.9 45.7 68.5  
103 55.6 43.7 65.5





#71  
Bromoform  
Concen: 3.059 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

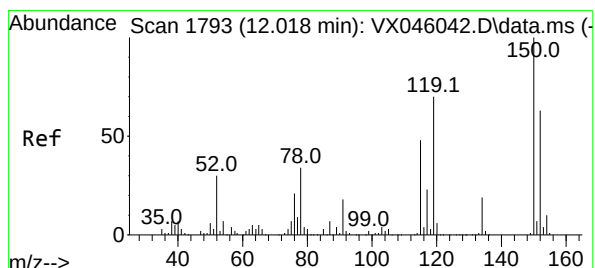
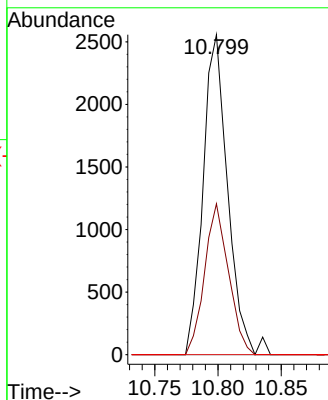
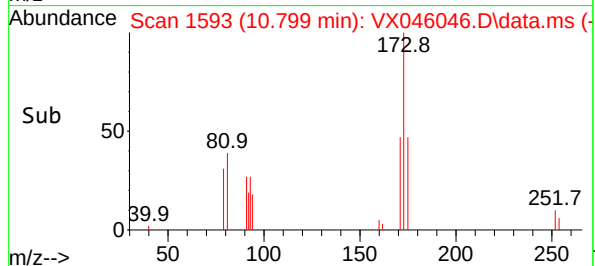
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



Tgt Ion:173 Resp: 3470  
Ion Ratio Lower Upper  
173 100  
175 45.8 23.4 70.0  
254 0.0 0.0 0.0

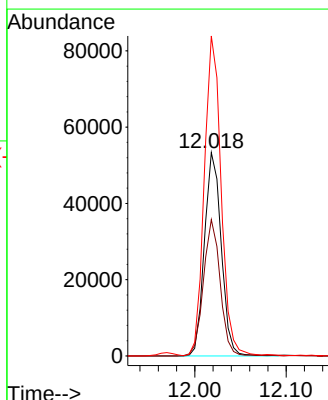
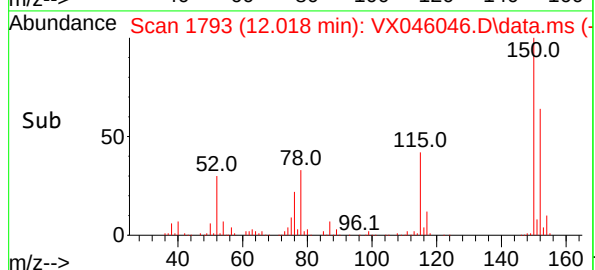
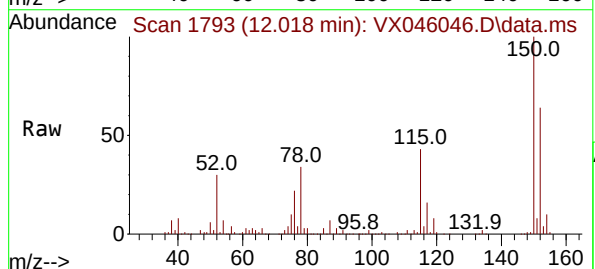
Manual Integrations  
APPROVED

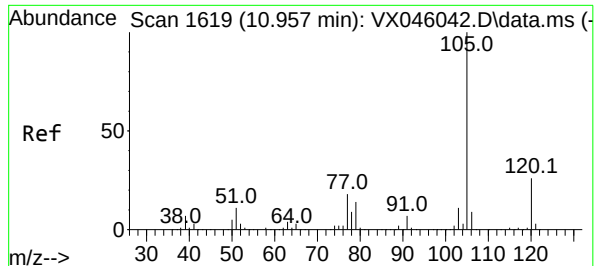
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion:152 Resp: 67939  
Ion Ratio Lower Upper  
152 100  
115 66.8 46.9 140.7  
150 157.5 0.0 351.0





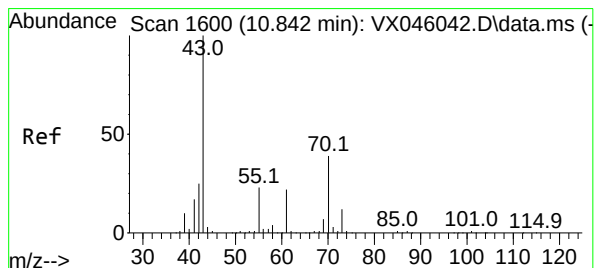
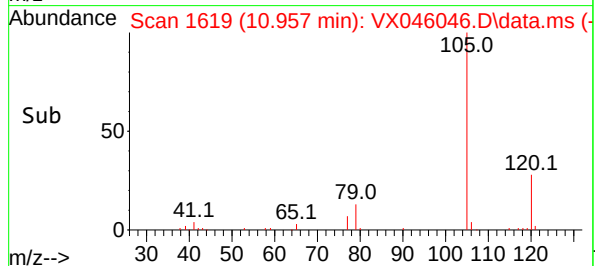
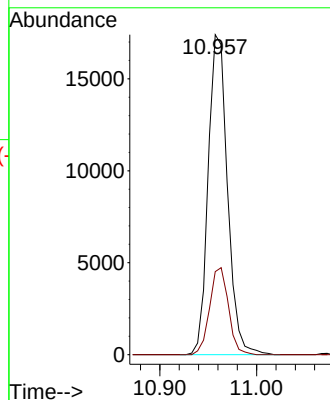
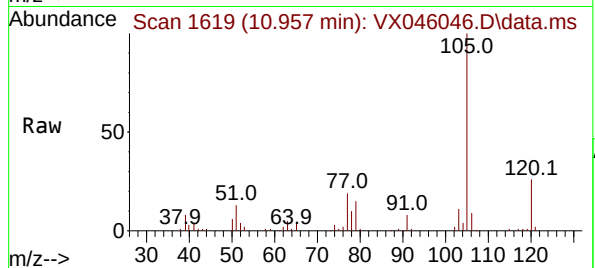
#73  
Isopropylbenzene  
Concen: 3.266 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 105 Resp: 2420  
Ion Ratio Lower Upper  
105 100  
120 26.4 12.8 38.4

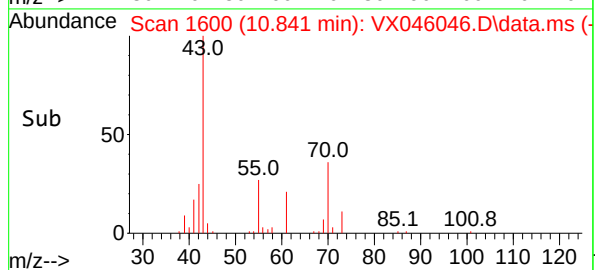
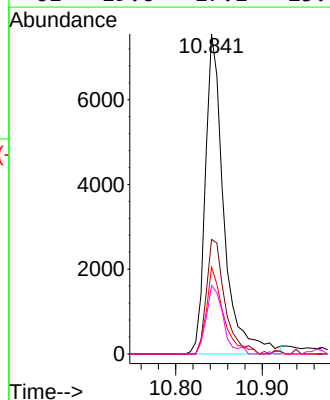
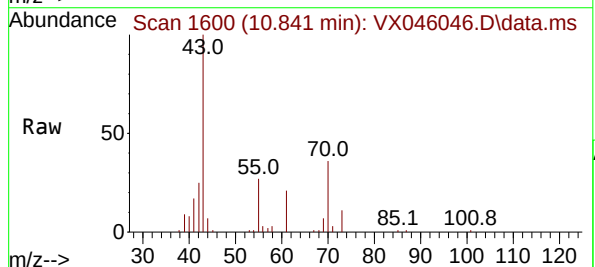
Manual Integrations  
APPROVED

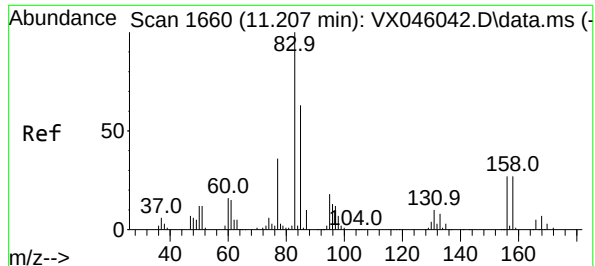
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#74  
N-ethyl acetate  
Concen: 3.038 ug/l  
RT: 10.841 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 11224  
Ion Ratio Lower Upper  
43 100  
70 35.4 30.9 46.3  
55 25.0 18.7 28.1  
61 19.6 17.1 25.7





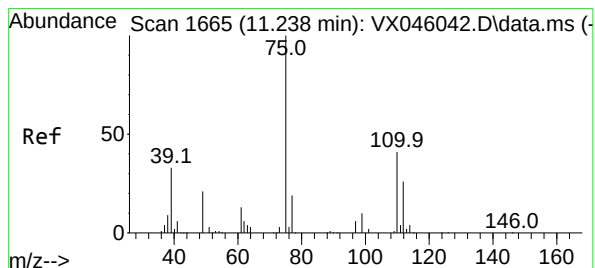
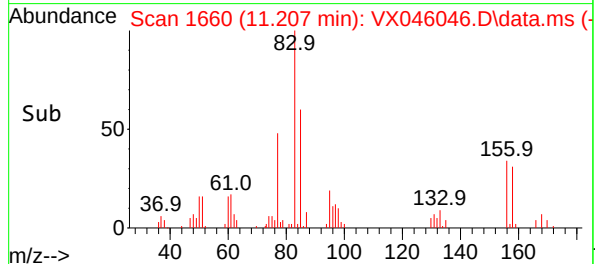
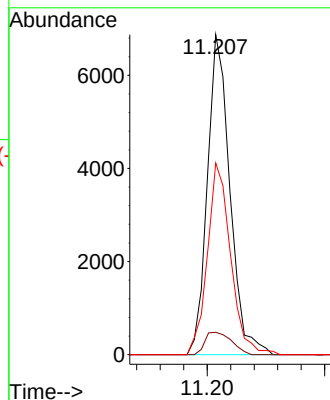
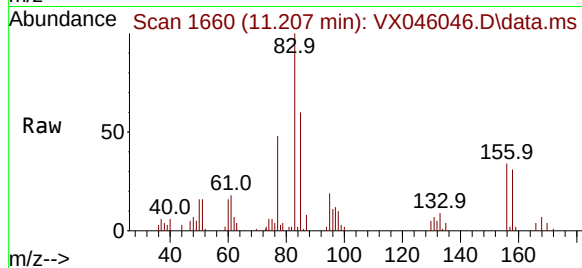
#75  
1,1,2,2-Tetrachloroethane  
Concen: 3.479 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 83 Resp: 9170  
Ion Ratio Lower Upper  
83 100  
131 8.3 5.0 14.9  
85 61.7 31.9 95.7

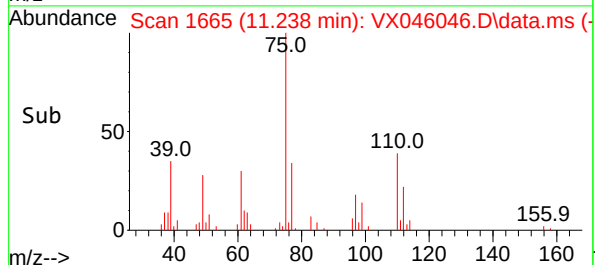
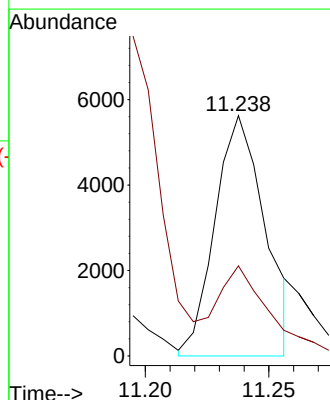
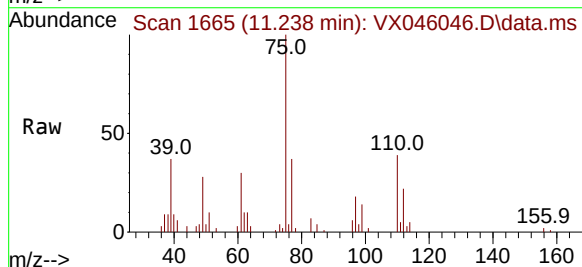
Manual Integrations  
APPROVED

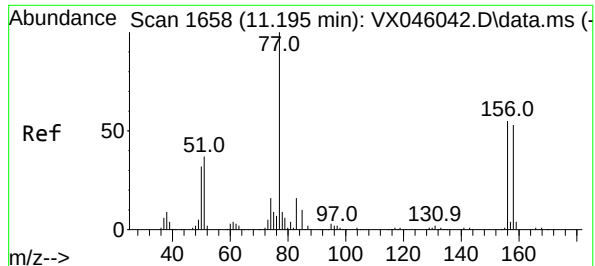
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#76  
1,2,3-Trichloropropane  
Concen: 2.799 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

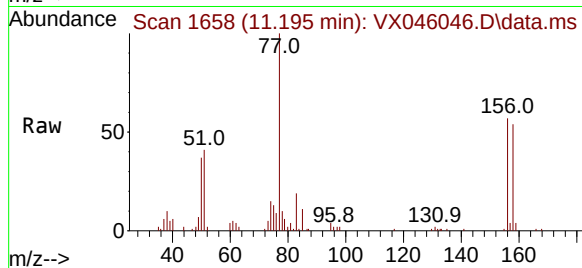
Tgt Ion: 75 Resp: 7928  
Ion Ratio Lower Upper  
75 100  
77 40.6 20.5 61.5





#77  
Bromobenzene  
Concen: 3.417 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

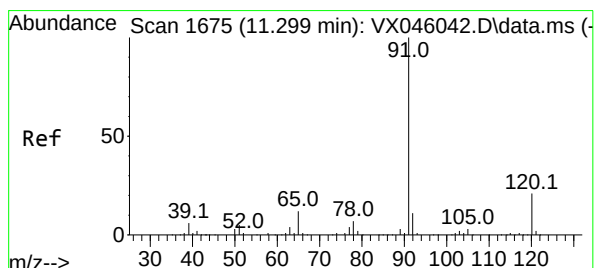
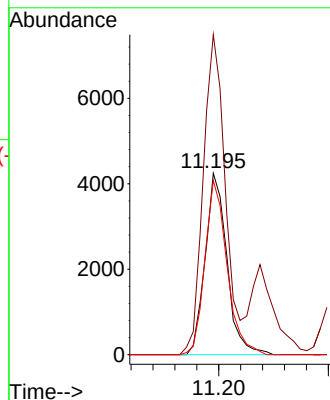
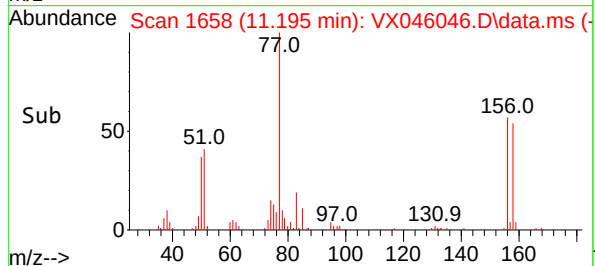
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:156 Resp: 585  
Ion Ratio Lower Upper  
156 100  
77 177.0 92.8 278.3  
158 97.7 48.8 146.3

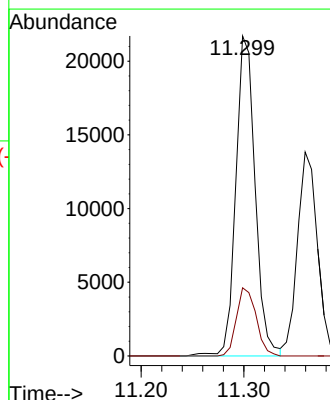
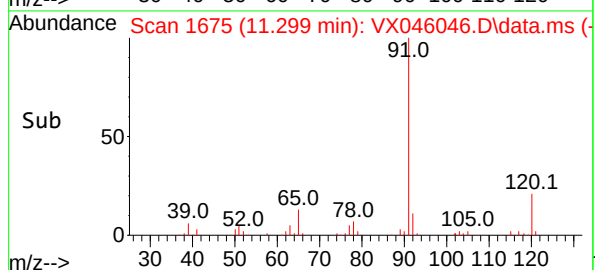
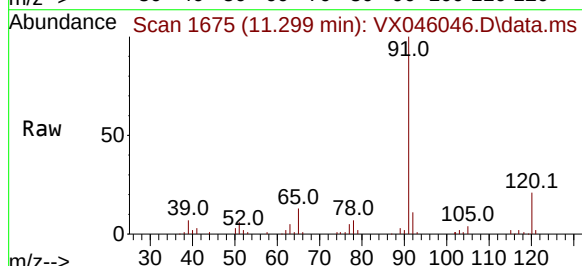
Manual Integrations  
APPROVED

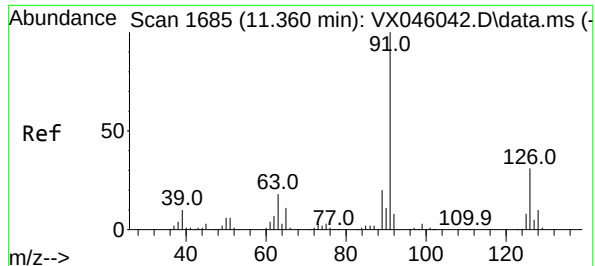
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#78  
n-propylbenzene  
Concen: 3.424 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 28436  
Ion Ratio Lower Upper  
91 100  
120 21.7 10.8 32.4





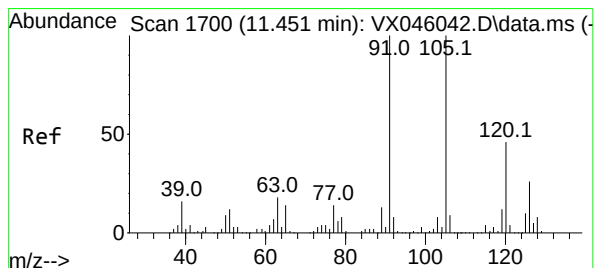
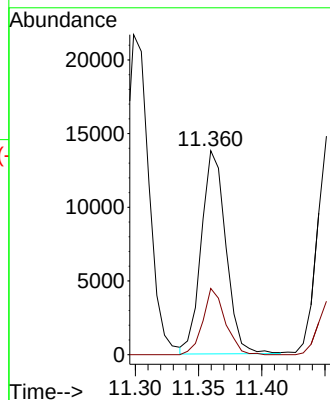
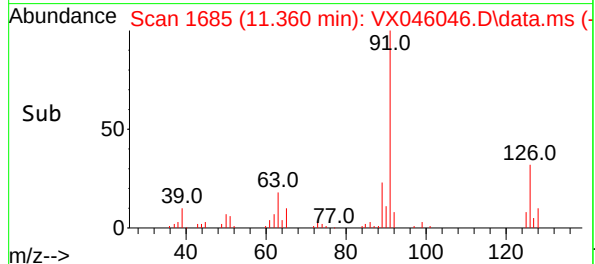
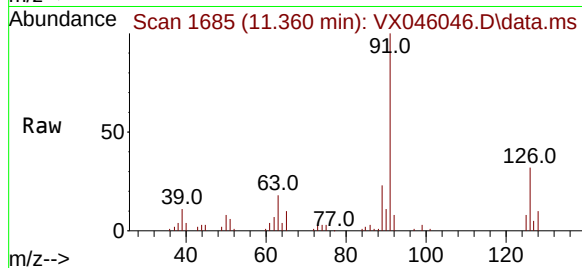
#79  
2-Chlorotoluene  
Concen: 3.336 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 91 Resp: 18672  
Ion Ratio Lower Upper  
91 100  
126 29.7 15.6 46.7

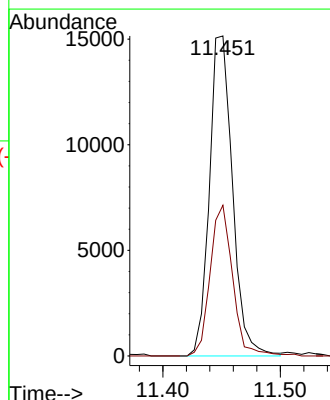
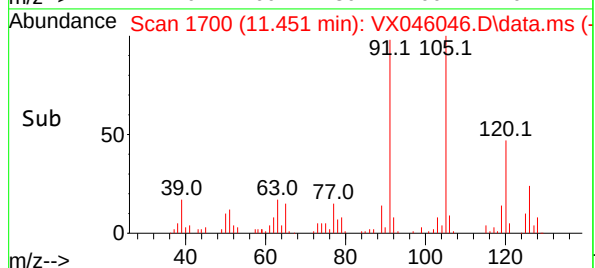
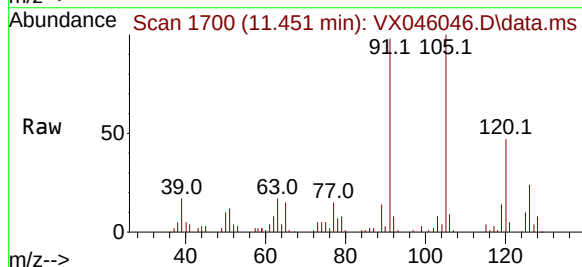
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

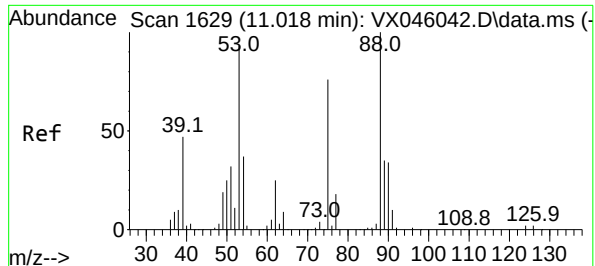


#80  
1,3,5-Trimethylbenzene  
Concen: 3.372 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20742  
Ion Ratio Lower Upper  
105 100  
120 45.9 23.1 69.2







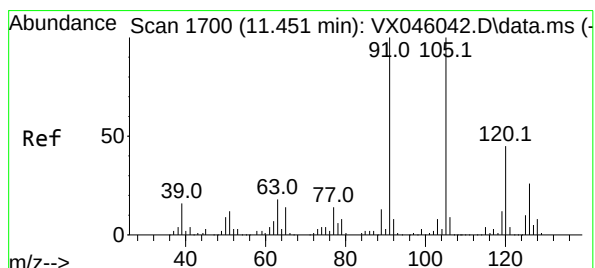
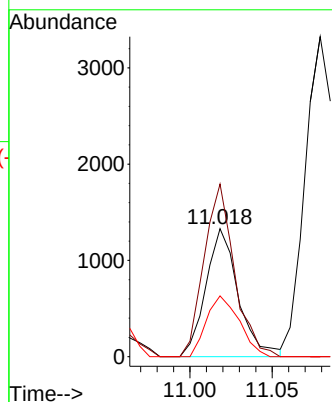
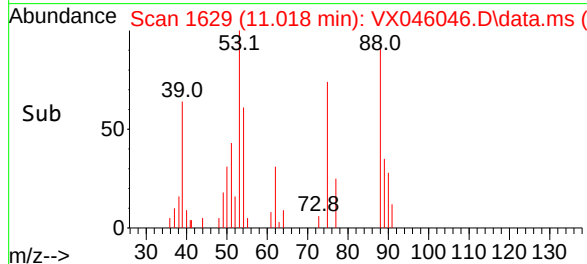
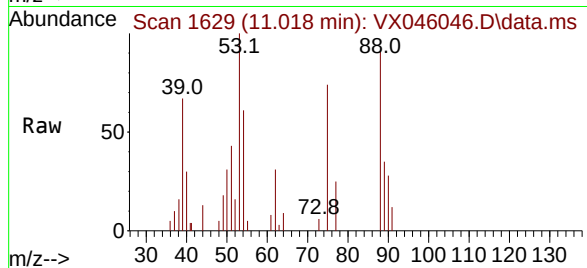
#81  
trans-1,4-Dichloro-2-butene  
Concen: 2.686 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 75 Resp: 1828  
Ion Ratio Lower Upper  
75 100  
53 125.8 100.5 150.7  
89 47.9 37.0 55.6

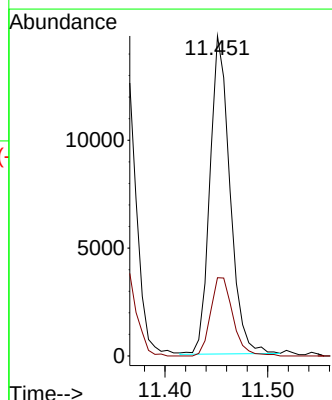
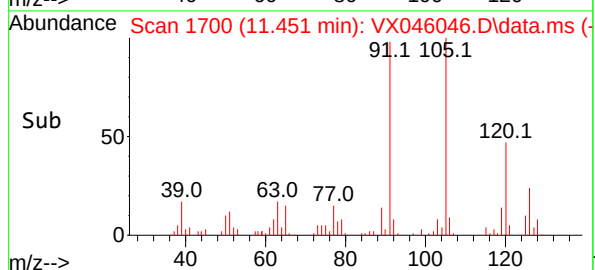
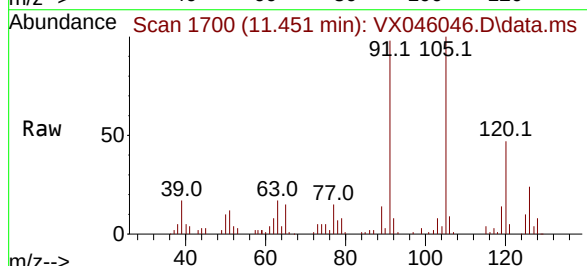
Manual Integrations  
APPROVED

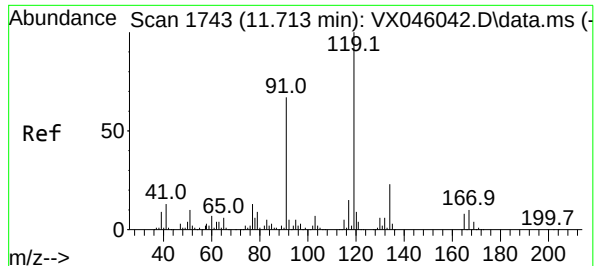
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#82  
4-Chlorotoluene  
Concen: 3.245 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 19966  
Ion Ratio Lower Upper  
91 100  
126 27.3 13.3 39.8





#83

tert-Butylbenzene

Concen: 3.484 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

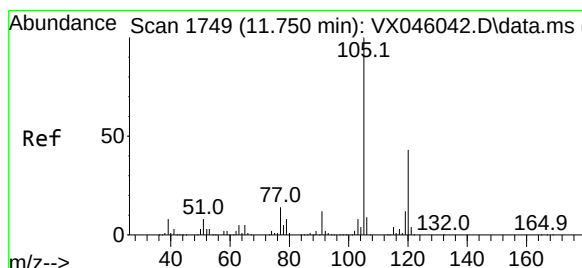
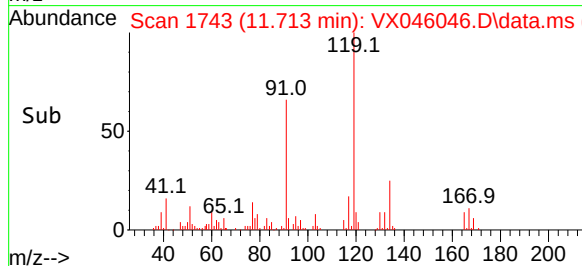
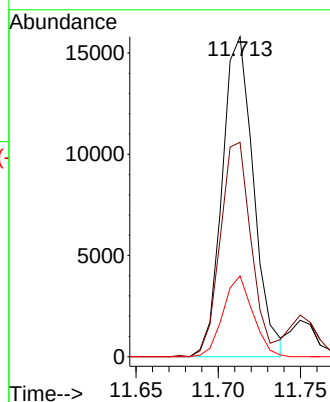
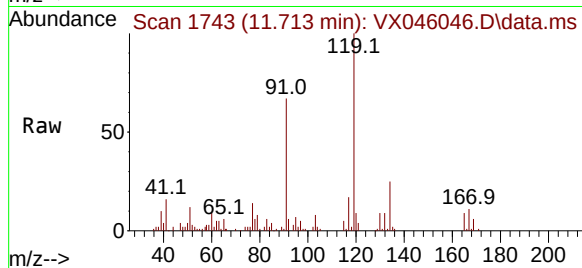
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 21049 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 67.0  | 32.9  | 98.7  |
| 134       | 23.8  | 11.4  | 34.1  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#84

1,2,4-Trimethylbenzene

Concen: 3.355 ug/l

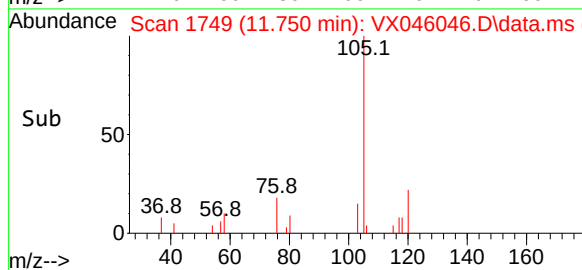
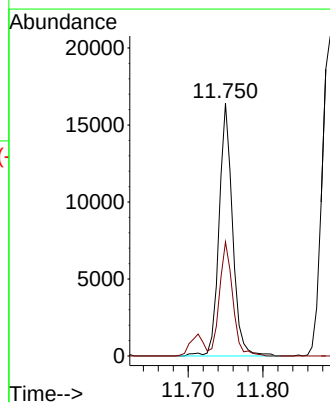
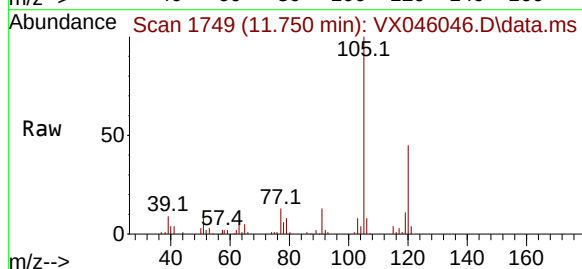
RT: 11.750 min Scan# 1749

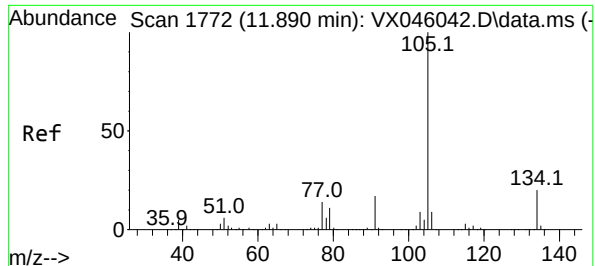
Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 20613 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 44.5  | 21.2  | 63.6  |





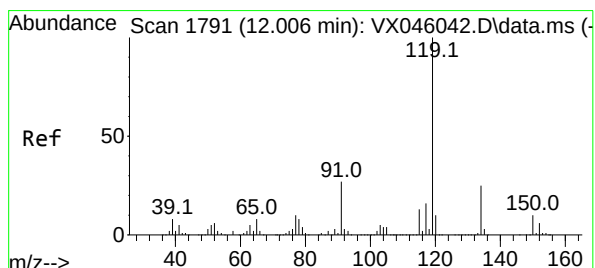
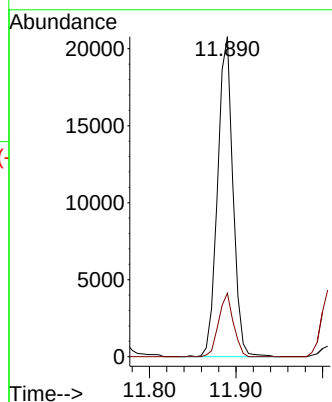
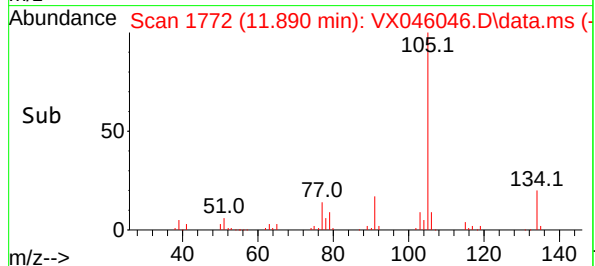
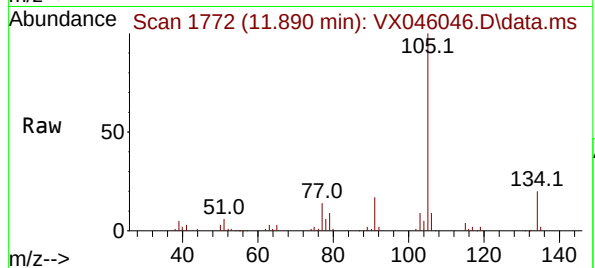
#85  
sec-Butylbenzene  
Concen: 3.412 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion:105 Resp: 25590  
Ion Ratio Lower Upper  
105 100  
134 19.1 9.7 29.1

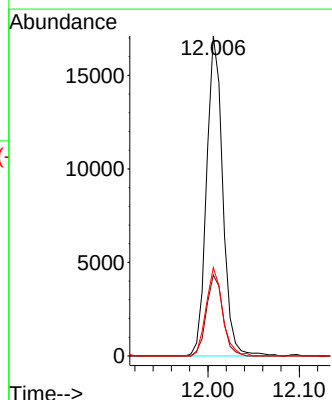
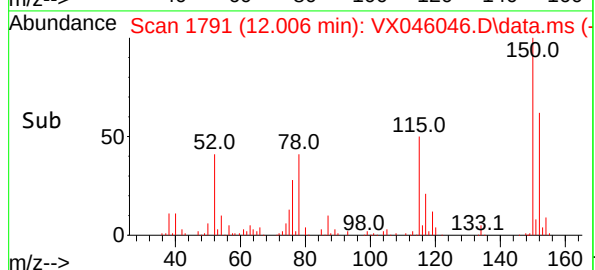
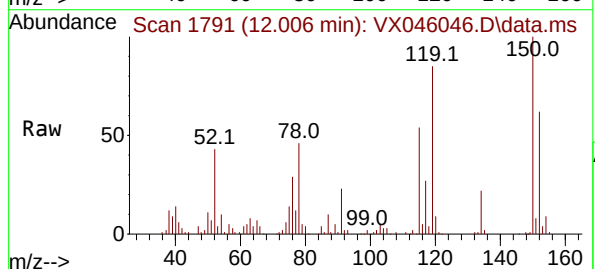
Manual Integrations  
APPROVED

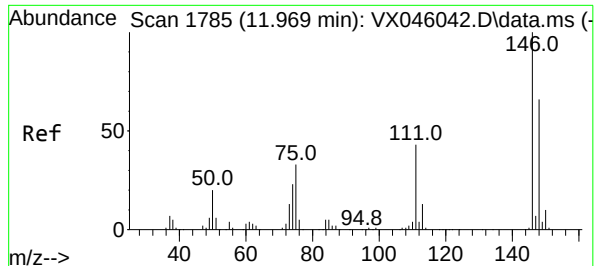
Reviewed By :John Carbone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#86  
p-Isopropyltoluene  
Concen: 3.460 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

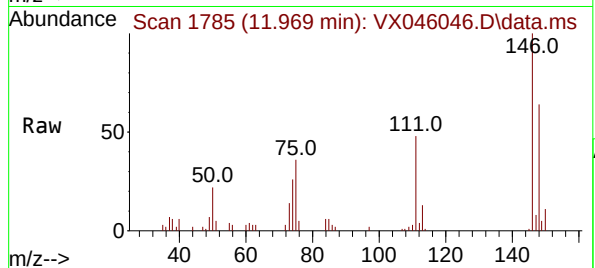
Tgt Ion:119 Resp: 20955  
Ion Ratio Lower Upper  
119 100  
134 25.6 12.5 37.5  
91 28.0 13.8 41.4





#87  
1,3-Dichlorobenzene  
Concen: 3.315 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

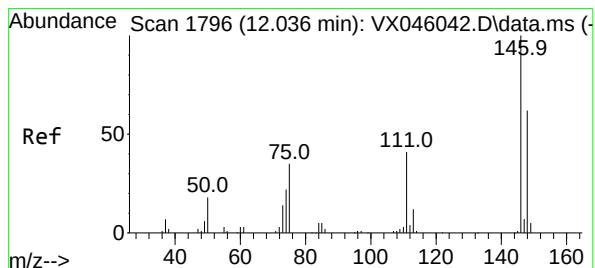
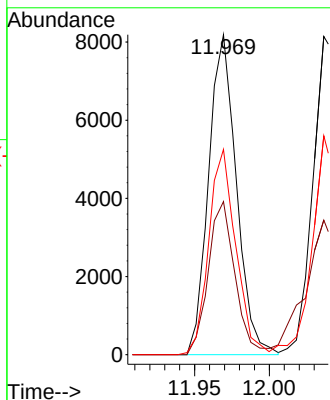
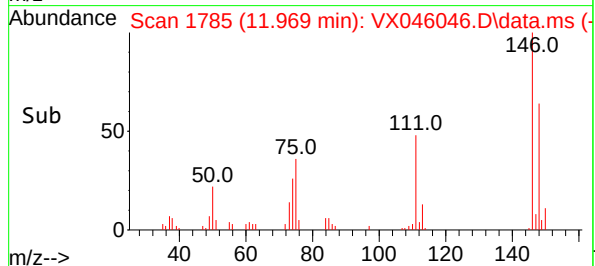
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



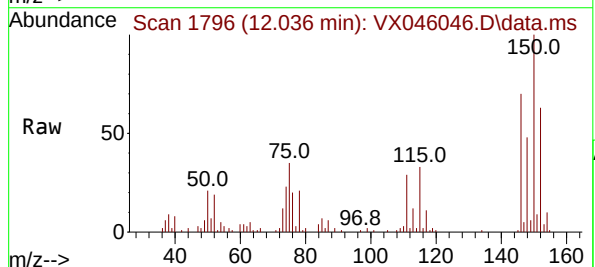
Tgt Ion:146 Resp: 1058  
Ion Ratio Lower Upper  
146 100  
111 46.2 22.1 66.3  
148 62.4 32.1 96.5

Manual Integrations  
APPROVED

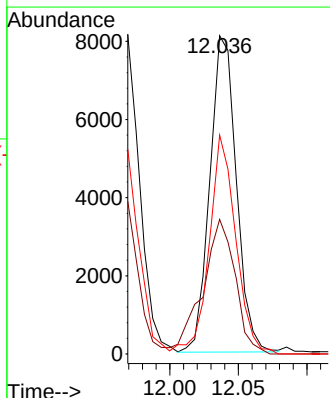
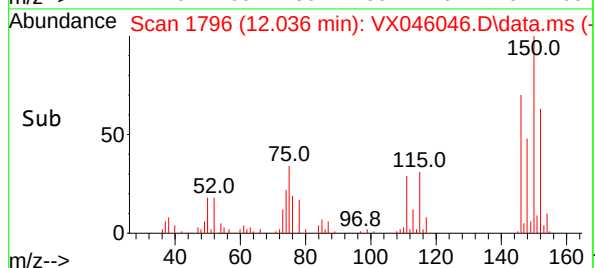
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

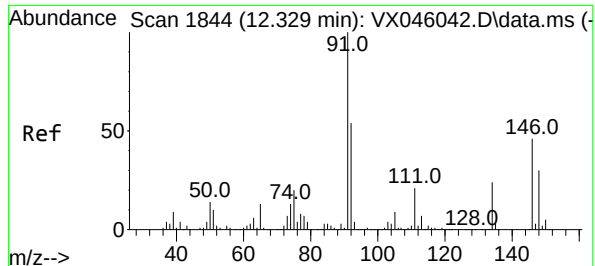


#88  
1,4-Dichlorobenzene  
Concen: 3.486 ug/l  
RT: 12.036 min Scan# 1796  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04



Tgt Ion:146 Resp: 10908  
Ion Ratio Lower Upper  
146 100  
111 52.1 21.3 63.9  
148 69.4 31.9 95.5





#89

n-Butylbenzene

Concen: 3.419 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

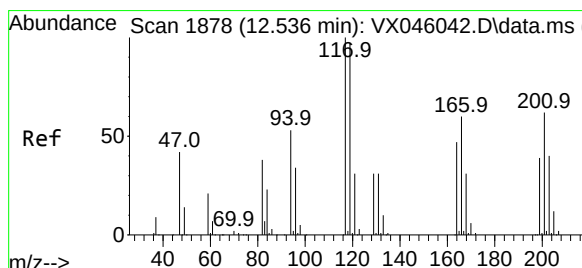
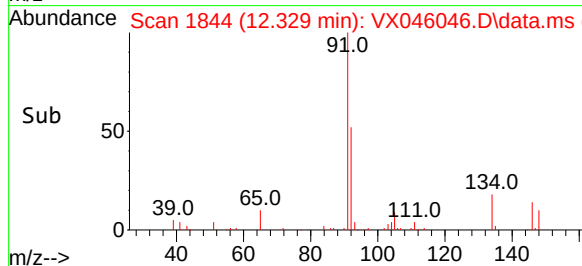
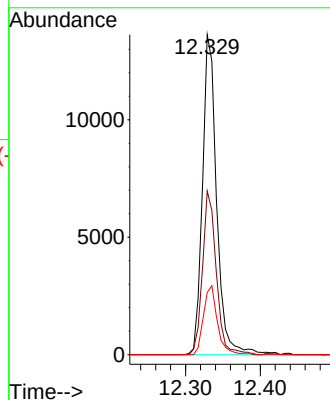
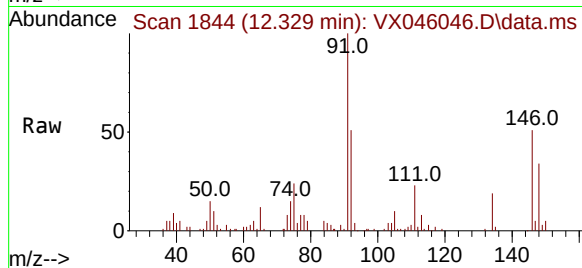
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 1800  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 49.5  | 26.9  | 80.7  |
| 134      | 21.2  | 11.8  | 35.3  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 3.153 ug/l

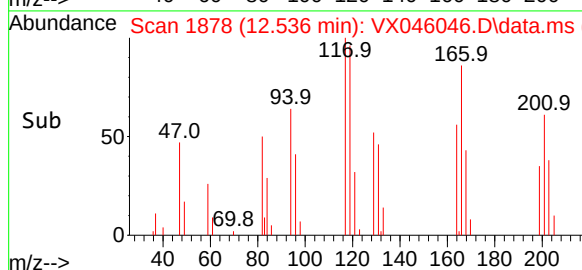
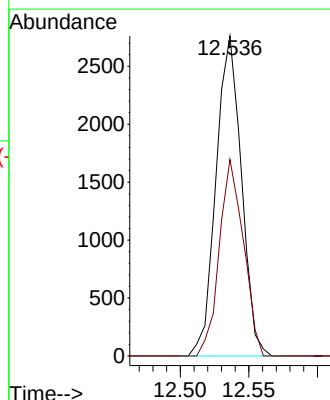
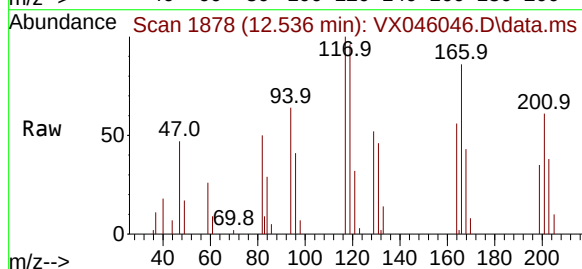
RT: 12.536 min Scan# 1878

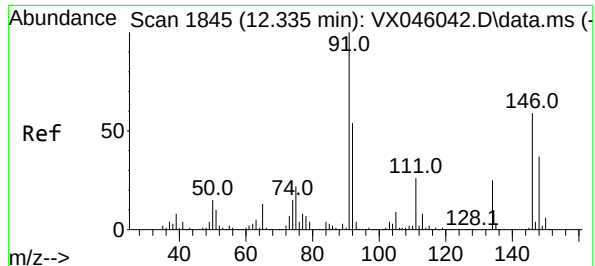
Delta R.T. -0.000 min

Lab File: VX046046.D

Acq: 05 May 2025 16:04

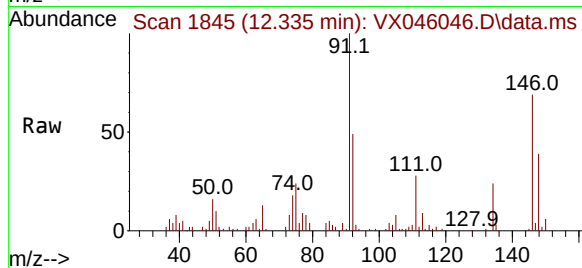
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 3553  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 58.5  | 31.6  | 94.7  |





#91  
1,2-Dichlorobenzene  
Concen: 3.444 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

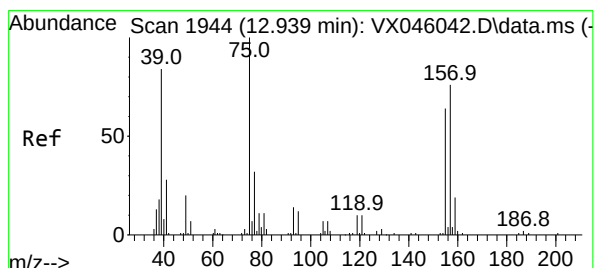
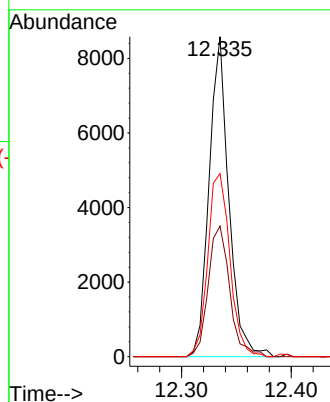
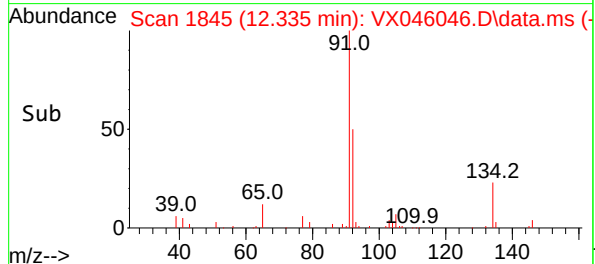
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:146 Resp: 10712  
Ion Ratio Lower Upper  
146 100  
111 44.7 22.4 67.3  
148 64.2 31.6 94.8

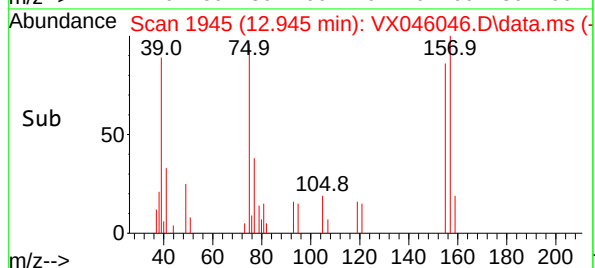
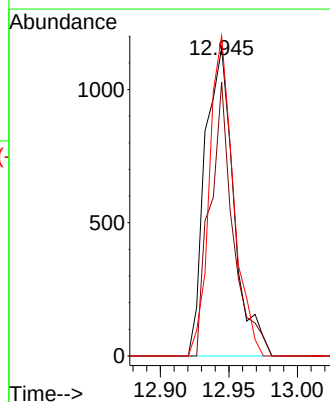
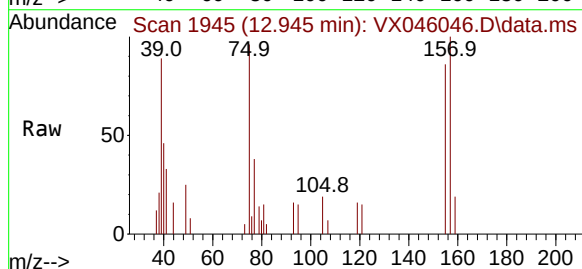
Manual Integrations  
APPROVED

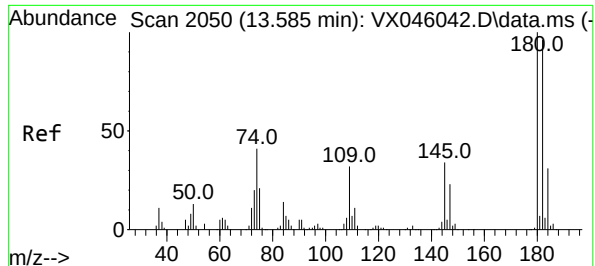
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 2.812 ug/l  
RT: 12.945 min Scan# 1945  
Delta R.T. 0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

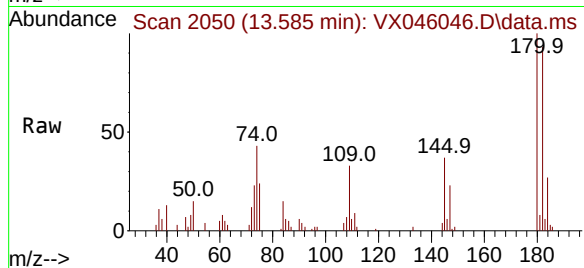
Tgt Ion: 75 Resp: 1687  
Ion Ratio Lower Upper  
75 100  
155 71.7 34.9 104.8  
157 87.0 43.8 131.4





#93  
1,2,4-Trichlorobenzene  
Concen: 3.359 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

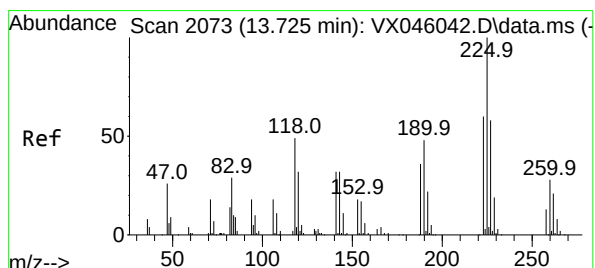
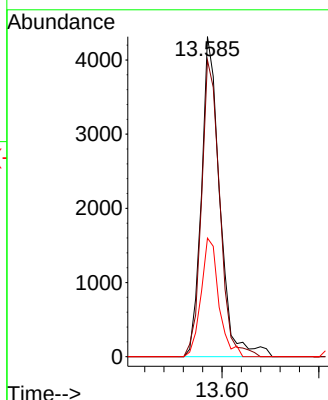
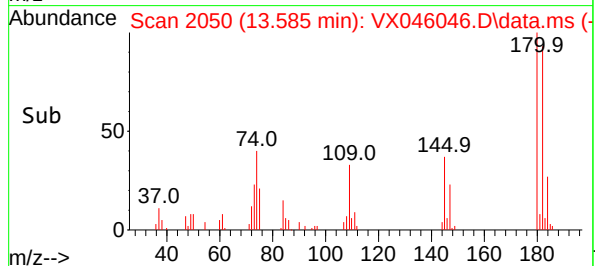
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:180 Resp: 5720  
Ion Ratio Lower Upper  
180 100  
182 91.6 47.9 143.8  
145 35.7 17.1 51.2

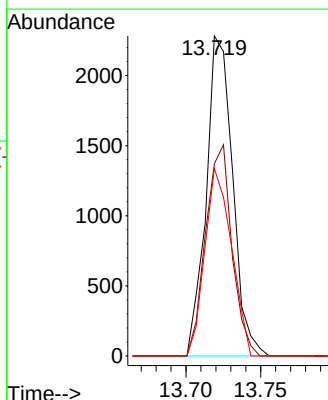
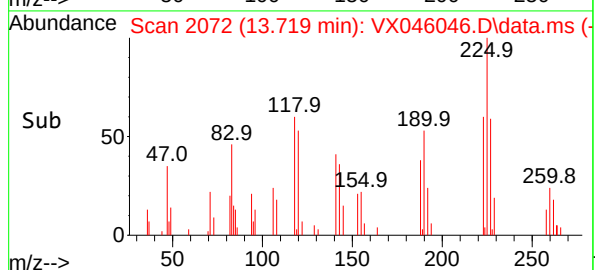
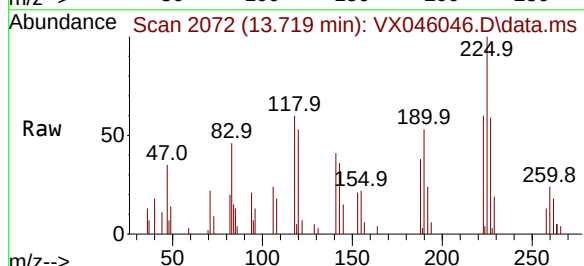
Manual Integrations  
APPROVED

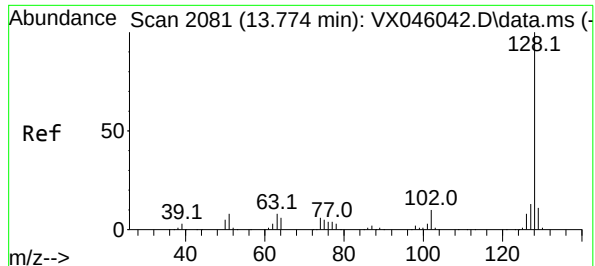
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#94  
Hexachlorobutadiene  
Concen: 3.535 ug/l  
RT: 13.719 min Scan# 2072  
Delta R.T. -0.006 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

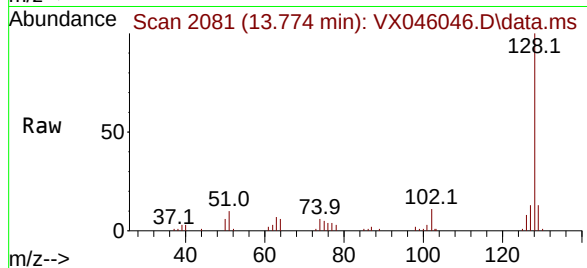
Tgt Ion:225 Resp: 2816  
Ion Ratio Lower Upper  
225 100  
223 65.1 30.8 92.4  
227 58.8 30.9 92.7





#95  
Naphthalene  
Concen: 3.209 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

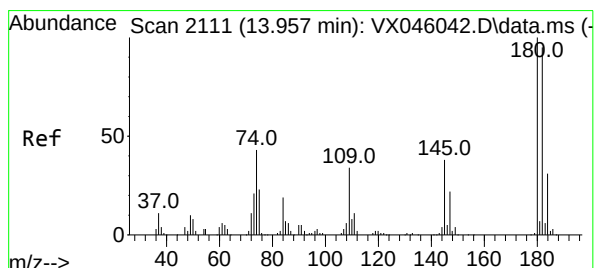
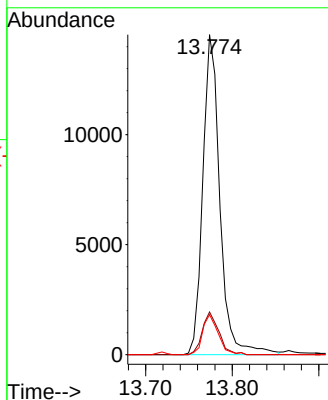
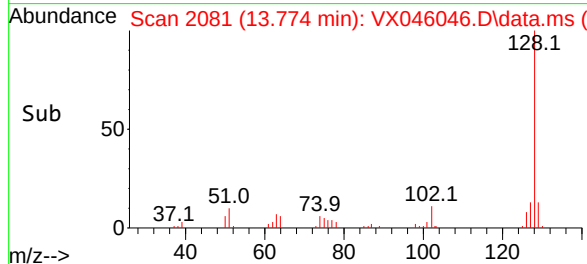
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



Tgt Ion:128 Resp: 1990  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.4 15.6  
129 11.5 8.6 13.0

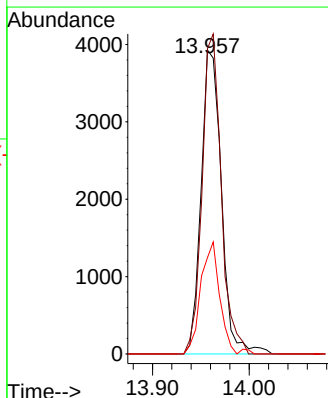
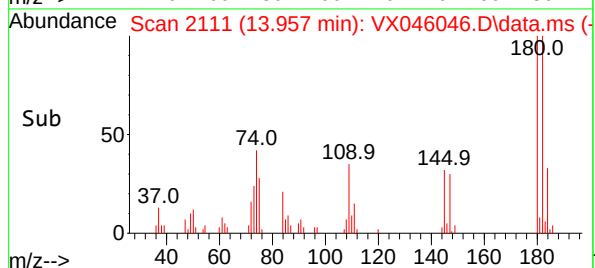
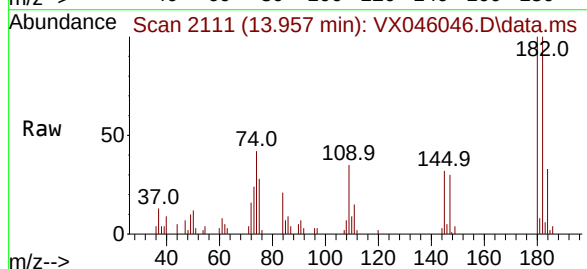
Manual Integrations  
APPROVED

Reviewed By :John Carbone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 3.217 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX046046.D  
Acq: 05 May 2025 16:04

Tgt Ion:180 Resp: 5745  
Ion Ratio Lower Upper  
180 100  
182 99.1 47.8 143.3  
145 34.8 18.1 54.3





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046047.D  
 Acq On : 05 May 2025 16:27  
 Operator : JC/MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 5.544  | 168   | 92040    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757  | 114   | 167022   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049 | 117   | 140108   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018 | 152   | 59123    | 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 | 74 - 125 | Recovery | =      | 0.000%#  |
| 35) Dibromofluoromethane     | 0.000  | 113   | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 0.000%#  |
| 50) Toluene-d8               | 0.000  | 98    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 0.000%#  |
| 62) 4-Bromofluorobenzene     | 0.000  | 95    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 77 - 121 | Recovery | =      | 0.000%#  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 1211     | 0.596    | ug/l   | 98       |
| 3) Chloromethane             | 1.307  | 50    | 1278     | 0.639    | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374  | 62    | 1239     | 0.707    | ug/l # | 82       |
| 6) Chloroethane              | 1.678  | 64    | 859      | 0.951    | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 1.880  | 101   | 1959     | 0.734    | ug/l   | 95       |
| 8) Diethyl Ether             | 2.130  | 74    | 742      | 0.845    | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319  | 101   | 1166     | 0.731    | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 2.313  | 96    | 1093     | 0.704    | ug/l # | 87       |
| 14) Allyl chloride           | 2.654  | 41    | 1936     | 0.660    | ug/l   | 89       |
| 15) Acrylonitrile            | 3.075  | 53    | 3343     | 3.424    | ug/l   | 98       |
| 16) Acetone                  | 2.380  | 43    | 3500     | 3.736    | ug/l   | 97       |
| 17) Carbon Disulfide         | 2.508  | 76    | 2619     | 0.728    | ug/l   | 98       |
| 18) Methyl Acetate           | 2.709  | 43    | 1852     | 0.828    | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.117  | 73    | 3588     | 0.662    | ug/l   | 96       |
| 20) Methylene Chloride       | 2.782  | 84    | 1571     | 0.828    | ug/l # | 90       |
| 21) trans-1,2-Dichloroethene | 3.081  | 96    | 1111     | 0.701    | ug/l # | 71       |
| 22) Diisopropyl ether        | 3.757  | 45    | 3857     | 0.703    | ug/l # | 26       |
| 23) Vinyl Acetate            | 3.727  | 43    | 15283    | 3.154    | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 3.605  | 63    | 2054     | 0.637    | ug/l   | 97       |
| 25) 2-Butanone               | 4.593  | 43    | 4558     | 3.371    | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 4.458  | 77    | 1777     | 0.728    | ug/l   | 84       |
| 27) cis-1,2-Dichloroethene   | 4.483  | 96    | 1324     | 0.693    | ug/l   | 91       |
| 28) Bromochloromethane       | 4.910  | 49    | 1061m    | 0.619    | ug/l   |          |
| 29) Tetrahydrofuran          | 5.019  | 42    | 2931     | 3.338    | ug/l   | 99       |
| 30) Chloroform               | 5.093  | 83    | 2328     | 0.695    | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.379  | 97    | 1869     | 0.647    | ug/l # | 51       |
| 36) 1,1-Dichloropropene      | 5.684  | 75    | 1648     | 0.758    | ug/l # | 83       |
| 37) Ethyl Acetate            | 4.733  | 43    | 1956m    | 0.717    | ug/l   |          |
| 38) Carbon Tetrachloride     | 5.678  | 117   | 1807     | 0.724    | ug/l # | 78       |
| 39) Methylcyclohexane        | 7.373  | 83    | 2096     | 0.770    | ug/l   | 97       |
| 40) Benzene                  | 6.044  | 78    | 4502     | 0.668    | ug/l # | 89       |
| 41) Methacrylonitrile        | 4.946  | 41    | 778      | 0.513    | ug/l # | 56       |
| 42) 1,2-Dichloroethane       | 6.092  | 62    | 1934     | 0.694    | ug/l   | 81       |
| 43) Isopropyl Acetate        | 6.354  | 43    | 2553     | 0.612    | ug/l # | 81       |
| 44) Trichloroethene          | 7.135  | 130   | 1083     | 0.680    | ug/l   | 85       |
| 45) 1,2-Dichloropropane      | 7.440  | 63    | 1059     | 0.633    | ug/l   | 89       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046047.D  
 Acq On : 05 May 2025 16:27  
 Operator : JC/MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 06:04:56 2025  
 Response via : Initial Calibration

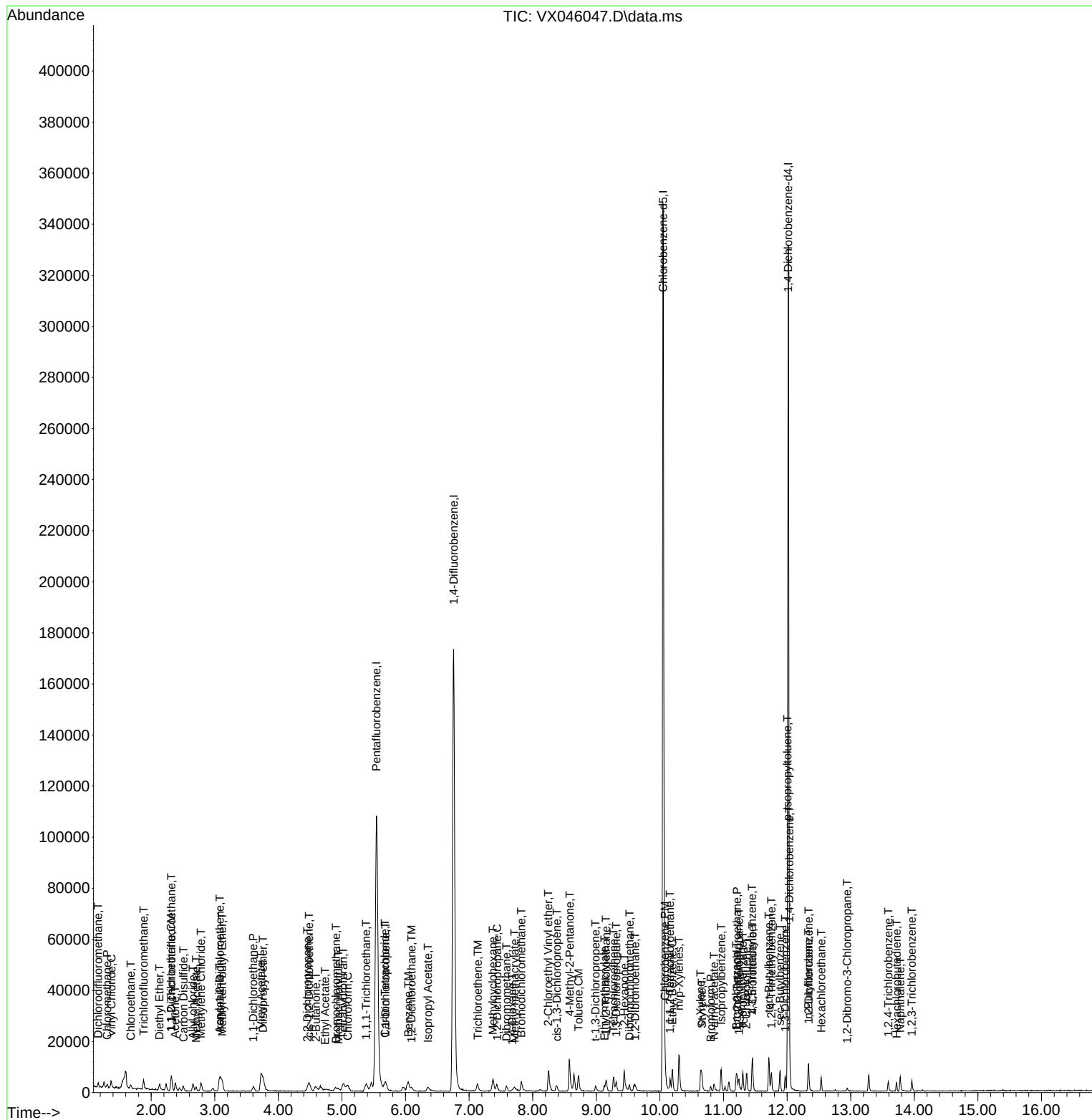
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 7.586  | 93   | 880      | 0.667  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.818  | 83   | 1620     | 0.633  | ug/l # | 91       |
| 48) Methyl methacrylate       | 7.714  | 41   | 1235m    | 0.577  | ug/l   |          |
| 49) 1,4-Dioxane               | 7.677  | 88   | 498      | 11.703 | ug/l # | 66       |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 9378     | 3.430  | ug/l   | 97       |
| 52) Toluene                   | 8.720  | 92   | 2684     | 0.672  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 8.988  | 75   | 1238     | 0.576  | ug/l # | 79       |
| 54) cis-1,3-Dichloropropene   | 8.379  | 75   | 1414     | 0.564  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 1029     | 0.637  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 9.128  | 69   | 1260     | 0.504  | ug/l # | 76       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 2036     | 0.711  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 3846     | 3.420  | ug/l   | 94       |
| 59) 2-Hexanone                | 9.439  | 43   | 6424     | 3.096  | ug/l   | 88       |
| 60) Dibromochloromethane      | 9.525  | 129  | 1023     | 0.582  | ug/l   | 93       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 1077     | 0.650  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 972      | 0.679  | ug/l   | 95       |
| 65) Chlorobenzene             | 10.079 | 112  | 3170     | 0.735  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 1035     | 0.720  | ug/l # | 67       |
| 67) Ethyl Benzene             | 10.195 | 91   | 5052     | 0.687  | ug/l   | 94       |
| 68) m/p-Xylenes               | 10.299 | 106  | 3630     | 1.367  | ug/l   | 97       |
| 69) o-Xylene                  | 10.640 | 106  | 1799     | 0.672  | ug/l   | 94       |
| 70) Styrene                   | 10.659 | 104  | 2664     | 0.622  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 657      | 0.608  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 4480     | 0.695  | ug/l   | 96       |
| 74) N-amyl acetate            | 10.854 | 43   | 2028     | 0.631  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 1835     | 0.800  | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 1661m    | 0.674  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 1095     | 0.734  | ug/l   | 96       |
| 78) n-propylbenzene           | 11.305 | 91   | 5052     | 0.699  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 3765     | 0.773  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 3590     | 0.671  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 3815     | 0.713  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 3951     | 0.751  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 3725     | 0.697  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 4385     | 0.672  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 3577     | 0.679  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 1914     | 0.689  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 2149m    | 0.789  | ug/l   |          |
| 89) n-Butylbenzene            | 12.335 | 91   | 2889     | 0.631  | ug/l   | 92       |
| 90) Hexachloroethane          | 12.536 | 117  | 604      | 0.616  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.341 | 146  | 2022     | 0.747  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 306      | 0.586  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 1019     | 0.688  | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 465      | 0.671  | ug/l   | 89       |
| 95) Naphthalene               | 13.780 | 128  | 4138     | 0.767  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 1113     | 0.716  | ug/l   | 96       |

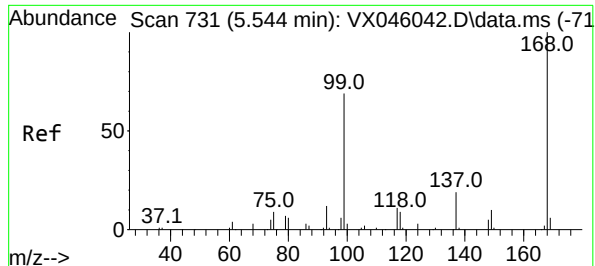
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC001

## Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025





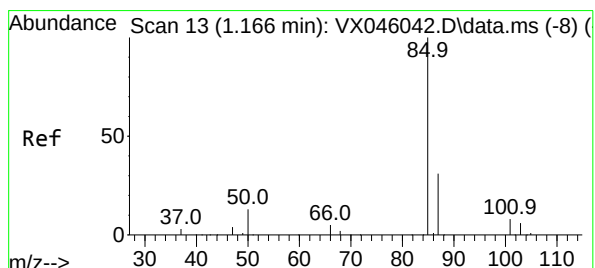
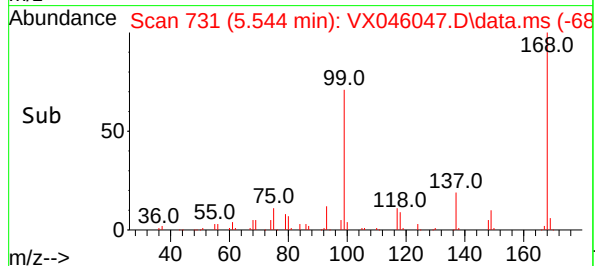
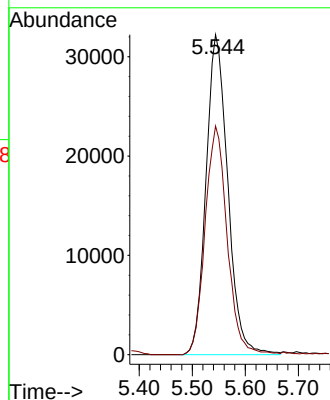
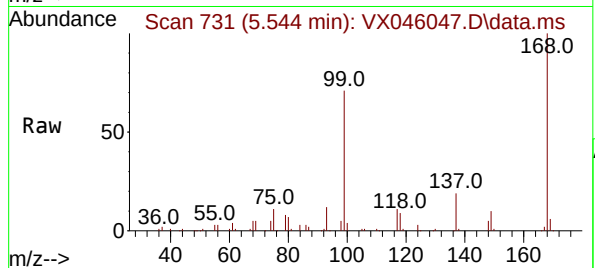
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Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001

Tgt Ion:168 Resp: 92040  
Ion Ratio Lower Upper  
168 100  
99 71.5 54.9 82.3

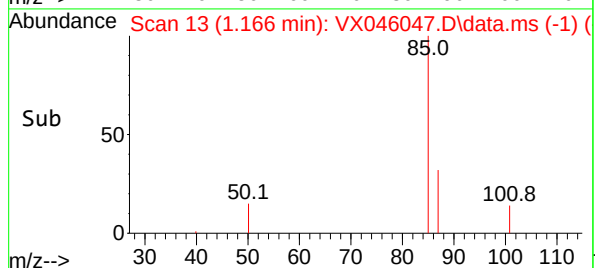
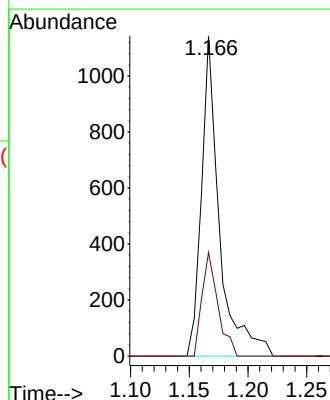
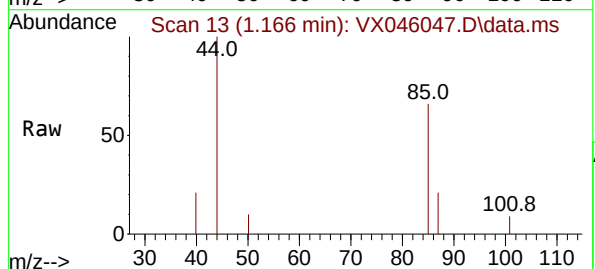
Manual Integrations  
APPROVED

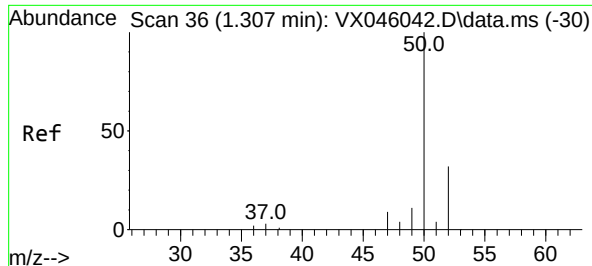
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#2  
Dichlorodifluoromethane  
Concen: 0.596 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 85 Resp: 1211  
Ion Ratio Lower Upper  
85 100  
87 32.4 15.7 47.1





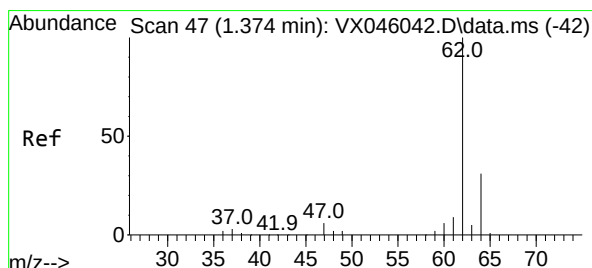
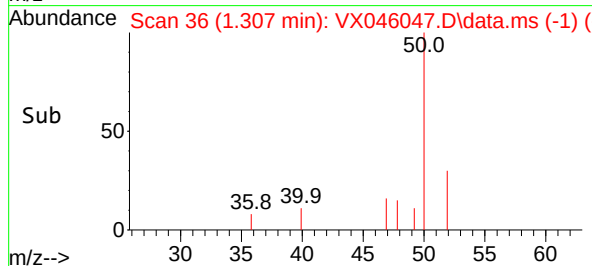
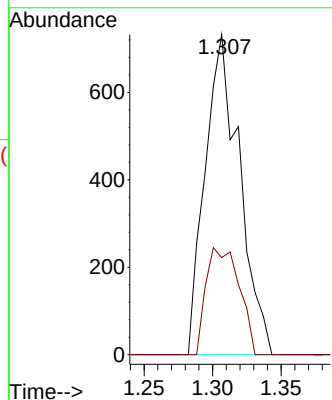
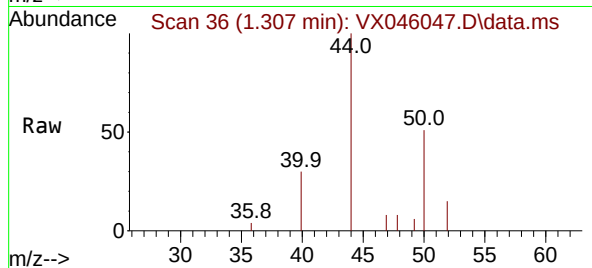
#3  
Chloromethane  
Concen: 0.639 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

Tgt Ion: 50 Resp: 1278  
Ion Ratio Lower Upper  
50 100  
52 30.3 25.4 38.2

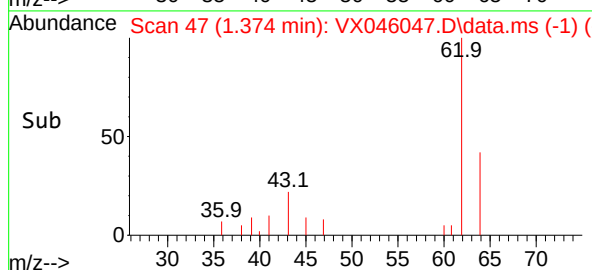
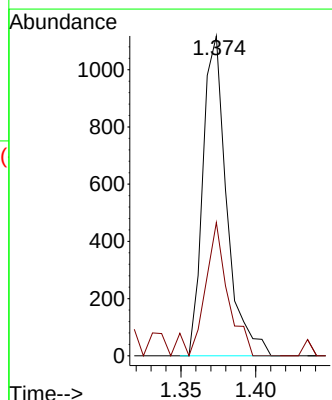
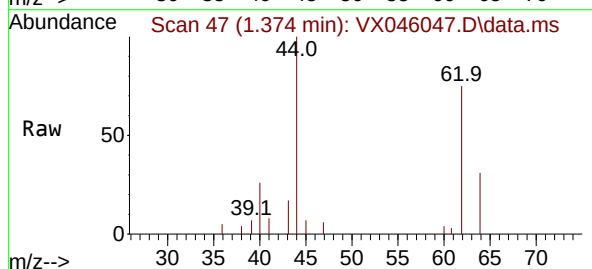
Manual Integrations  
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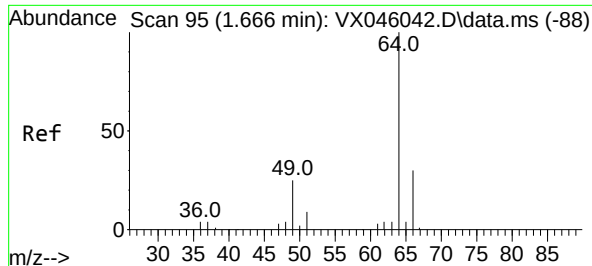
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 0.707 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

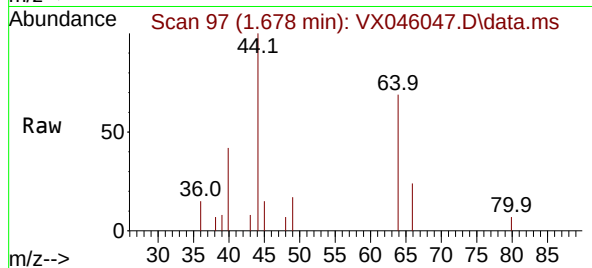
Tgt Ion: 62 Resp: 1239  
Ion Ratio Lower Upper  
62 100  
64 41.7 25.2 37.8#





#6  
Chloroethane  
Concen: 0.951 ug/l  
RT: 1.678 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

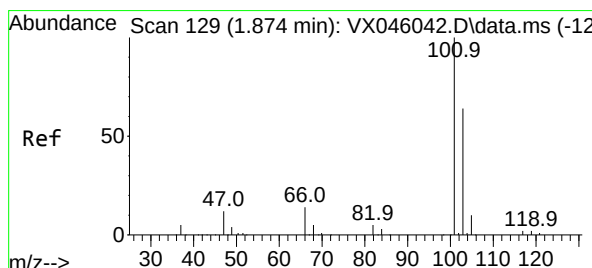
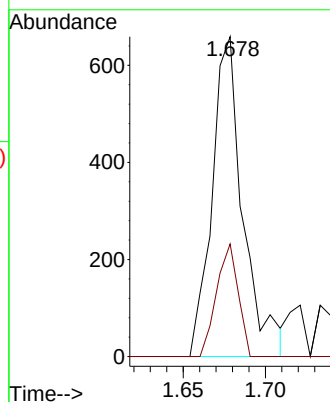
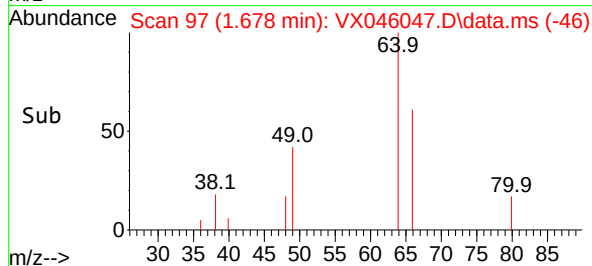
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001



Tgt Ion: 64 Resp: 859  
Ion Ratio Lower Upper  
64 100  
66 35.2 24.3 36.5

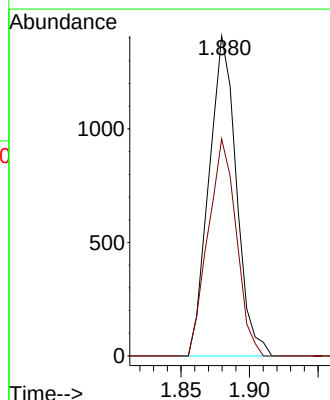
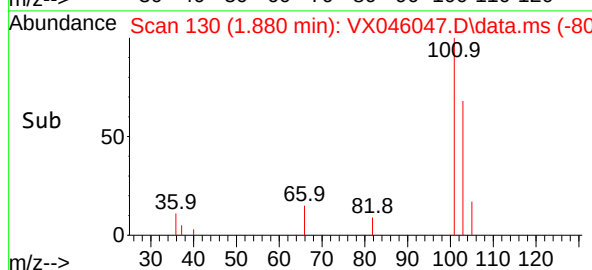
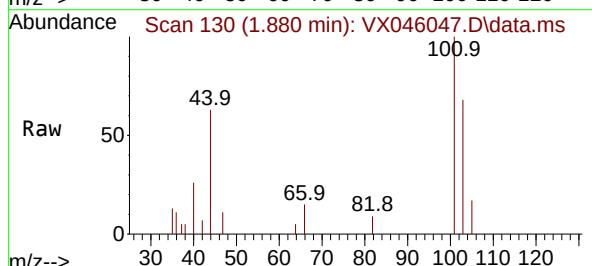
Manual Integrations  
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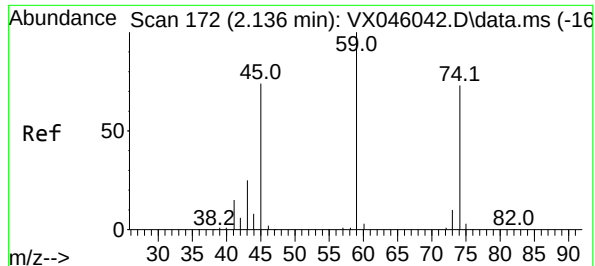
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#7  
Trichlorofluoromethane  
Concen: 0.734 ug/l  
RT: 1.880 min Scan# 130  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion:101 Resp: 1959  
Ion Ratio Lower Upper  
101 100  
103 67.8 51.0 76.4





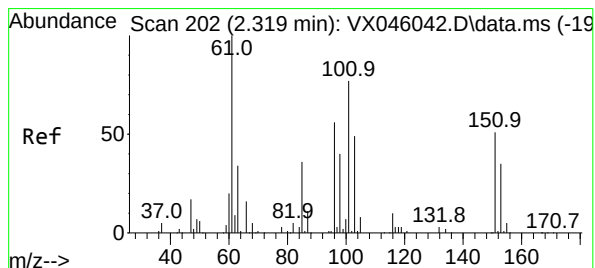
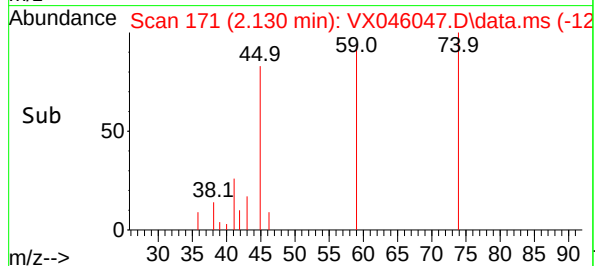
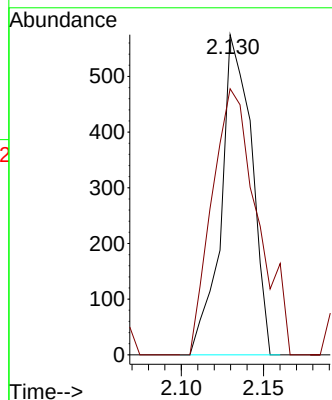
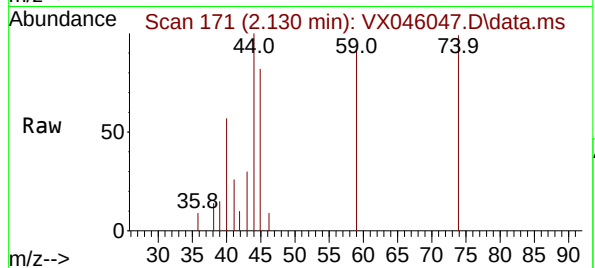
#8  
Diethyl Ether  
Concen: 0.845 ug/l  
RT: 2.130 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

Tgt Ion: 74 Resp: 74  
Ion Ratio Lower Upper  
74 100  
45 123.6 54.9 164.8

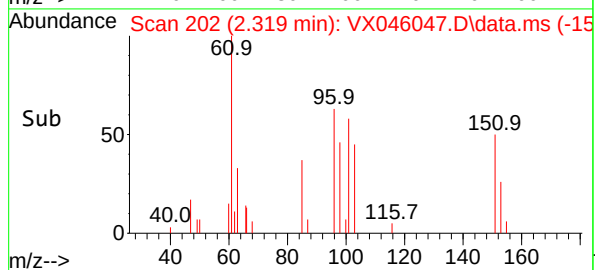
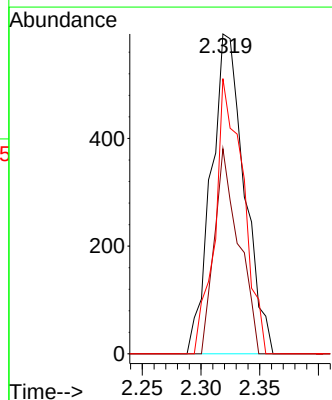
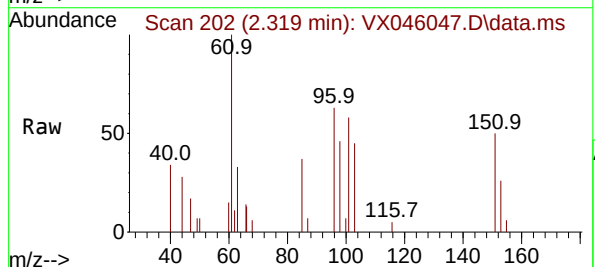
Manual Integrations  
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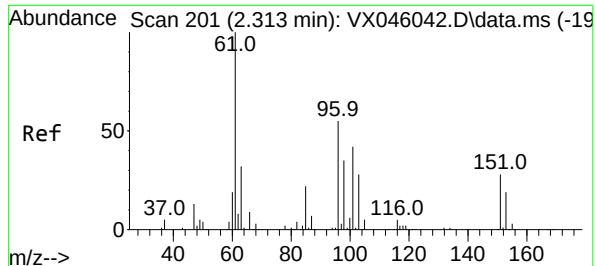
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.731 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion:101 Resp: 1166  
Ion Ratio Lower Upper  
101 100  
85 47.3 38.6 58.0  
151 73.1 55.2 82.8





#12

1,1-Dichloroethene

Concen: 0.704 ug/l

RT: 2.313 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

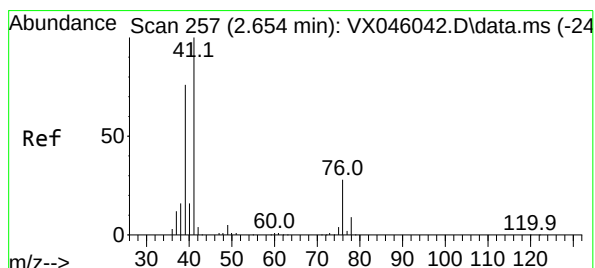
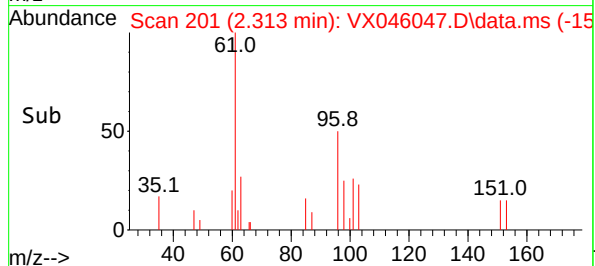
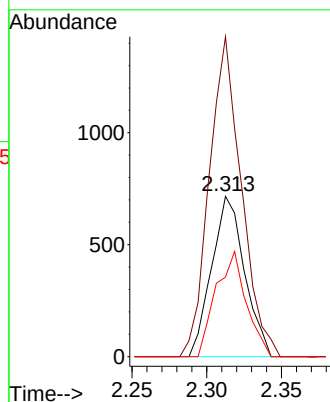
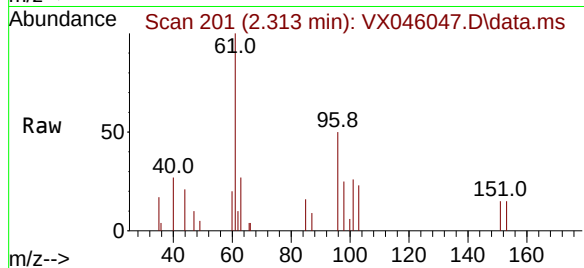
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 109   |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 199.6 | 146.2 | 219.2 |
| 98       | 49.6  | 51.0  | 76.6  |

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 0.660 ug/l

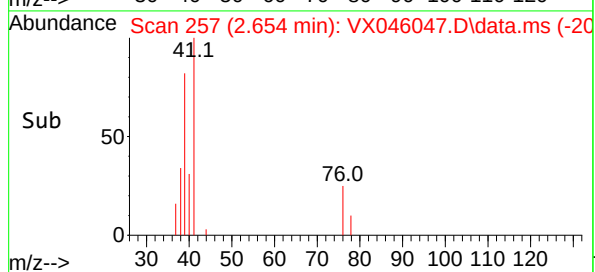
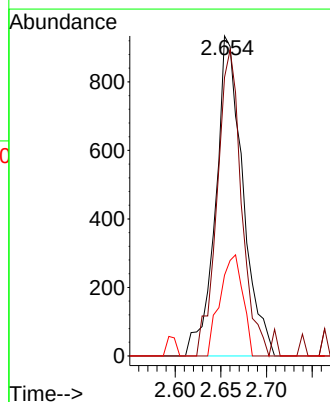
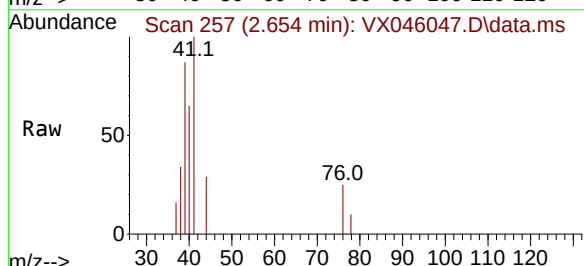
RT: 2.654 min Scan# 257

Delta R.T. -0.000 min

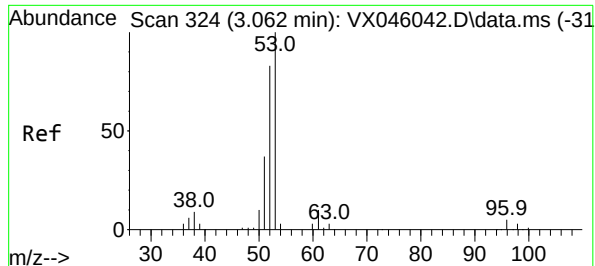
Lab File: VX046047.D

Acq: 05 May 2025 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1936  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 85.5  | 60.6  | 90.8  |
| 76       | 26.4  | 24.9  | 37.3  |







#15

Acrylonitrile

Concen: 3.424 ug/l

RT: 3.075 min Scan# 31

Delta R.T. 0.012 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

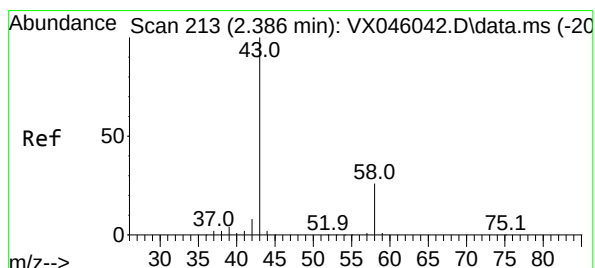
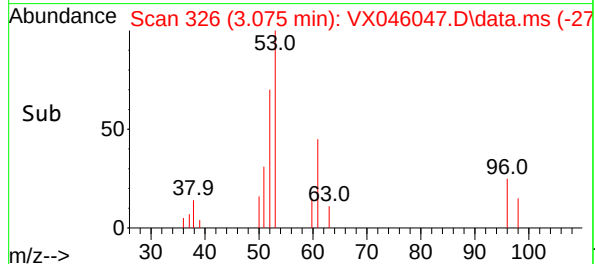
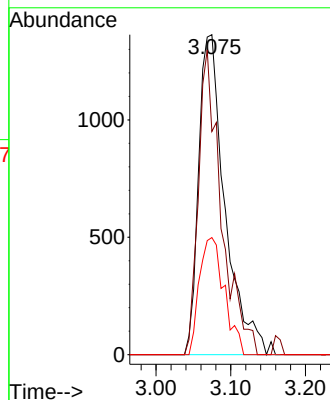
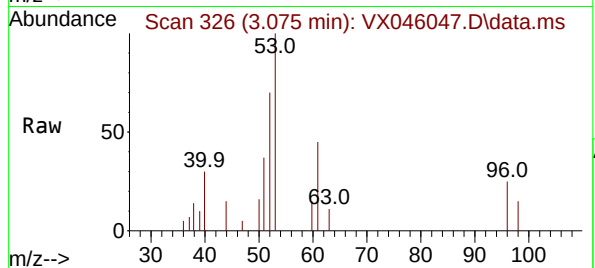
|             |             |
|-------------|-------------|
| Tgt Ion: 53 | Resp: 334   |
| Ion Ratio   | Lower Upper |
| 53 100      |             |
| 52 82.9     | 65.3 97.9   |
| 51 34.4     | 29.8 44.8   |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 3.736 ug/l

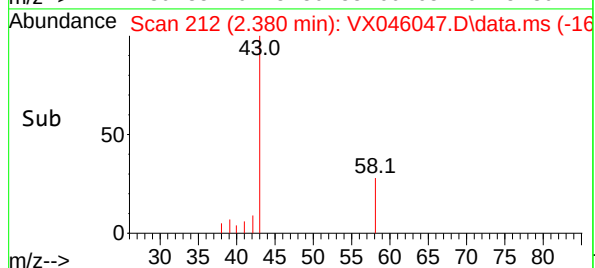
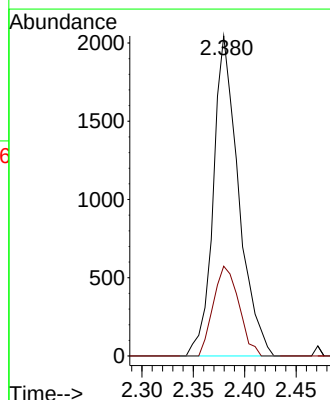
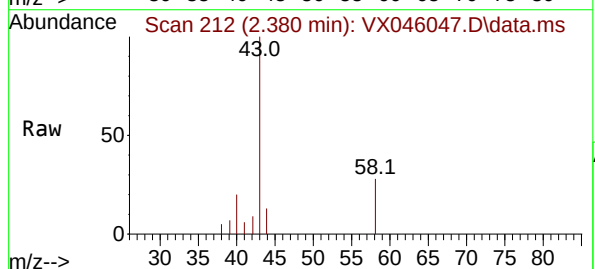
RT: 2.380 min Scan# 212

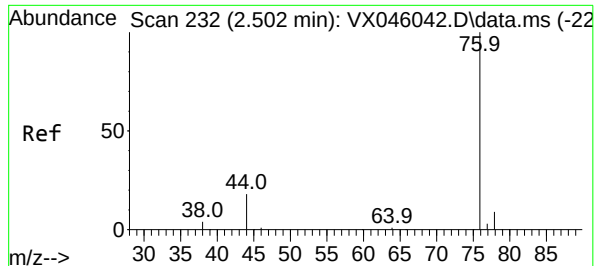
Delta R.T. -0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 3500  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 28.1     | 21.2 31.8   |





#17

Carbon Disulfide

Concen: 0.728 ug/l

RT: 2.508 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 2619

Ion Ratio Lower Upper

76 100

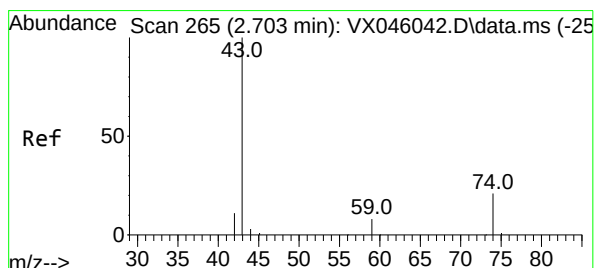
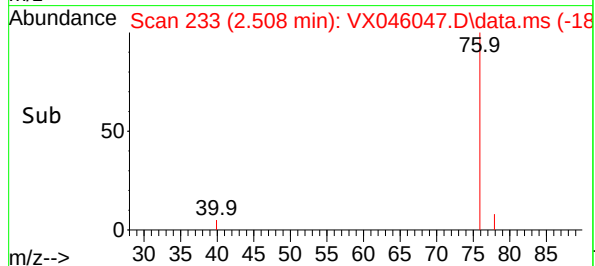
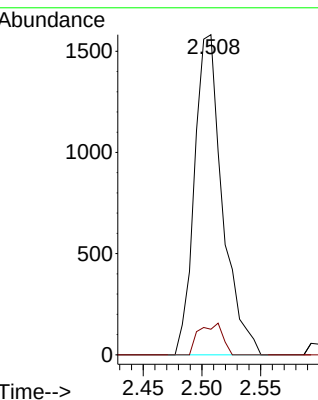
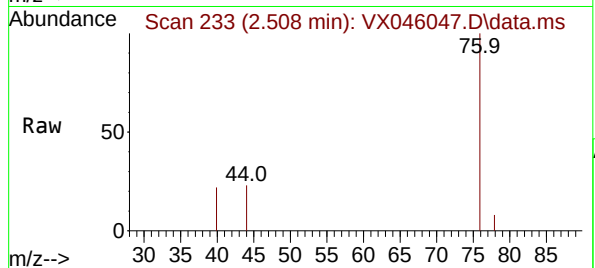
78 8.0 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 0.828 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX046047.D

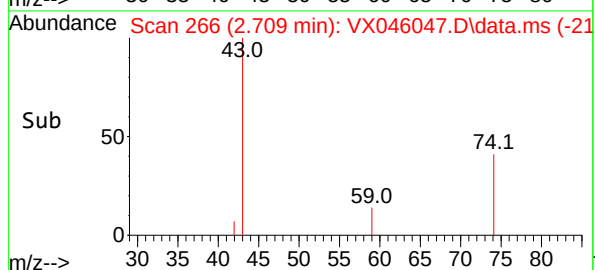
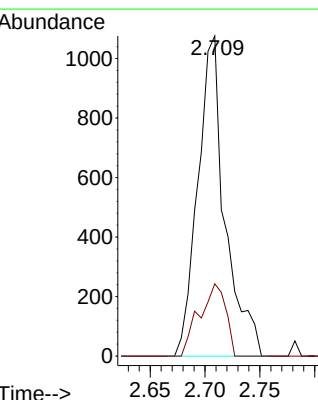
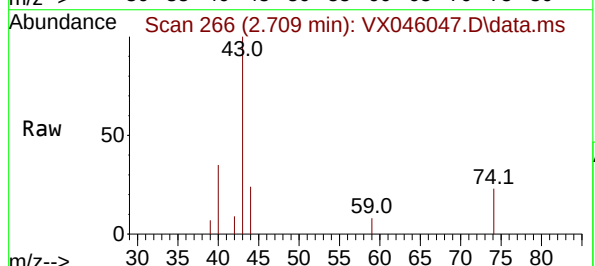
Acq: 05 May 2025 16:27

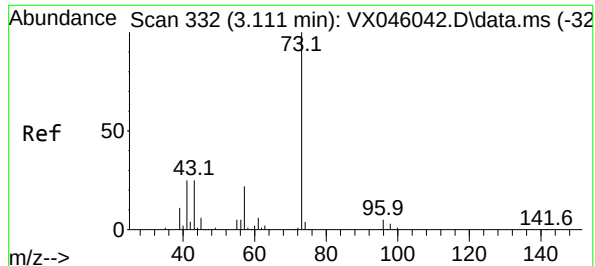
Tgt Ion: 43 Resp: 1852

Ion Ratio Lower Upper

43 100

74 22.0 16.7 25.1





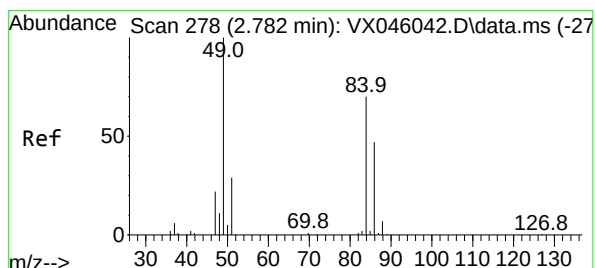
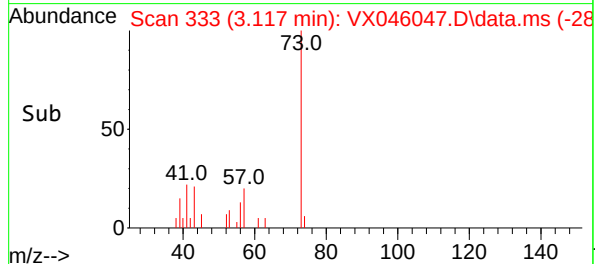
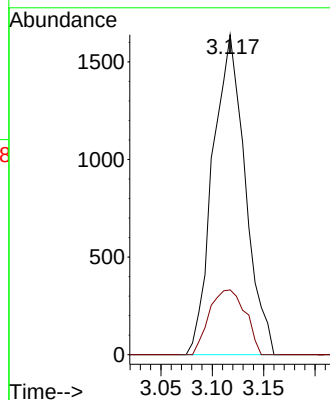
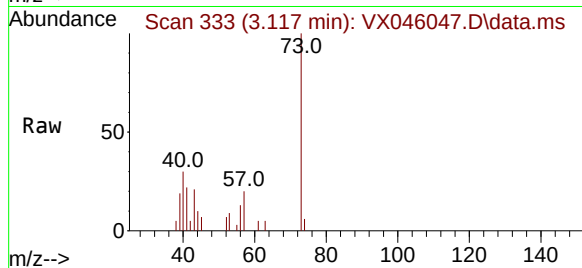
#19  
Methyl tert-butyl Ether  
Concen: 0.662 ug/l  
RT: 3.117 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001

Tgt Ion: 73 Resp: 3588  
Ion Ratio Lower Upper  
73 100  
57 20.3 17.7 26.5

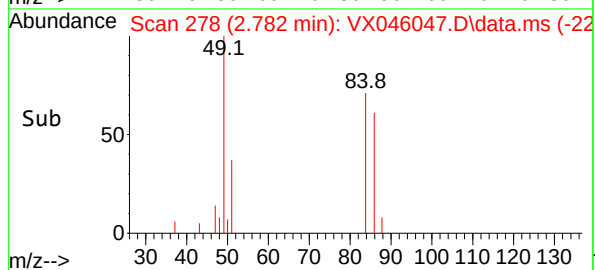
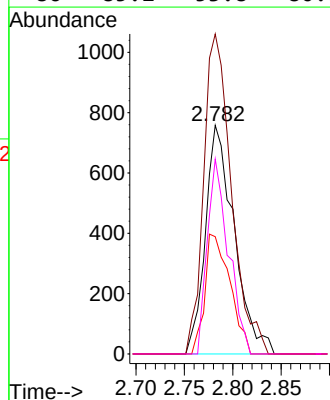
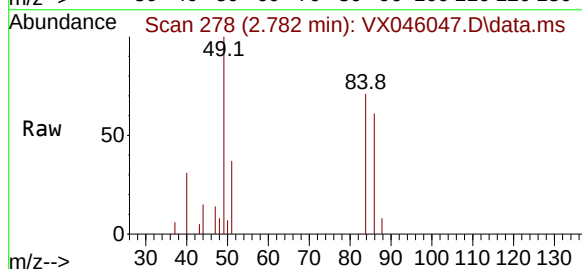
Manual Integrations  
APPROVED

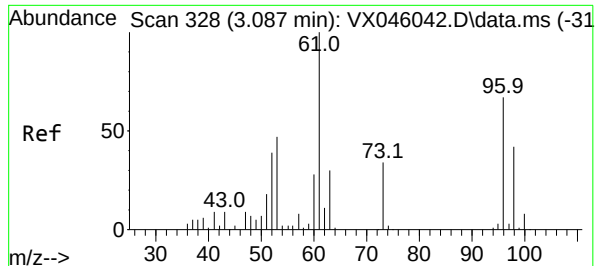
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#20  
Methylene Chloride  
Concen: 0.828 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

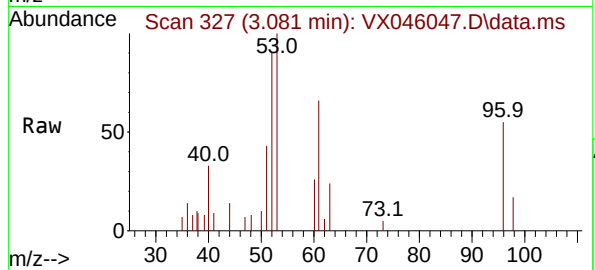
Tgt Ion: 84 Resp: 1571  
Ion Ratio Lower Upper  
84 100  
49 140.0 113.9 170.9  
51 51.3 33.5 50.3#  
86 85.2 53.8 80.8#





#21  
trans-1,2-Dichloroethene  
Concen: 0.701 ug/l  
RT: 3.081 min Scan# 311  
Delta R.T. -0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

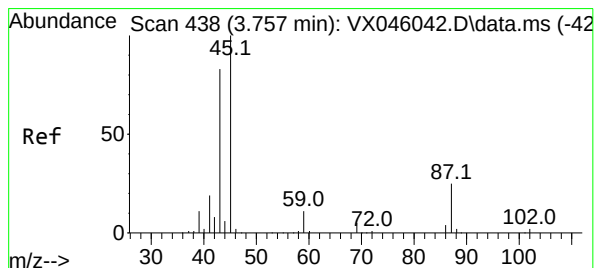
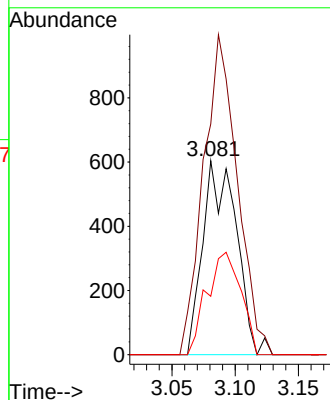
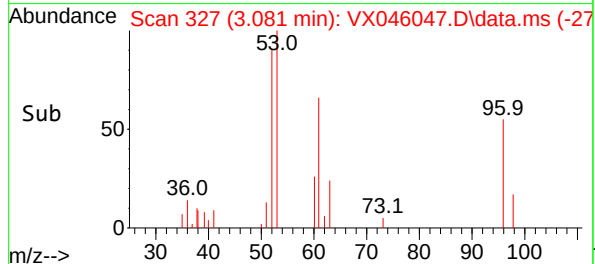
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion: 96 Resp: 111  
Ion Ratio Lower Upper  
96 100  
61 119.0 119.5 179.3  
98 30.1 50.0 75.0

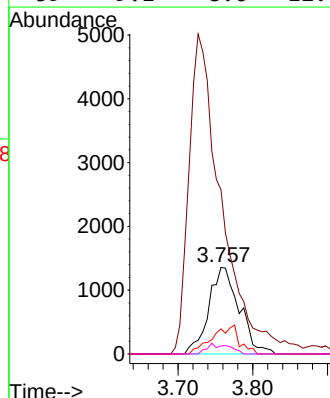
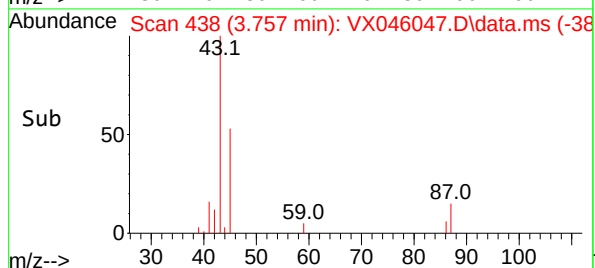
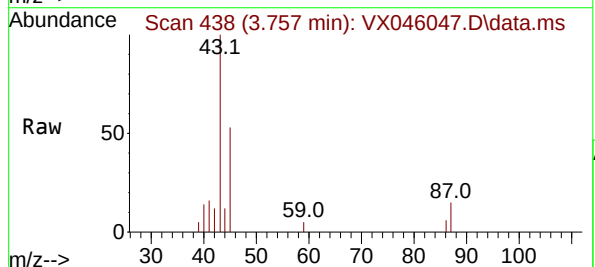
Manual Integrations  
APPROVED

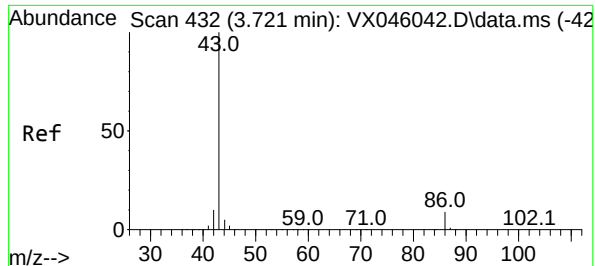
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 0.703 ug/l  
RT: 3.757 min Scan# 438  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

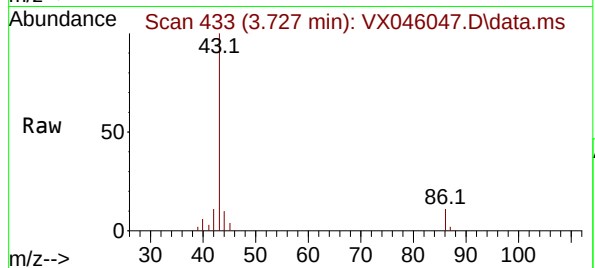
Tgt Ion: 45 Resp: 3857  
Ion Ratio Lower Upper  
45 100  
43 176.2 66.6 100.0#  
87 28.9 19.8 29.6  
59 9.1 8.6 12.8





#23  
Vinyl Acetate  
Concen: 3.154 ug/l  
RT: 3.727 min Scan# 413  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

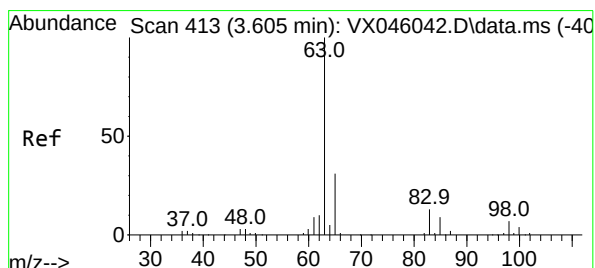
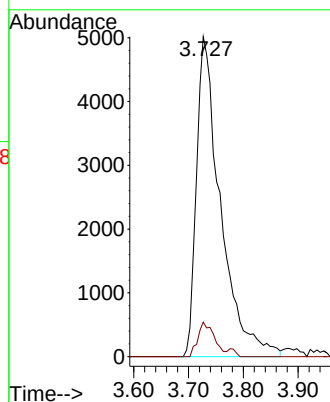
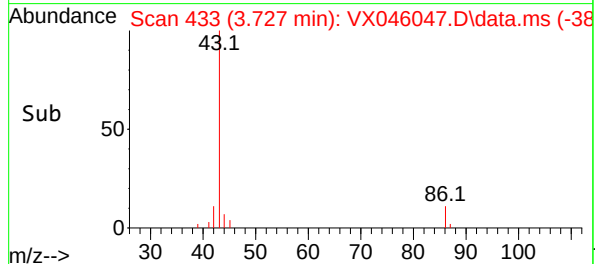
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion: 43 Resp: 1528  
Ion Ratio Lower Upper  
43 100  
86 10.8 7.5 11.3

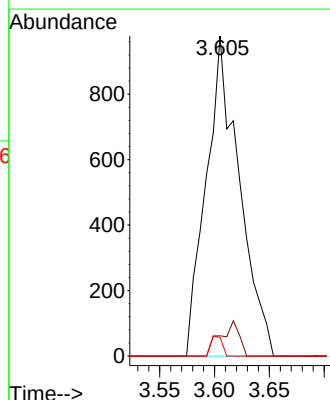
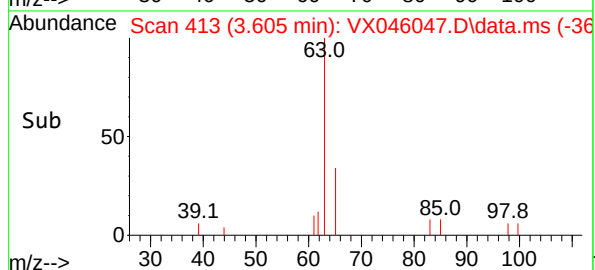
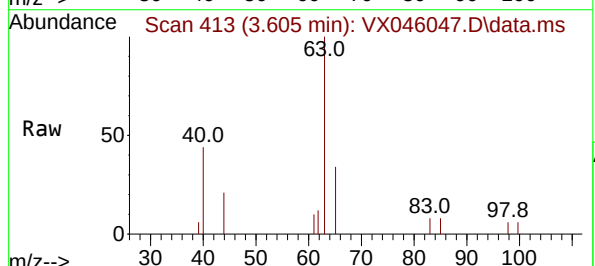
Manual Integrations  
APPROVED

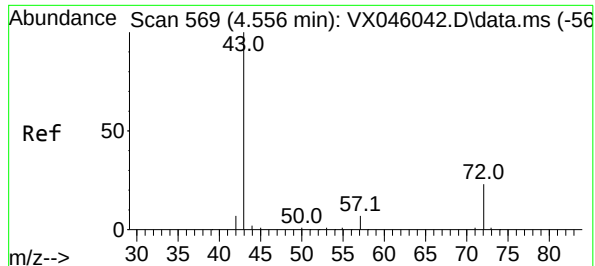
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#24  
1,1-Dichloroethane  
Concen: 0.637 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 2054  
Ion Ratio Lower Upper  
63 100  
98 6.3 3.6 10.8  
100 5.8 2.1 6.3





#25

2-Butanone

Concen: 3.371 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.037 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 4558

Ion Ratio Lower Upper

43 100

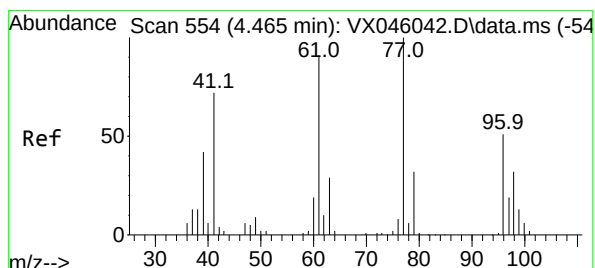
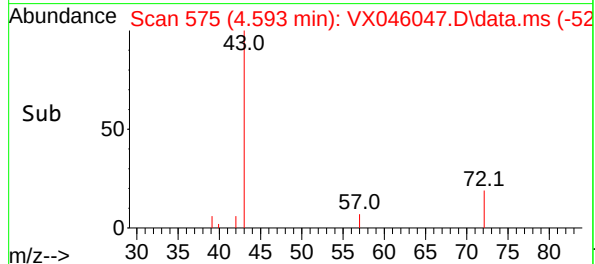
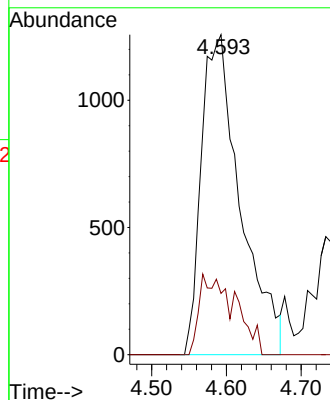
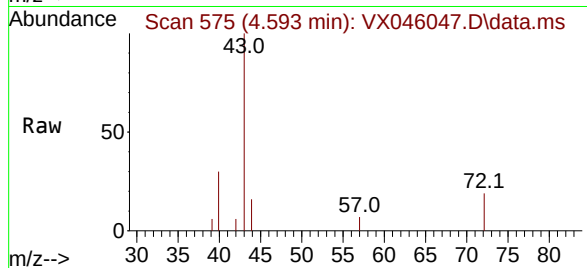
72 19.2 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 0.728 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX046047.D

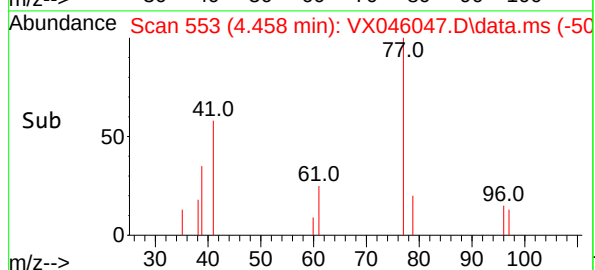
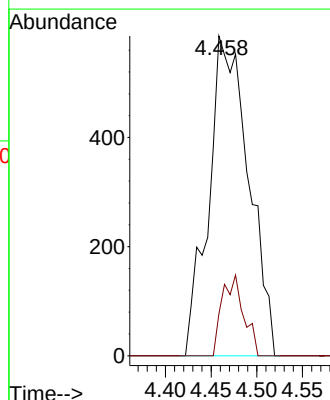
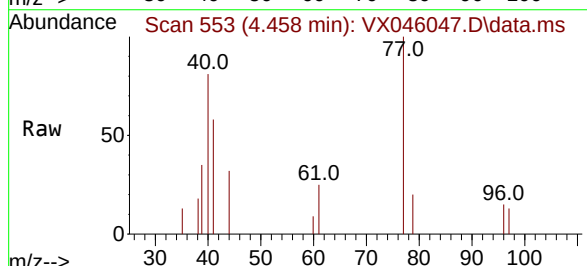
Acq: 05 May 2025 16:27

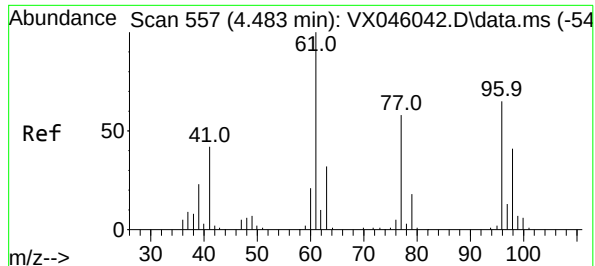
Tgt Ion: 77 Resp: 1777

Ion Ratio Lower Upper

77 100

97 13.7 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 0.693 ug/l

RT: 4.483 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

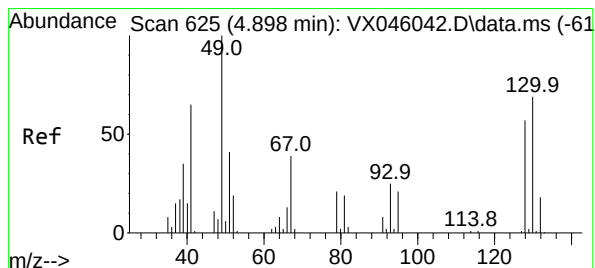
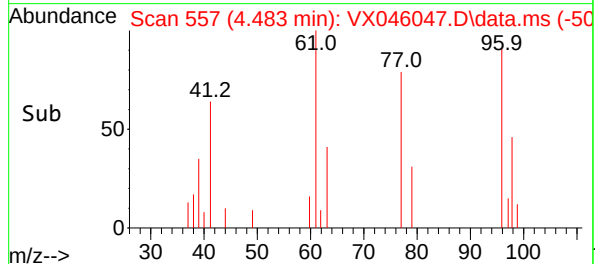
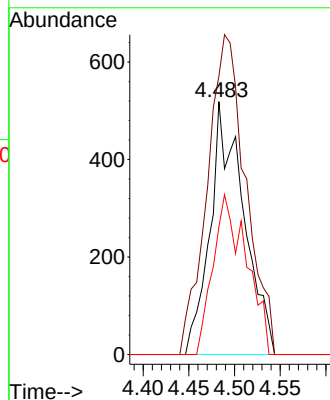
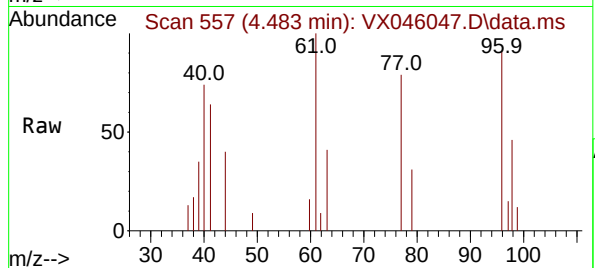
VSTDIC001

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 1324  |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 145.5    | 0.0 322.8   |
| 98 63.1     | 0.0 129.0   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 0.619 ug/l m

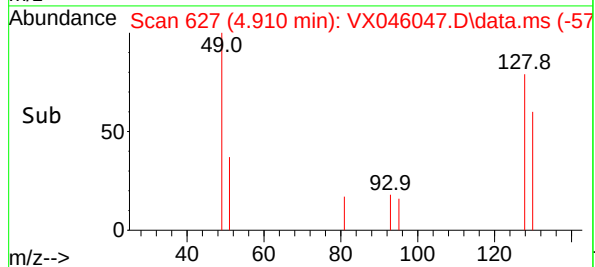
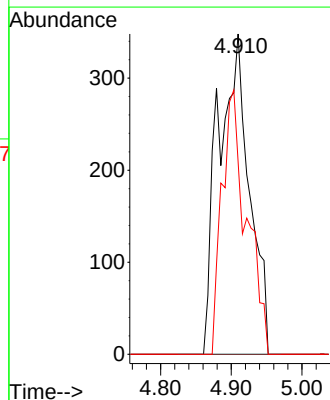
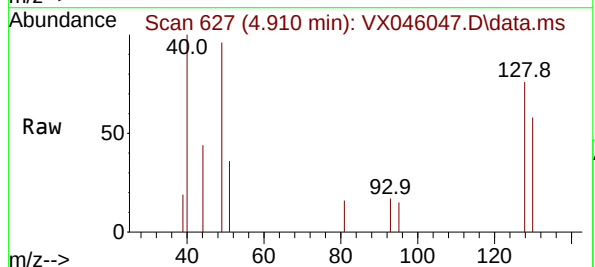
RT: 4.910 min Scan# 627

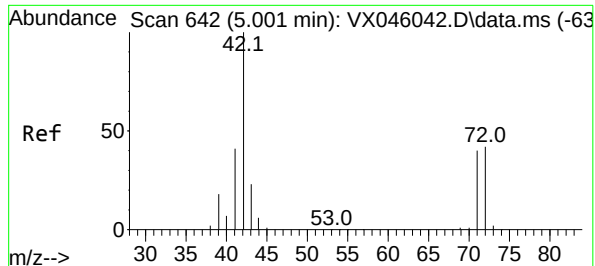
Delta R.T. 0.012 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

|             |             |
|-------------|-------------|
| Tgt Ion: 49 | Resp: 1061  |
| Ion Ratio   | Lower Upper |
| 49 100      |             |
| 129 0.0     | 0.0 4.0     |
| 130 65.3    | 56.2 84.2   |





#29

Tetrahydrofuran

Concen: 3.338 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 42 Resp: 293

Ion Ratio Lower Upper

42 100

72 41.9 33.7 50.5

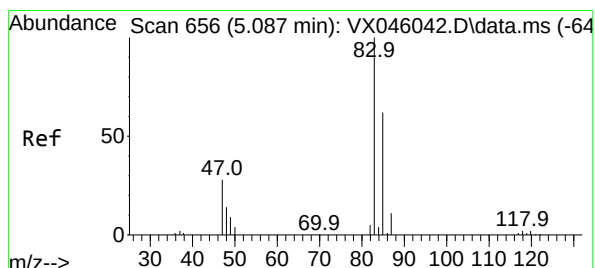
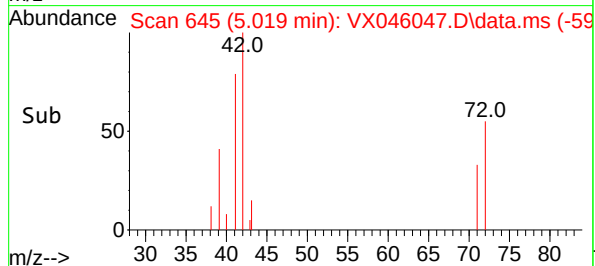
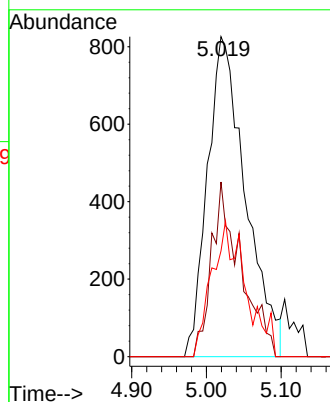
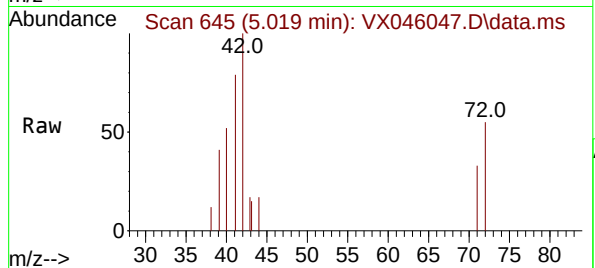
71 37.7 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 0.695 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX046047.D

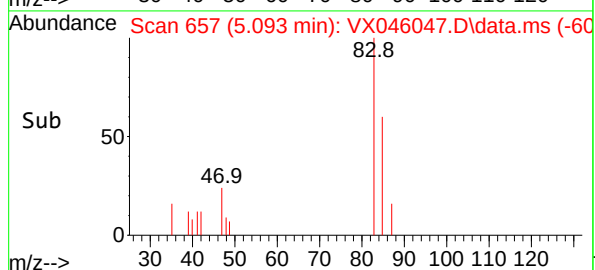
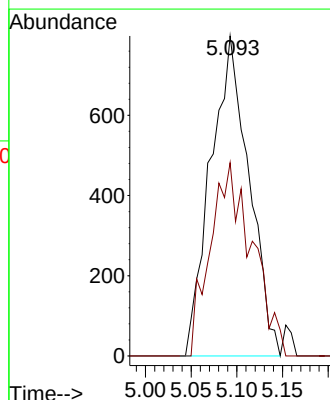
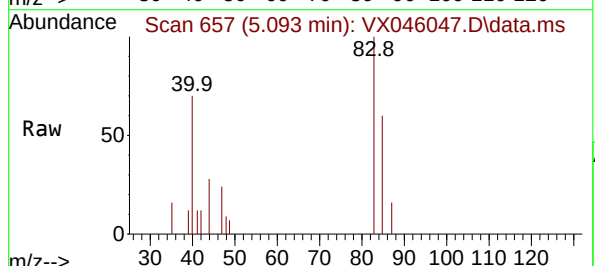
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 2328

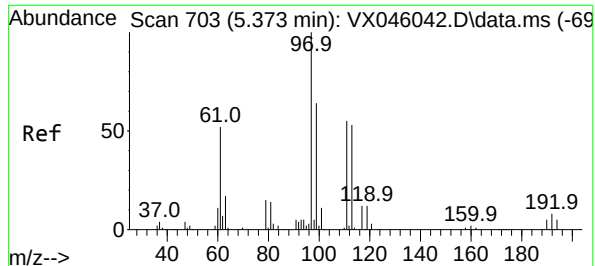
Ion Ratio Lower Upper

83 100

85 60.4 49.3 73.9







#32

1,1,1-Trichloroethane

Concen: 0.647 ug/l

RT: 5.379 min Scan# 70

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 186

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6

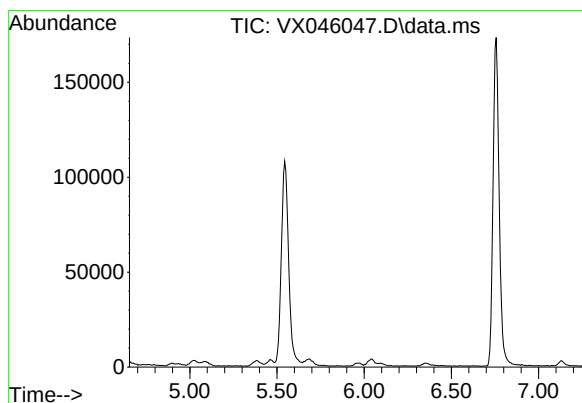
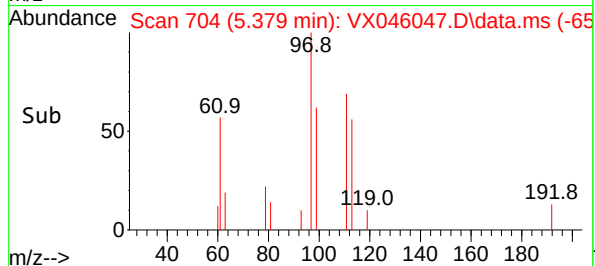
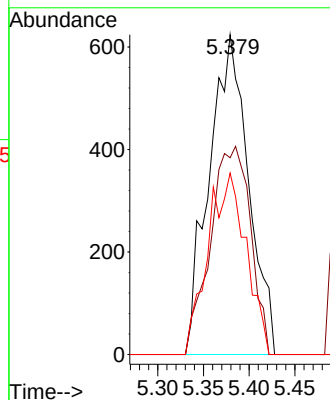
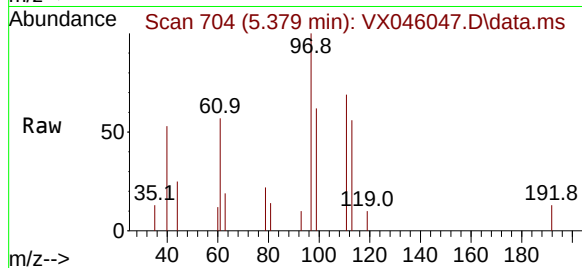
61 55.0 40.1 60.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.95 min

Lab File: VX046047.D

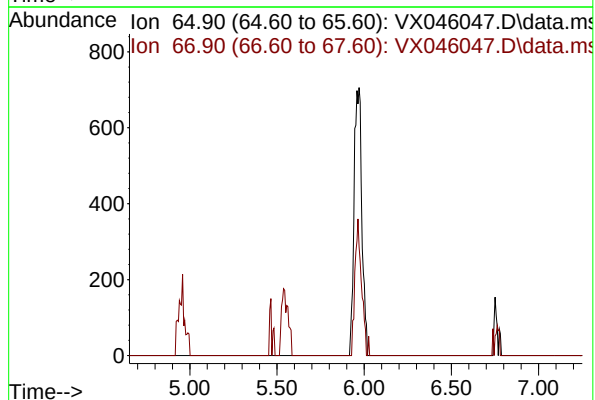
Acq: 05 May 2025 16:27

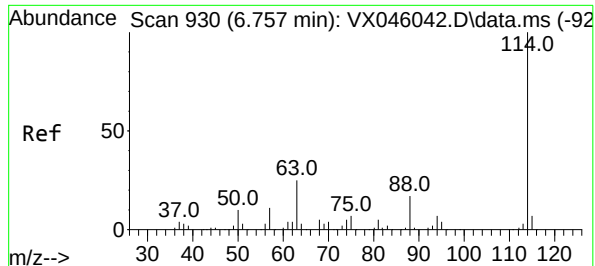
Tgt Ion: 65

Sig Exp Ratio

65 100

67 49.5





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 16702

Ion Ratio Lower Upper

114 100

63 24.2 0.0 49.2

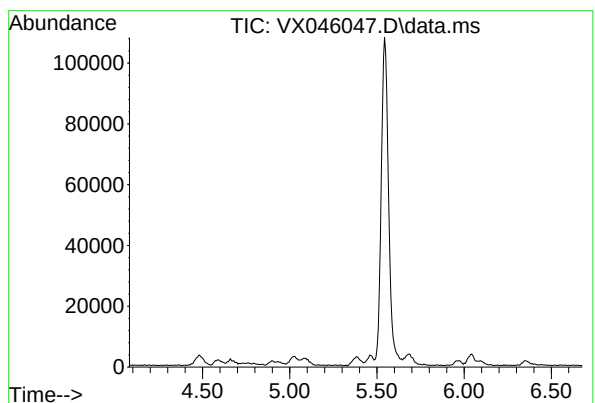
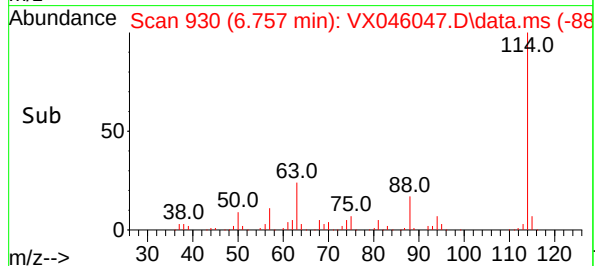
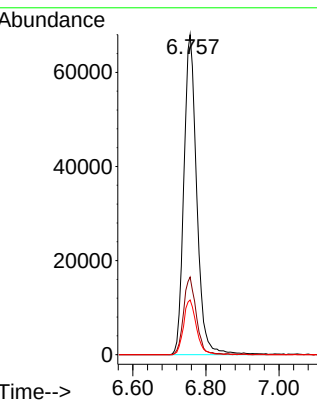
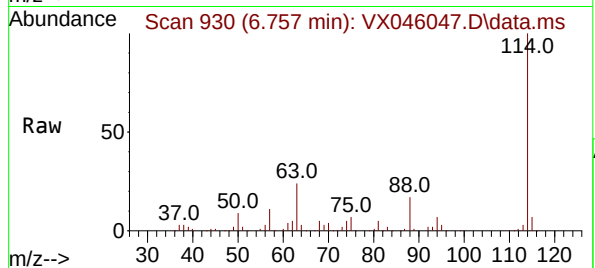
88 17.1 0.0 33.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.38 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

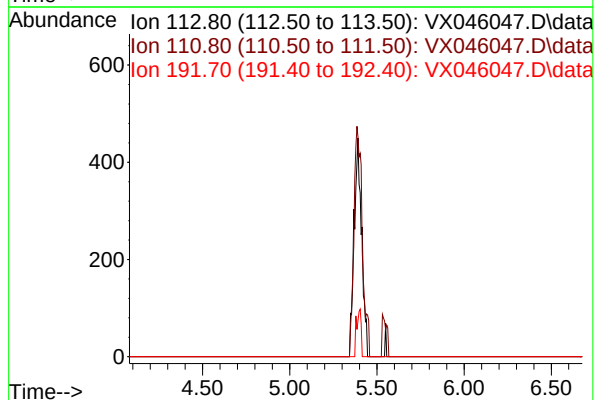
Tgt Ion: 113

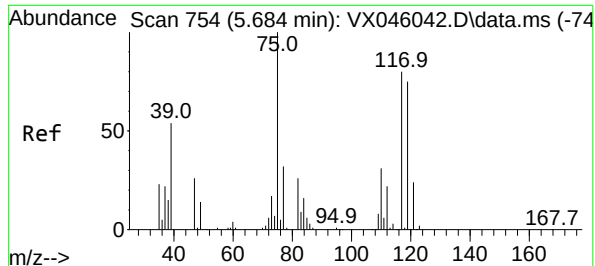
Sig Exp Ratio

113 100

111 103.9

192 16.6





#36

1,1-Dichloropropene

Concen: 0.758 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

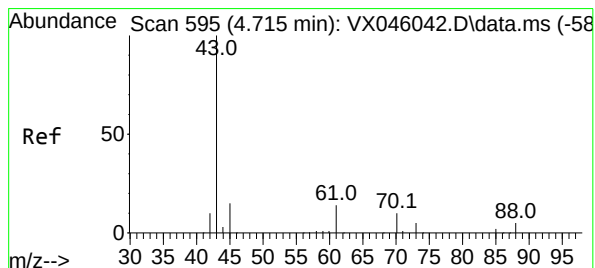
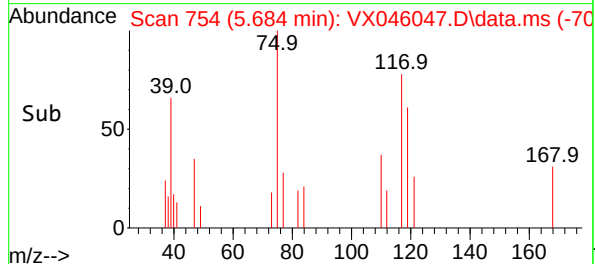
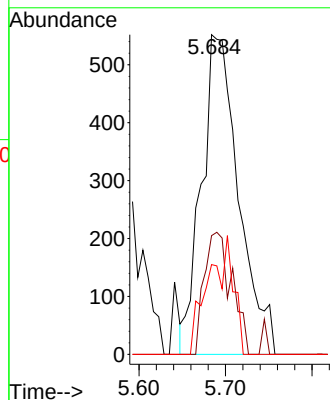
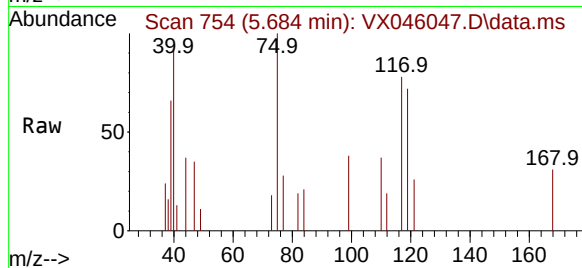
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 164   |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 28.2  | 16.3  | 48.9  |
| 77       | 15.8  | 24.3  | 36.5  |

## Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#37

Ethyl Acetate

Concen: 0.717 ug/l m

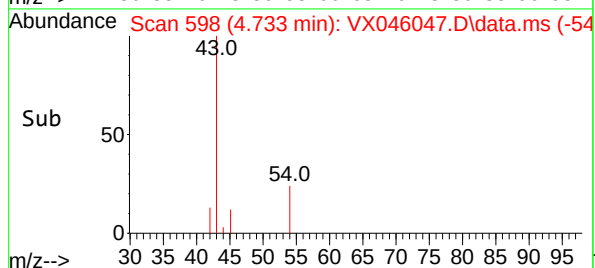
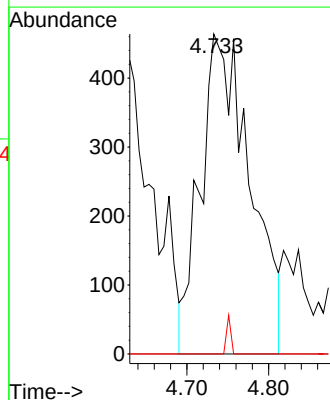
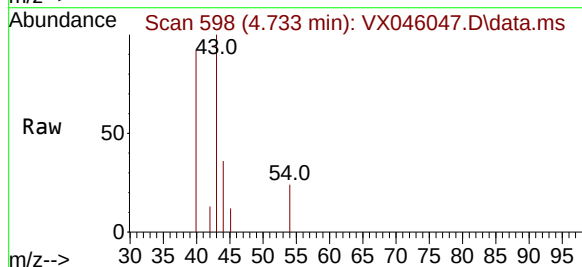
RT: 4.733 min Scan# 598

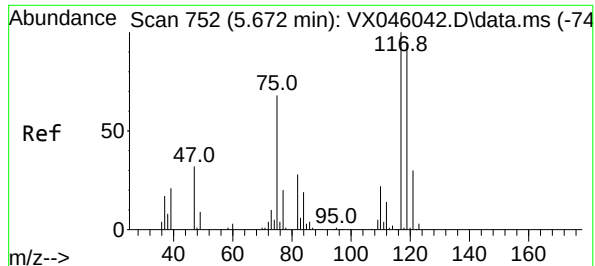
Delta R.T. 0.018 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1956  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 10.3  | 15.5# |
| 70       | 1.0   | 7.9   | 11.9# |





#38

Carbon Tetrachloride

Concen: 0.724 ug/l

RT: 5.678 min Scan# 752

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 180

Ion Ratio Lower Upper

117 100

119 67.0 75.2 112.8

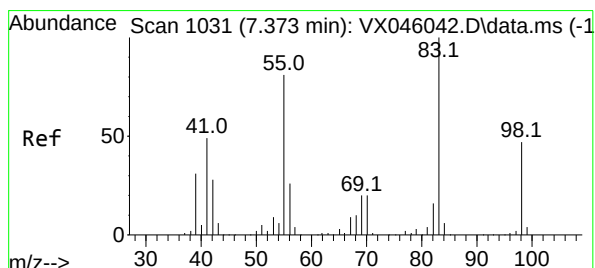
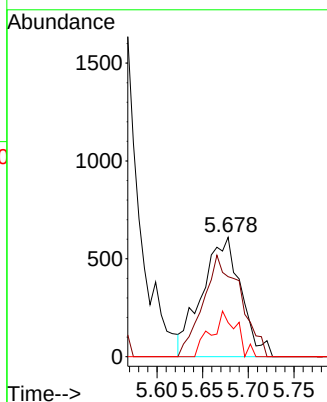
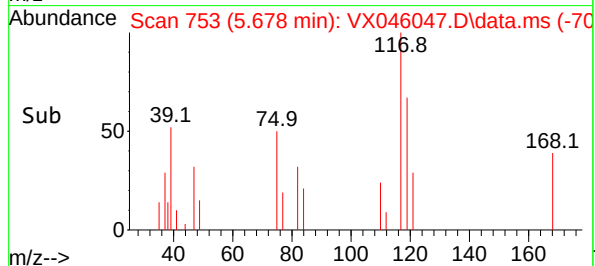
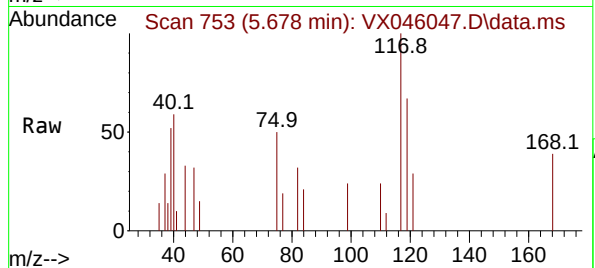
121 28.5 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#39

Methylcyclohexane

Concen: 0.770 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

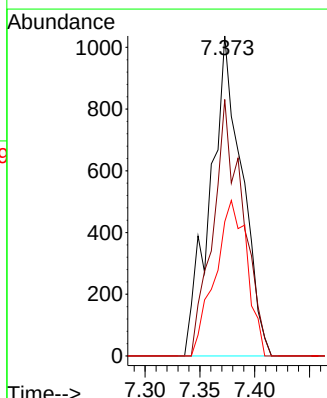
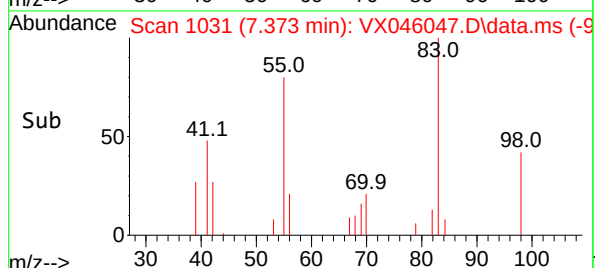
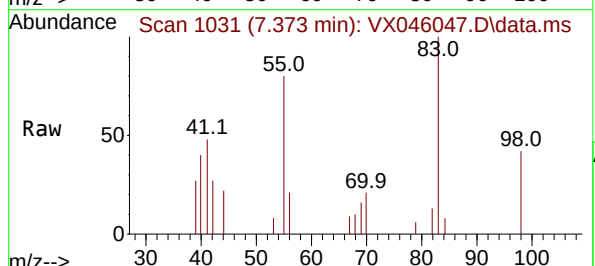
Tgt Ion: 83 Resp: 2096

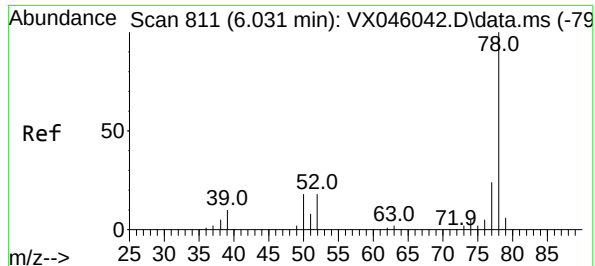
Ion Ratio Lower Upper

83 100

55 80.1 64.7 97.1

98 41.9 37.4 56.2





#40

Benzene

Concen: 0.668 ug/l

RT: 6.044 min Scan# 811

Delta R.T. 0.012 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 450

Ion Ratio Lower Upper

78 100

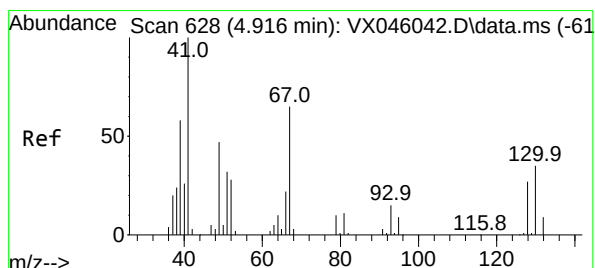
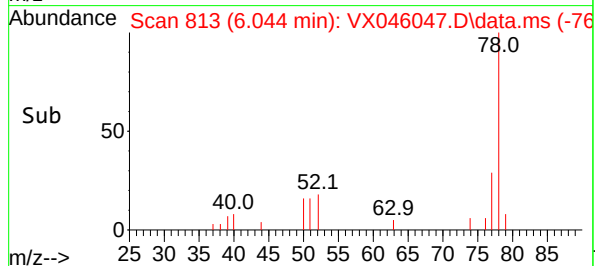
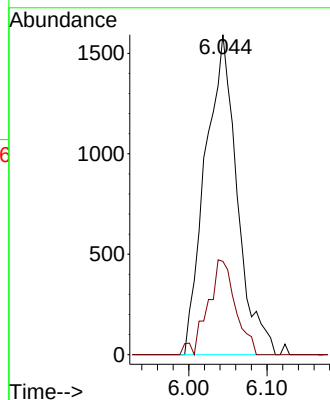
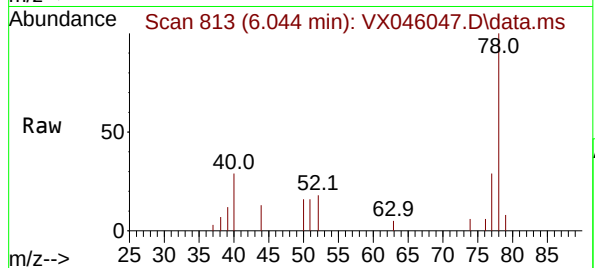
77 29.1 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#41

Methacrylonitrile

Concen: 0.513 ug/l

RT: 4.946 min Scan# 633

Delta R.T. 0.030 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 778

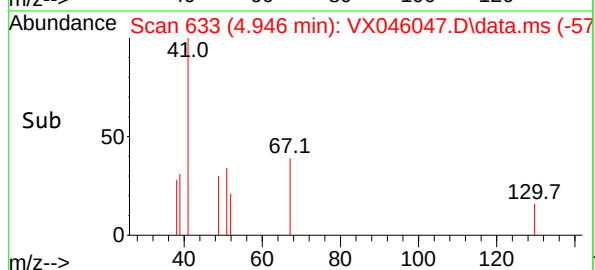
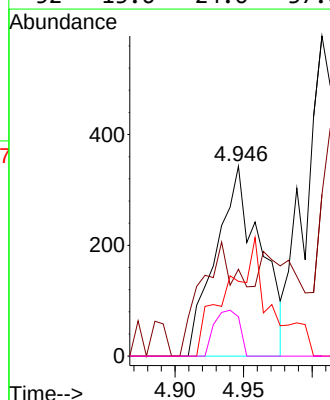
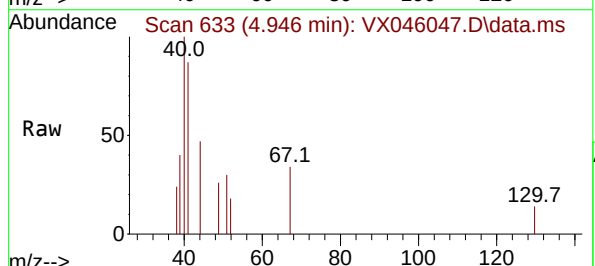
Ion Ratio Lower Upper

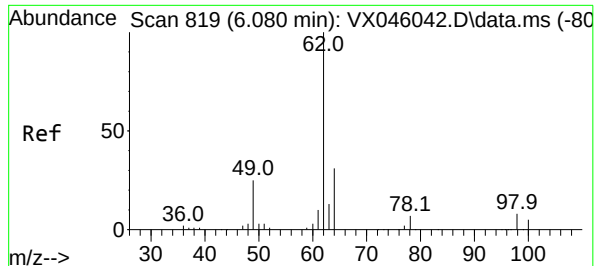
41 100

39 51.7 47.2 70.8

67 0.0 50.7 76.1#

52 13.6 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.694 ug/l

RT: 6.092 min Scan# 819

Delta R.T. 0.012 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 1934

Ion Ratio Lower Upper

62 100

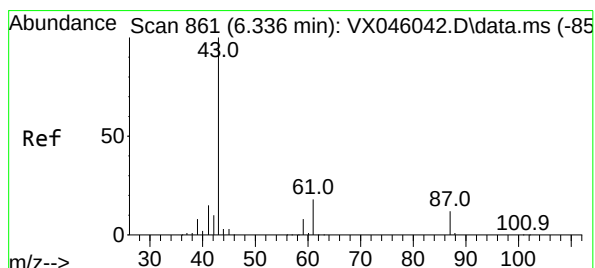
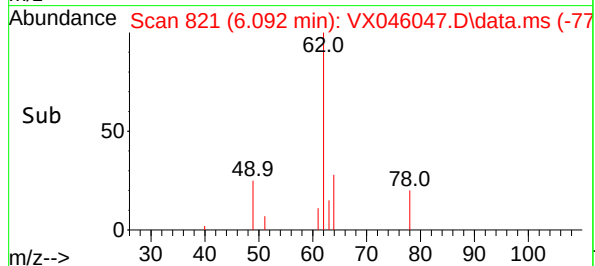
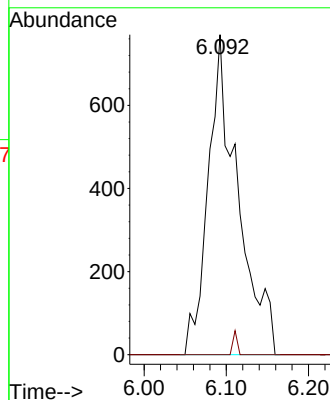
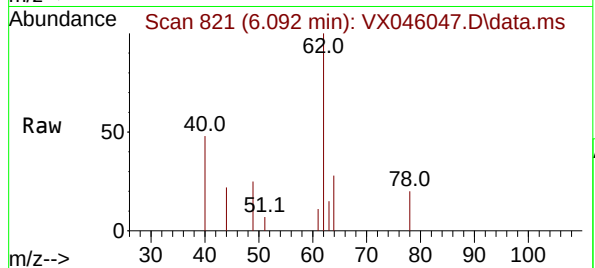
98 1.1 0.0 15.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#43

Isopropyl Acetate

Concen: 0.612 ug/l

RT: 6.354 min Scan# 864

Delta R.T. 0.018 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

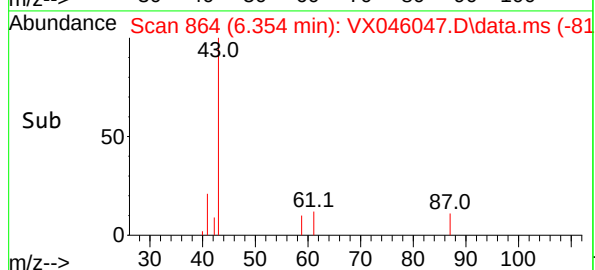
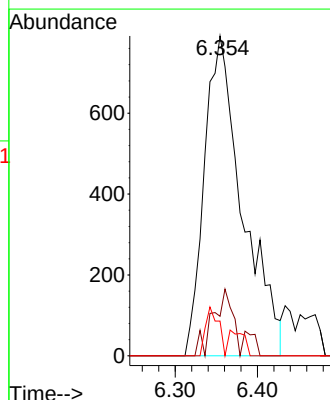
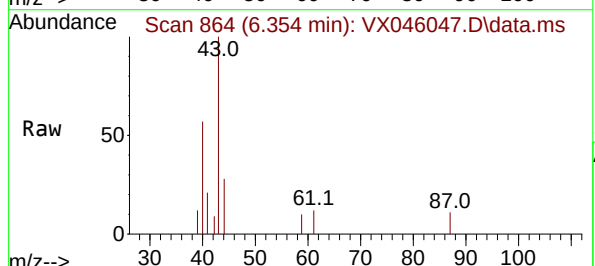
Tgt Ion: 43 Resp: 2553

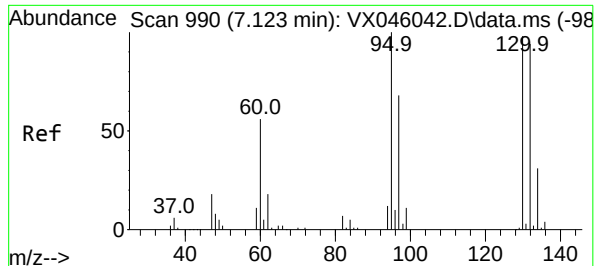
Ion Ratio Lower Upper

43 100

61 10.7 14.3 21.5#

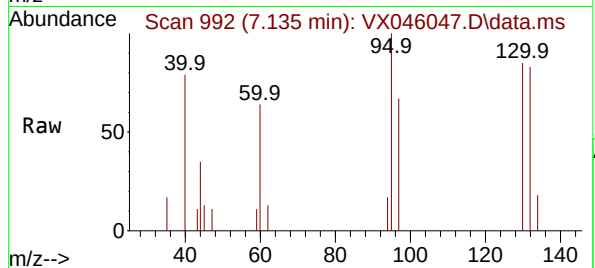
87 3.2 9.5 14.3#





#44  
Trichloroethene  
Concen: 0.680 ug/l  
RT: 7.135 min Scan# 990  
Delta R.T. 0.012 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

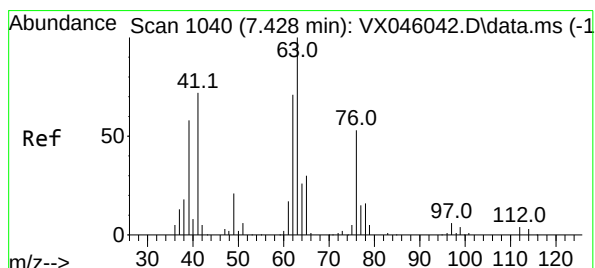
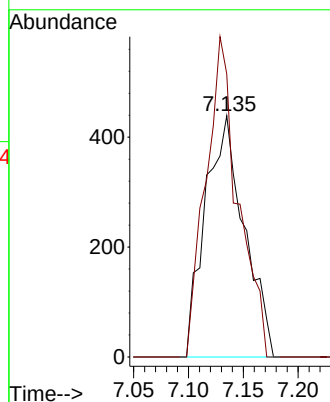
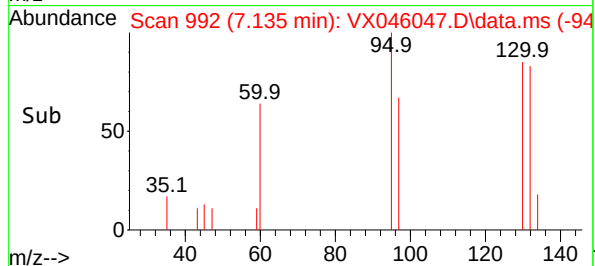
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



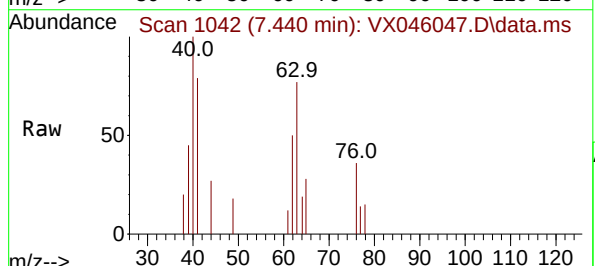
Tgt Ion:130 Resp: 1083  
Ion Ratio Lower Upper  
130 100  
95 117.3 0.0 204.2

Manual Integrations  
APPROVED

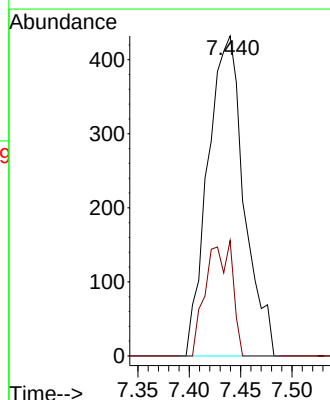
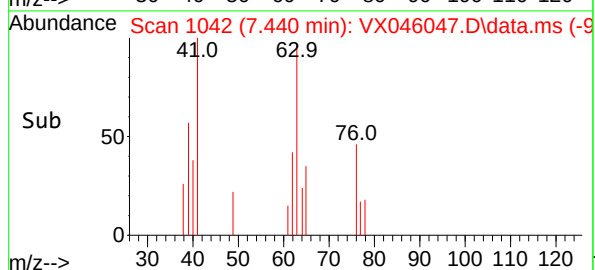
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

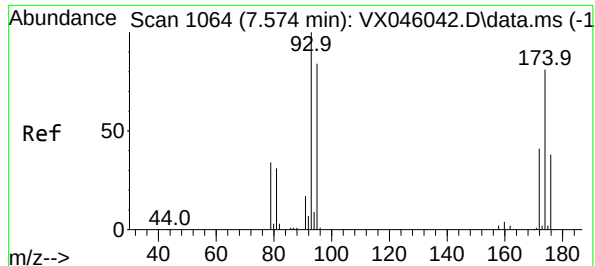


#45  
1,2-Dichloropropane  
Concen: 0.633 ug/l  
RT: 7.440 min Scan# 1042  
Delta R.T. 0.012 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27



Tgt Ion: 63 Resp: 1059  
Ion Ratio Lower Upper  
63 100  
65 36.1 24.1 36.1





#46

Dibromomethane

Concen: 0.667 ug/l

RT: 7.586 min Scan# 1106

Delta R.T. 0.012 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

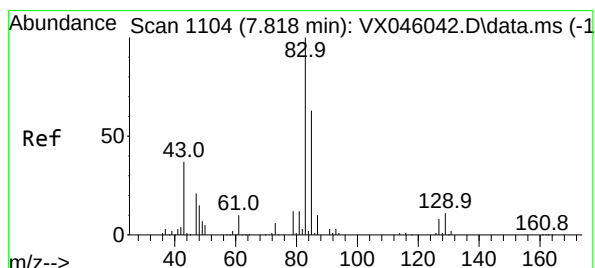
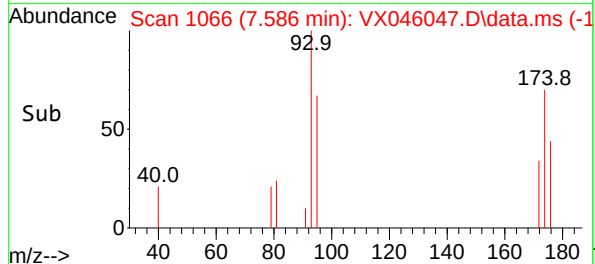
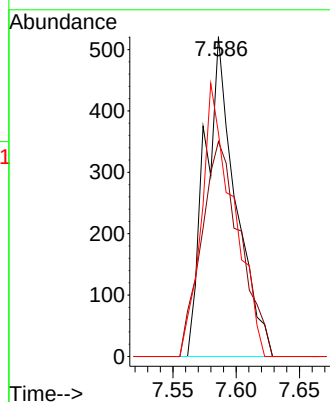
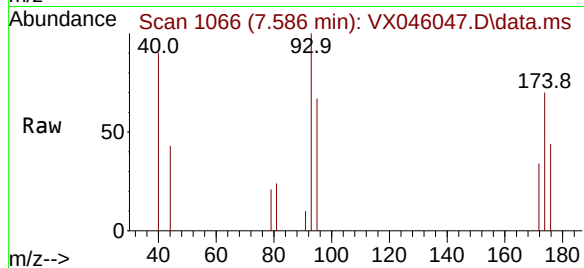
|             |                 |
|-------------|-----------------|
| Tgt Ion: 93 | Resp: 880       |
| Ion Ratio   | Lower Upper     |
| 93          | 100             |
| 95          | 84.5 65.6 98.4  |
| 174         | 88.5 68.2 102.2 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#47

Bromodichloromethane

Concen: 0.633 ug/l

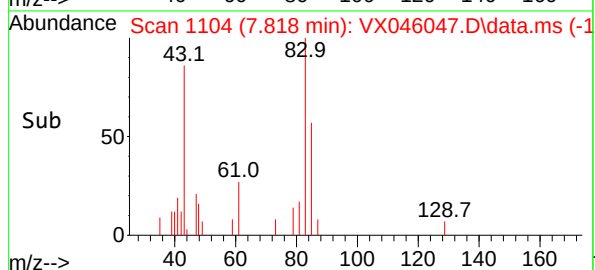
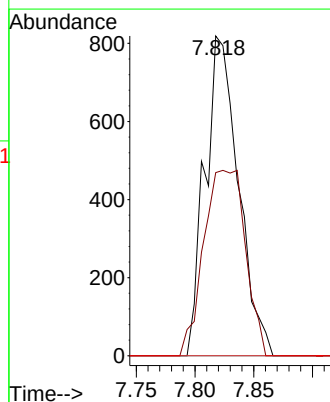
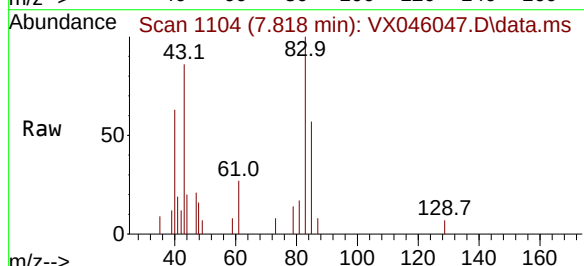
RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

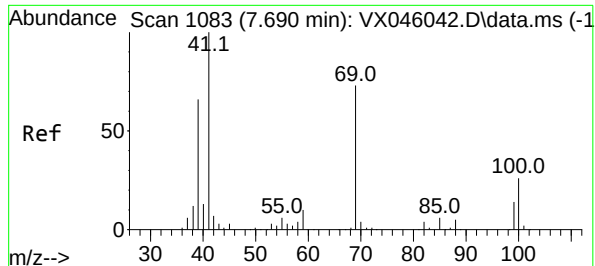
Lab File: VX046047.D

Acq: 05 May 2025 16:27

|             |                |
|-------------|----------------|
| Tgt Ion: 83 | Resp: 1620     |
| Ion Ratio   | Lower Upper    |
| 83          | 100            |
| 85          | 57.3 50.5 75.7 |
| 127         | 0.0 6.5 9.7    |







#48

Methyl methacrylate

Concen: 0.577 ug/l

RT: 7.714 min Scan# 1087

Delta R.T. 0.024 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

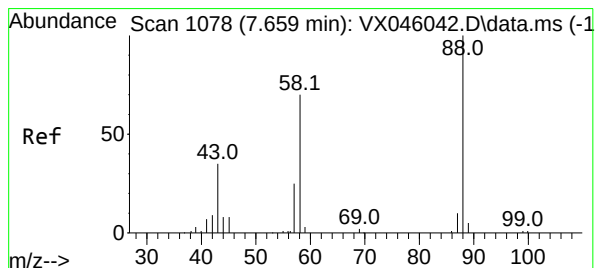
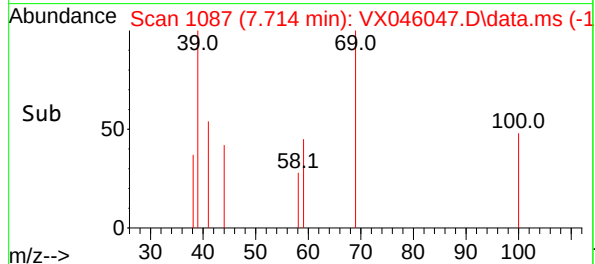
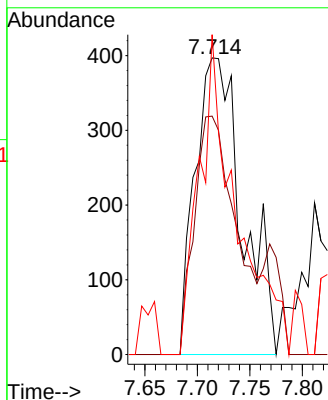
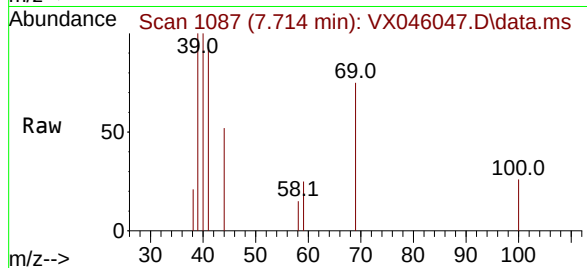
VSTDIC001

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 123   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 70.6     | 58.5 87.7   |
| 39 84.8     | 51.7 77.5   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#49

1,4-Dioxane

Concen: 11.703 ug/l

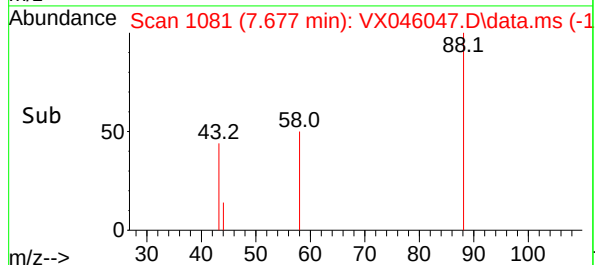
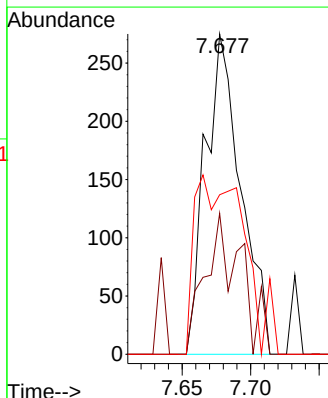
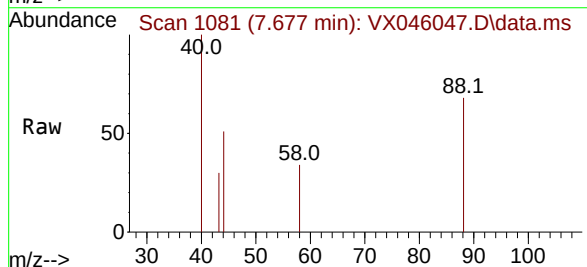
RT: 7.677 min Scan# 1081

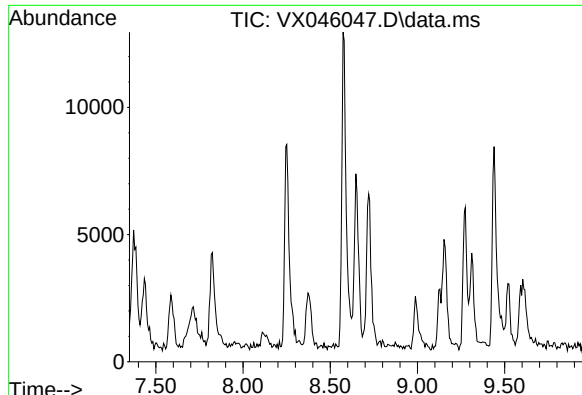
Delta R.T. 0.018 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 498   |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 43 44.4     | 33.4 50.2   |
| 58 30.3     | 58.6 88.0   |





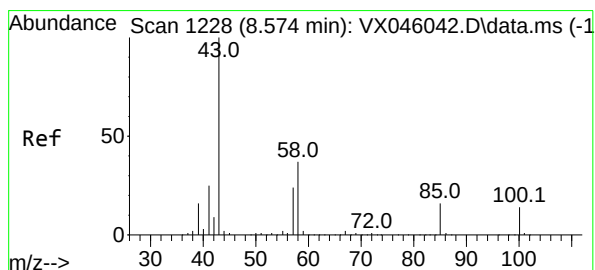
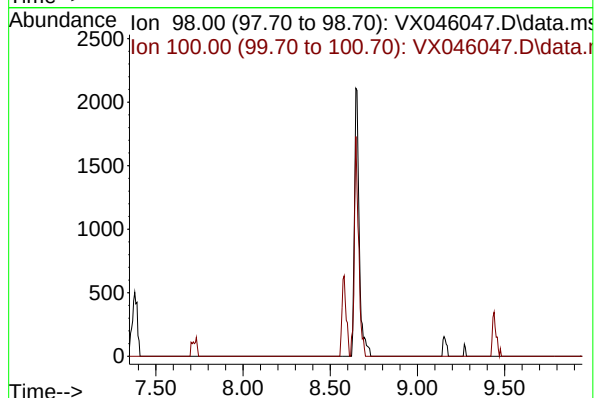
#50  
Toluene-d8  
Concen: 0.000 ug/l  
Expected RT: 8.65 min  
  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

Tgt Ion: 98  
Sig Exp Ratio  
98 100  
100 66.9

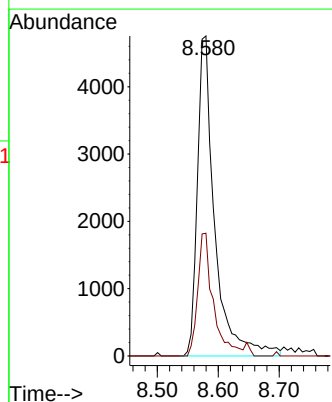
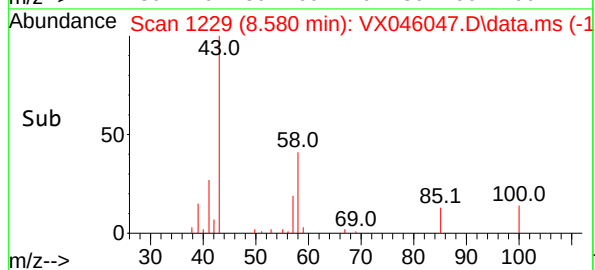
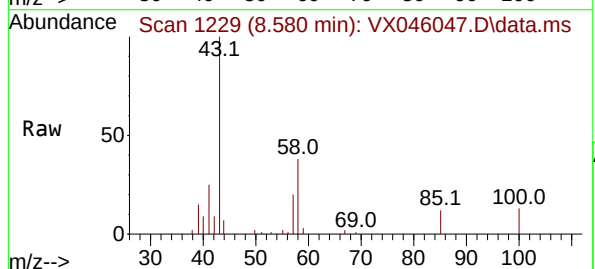
Manual Integrations  
APPROVED

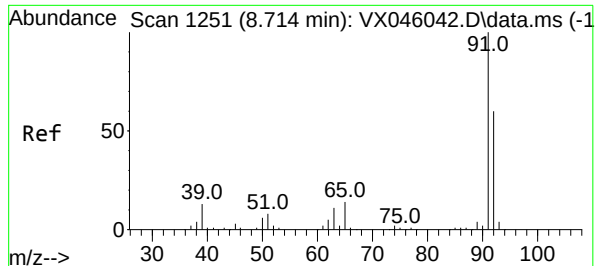
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#51  
4-Methyl-2-Pentanone  
Concen: 3.430 ug/l  
RT: 8.580 min Scan# 1229  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 9378  
Ion Ratio Lower Upper  
43 100  
58 34.4 28.9 43.3





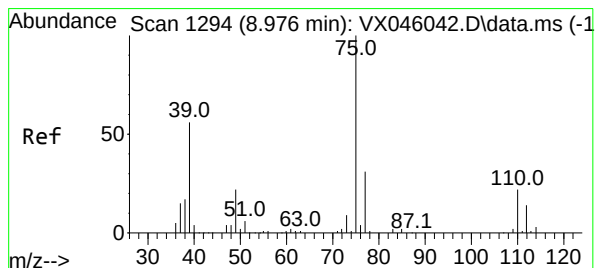
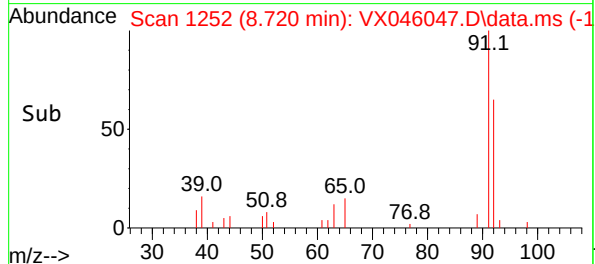
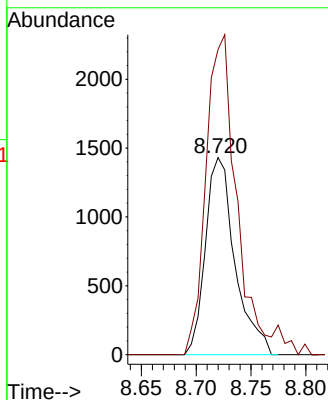
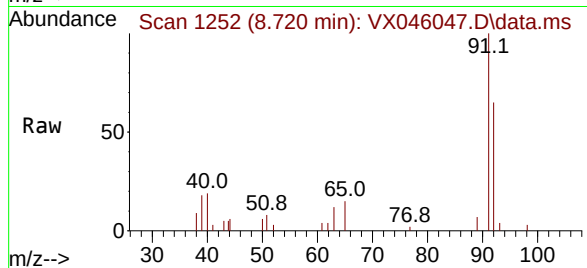
#52  
Toluene  
Concen: 0.672 ug/l  
RT: 8.720 min Scan# 1251  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001

Tgt Ion: 92 Resp: 2684  
Ion Ratio Lower Upper  
92 100  
91 165.7 136.6 205.0

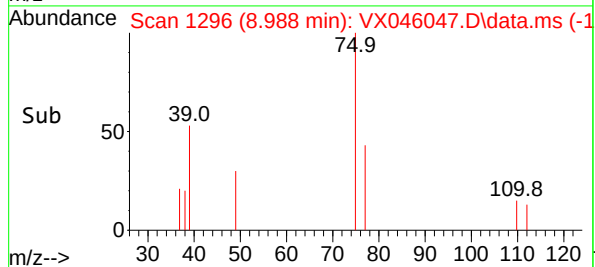
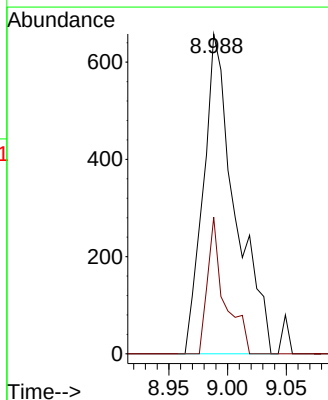
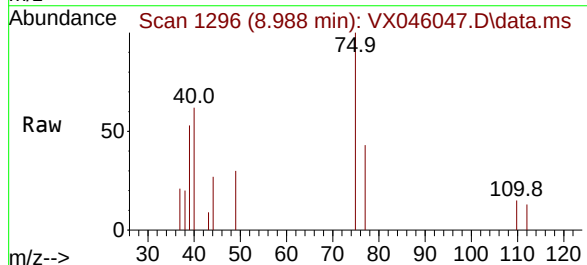
Manual Integrations  
APPROVED

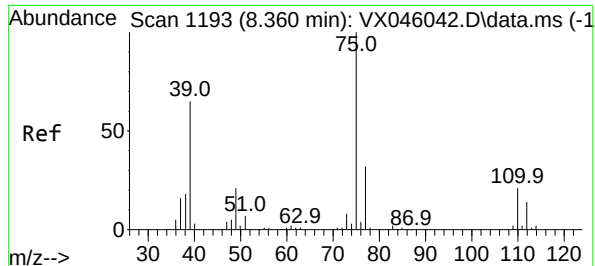
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#53  
t-1,3-Dichloropropene  
Concen: 0.576 ug/l  
RT: 8.988 min Scan# 1296  
Delta R.T. 0.012 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

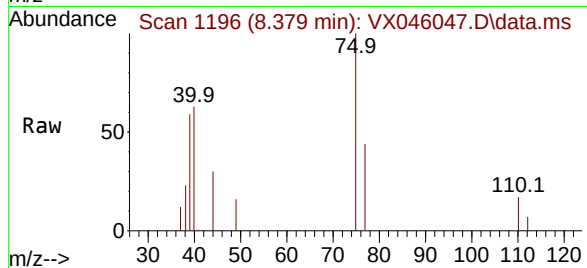
Tgt Ion: 75 Resp: 1238  
Ion Ratio Lower Upper  
75 100  
77 42.7 25.0 37.6#





#54  
cis-1,3-Dichloropropene  
Concen: 0.564 ug/l  
RT: 8.379 min Scan# 1196  
Delta R.T. 0.018 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

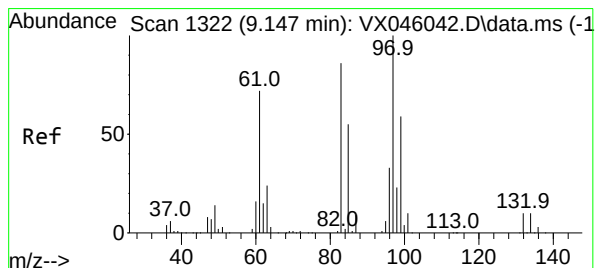
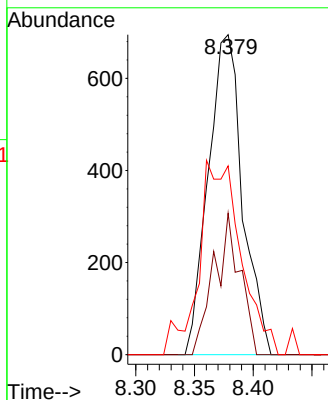
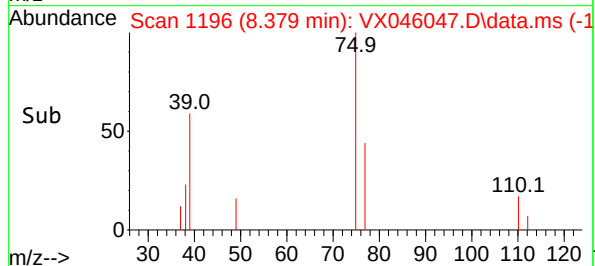
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion: 75 Resp: 1414  
Ion Ratio Lower Upper  
75 100  
77 44.2 25.4 38.0  
39 59.0 52.2 78.4

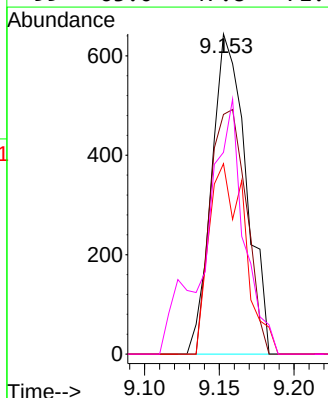
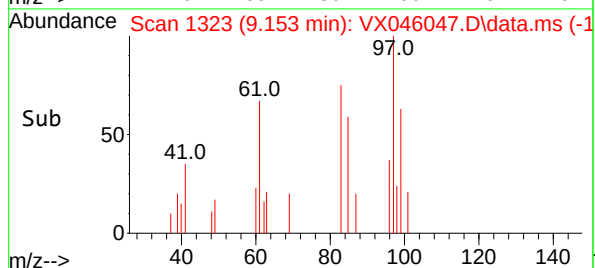
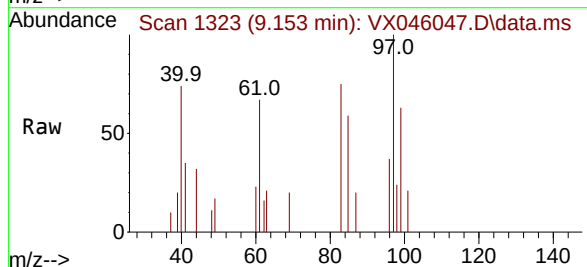
Manual Integrations  
APPROVED

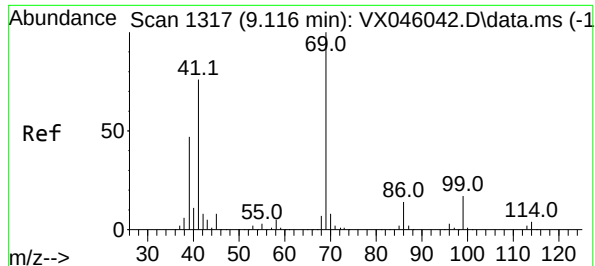
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#55  
1,1,2-Trichloroethane  
Concen: 0.637 ug/l  
RT: 9.153 min Scan# 1323  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 97 Resp: 1029  
Ion Ratio Lower Upper  
97 100  
83 74.8 69.0 103.6  
85 59.5 44.3 66.5  
99 63.0 47.8 71.6





#56

Ethyl methacrylate

Concen: 0.504 ug/l

RT: 9.128 min Scan# 1319

Delta R.T. 0.012 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 69 Resp: 1260

Ion Ratio Lower Upper

69 100

41 86.6 60.8 91.2

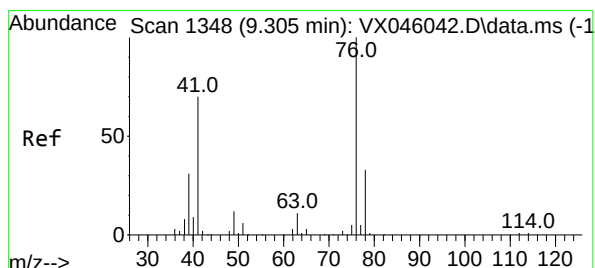
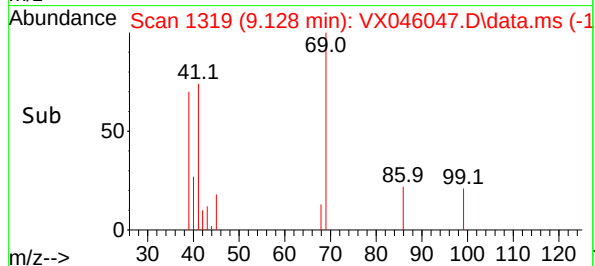
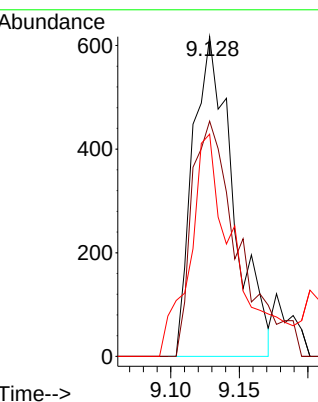
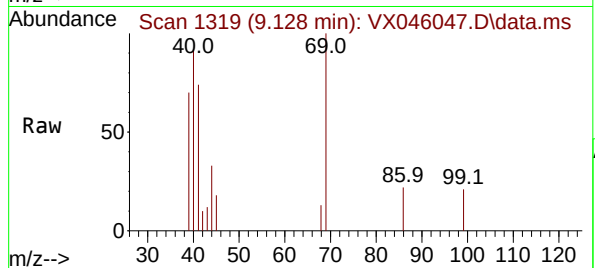
39 78.0 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#57

1,3-Dichloropropane

Concen: 0.711 ug/l

RT: 9.311 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VX046047.D

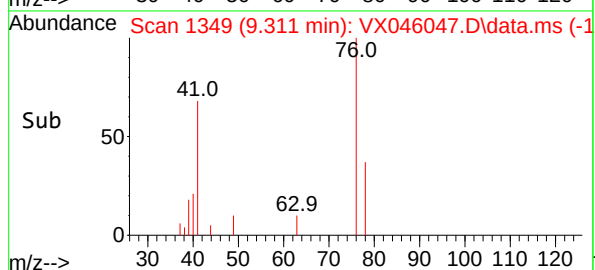
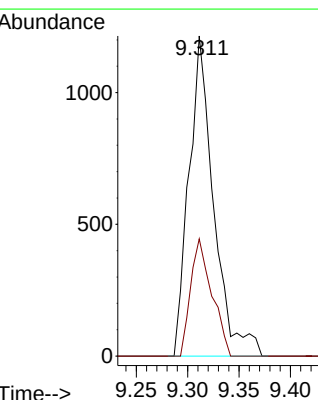
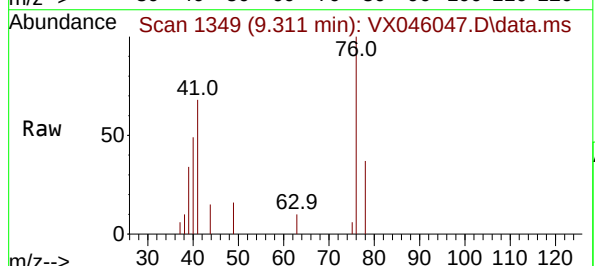
Acq: 05 May 2025 16:27

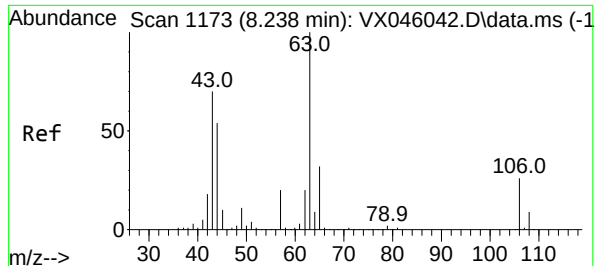
Tgt Ion: 76 Resp: 2036

Ion Ratio Lower Upper

76 100

78 31.4 26.3 39.5





#58

2-Chloroethyl Vinyl ether

Concen: 3.420 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 3840

Ion Ratio Lower Upper

63 100

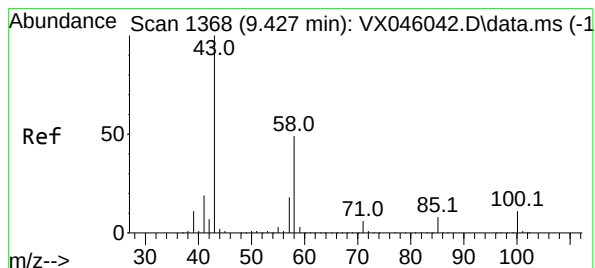
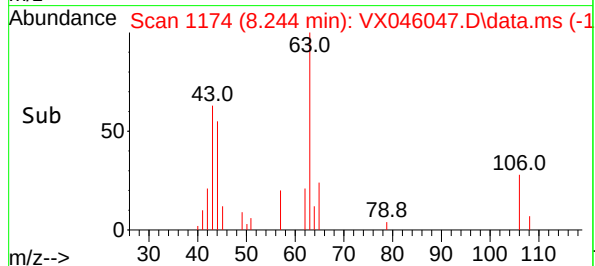
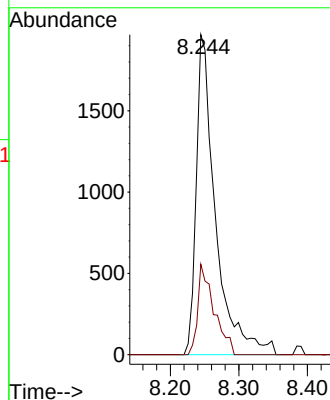
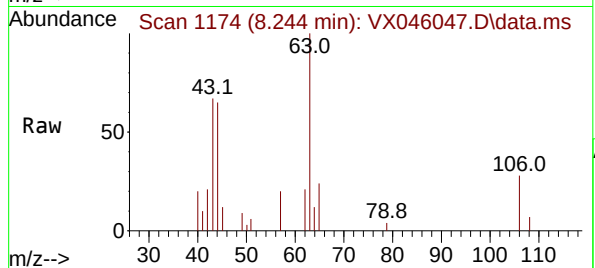
106 24.0 21.5 32.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#59

2-Hexanone

Concen: 3.096 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VX046047.D

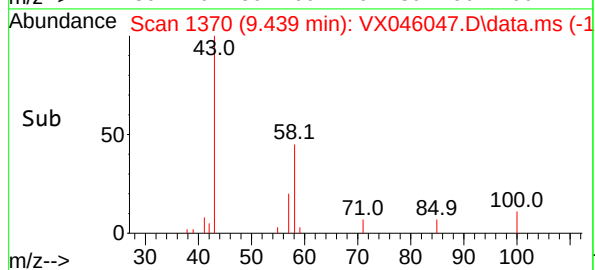
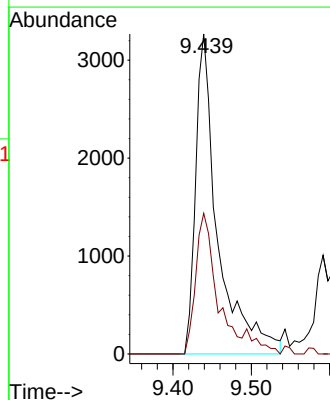
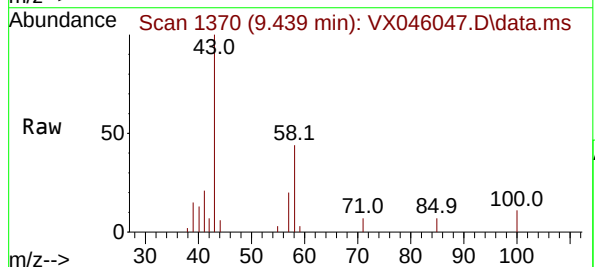
Acq: 05 May 2025 16:27

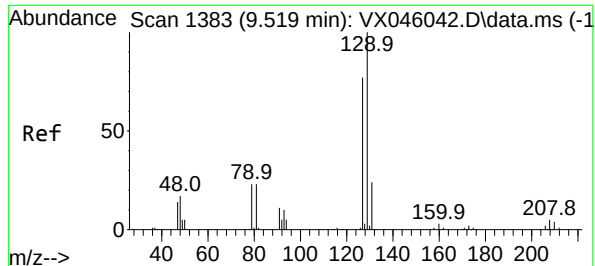
Tgt Ion: 43 Resp: 6424

Ion Ratio Lower Upper

43 100

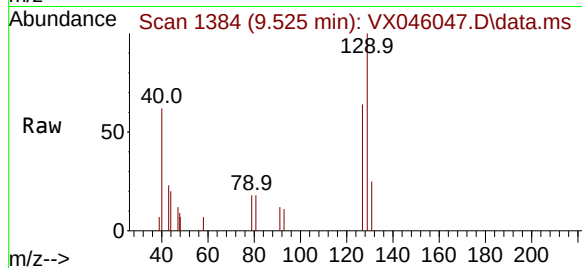
58 41.6 24.9 74.6





#60  
Dibromochloromethane  
Concen: 0.582 ug/l  
RT: 9.525 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

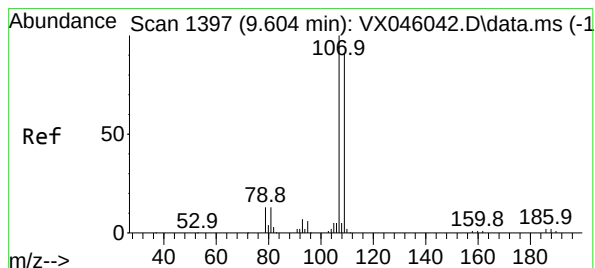
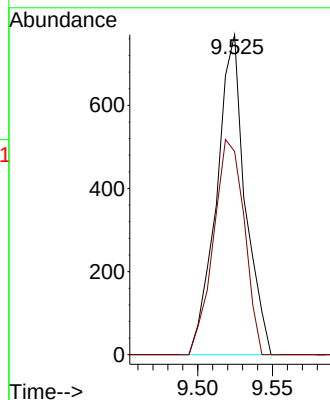
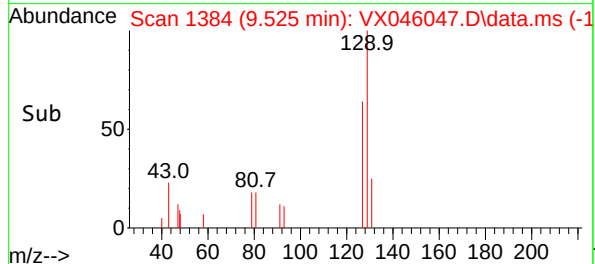
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion:129 Resp: 102  
Ion Ratio Lower Upper  
129 100  
127 72.5 39.3 117.8

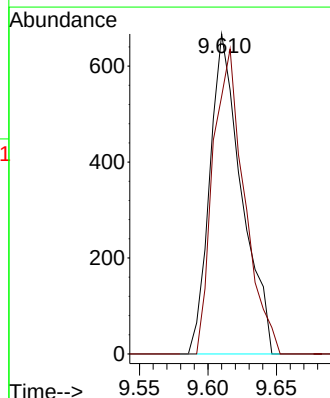
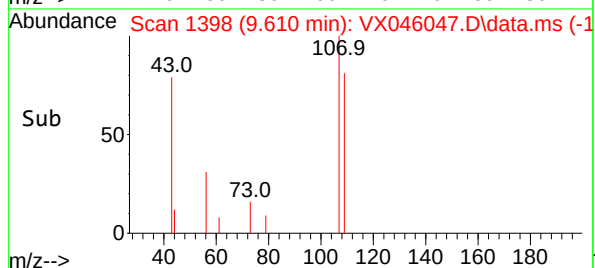
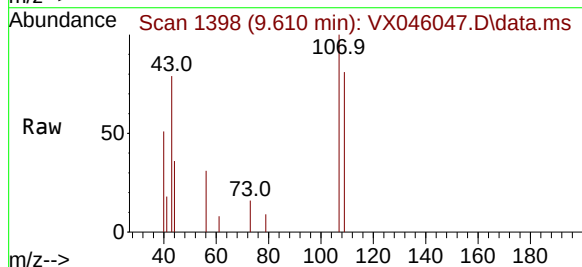
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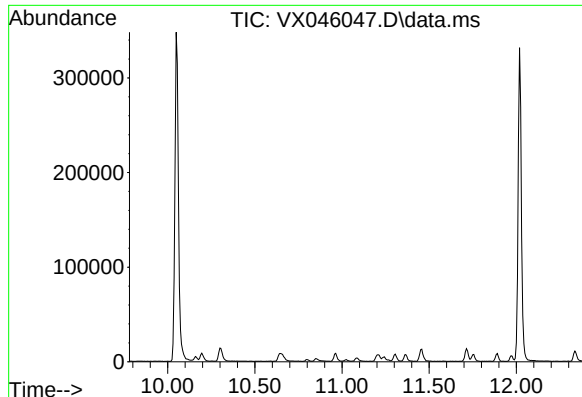
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#61  
1,2-Dibromoethane  
Concen: 0.650 ug/l  
RT: 9.610 min Scan# 1398  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion:107 Resp: 1077  
Ion Ratio Lower Upper  
107 100  
109 94.0 73.3 109.9





#62  
4-Bromofluorobenzene  
Concen: 0.000 ug/l  
Expected RT: 11.08 min

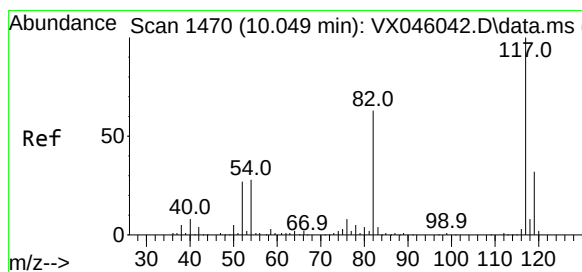
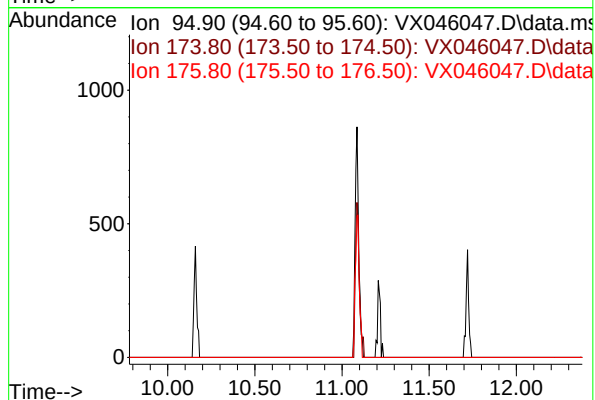
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

Tgt Ion: 95  
Sig Exp Ratio  
95 100  
174 67.9  
176 65.7

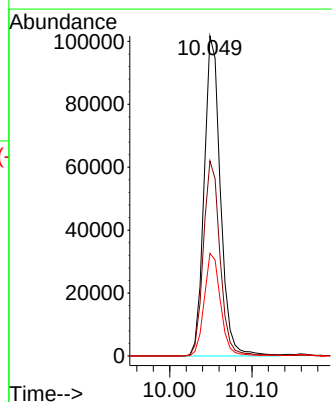
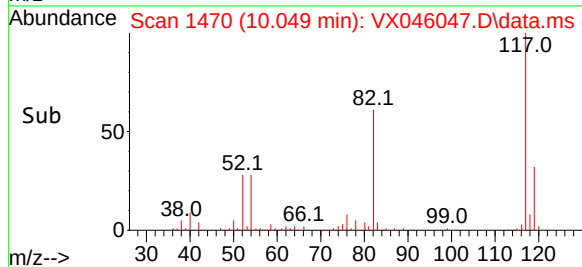
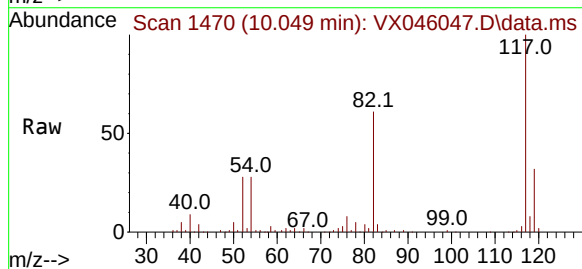
Manual Integrations  
APPROVED

Reviewed By : John Carlone 05/06/2025  
Supervised By : Mahesh Dadoda 05/06/2025

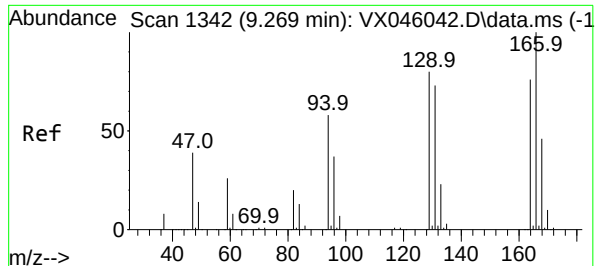


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 117 Resp: 140108  
Ion Ratio Lower Upper  
117 100  
82 61.0 50.6 76.0  
119 32.1 25.8 38.6

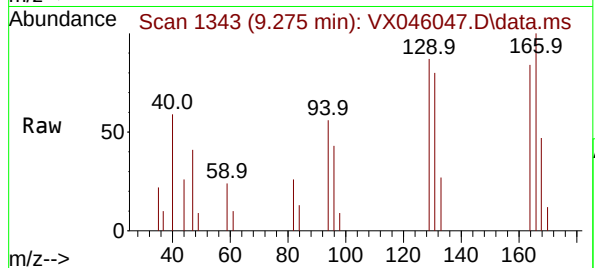






#64  
Tetrachloroethene  
Concen: 0.679 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

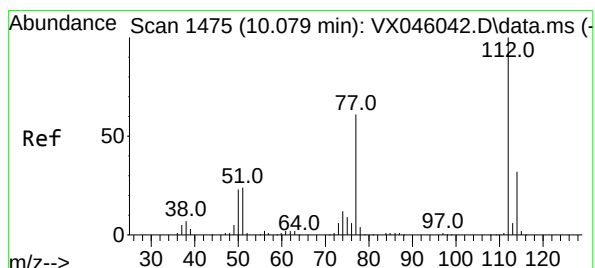
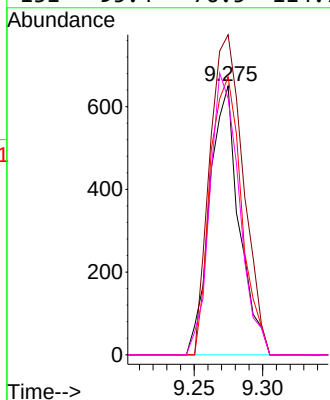
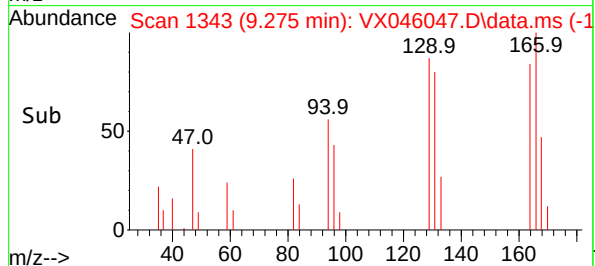
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion:164 Resp: 972  
Ion Ratio Lower Upper  
164 100  
166 119.1 105.0 157.6  
129 103.4 83.5 125.3  
131 95.4 76.5 114.7

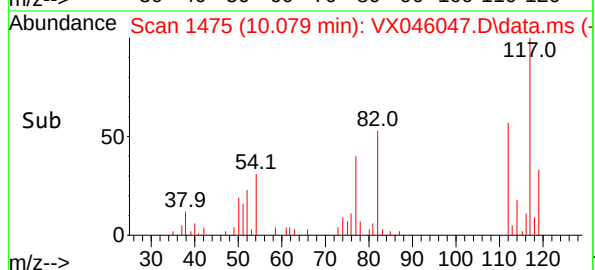
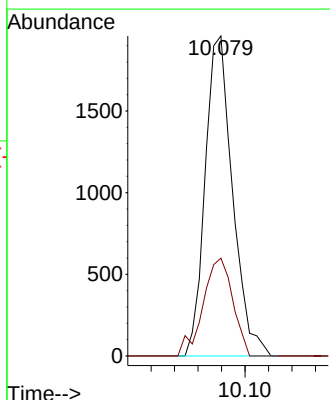
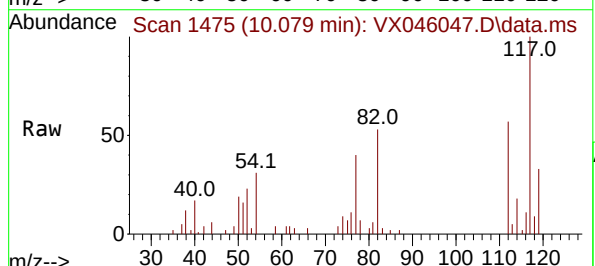
Manual Integrations  
APPROVED

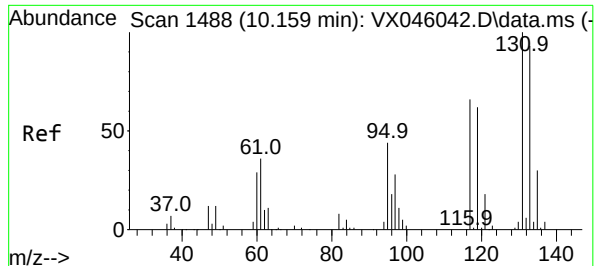
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#65  
Chlorobenzene  
Concen: 0.735 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

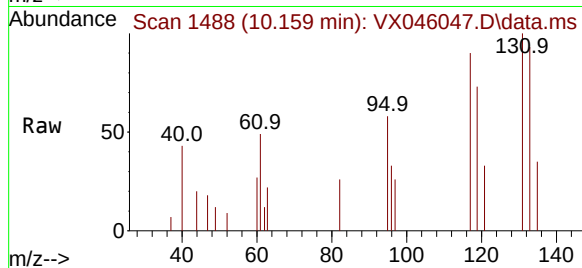
Tgt Ion:112 Resp: 3170  
Ion Ratio Lower Upper  
112 100  
114 30.6 25.4 38.2





#66  
1,1,1,2-Tetrachloroethane  
Concen: 0.720 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

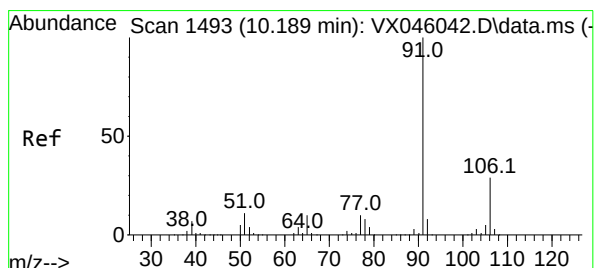
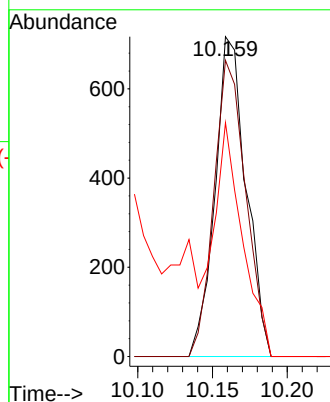
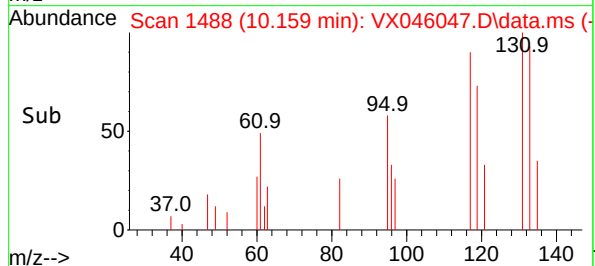
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion:131 Resp: 1035  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.3 141.9  
119 0.0 31.6 95.0

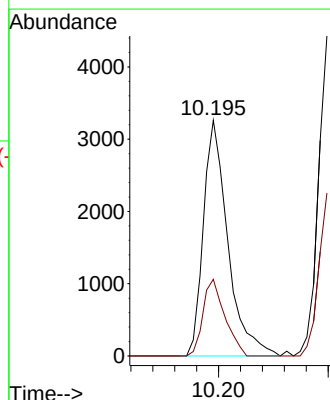
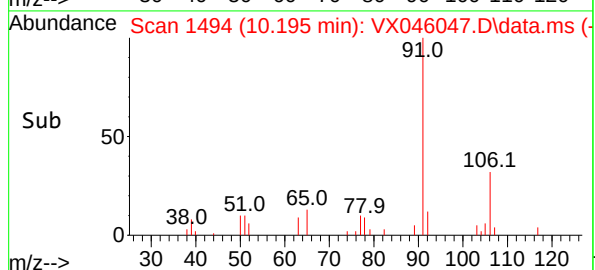
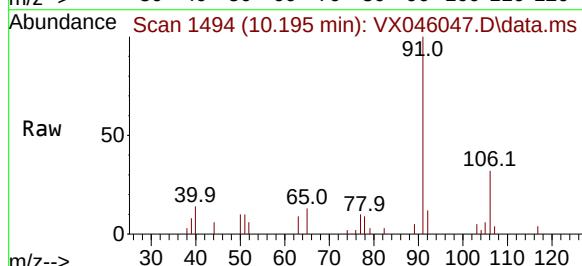
Manual Integrations  
APPROVED

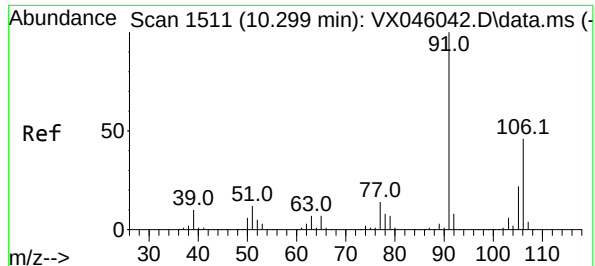
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#67  
Ethyl Benzene  
Concen: 0.687 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 5052  
Ion Ratio Lower Upper  
91 100  
106 32.5 23.4 35.2





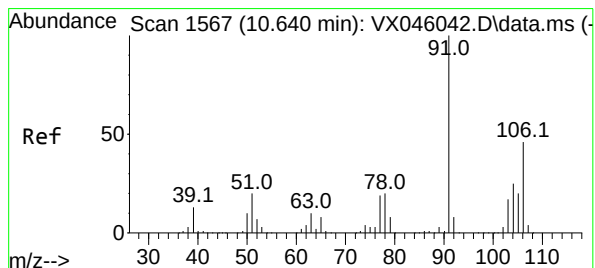
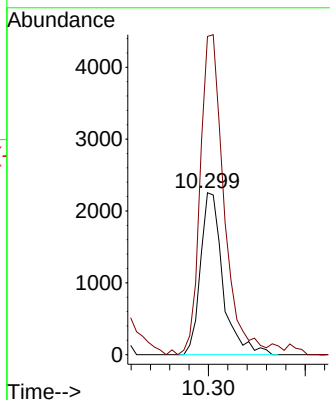
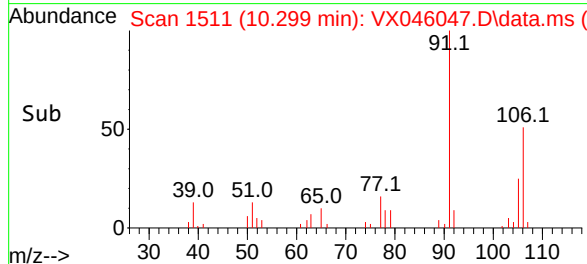
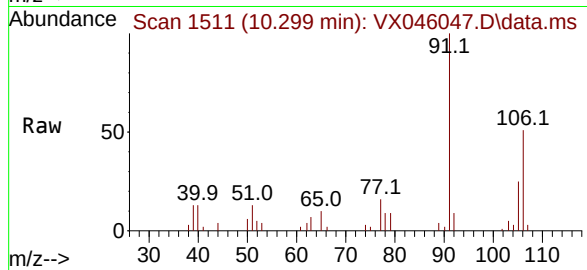
#68  
m/p-Xylenes  
Concen: 1.367 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001

Tgt Ion:106 Resp: 3630  
Ion Ratio Lower Upper  
106 100  
91 209.8 171.2 256.8

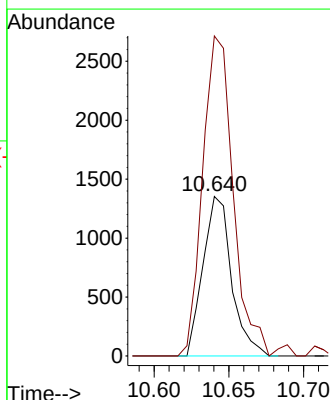
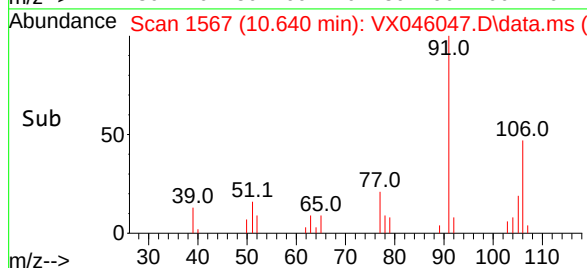
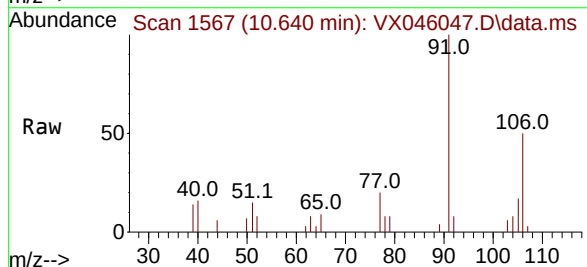
Manual Integrations  
APPROVED

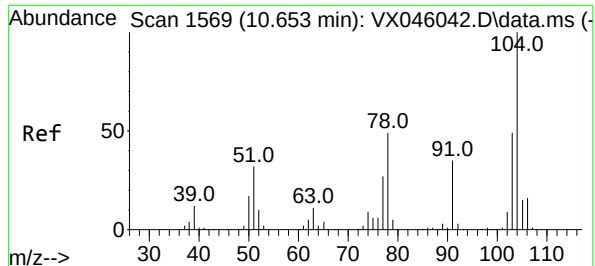
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#69  
o-Xylene  
Concen: 0.672 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

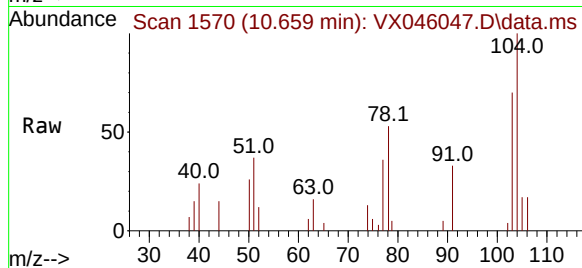
Tgt Ion:106 Resp: 1799  
Ion Ratio Lower Upper  
106 100  
91 214.9 112.7 338.1





#70  
Styrene  
Concen: 0.622 ug/l  
RT: 10.659 min Scan# 1569  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

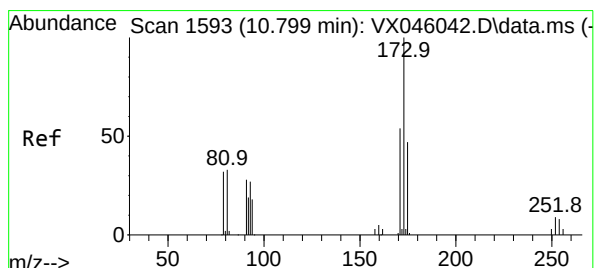
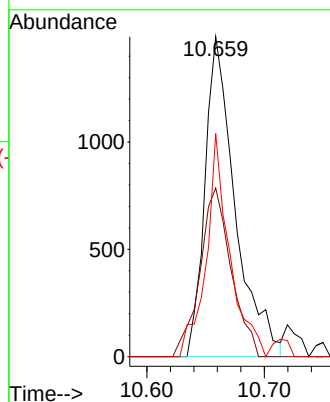
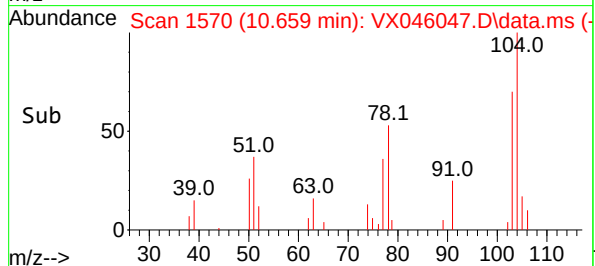
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion:104 Resp: 2664  
Ion Ratio Lower Upper  
104 100  
78 54.3 45.7 68.5  
103 53.9 43.7 65.5

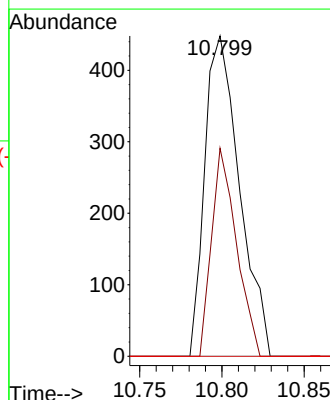
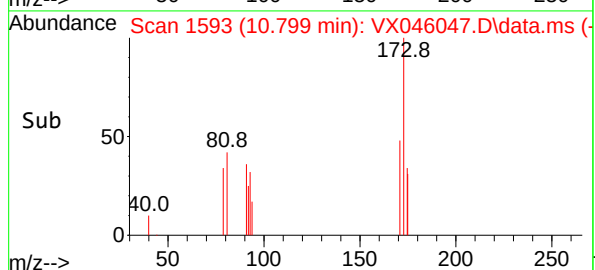
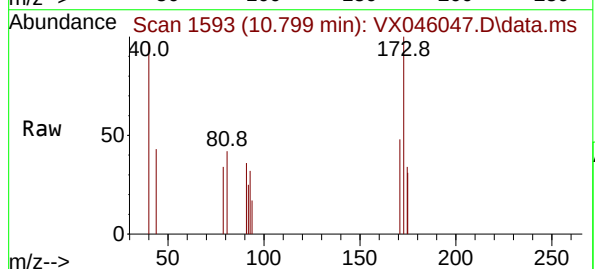
Manual Integrations  
APPROVED

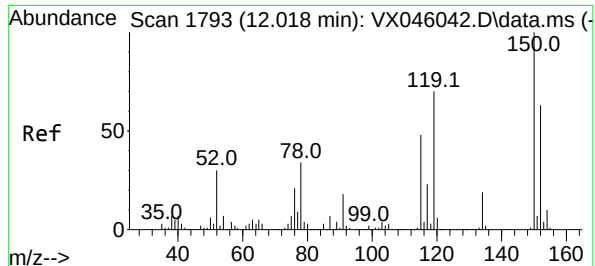
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#71  
Bromoform  
Concen: 0.608 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

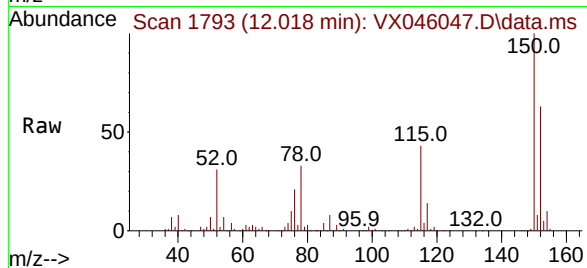
Tgt Ion:173 Resp: 657  
Ion Ratio Lower Upper  
173 100  
175 46.6 23.4 70.0  
254 0.0 0.0 0.0





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

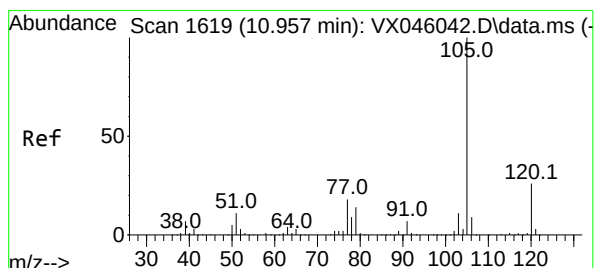
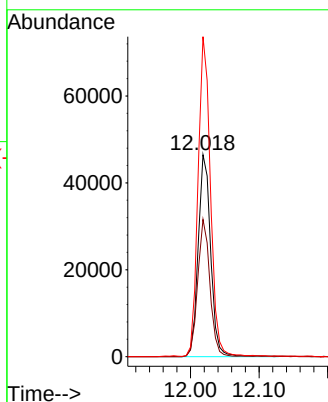
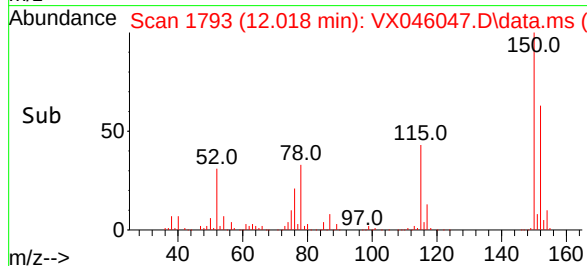
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001



Tgt Ion:152 Resp: 5912  
Ion Ratio Lower Upper  
152 100  
115 66.6 46.9 140.7  
150 156.3 0.0 351.0

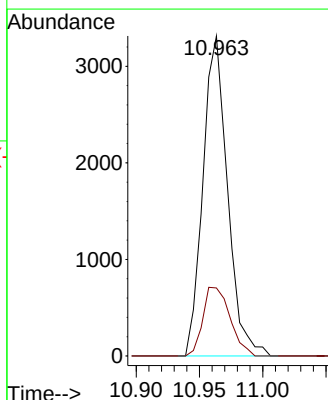
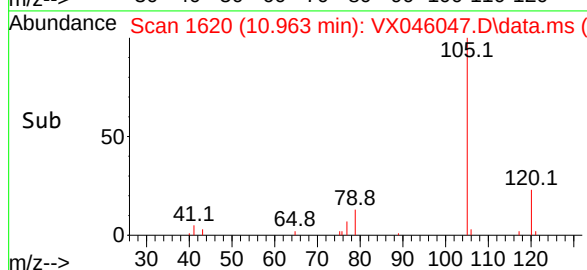
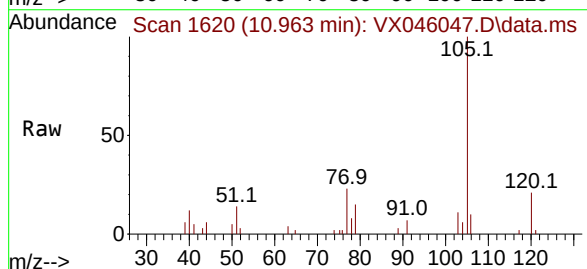
Manual Integrations  
APPROVED

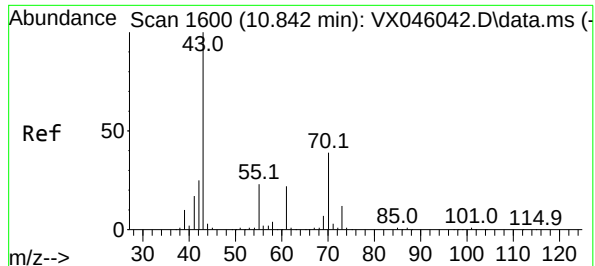
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#73  
Isopropylbenzene  
Concen: 0.695 ug/l  
RT: 10.963 min Scan# 1620  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

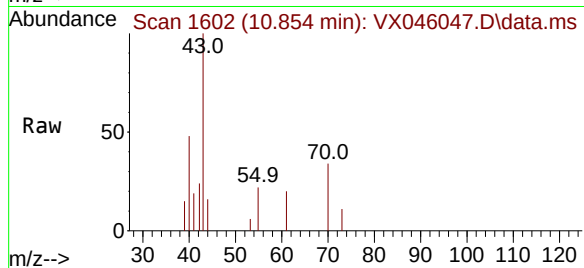
Tgt Ion:105 Resp: 4480  
Ion Ratio Lower Upper  
105 100  
120 23.7 12.8 38.4





#74  
N-amy1 acetate  
Concen: 0.631 ug/l  
RT: 10.854 min Scan# 1602  
Delta R.T. 0.012 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

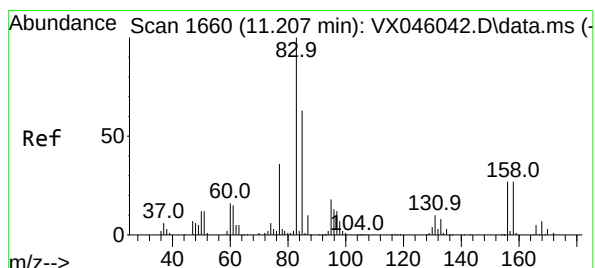
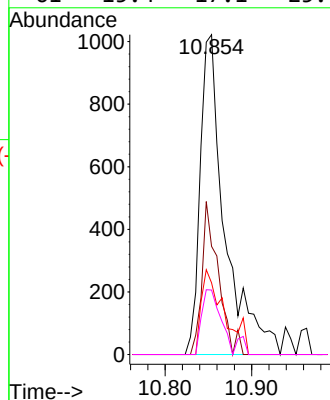
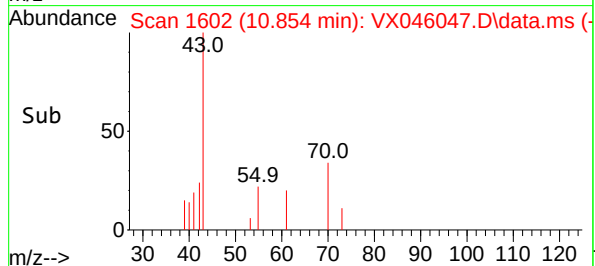
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion: 43 Resp: 2028  
Ion Ratio Lower Upper  
43 100  
70 31.5 30.9 46.3  
55 24.5 18.7 28.1  
61 15.4 17.1 25.7#

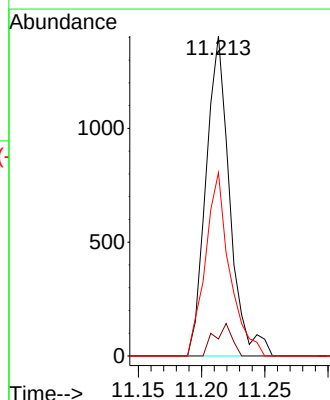
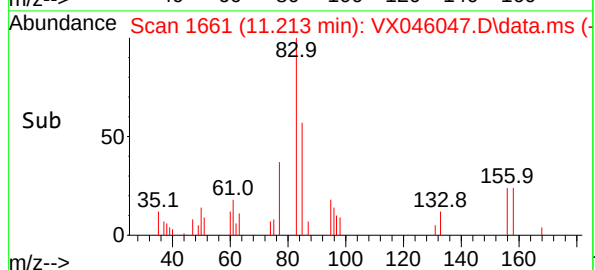
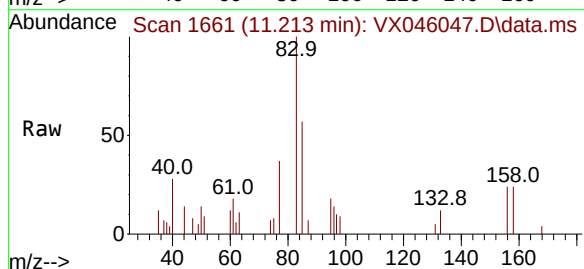
Manual Integrations  
APPROVED

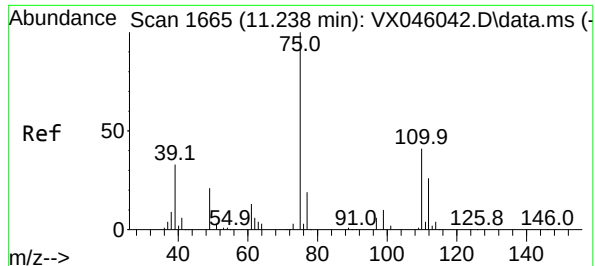
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#75  
1,1,2,2-Tetrachloroethane  
Concen: 0.800 ug/l  
RT: 11.213 min Scan# 1661  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 1835  
Ion Ratio Lower Upper  
83 100  
131 7.5 5.0 14.9  
85 58.7 31.9 95.7





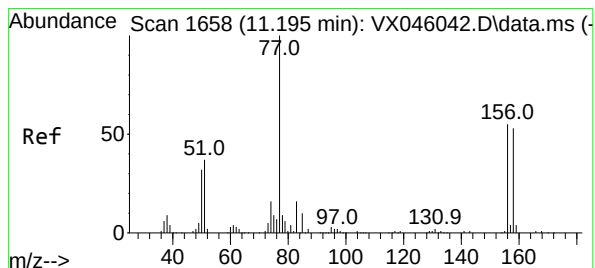
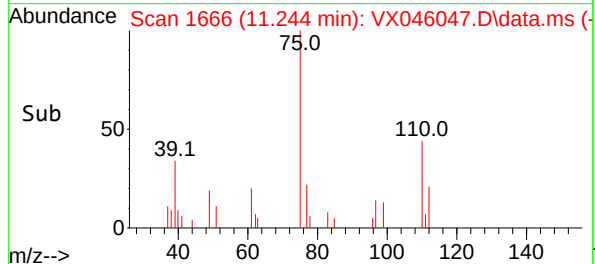
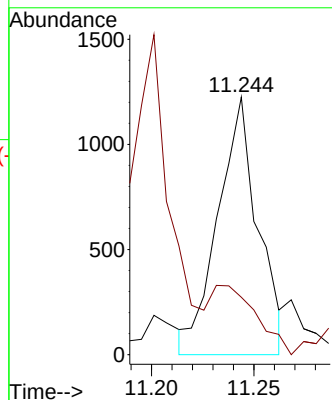
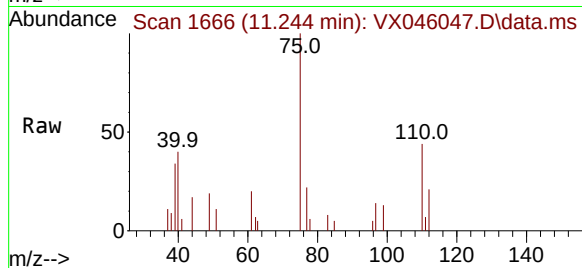
#76  
1,2,3-Trichloropropane  
Concen: 0.674 ug/l m  
RT: 11.244 min Scan# 1665  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

Tgt Ion: 75 Resp: 166  
Ion Ratio Lower Upper  
75 100  
77 29.7 20.5 61.5

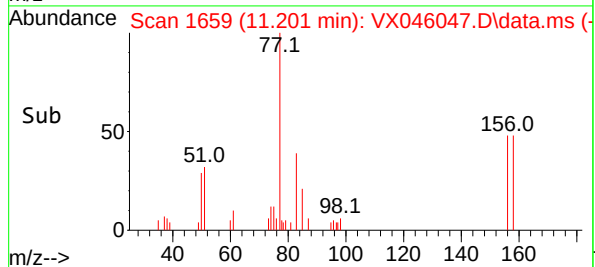
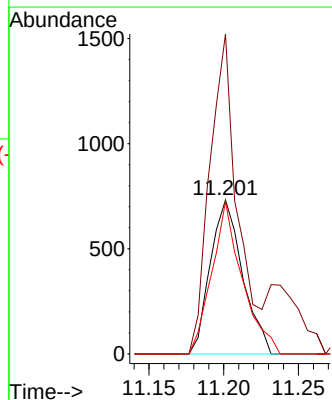
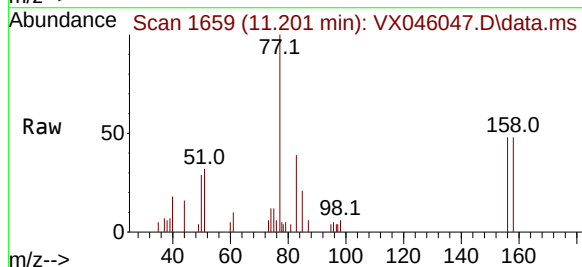
Manual Integrations  
APPROVED

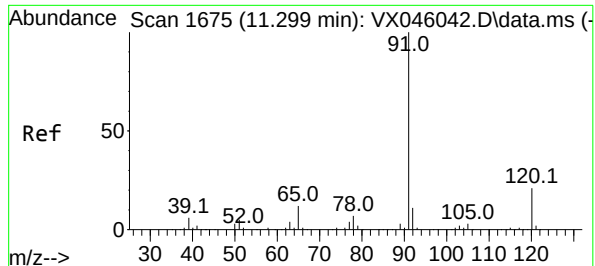
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#77  
Bromobenzene  
Concen: 0.734 ug/l  
RT: 11.201 min Scan# 1659  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion:156 Resp: 1095  
Ion Ratio Lower Upper  
156 100  
77 179.5 92.8 278.3  
158 93.5 48.8 146.3





#78

n-propylbenzene

Concen: 0.699 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 5052

Ion Ratio Lower Upper

91 100

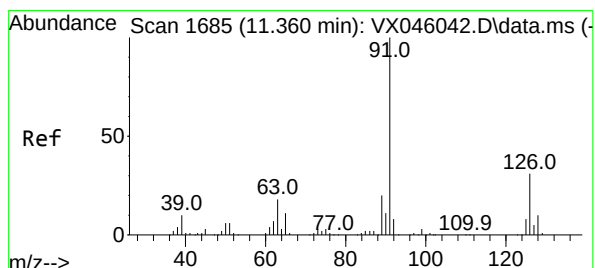
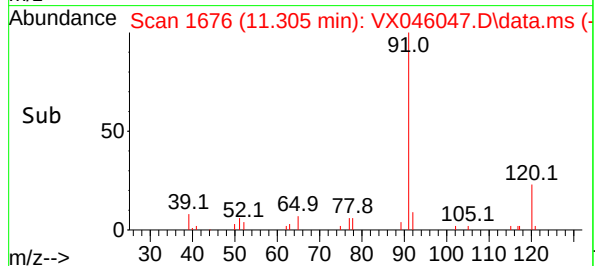
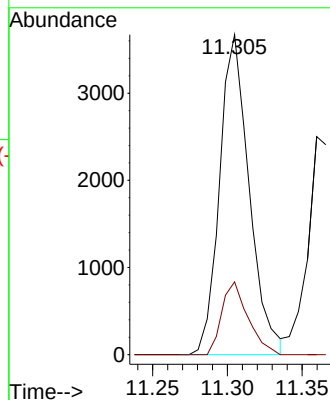
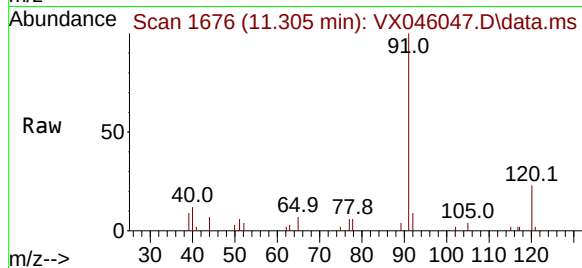
120 20.1 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#79

2-Chlorotoluene

Concen: 0.773 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX046047.D

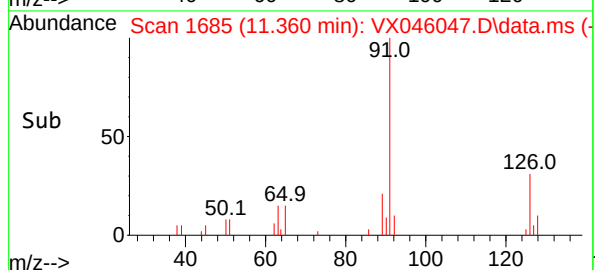
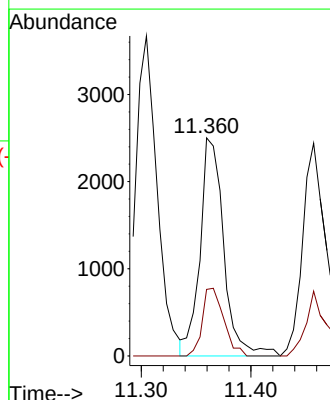
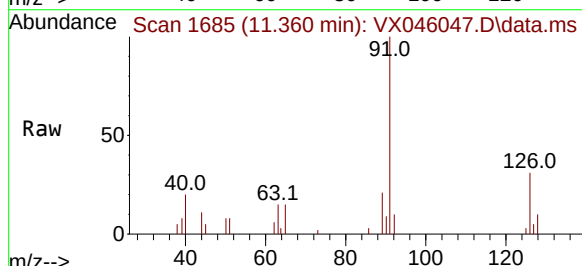
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 3765

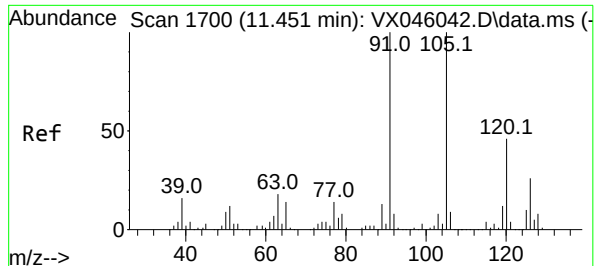
Ion Ratio Lower Upper

91 100

126 28.0 15.6 46.7







#80

1,3,5-Trimethylbenzene

Concen: 0.671 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 3590

Ion Ratio Lower Upper

105 100

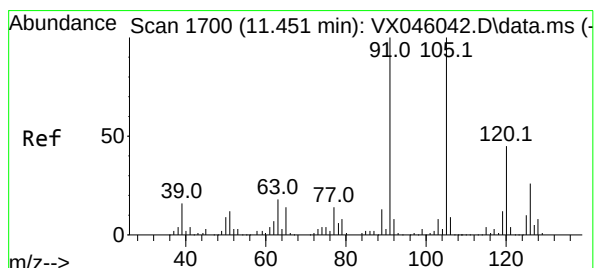
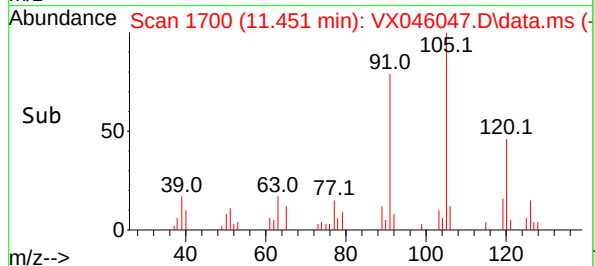
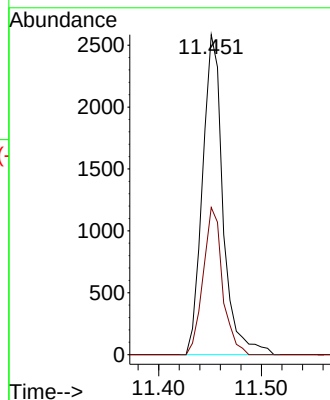
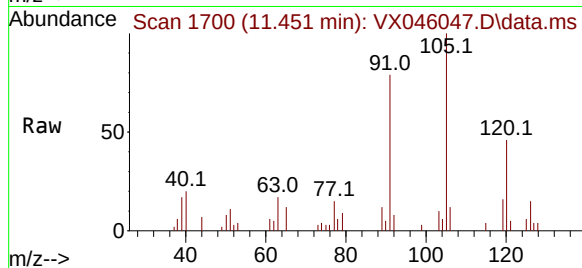
120 43.4 23.1 69.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#82

4-Chlorotoluene

Concen: 0.713 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX046047.D

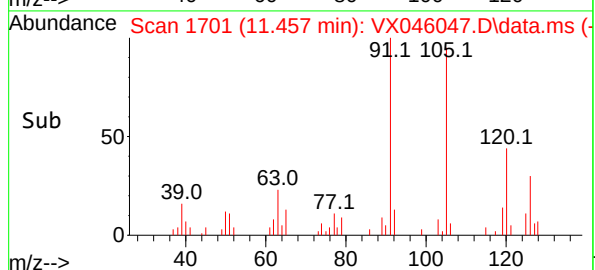
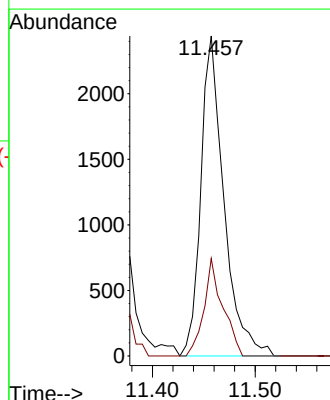
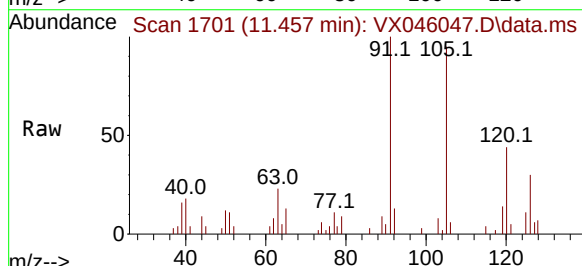
Acq: 05 May 2025 16:27

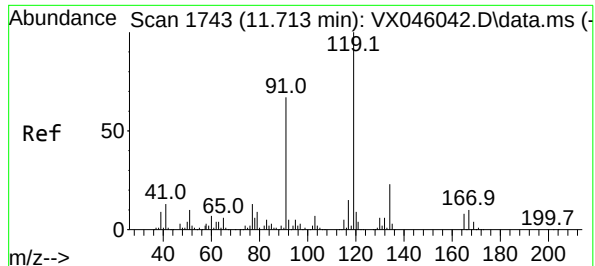
Tgt Ion: 91 Resp: 3815

Ion Ratio Lower Upper

91 100

126 24.8 13.3 39.8





#83

tert-Butylbenzene

Concen: 0.751 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

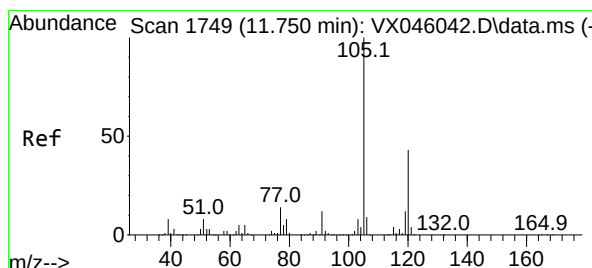
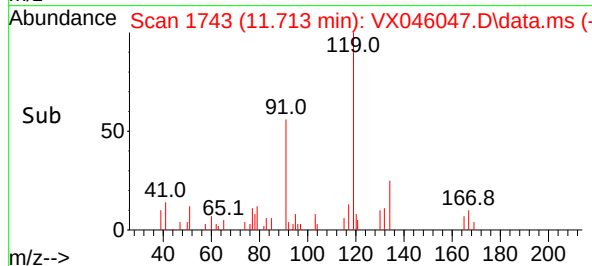
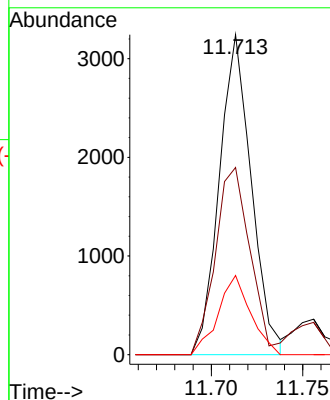
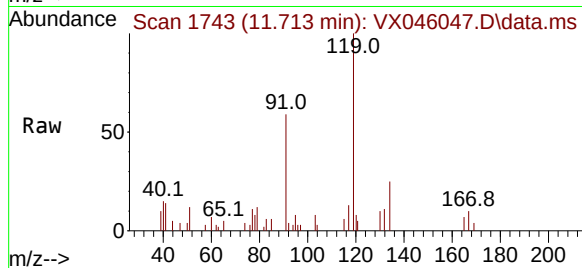
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 395   |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 63.9  | 32.9  | 98.7  |
| 134      | 25.2  | 11.4  | 34.1  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.697 ug/l

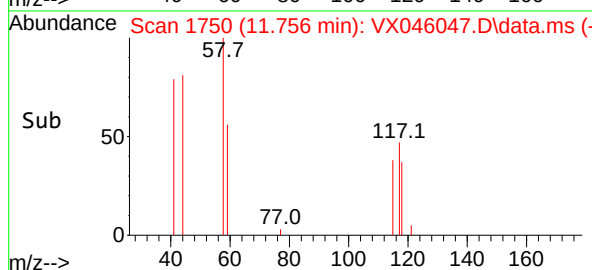
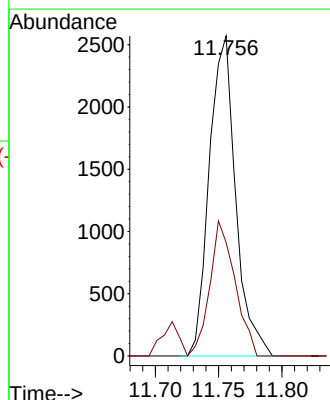
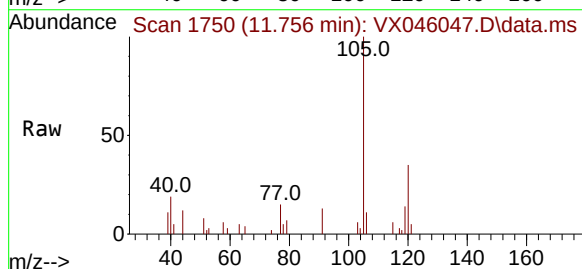
RT: 11.756 min Scan# 1750

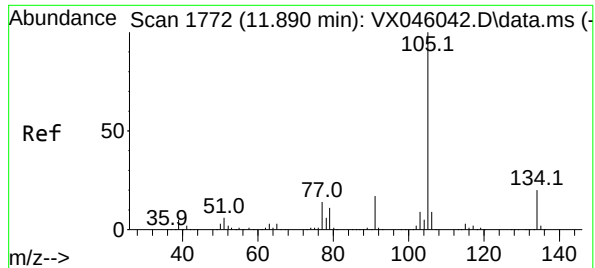
Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 3725  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 40.3  | 21.2  | 63.6  |





#85

sec-Butylbenzene

Concen: 0.672 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 438

Ion Ratio Lower Upper

105 100

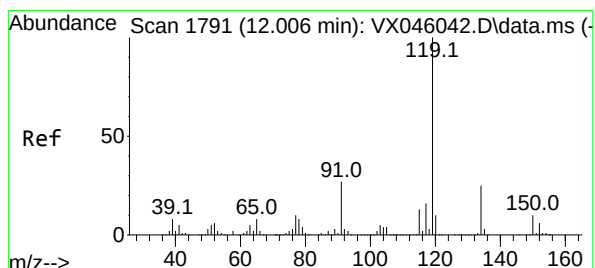
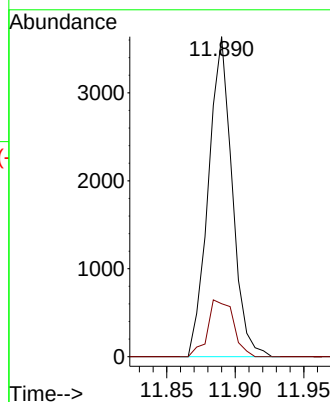
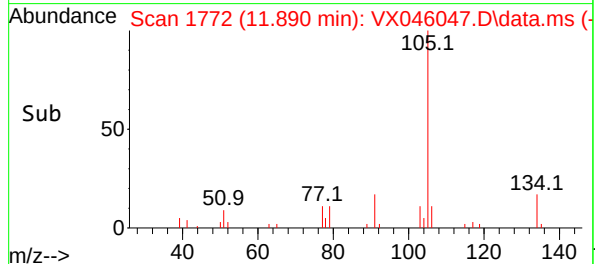
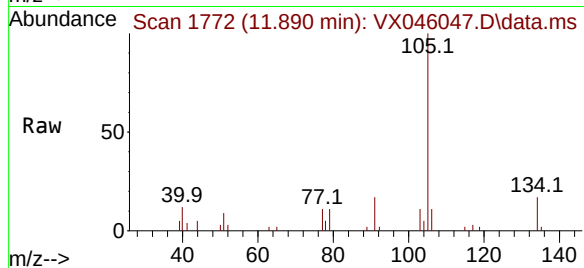
134 19.2 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#86

p-Isopropyltoluene

Concen: 0.679 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

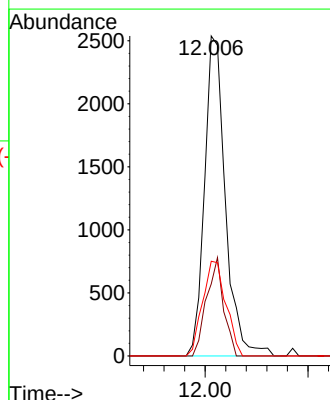
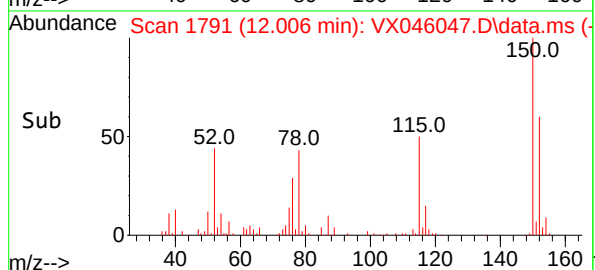
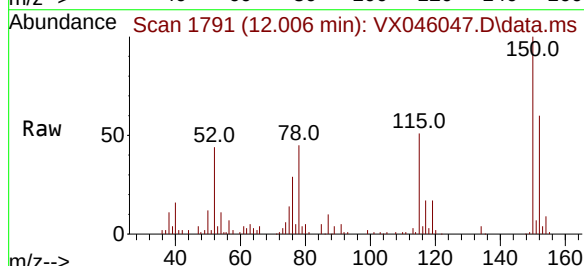
Tgt Ion:119 Resp: 3577

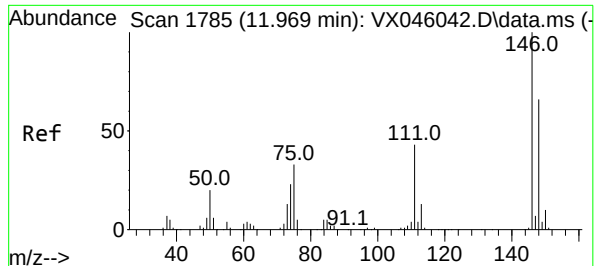
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 33.1 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 0.689 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

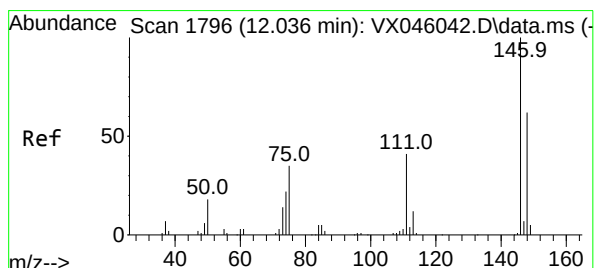
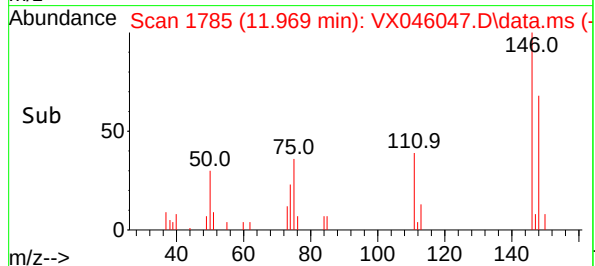
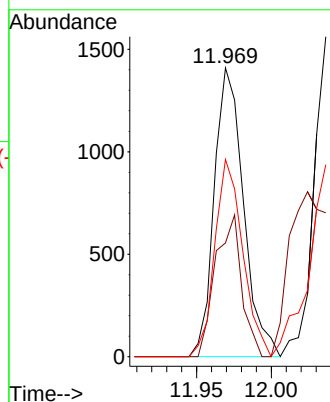
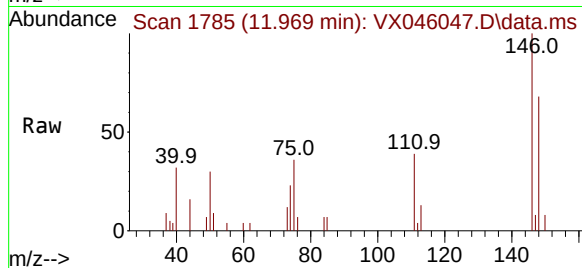
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 1914      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 43.9  | 22.1 66.3 |
| 148         | 65.3  | 32.1 96.5 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#88

1,4-Dichlorobenzene

Concen: 0.789 ug/l m

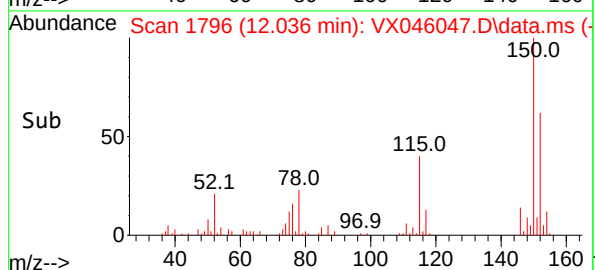
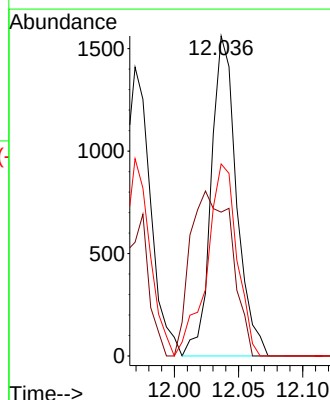
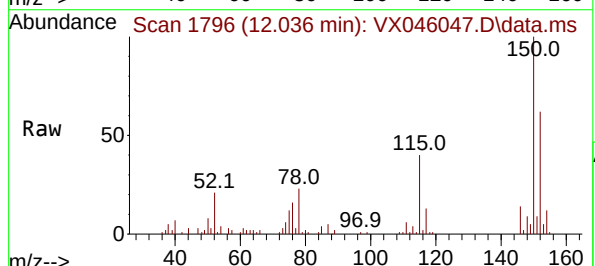
RT: 12.036 min Scan# 1796

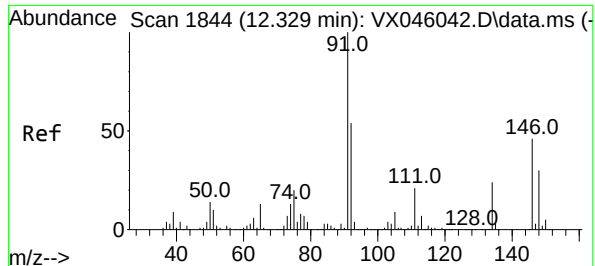
Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 2149      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 39.1  | 21.3 63.9 |
| 148         | 58.2  | 31.9 95.5 |





#89

n-Butylbenzene

Concen: 0.631 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC001

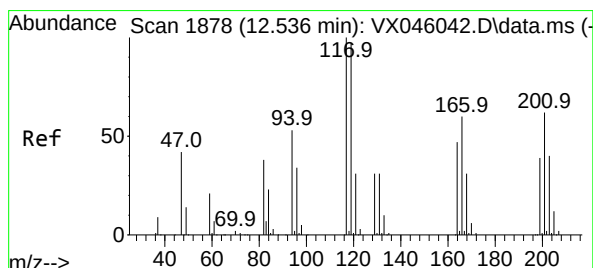
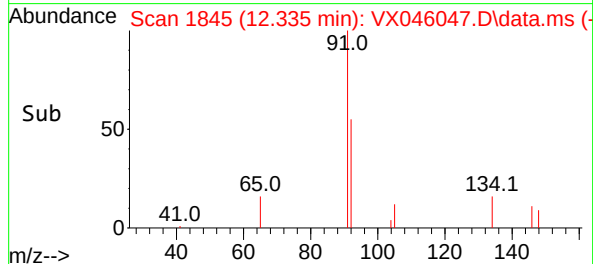
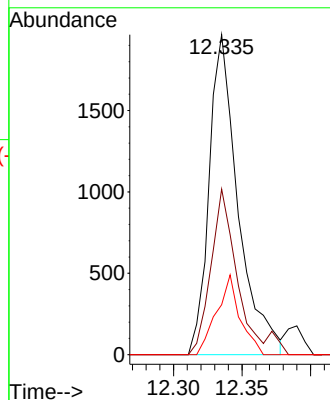
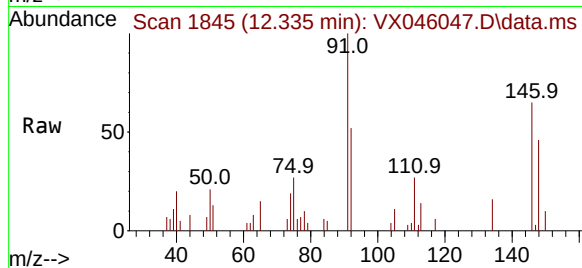
| Tgt Ion: | 91    | Resp: | 288   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 48.1  | 26.9  | 80.7  |
| 134      | 20.1  | 11.8  | 35.3  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 0.616 ug/l

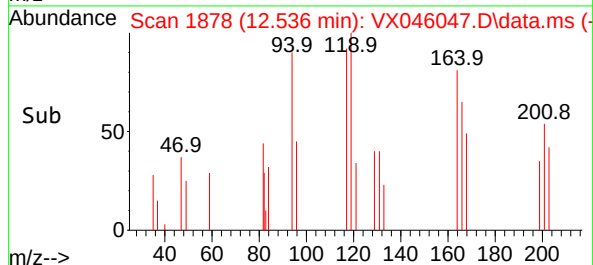
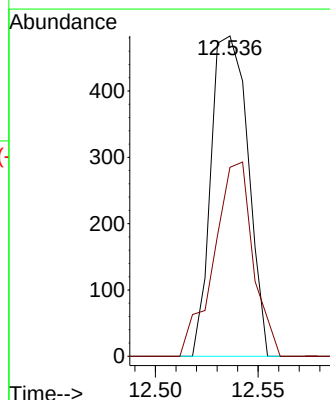
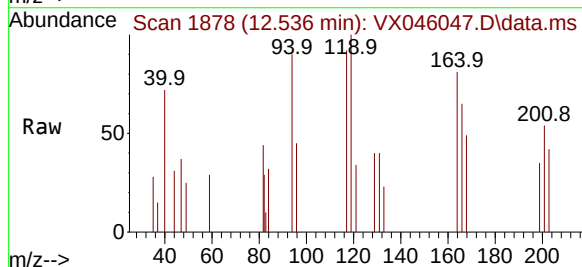
RT: 12.536 min Scan# 1878

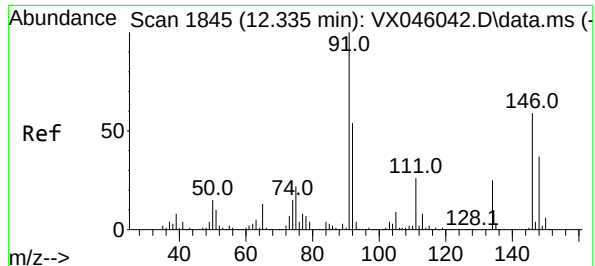
Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

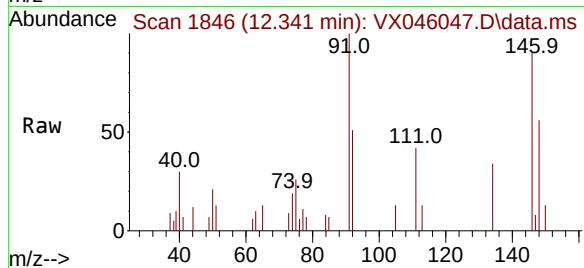
| Tgt Ion: | 117   | Resp: | 604   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 64.2  | 31.6  | 94.7  |





#91  
1,2-Dichlorobenzene  
Concen: 0.747 ug/l  
RT: 12.341 min Scan# 1846  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

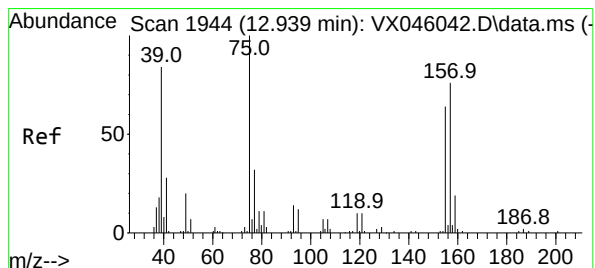
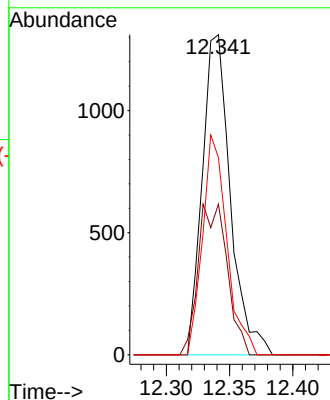
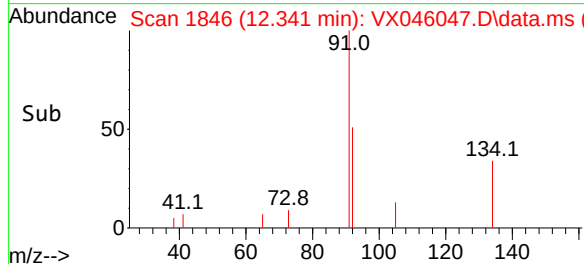
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001



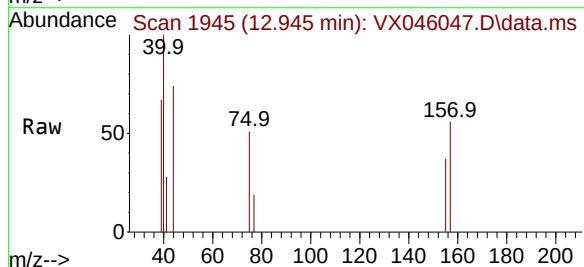
Tgt Ion:146 Resp: 202  
Ion Ratio Lower Upper  
146 100  
111 48.8 22.4 67.3  
148 59.4 31.6 94.8

Manual Integrations  
APPROVED

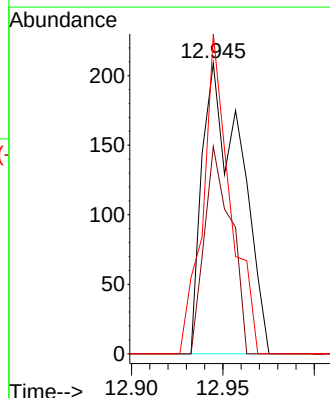
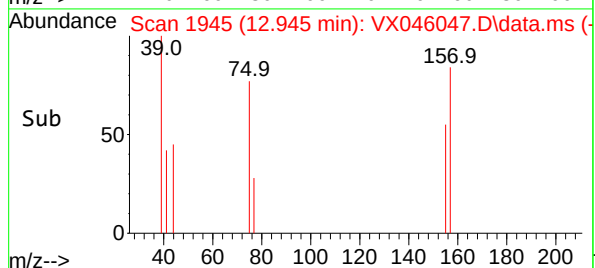
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

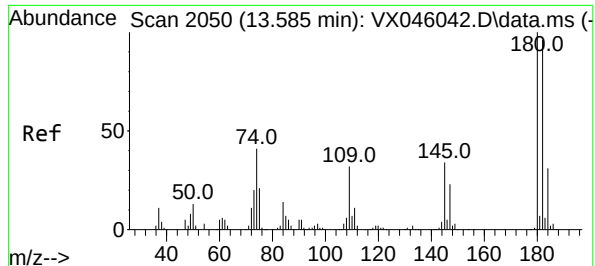


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.586 ug/l  
RT: 12.945 min Scan# 1945  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27



Tgt Ion: 75 Resp: 306  
Ion Ratio Lower Upper  
75 100  
155 49.3 34.9 104.8  
157 78.1 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 0.688 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC001

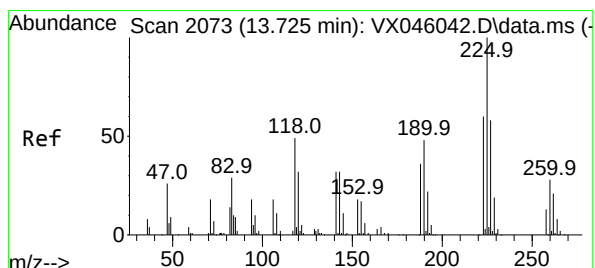
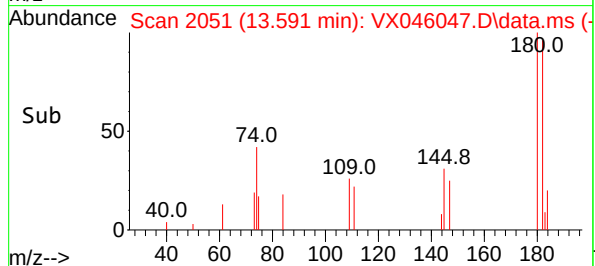
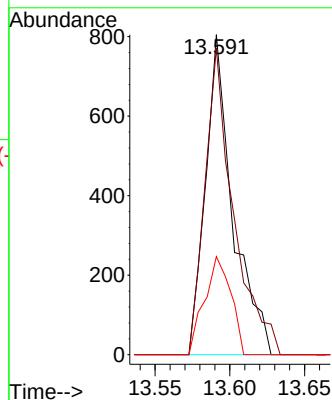
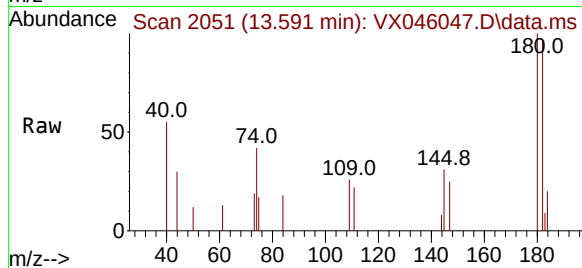
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1019       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 100.6 | 47.9 143.8 |
| 145         | 29.5  | 17.1 51.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#94

Hexachlorobutadiene

Concen: 0.671 ug/l

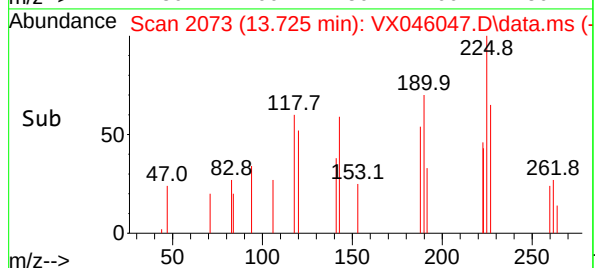
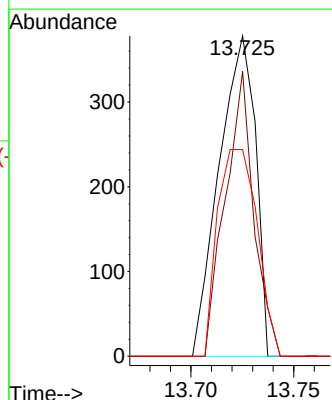
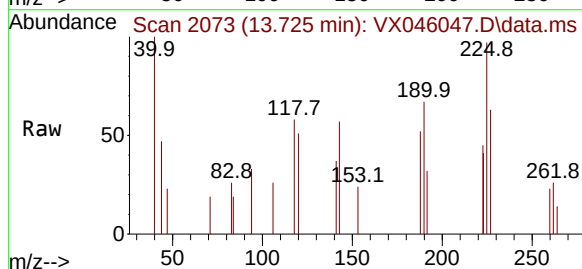
RT: 13.725 min Scan# 2073

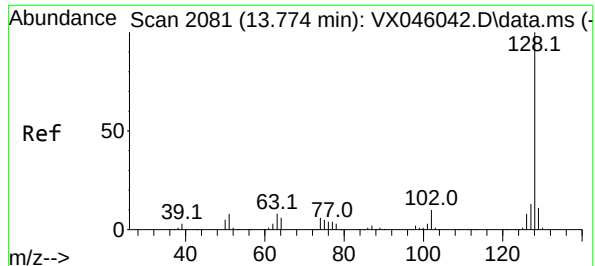
Delta R.T. -0.000 min

Lab File: VX046047.D

Acq: 05 May 2025 16:27

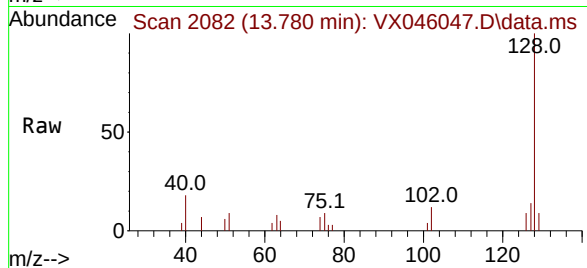
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 465       |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 69.7  | 30.8 92.4 |
| 227         | 70.5  | 30.9 92.7 |





#95  
Naphthalene  
Concen: 0.767 ug/l  
RT: 13.780 min Scan# 2081  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

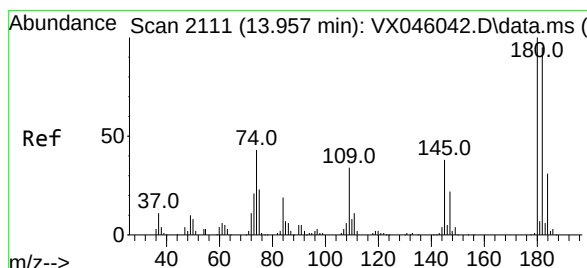
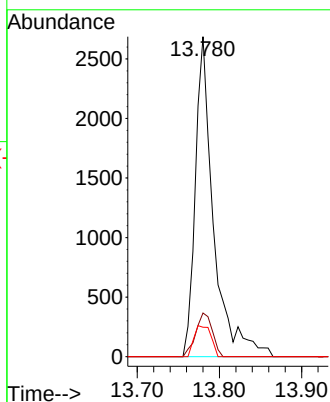
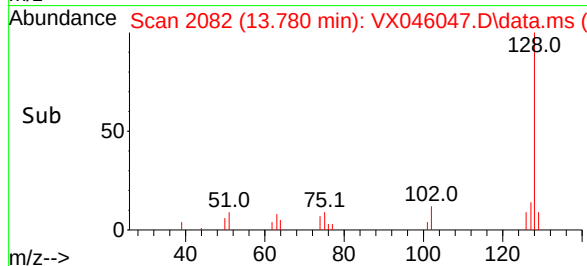
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC001



Tgt Ion:128 Resp: 4138  
Ion Ratio Lower Upper  
128 100  
127 12.4 10.4 15.6  
129 8.9 8.6 13.0

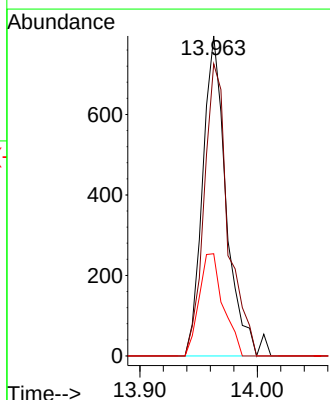
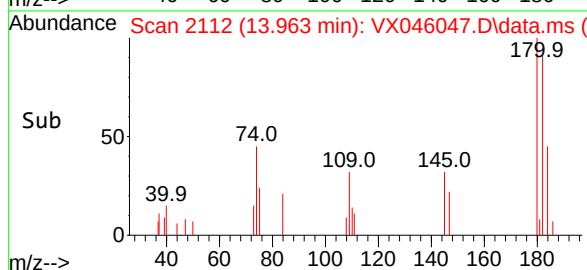
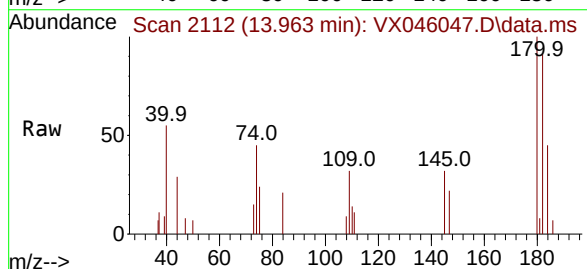
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 0.716 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. 0.006 min  
Lab File: VX046047.D  
Acq: 05 May 2025 16:27

Tgt Ion:180 Resp: 1113  
Ion Ratio Lower Upper  
180 100  
182 92.5 47.8 143.3  
145 32.5 18.1 54.3





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046048.D  
 Acq On : 05 May 2025 16:50  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050525

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.544          | 168  | 92588      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 162651     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 145078     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 68229      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 83733      | 48.509  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 97.020% |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 58192      | 49.683  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.360% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 198575     | 48.984  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 97.960% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 75568      | 48.596  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 97.200% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 78783      | 55.594  | ug/l   | 99       |
| 3) Chloromethane             | 1.307          | 50   | 72275      | 52.592  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 65994      | 51.598  | ug/l   | 98       |
| 5) Bromomethane              | 1.593          | 94   | 30033      | 50.627  | ug/l   | 97       |
| 6) Chloroethane              | 1.666          | 64   | 35690      | 52.271  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 99352      | 52.560  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 31875      | 49.536  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 59451      | 50.822  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.447          | 142  | 73940      | 53.419  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.977          | 59   | 61065      | 252.025 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 56097      | 51.097  | ug/l   | 98       |
| 13) Acrolein                 | 2.233          | 56   | 64157      | 232.505 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 108757     | 51.833  | ug/l   | 100      |
| 15) Acrylonitrile            | 3.063          | 53   | 181808     | 262.412 | ug/l   | 99       |
| 16) Acetone                  | 2.380          | 43   | 169923     | 245.518 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.502          | 76   | 132695     | 50.981  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 80251      | 49.968  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 195442     | 50.777  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.782          | 84   | 63369      | 47.779  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 55770      | 50.513  | ug/l   | 99       |
| 22) Diisopropyl ether        | 3.757          | 45   | 209946     | 51.800  | ug/l   | 97       |
| 23) Vinyl Acetate            | 3.715          | 43   | 946746     | 265.585 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 114733     | 50.825  | ug/l   | 98       |
| 25) 2-Butanone               | 4.556          | 43   | 258339     | 257.110 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 88229      | 49.934  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 67727      | 50.956  | ug/l   | 100      |
| 28) Bromochloromethane       | 4.891          | 49   | 55390      | 50.975  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 163675     | 259.958 | ug/l   | 99       |
| 30) Chloroform               | 5.093          | 83   | 120782     | 51.332  | ug/l   | 97       |
| 31) Cyclohexane              | 5.458          | 56   | 103158     | 50.147  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 104243     | 51.108  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 77931      | 49.521  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.715          | 43   | 98604      | 50.714  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 5.666          | 117  | 88100      | 49.825  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.373          | 83   | 100808     | 49.757  | ug/l   | 98       |
| 40) Benzene                  | 6.031          | 78   | 233977     | 50.759  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046048.D  
 Acq On : 05 May 2025 16:50  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050525

Quant Time: May 06 07:17:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/06/2025  
 Supervised By : Mahesh Dadoda 05/06/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 56017    | 55.076   | ug/l   | 100      |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 101185   | 50.861   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 154818   | 52.195   | ug/l   | 99       |
| 44) Trichloroethene           | 7.123  | 130  | 55491    | 50.018   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 59582    | 51.983   | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 45181    | 49.978   | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.818  | 83   | 92388    | 51.889   | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.690  | 41   | 82144    | 54.226   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 30477    | 1059.599 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 510206   | 259.133  | ug/l   | 100      |
| 52) Toluene                   | 8.714  | 92   | 144574   | 51.150   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 83751    | 52.920   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.360  | 75   | 92517    | 52.892   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97   | 56713    | 50.887   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 95772    | 53.918   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 99663    | 49.793   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 240681   | 265.780  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 390701   | 268.218  | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.519  | 129  | 63738    | 52.075   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 59134    | 51.050   | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.269  | 164  | 48034    | 46.795   | ug/l   | 98       |
| 65) Chlorobenzene             | 10.073 | 112  | 154640   | 48.699   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 53735    | 49.557   | ug/l   | 100      |
| 67) Ethyl Benzene             | 10.189 | 91   | 281239   | 50.245   | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 206813   | 101.022  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 101469   | 50.841   | ug/l   | 99       |
| 70) Styrene                   | 10.653 | 104  | 169703   | 51.907   | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 40364    | 49.583   | ug/l # | 97       |
| 73) Isopropylbenzene          | 10.957 | 105  | 269484   | 50.733   | ug/l   | 100      |
| 74) N-amyl acetate            | 10.842 | 43   | 137559   | 52.407   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 89027    | 47.827   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 79763m   | 48.568   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 59871    | 48.549   | ug/l   | 98       |
| 78) n-propylbenzene           | 11.299 | 91   | 312285   | 50.562   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 195630   | 49.107   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 228538   | 51.500   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 24857    | 49.276   | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 223811   | 50.661   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 225783   | 50.511   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 231371   | 51.485   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 280578   | 51.122   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 231942   | 51.198   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.963 | 146  | 113146   | 50.272   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.037 | 146  | 111173   | 48.368   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 205858   | 51.804   | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 39823    | 49.895   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 111482   | 49.361   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 21220    | 51.458   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 64421    | 49.662   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 27425    | 48.408   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 239805   | 50.404   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 64950    | 48.525   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046048.D  
Acq On : 05 May 2025 16:50  
Operator : JC/MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

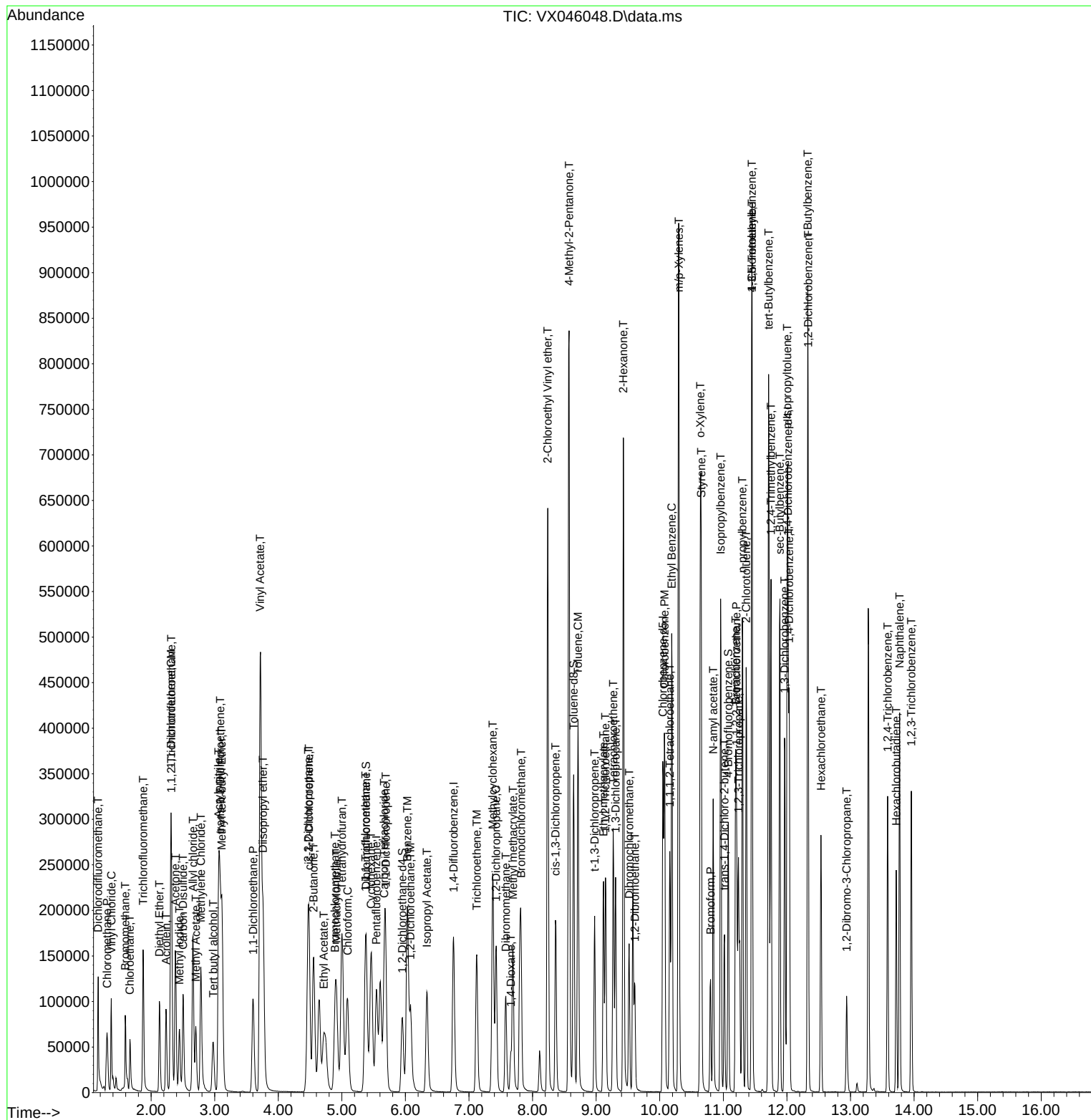
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

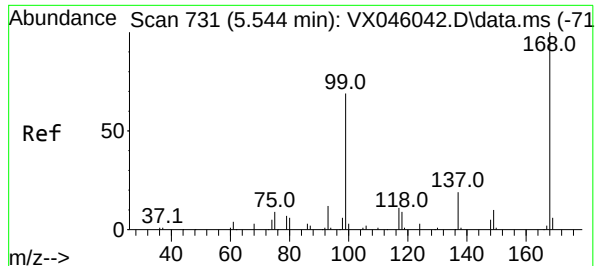
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
ICVVX050525

## Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion:168 Resp: 9258

Ion Ratio Lower Upper

168 100

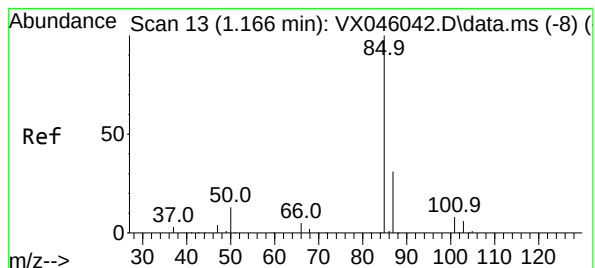
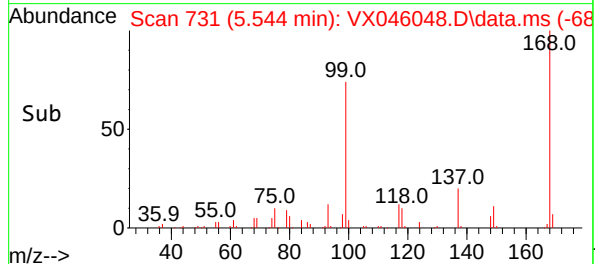
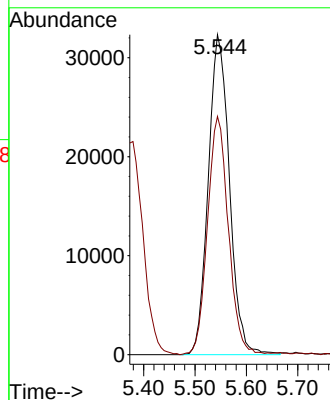
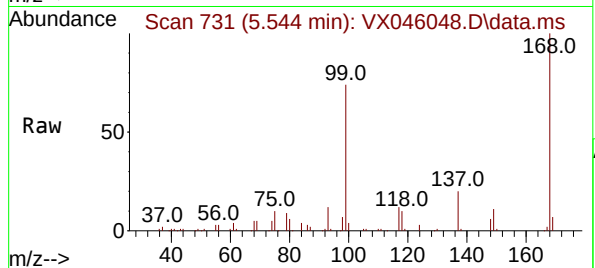
99 74.5 54.9 82.3

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#2

Dichlorodifluoromethane

Concen: 55.594 ug/l

RT: 1.167 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX046048.D

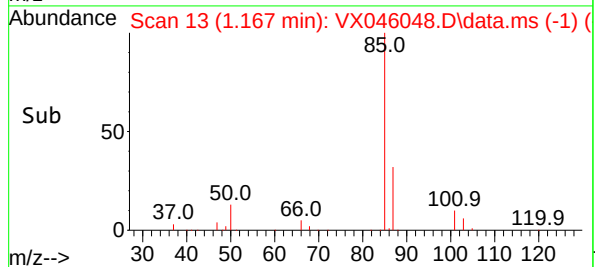
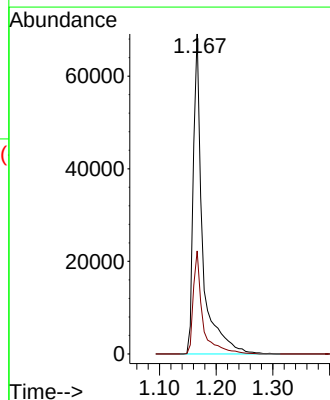
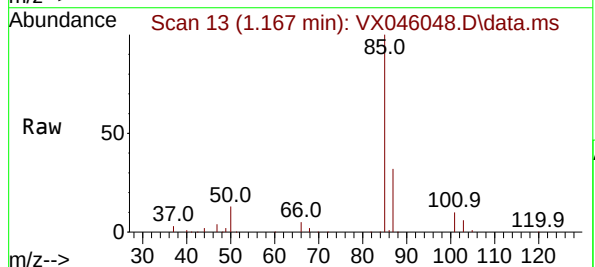
Acq: 05 May 2025 16:50

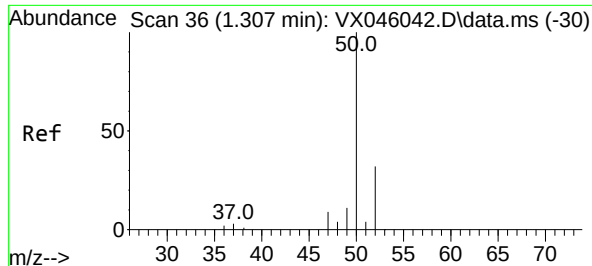
Tgt Ion: 85 Resp: 78783

Ion Ratio Lower Upper

85 100

87 32.2 15.7 47.1





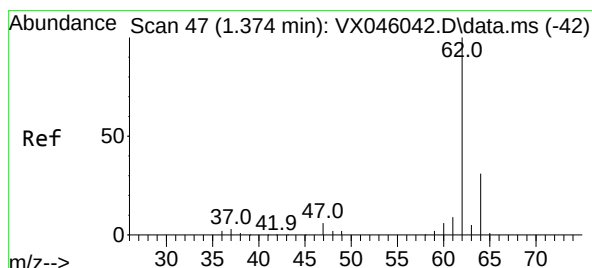
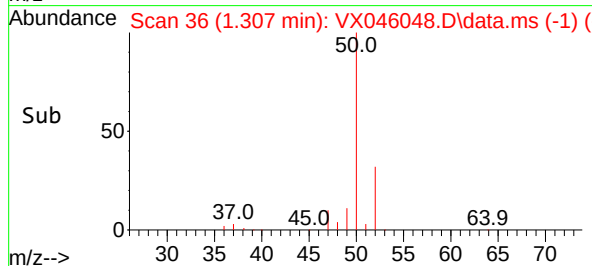
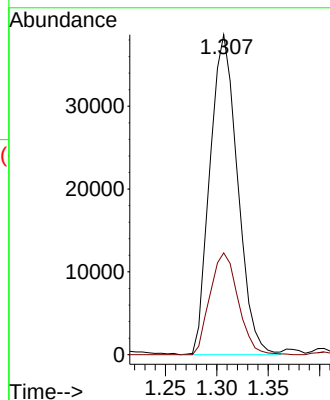
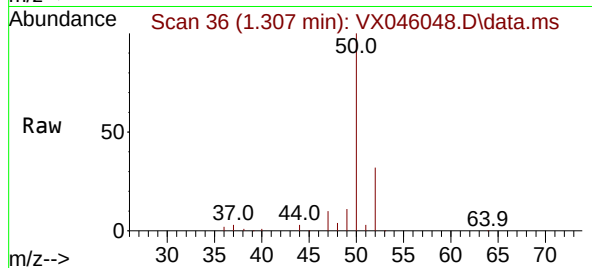
#3  
Chloromethane  
Concen: 52.592 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

Tgt Ion: 50 Resp: 72275  
Ion Ratio Lower Upper  
50 100  
52 31.8 25.4 38.2

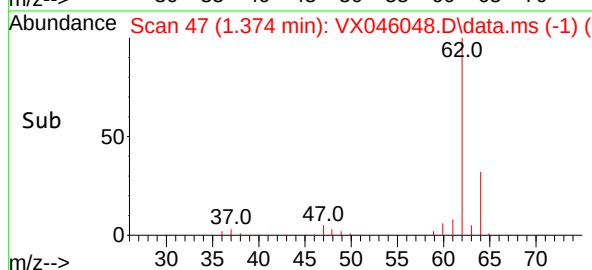
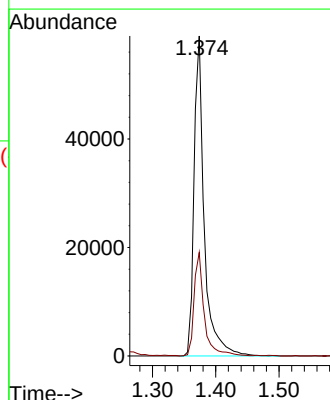
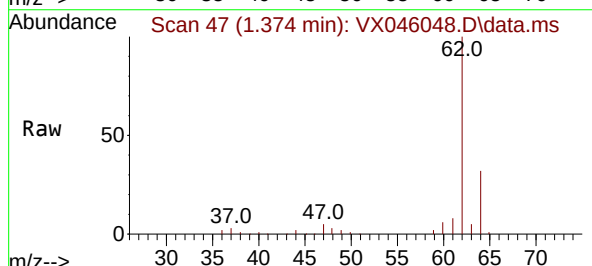
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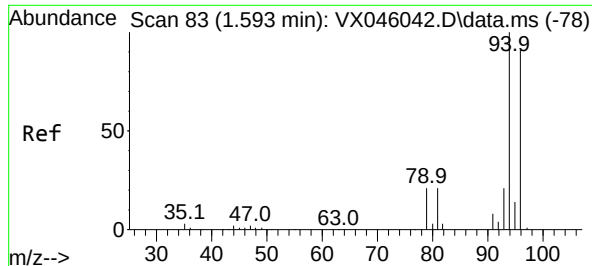
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#4  
Vinyl Chloride  
Concen: 51.598 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

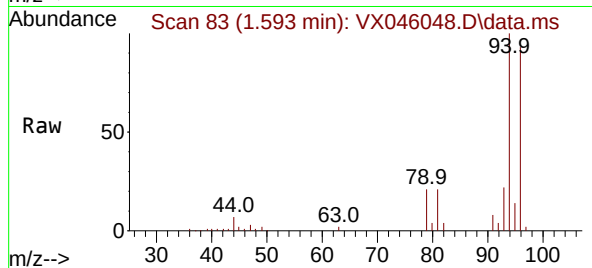
Tgt Ion: 62 Resp: 65994  
Ion Ratio Lower Upper  
62 100  
64 32.3 25.2 37.8





#5  
Bromomethane  
Concen: 50.627 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

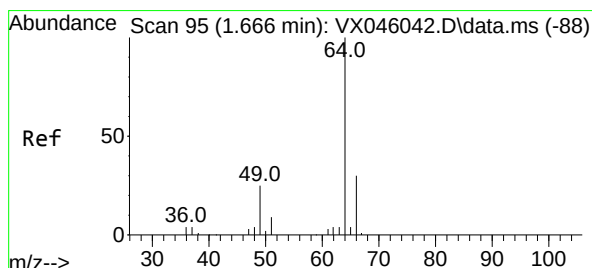
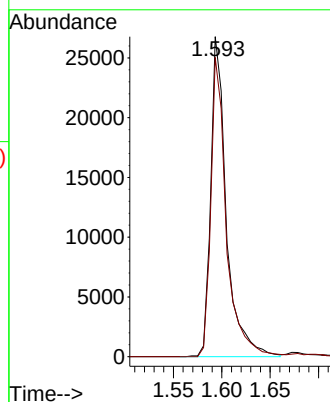
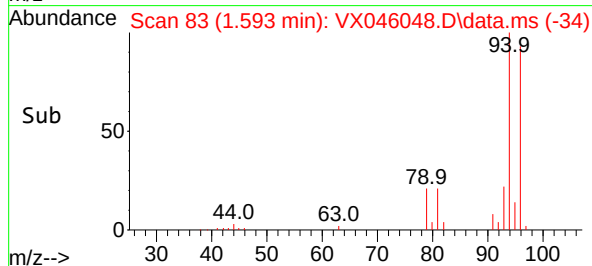
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion: 94 Resp: 3003  
Ion Ratio Lower Upper  
94 100  
96 93.5 72.8 109.2

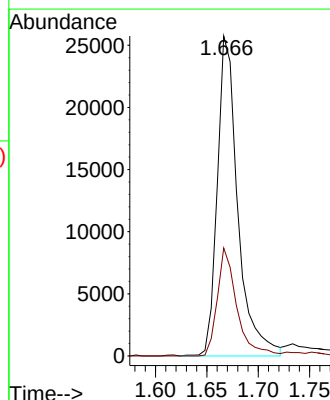
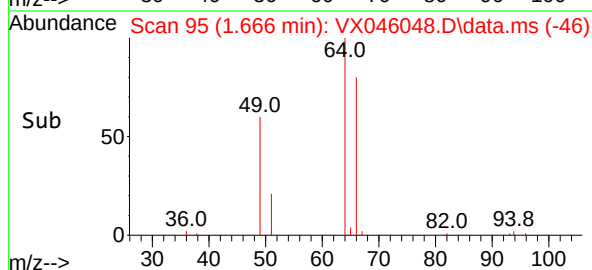
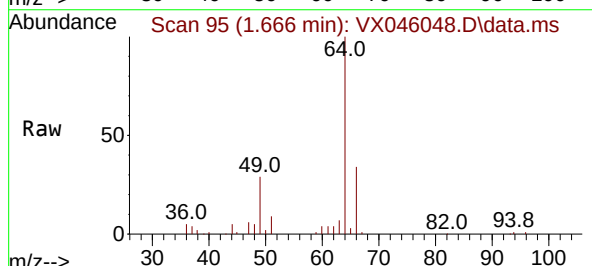
Manual Integrations  
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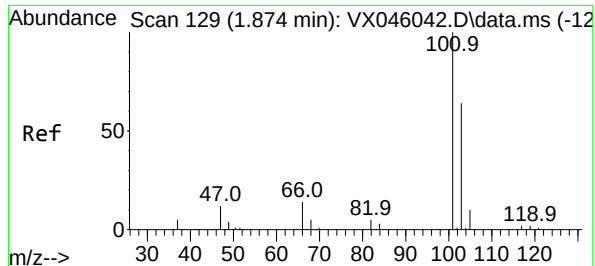
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#6  
Chloroethane  
Concen: 52.271 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

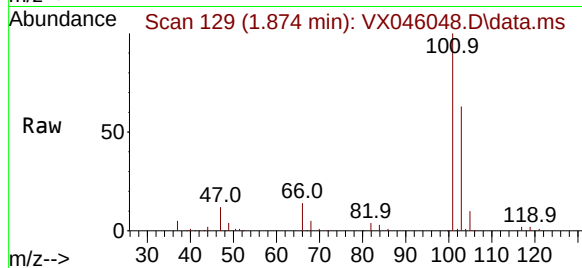
Tgt Ion: 64 Resp: 35690  
Ion Ratio Lower Upper  
64 100  
66 33.7 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 52.560 ug/l  
RT: 1.874 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

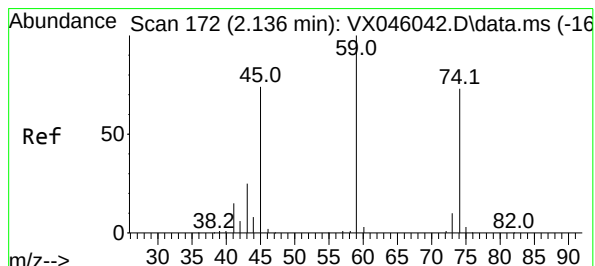
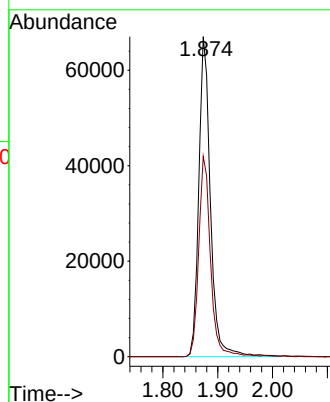
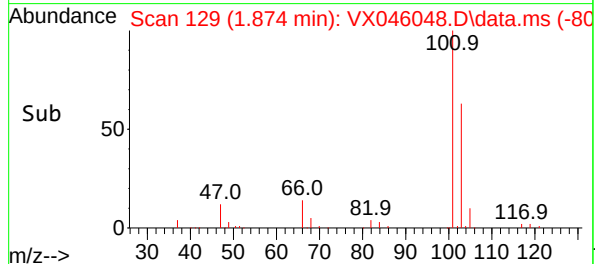
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX050525



Tgt Ion:101 Resp: 99352  
Ion Ratio Lower Upper  
101 100  
103 62.6 51.0 76.4

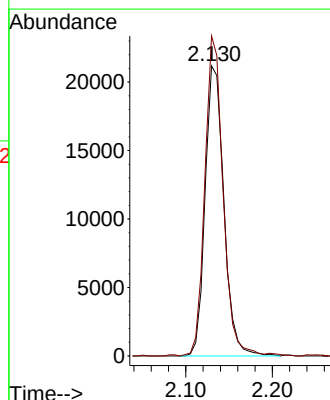
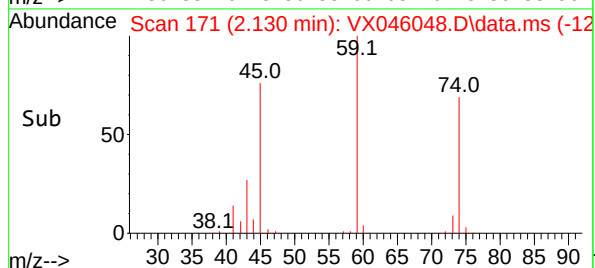
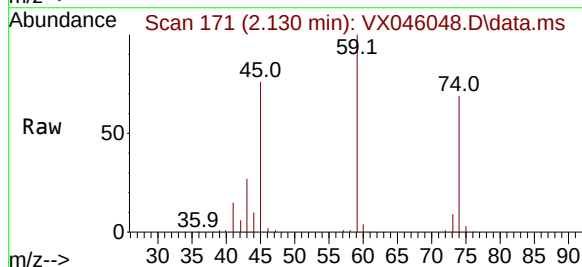
Manual Integrations  
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Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

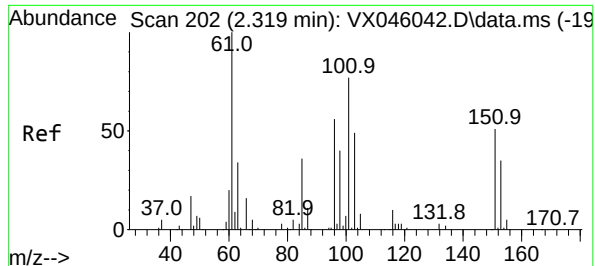


#8  
Diethyl Ether  
Concen: 49.536 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 74 Resp: 31875  
Ion Ratio Lower Upper  
74 100  
45 107.1 54.9 164.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.822 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

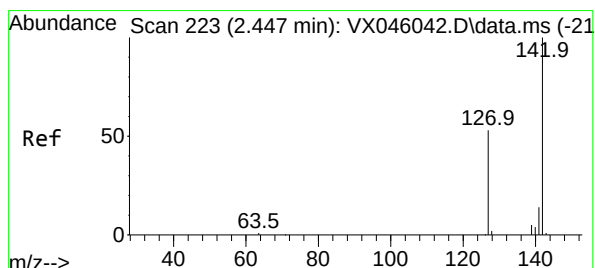
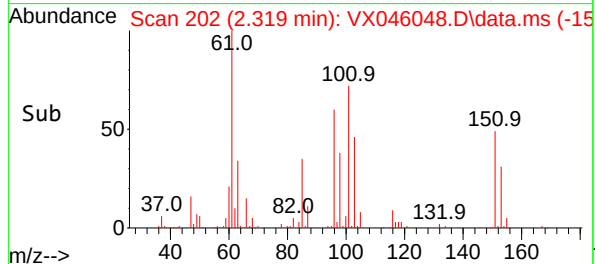
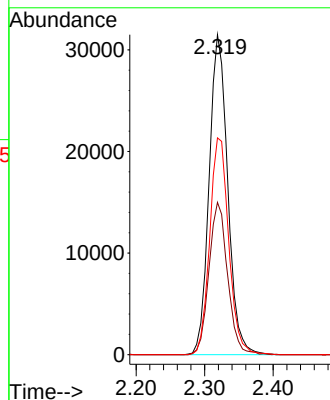
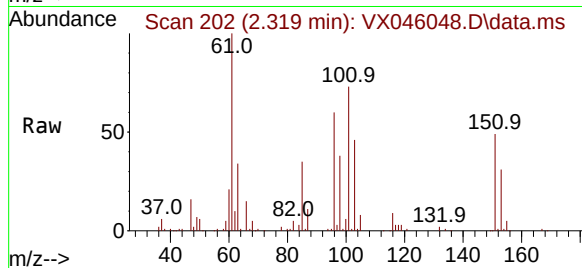
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 5945  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 47.8  | 38.6  | 58.0  |
| 151      | 69.4  | 55.2  | 82.8  |

## Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#10

Methyl Iodide

Concen: 53.419 ug/l

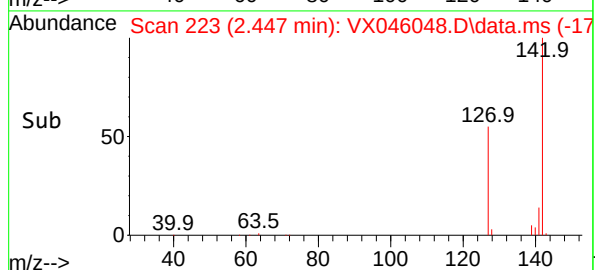
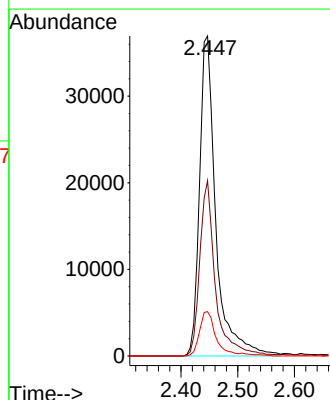
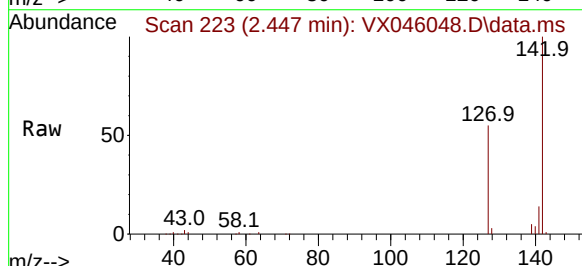
RT: 2.447 min Scan# 223

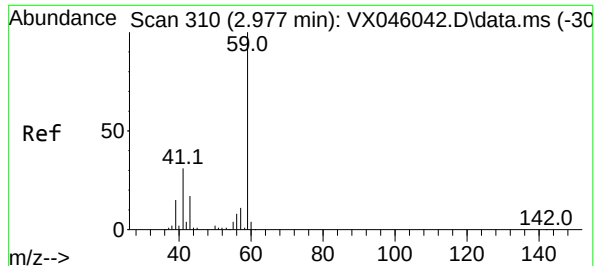
Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 73940 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 52.9  | 41.7  | 62.5  |
| 141      | 14.4  | 11.5  | 17.3  |





#11

Tert butyl alcohol

Concen: 252.025 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 59 Resp: 6106

Ion Ratio Lower Upper

59 100

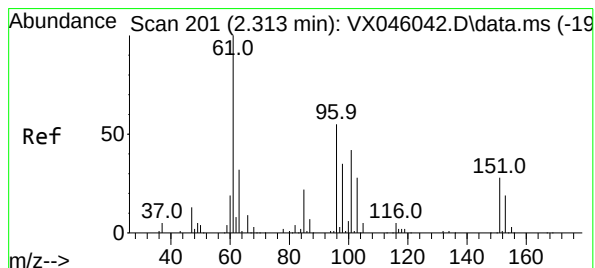
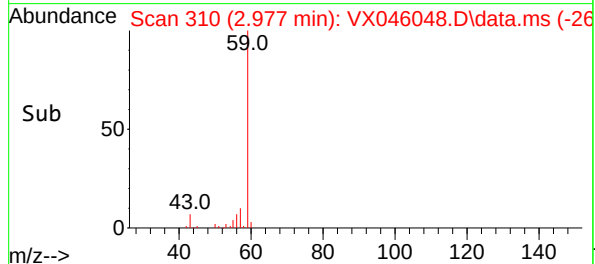
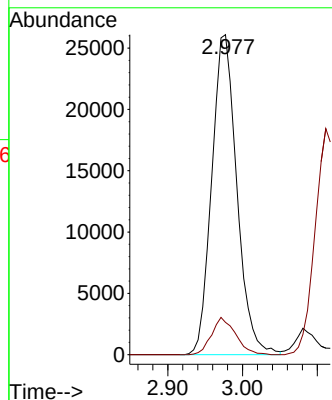
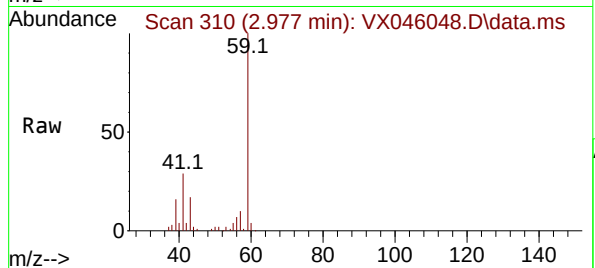
57 11.1 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#12

1,1-Dichloroethene

Concen: 51.097 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

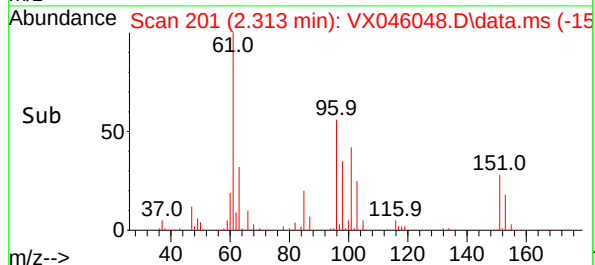
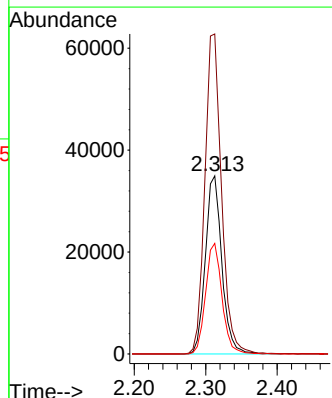
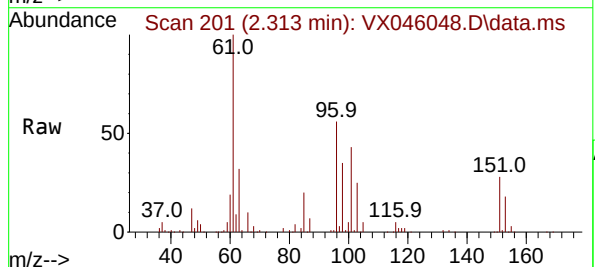
Tgt Ion: 96 Resp: 56097

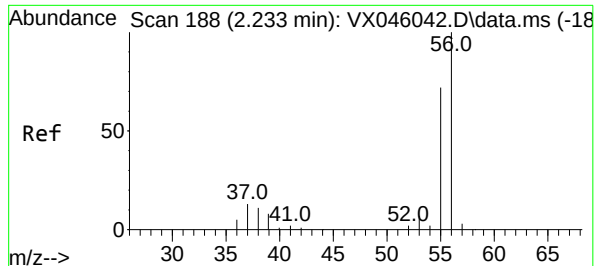
Ion Ratio Lower Upper

96 100

61 179.7 146.2 219.2

98 62.1 51.0 76.6





#13

Acrolein

Concen: 232.505 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 56 Resp: 6415

Ion Ratio Lower Upper

56 100

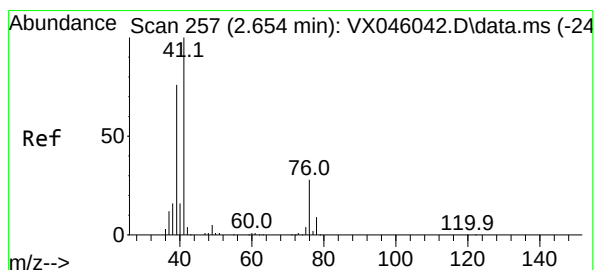
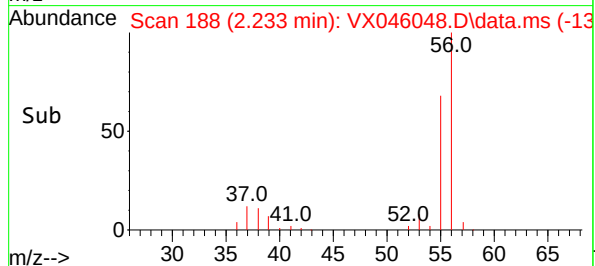
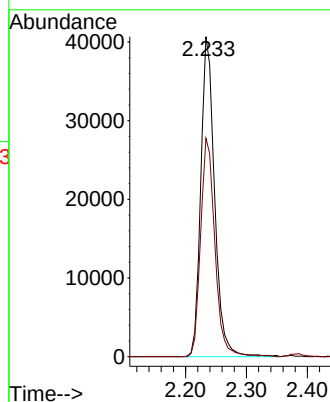
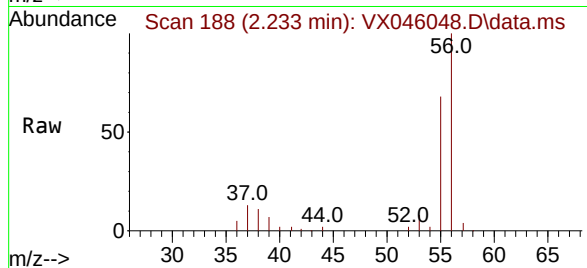
55 70.8 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#14

Allyl chloride

Concen: 51.833 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

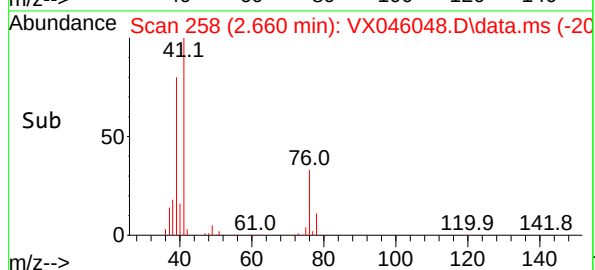
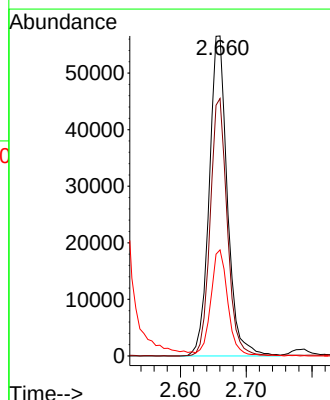
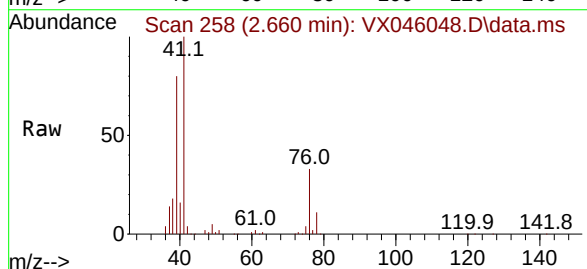
Tgt Ion: 41 Resp: 108757

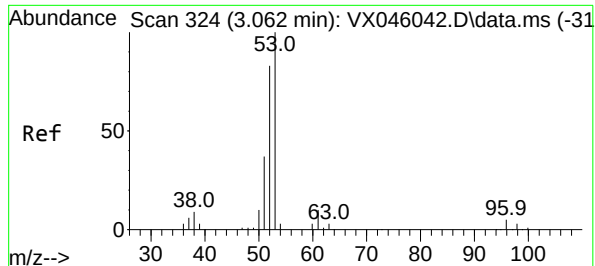
Ion Ratio Lower Upper

41 100

39 75.6 60.6 90.8

76 31.1 24.9 37.3





#15

Acrylonitrile

Concen: 262.412 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 53 Resp: 181808

Ion Ratio Lower Upper

53 100

52 82.9 65.3 97.9

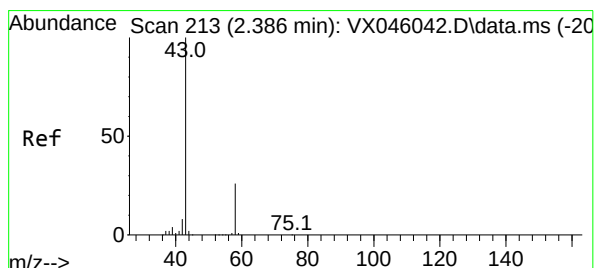
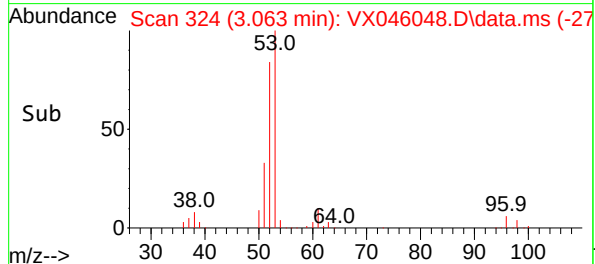
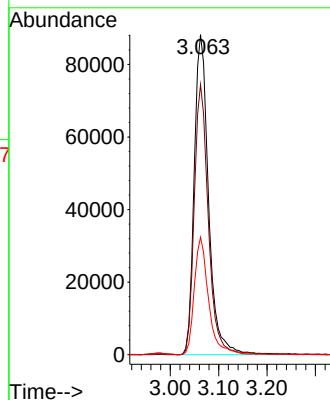
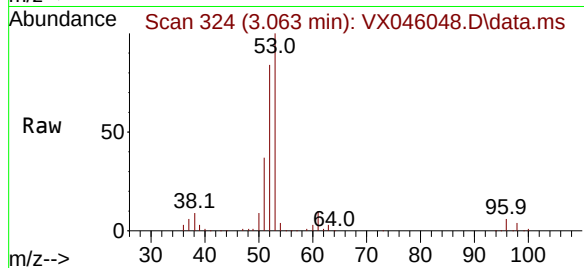
51 36.5 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#16

Acetone

Concen: 245.518 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX046048.D

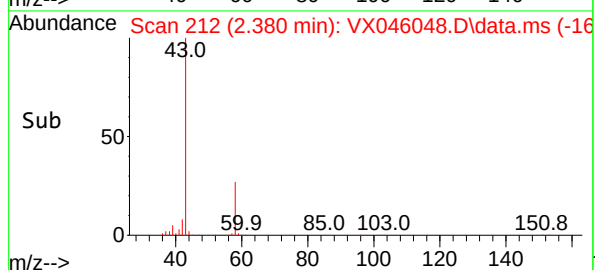
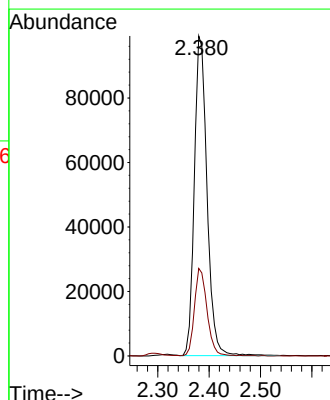
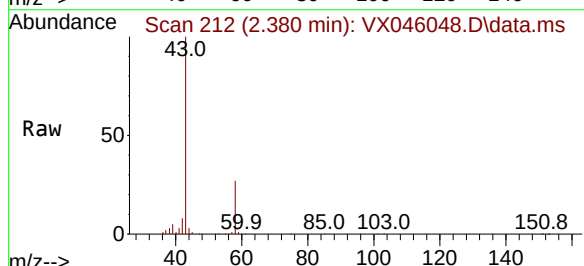
Acq: 05 May 2025 16:50

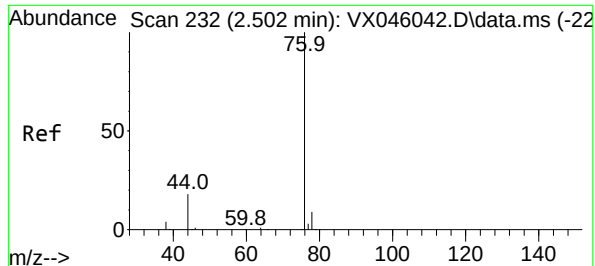
Tgt Ion: 43 Resp: 169923

Ion Ratio Lower Upper

43 100

58 27.3 21.2 31.8





#17

Carbon Disulfide

Concen: 50.981 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 76 Resp: 13269

Ion Ratio Lower Upper

76 100

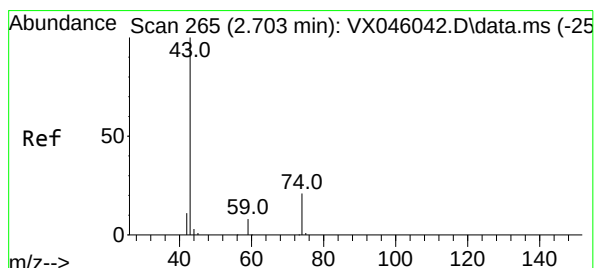
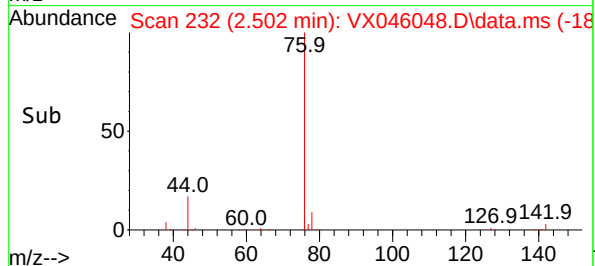
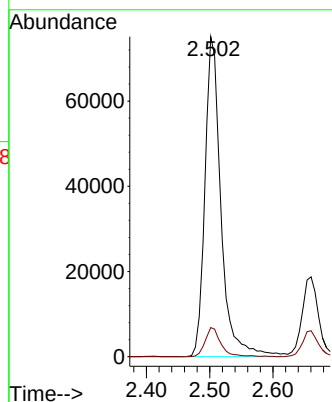
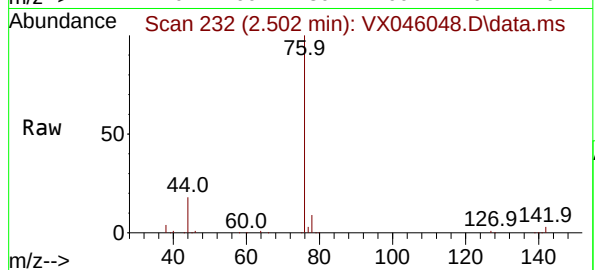
78 9.1 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#18

Methyl Acetate

Concen: 49.968 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX046048.D

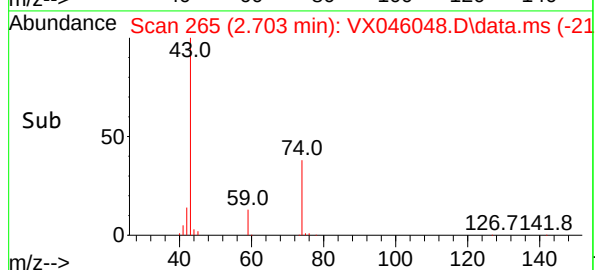
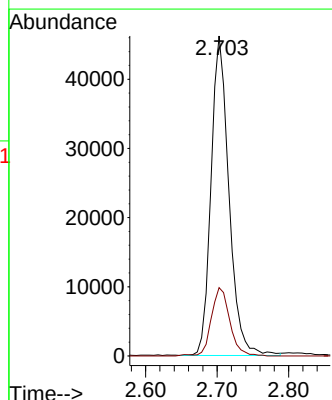
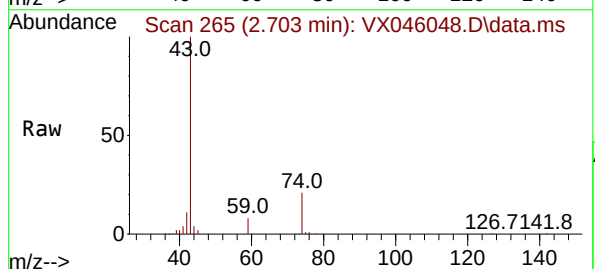
Acq: 05 May 2025 16:50

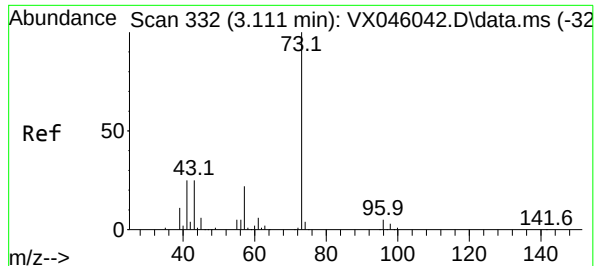
Tgt Ion: 43 Resp: 80251

Ion Ratio Lower Upper

43 100

74 22.1 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 50.777 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 73 Resp: 19544

Ion Ratio Lower Upper

73 100

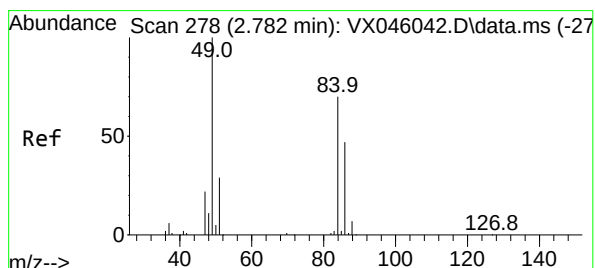
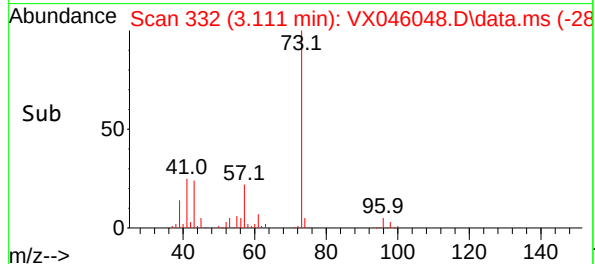
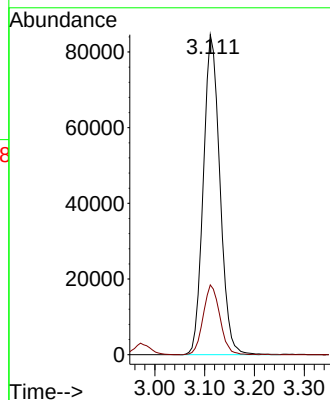
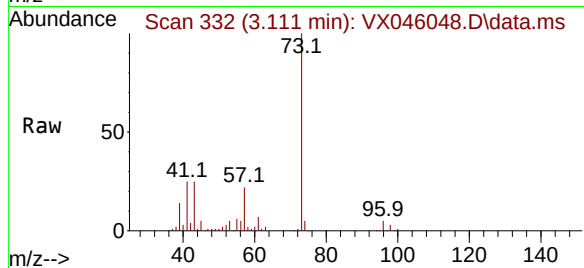
57 21.8 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#20

Methylene Chloride

Concen: 47.779 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Tgt Ion: 84 Resp: 63369

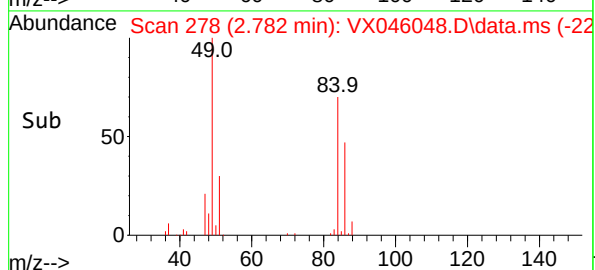
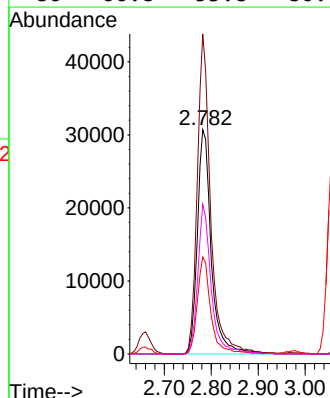
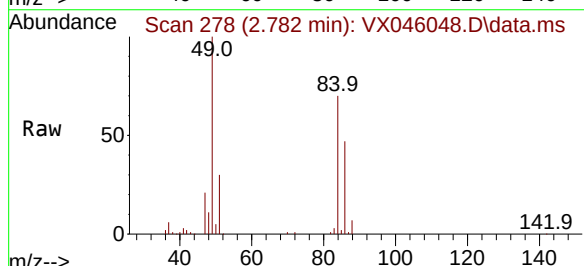
Ion Ratio Lower Upper

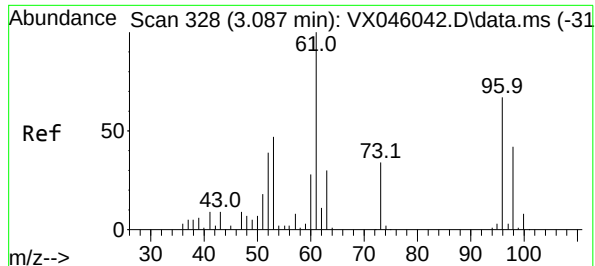
84 100

49 142.7 113.9 170.9

51 43.3 33.5 50.3

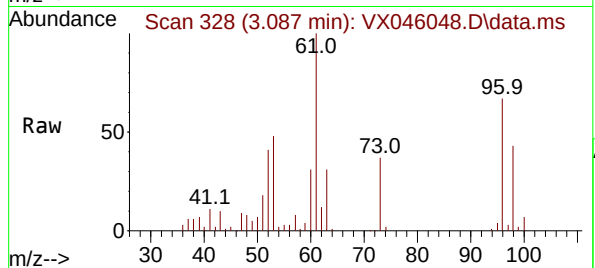
86 66.8 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 50.513 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

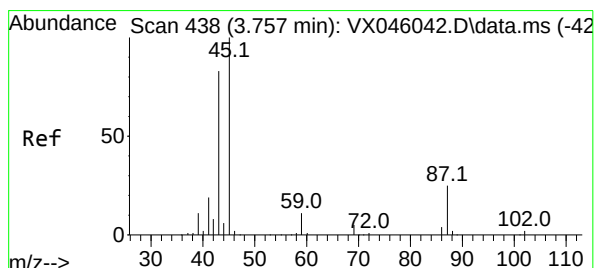
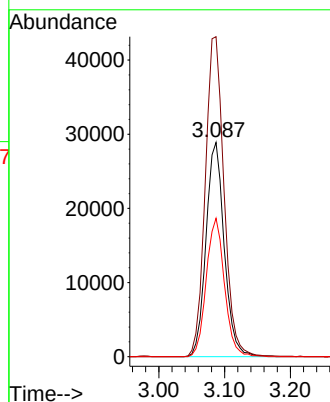
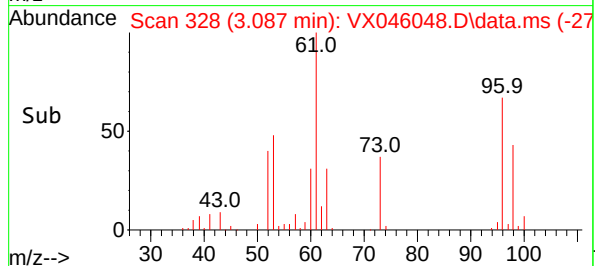
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion: 96 Resp: 55770  
Ion Ratio Lower Upper  
96 100  
61 149.3 119.5 179.3  
98 64.6 50.0 75.0

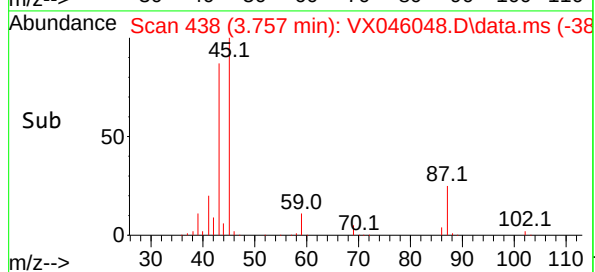
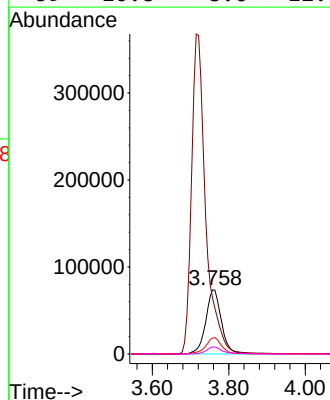
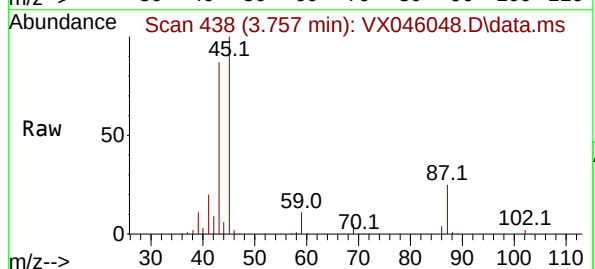
Manual Integrations  
APPROVED

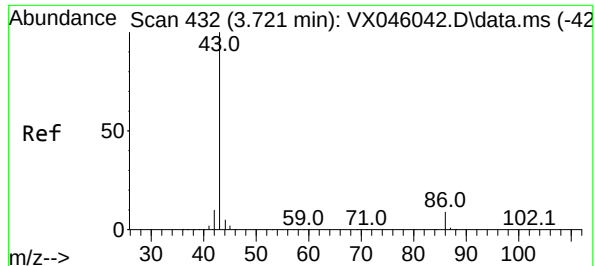
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#22  
Diisopropyl ether  
Concen: 51.800 ug/l  
RT: 3.757 min Scan# 438  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 45 Resp: 209946  
Ion Ratio Lower Upper  
45 100  
43 86.9 66.6 100.0  
87 24.8 19.8 29.6  
59 10.8 8.6 12.8





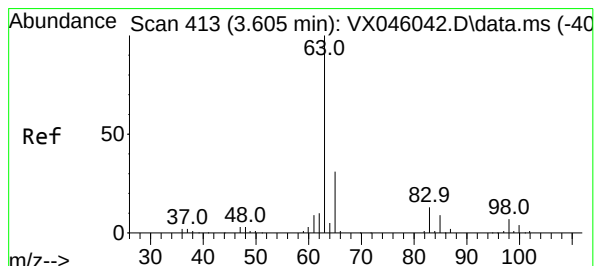
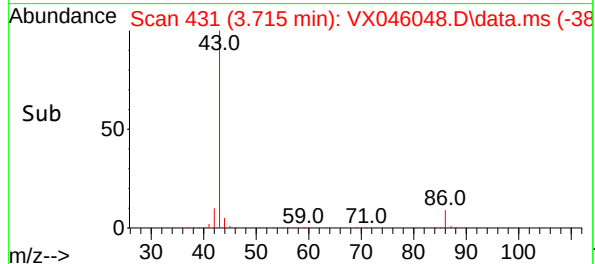
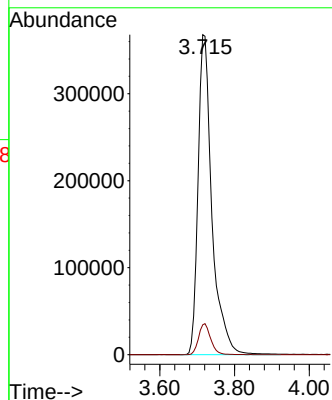
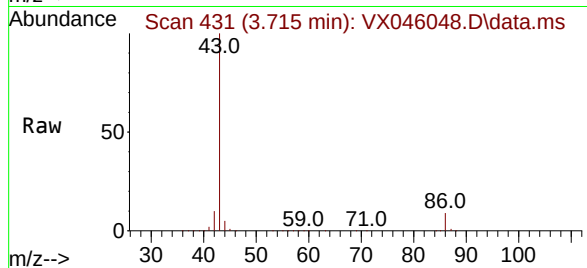
#23  
Vinyl Acetate  
Concen: 265.585 ug/l  
RT: 3.715 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX050525

Tgt Ion: 43 Resp: 946740  
Ion Ratio Lower Upper  
43 100  
86 9.4 7.5 11.3

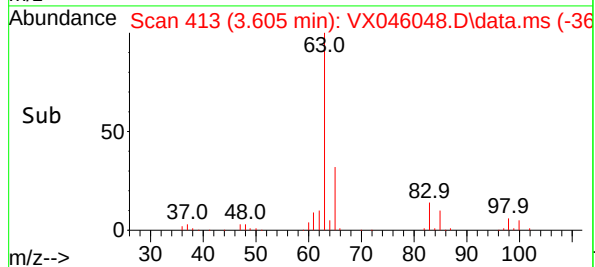
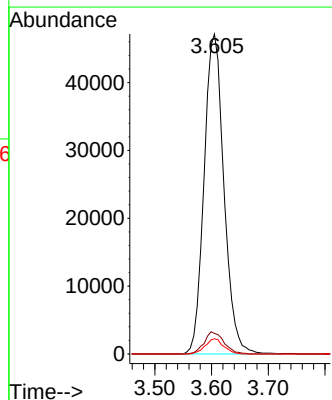
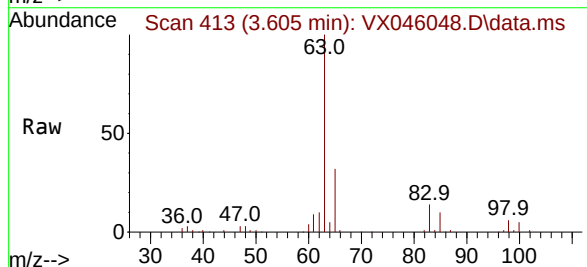
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

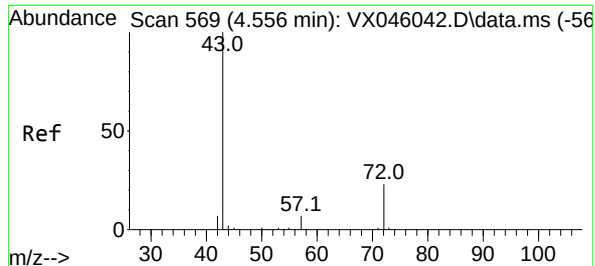


#24  
1,1-Dichloroethane  
Concen: 50.825 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 114733  
Ion Ratio Lower Upper  
63 100  
98 6.4 3.6 10.8  
100 4.8 2.1 6.3







#25

2-Butanone

Concen: 257.110 ug/l

RT: 4.556 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 43 Resp: 258339

Ion Ratio Lower Upper

43 100

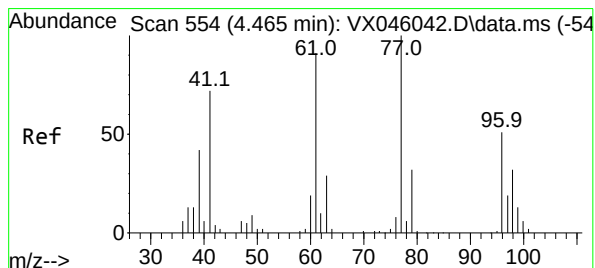
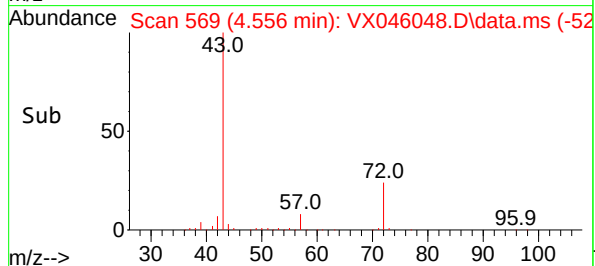
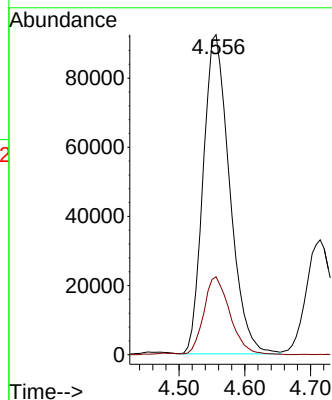
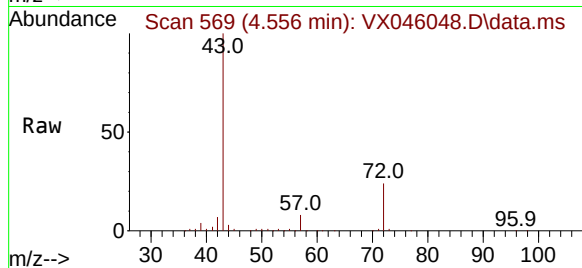
72 24.3 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#26

2,2-Dichloropropane

Concen: 49.934 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX046048.D

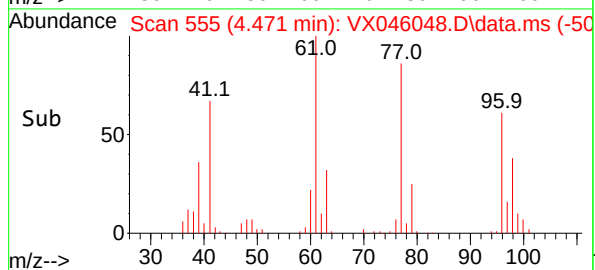
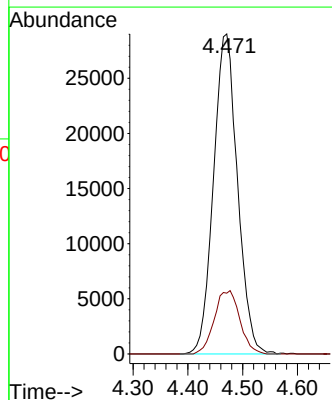
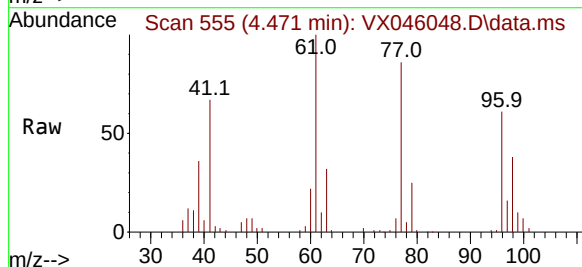
Acq: 05 May 2025 16:50

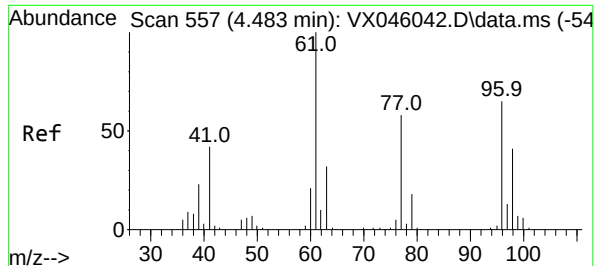
Tgt Ion: 77 Resp: 88229

Ion Ratio Lower Upper

77 100

97 21.0 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 50.956 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 96 Resp: 6772

Ion Ratio Lower Upper

96 100

61 160.7 0.0 322.8

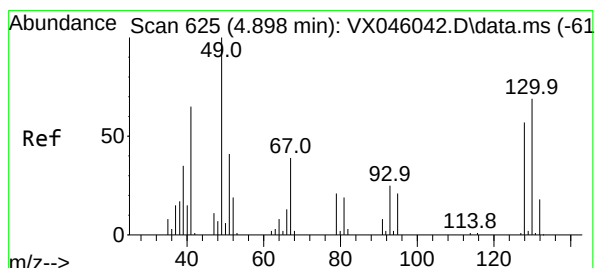
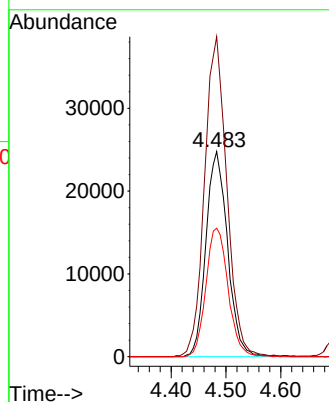
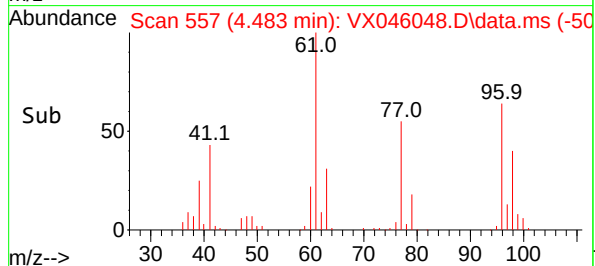
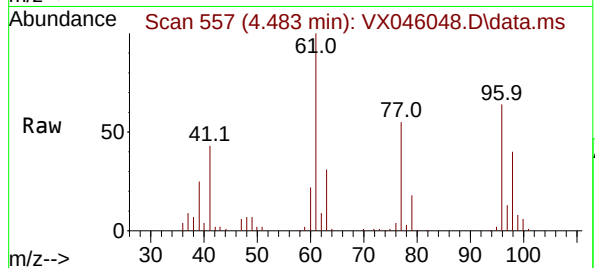
98 64.4 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#28

Bromochloromethane

Concen: 50.975 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

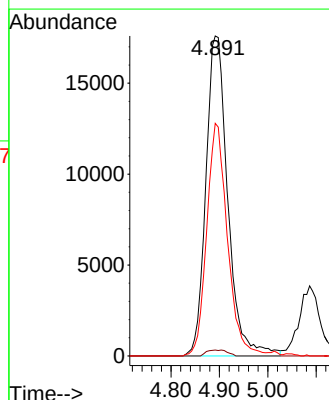
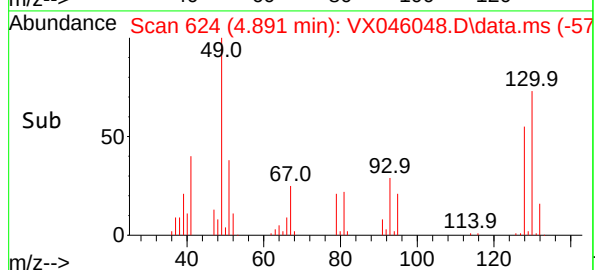
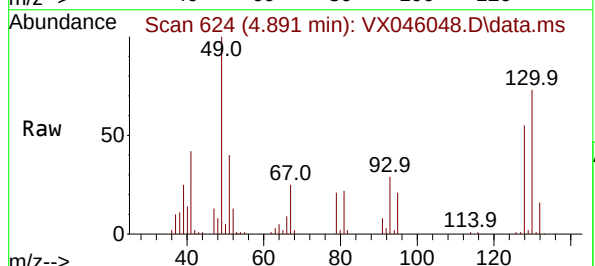
Tgt Ion: 49 Resp: 55390

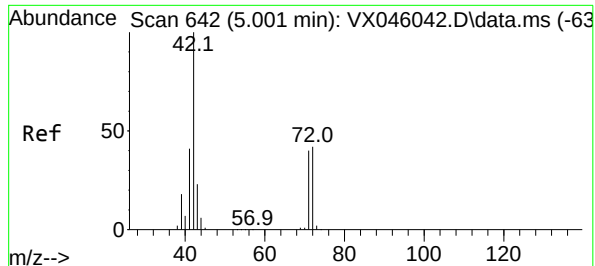
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 68.7 56.2 84.2





#29

Tetrahydrofuran

Concen: 259.958 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 42 Resp: 163679

Ion Ratio Lower Upper

42 100

72 42.0 33.7 50.5

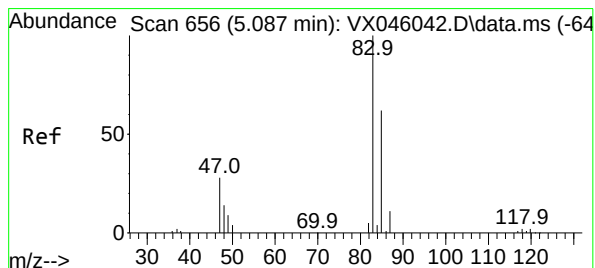
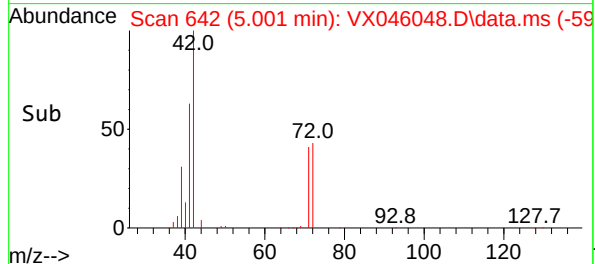
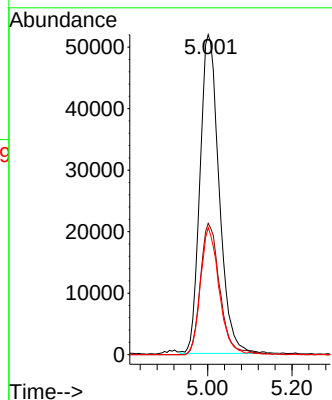
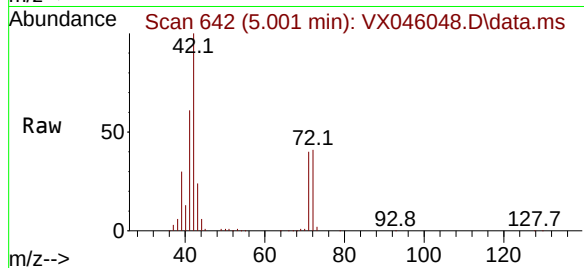
71 38.5 31.4 47.2

Manual Integrations

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Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#30

Chloroform

Concen: 51.332 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX046048.D

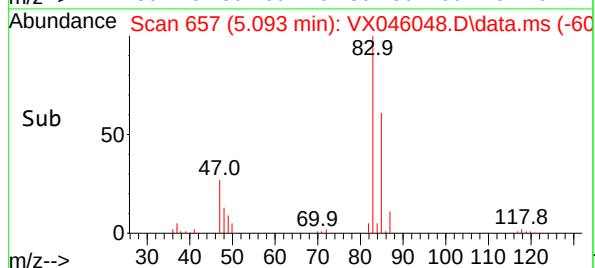
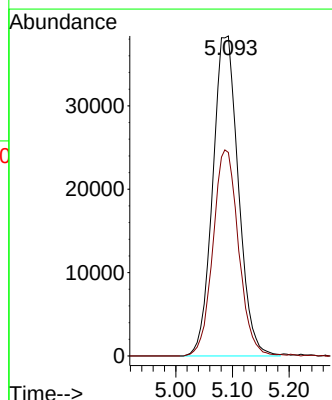
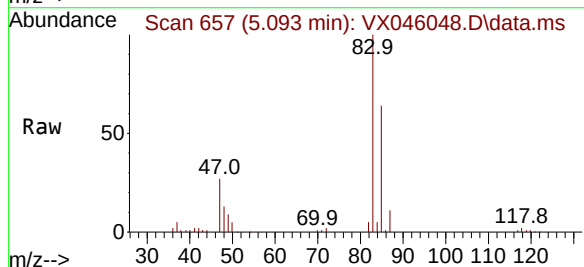
Acq: 05 May 2025 16:50

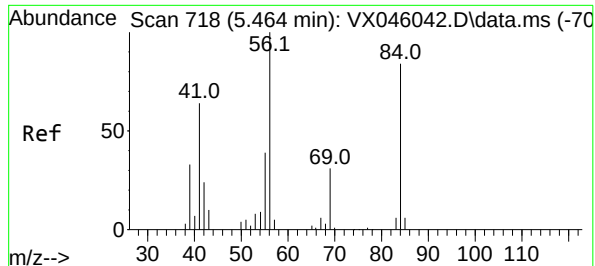
Tgt Ion: 83 Resp: 120782

Ion Ratio Lower Upper

83 100

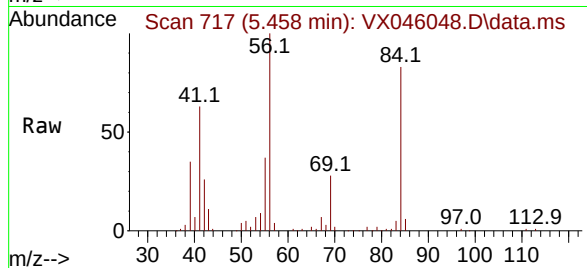
85 63.6 49.3 73.9





#31  
Cyclohexane  
Concen: 50.147 ug/l  
RT: 5.458 min Scan# 718  
Delta R.T. -0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

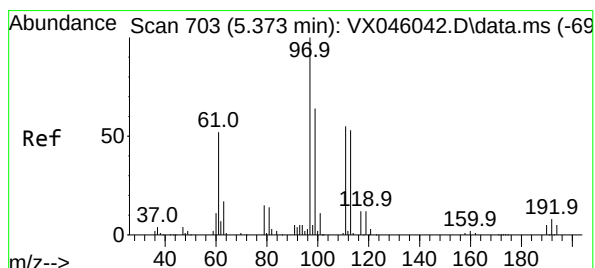
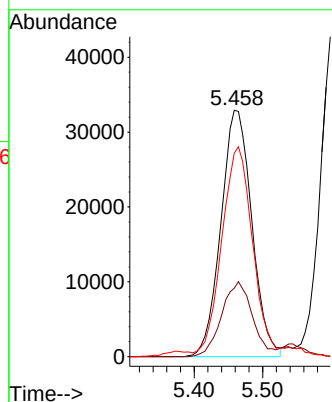
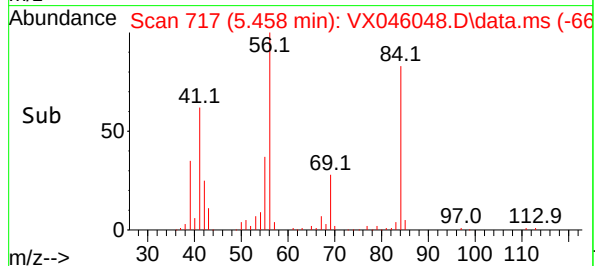
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion: 56 Resp: 103158  
Ion Ratio Lower Upper  
56 100  
69 27.8 24.4 36.6  
84 80.5 66.9 100.3

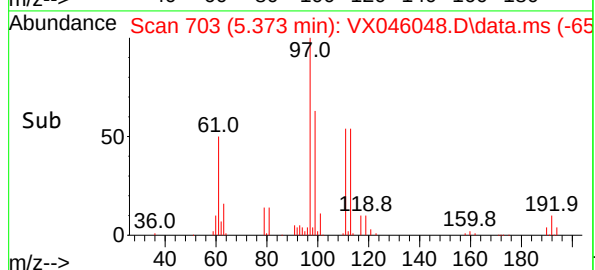
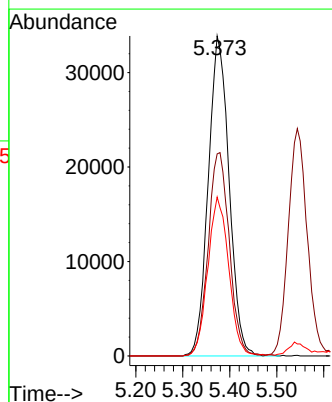
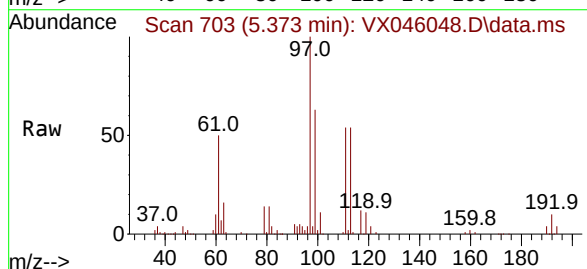
Manual Integrations  
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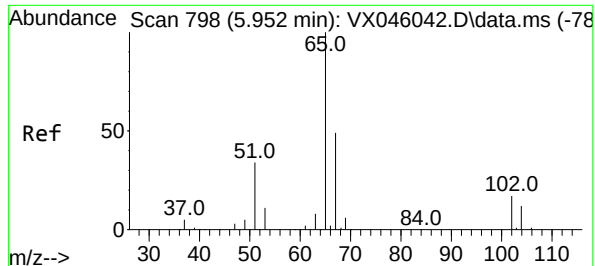
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 51.108 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 97 Resp: 104243  
Ion Ratio Lower Upper  
97 100  
99 64.5 51.8 77.6  
61 50.2 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 48.509 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 65 Resp: 8373

Ion Ratio Lower Upper

65 100

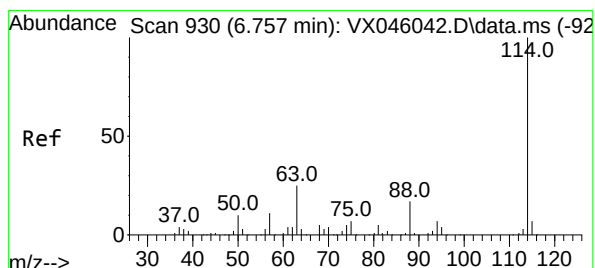
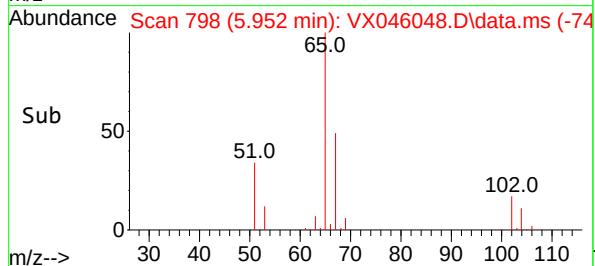
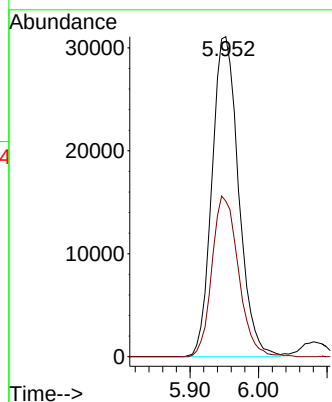
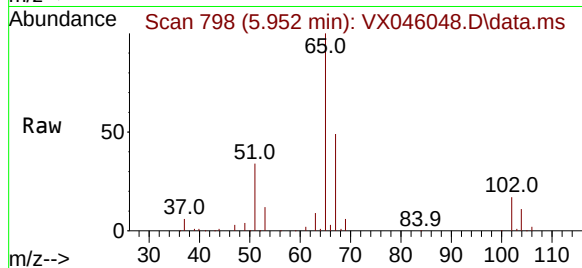
67 50.0 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

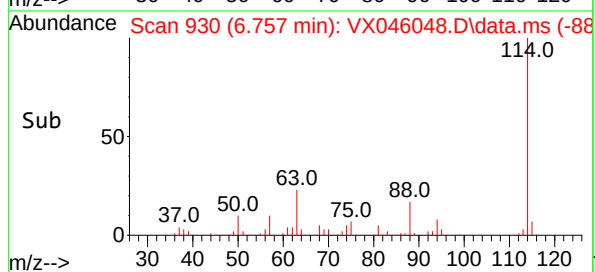
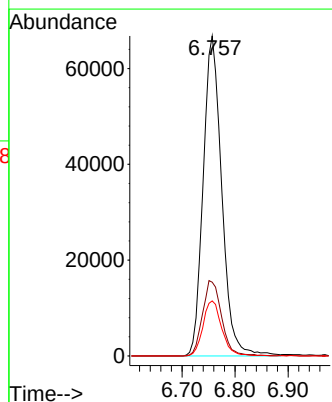
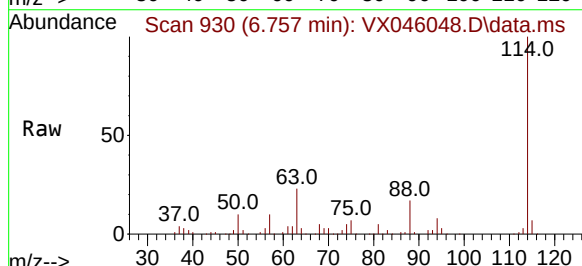
Tgt Ion:114 Resp: 162651

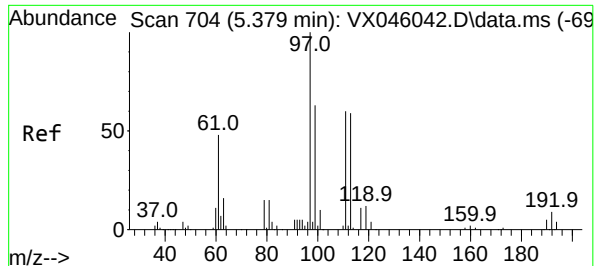
Ion Ratio Lower Upper

114 100

63 23.1 0.0 49.2

88 17.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 49.683 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

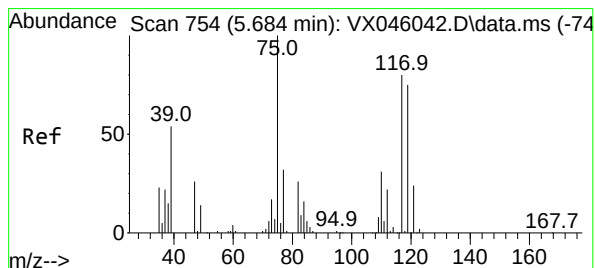
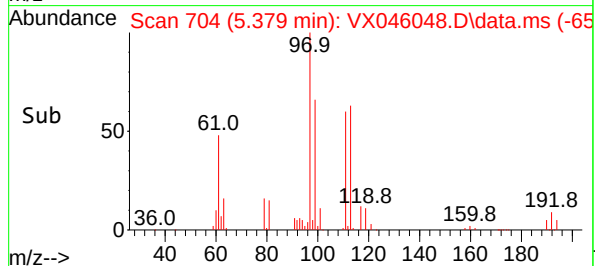
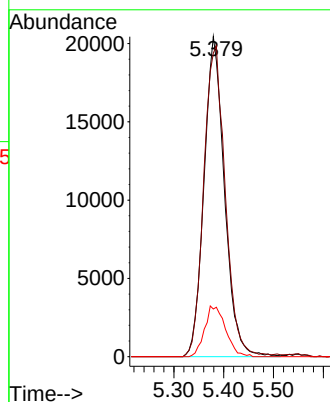
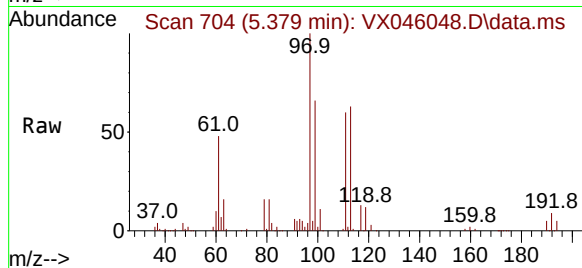
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 5819  |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 102.1 | 83.1  | 124.7 |
| 192       | 16.2  | 13.3  | 19.9  |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#36

1,1-Dichloropropene

Concen: 49.521 ug/l

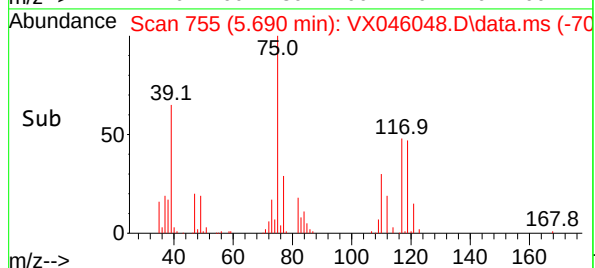
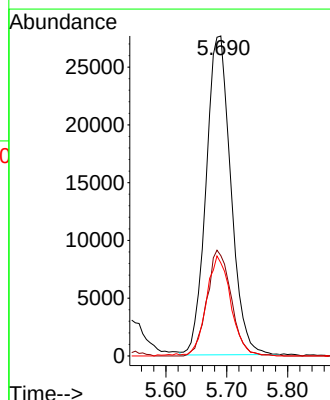
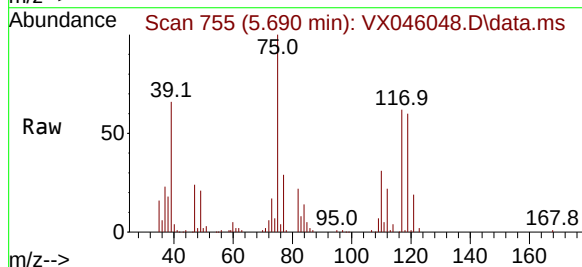
RT: 5.690 min Scan# 755

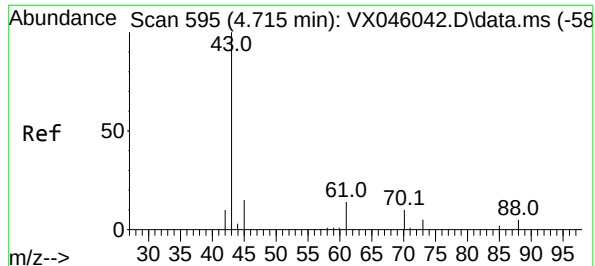
Delta R.T. 0.006 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 77931 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 32.7  | 16.3  | 48.9  |
| 77        | 31.1  | 24.3  | 36.5  |





#37

Ethyl Acetate

Concen: 50.714 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

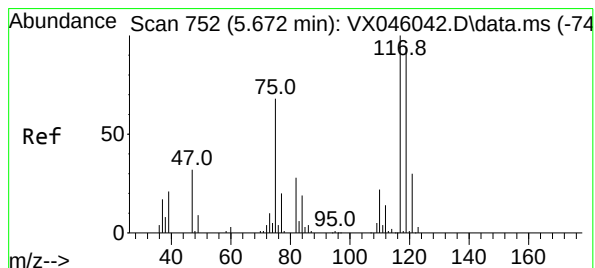
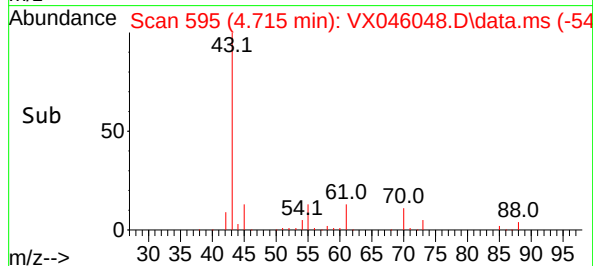
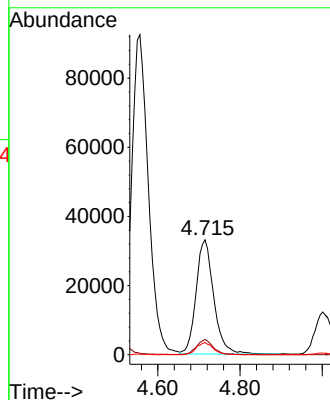
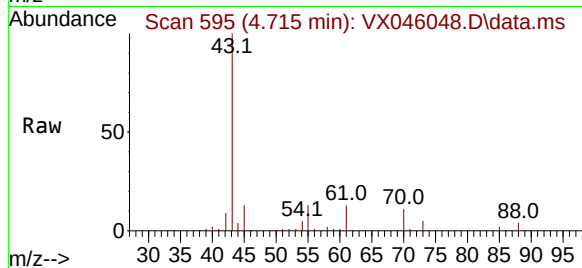
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 98604 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 12.6  | 10.3  | 15.5  |
| 70       | 10.0  | 7.9   | 11.9  |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#38

Carbon Tetrachloride

Concen: 49.825 ug/l

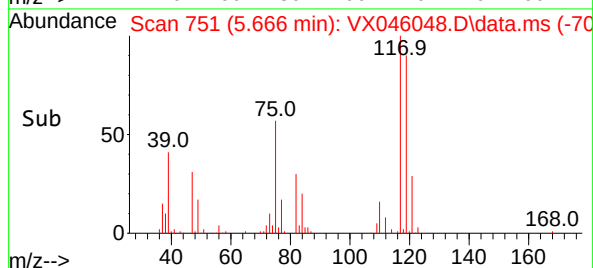
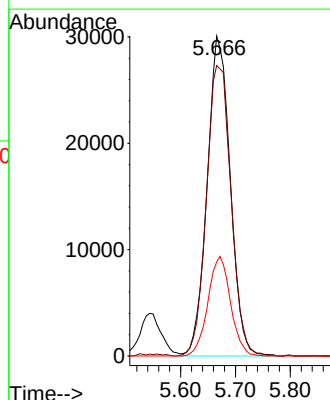
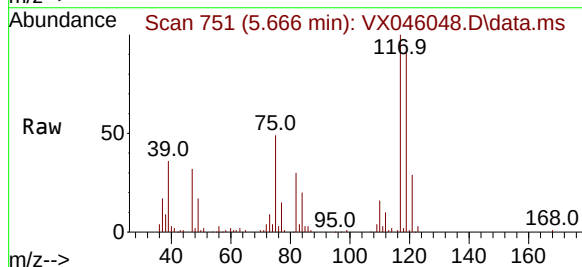
RT: 5.666 min Scan# 751

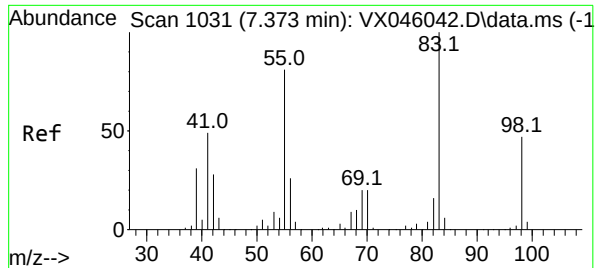
Delta R.T. -0.006 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 88100 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 90.7  | 75.2  | 112.8 |
| 121      | 29.4  | 24.2  | 36.4  |





#39

Methylcyclohexane

Concen: 49.757 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 83 Resp: 100808

Ion Ratio Lower Upper

83 100

55 82.7 64.7 97.1

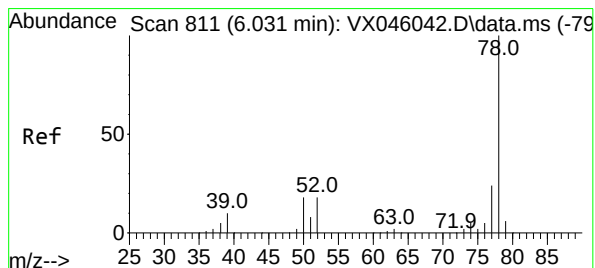
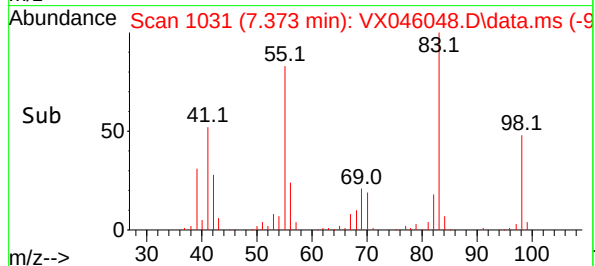
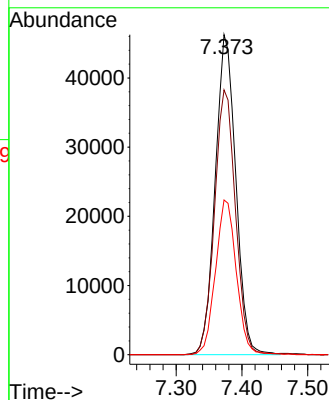
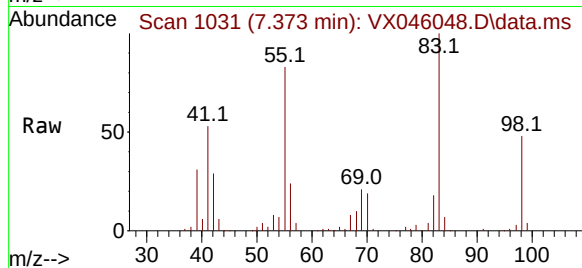
98 48.3 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#40

Benzene

Concen: 50.759 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX046048.D

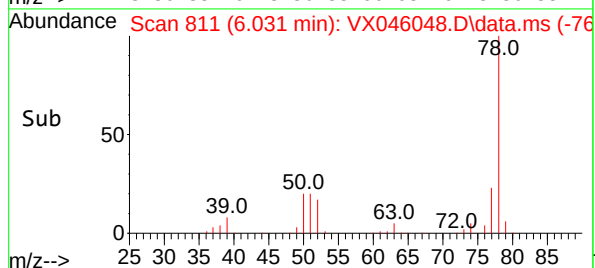
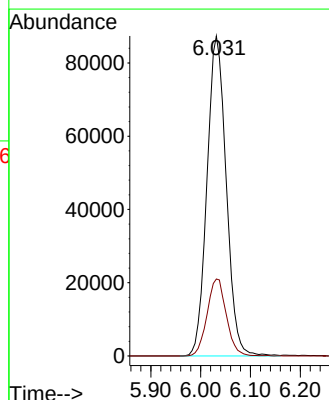
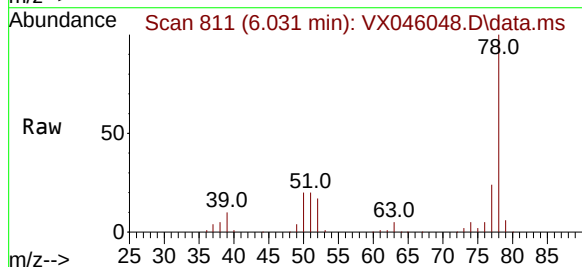
Acq: 05 May 2025 16:50

Tgt Ion: 78 Resp: 233977

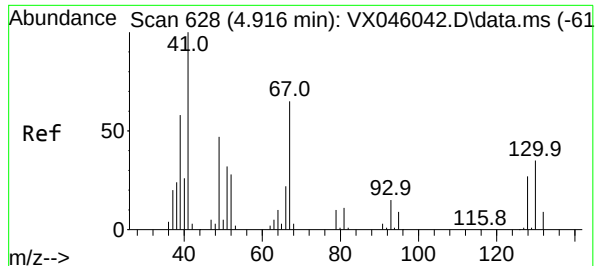
Ion Ratio Lower Upper

78 100

77 24.0 19.0 28.4







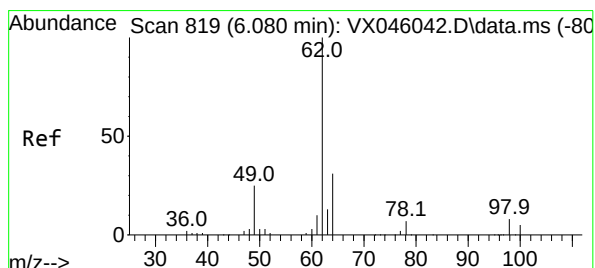
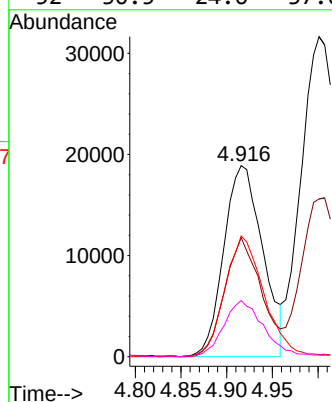
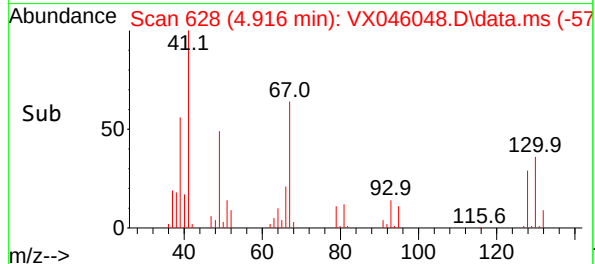
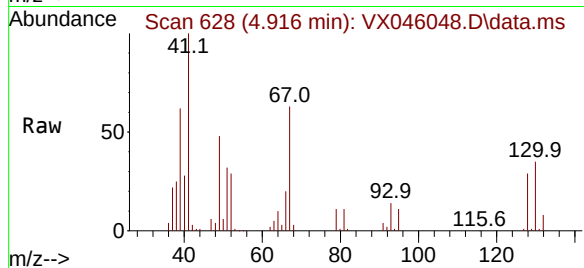
#41  
Methacrylonitrile  
Concen: 55.076 ug/l  
RT: 4.916 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

| Tgt Ion: | 41    | Resp: | 5601  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 58.7  | 47.2  | 70.8  |
| 67       | 63.7  | 50.7  | 76.1  |
| 52       | 30.5  | 24.6  | 37.0  |

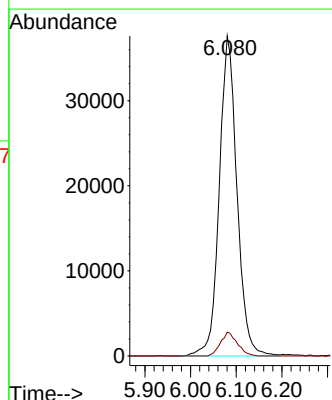
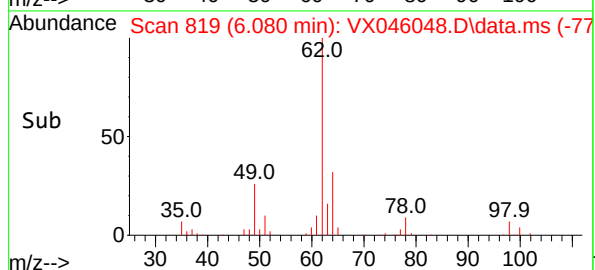
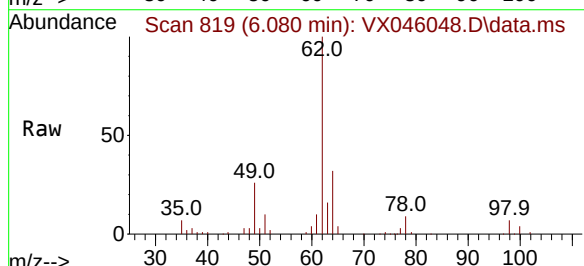
Manual Integrations  
APPROVED

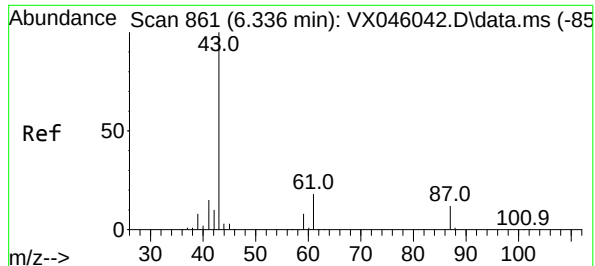
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#42  
1,2-Dichloroethane  
Concen: 50.861 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

| Tgt Ion: | 62    | Resp: | 101185 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 7.1   | 0.0   | 15.2   |





#43

Isopropyl Acetate

Concen: 52.195 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 43 Resp: 154818

Ion Ratio Lower Upper

43 100

61 17.9 14.3 21.5

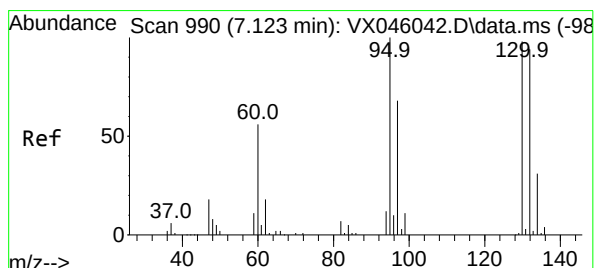
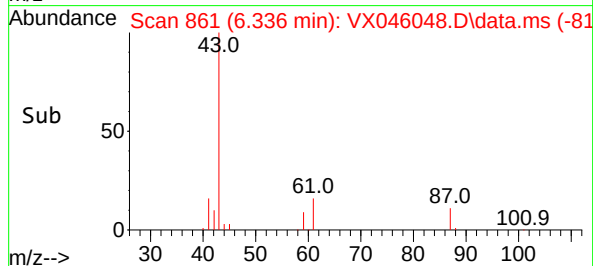
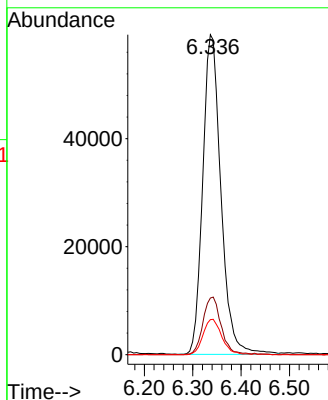
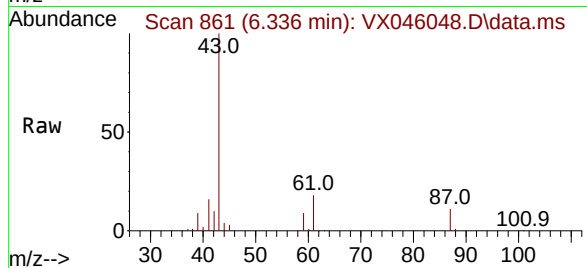
87 11.4 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#44

Trichloroethene

Concen: 50.018 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX046048.D

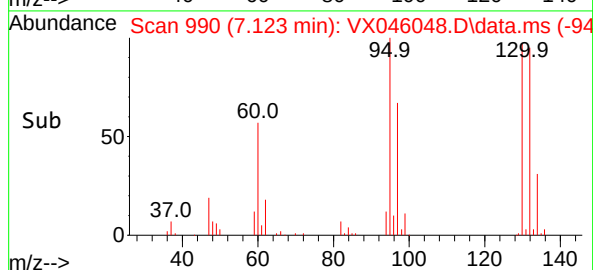
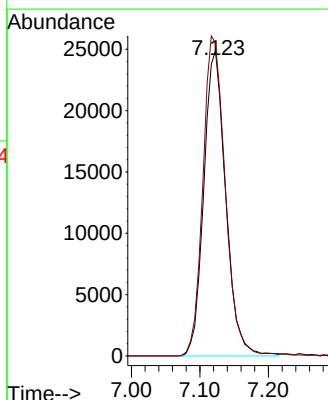
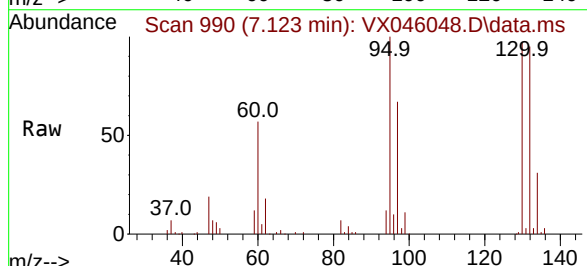
Acq: 05 May 2025 16:50

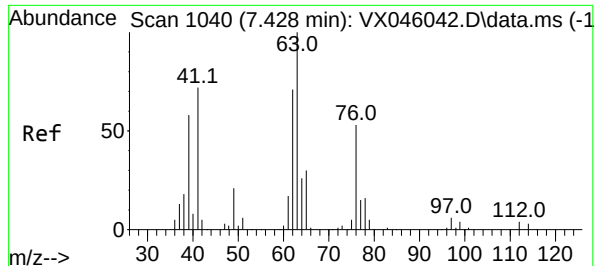
Tgt Ion:130 Resp: 55491

Ion Ratio Lower Upper

130 100

95 102.6 0.0 204.2





#45

1,2-Dichloropropane

Concen: 51.983 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 63 Resp: 5958

Ion Ratio Lower Upper

63 100

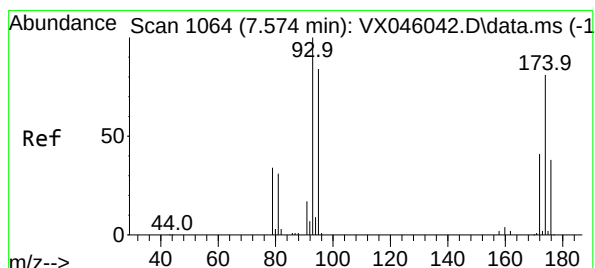
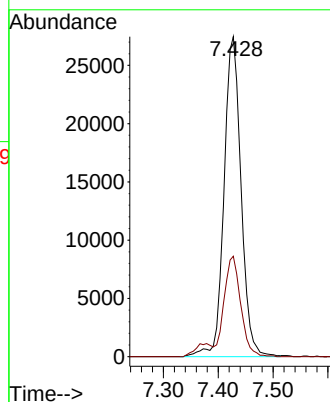
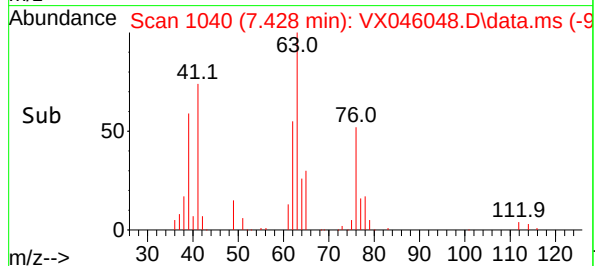
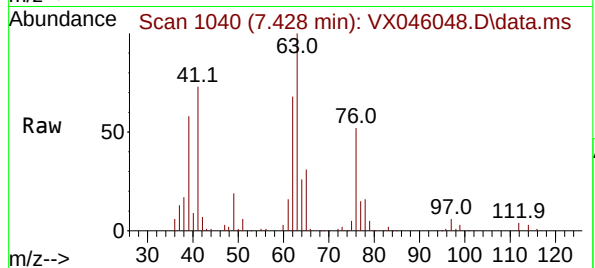
65 31.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#46

Dibromomethane

Concen: 49.978 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

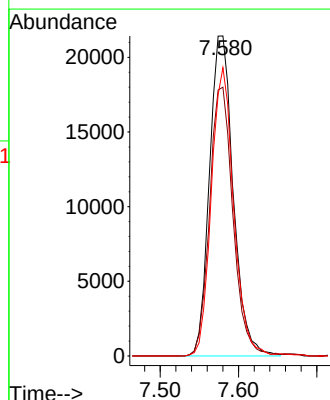
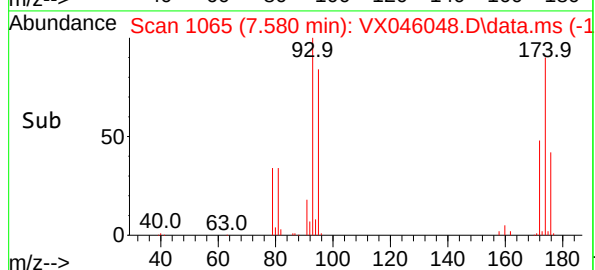
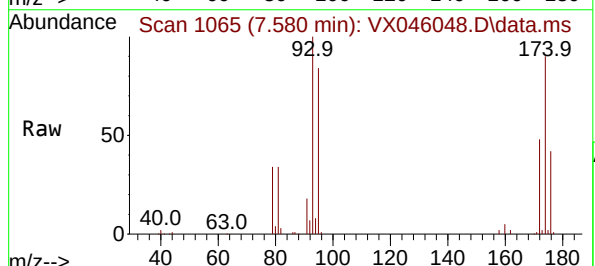
Tgt Ion: 93 Resp: 45181

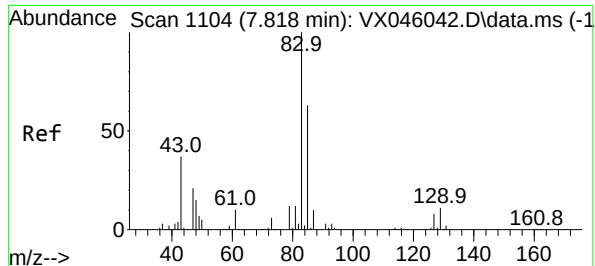
Ion Ratio Lower Upper

93 100

95 83.0 65.6 98.4

174 84.8 68.2 102.2





#47

Bromodichloromethane

Concen: 51.889 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

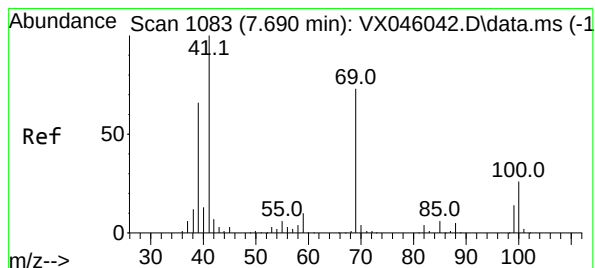
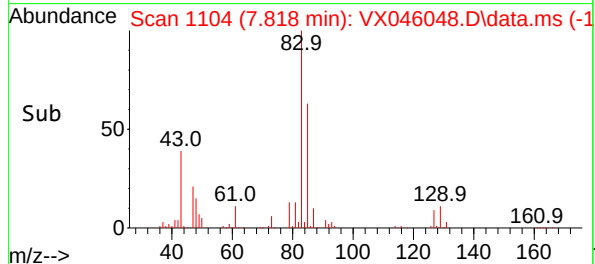
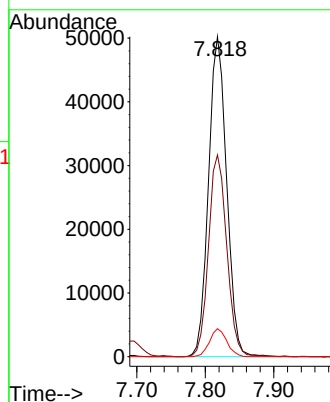
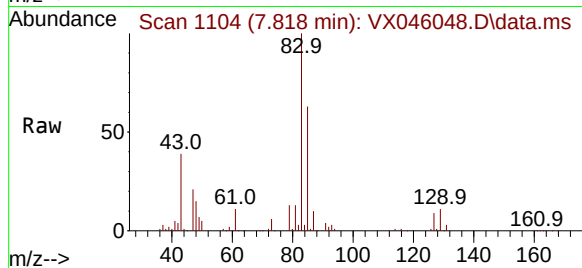
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 9238  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.0  | 50.5  | 75.7  |
| 127      | 8.8   | 6.5   | 9.7   |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#48

Methyl methacrylate

Concen: 54.226 ug/l

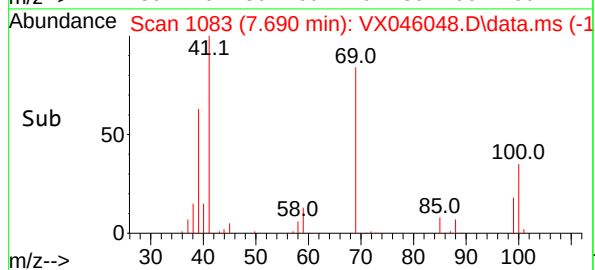
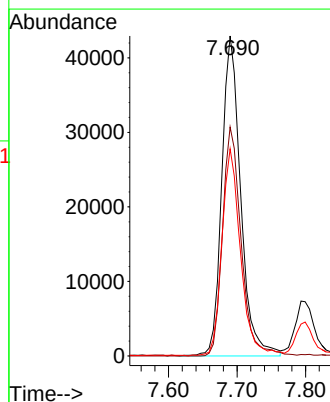
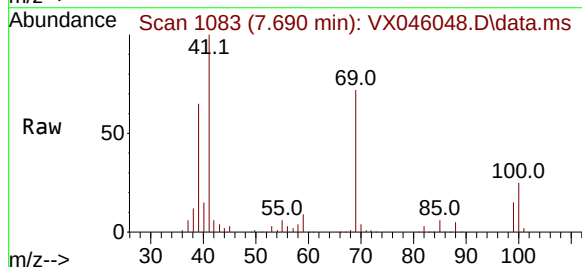
RT: 7.690 min Scan# 1083

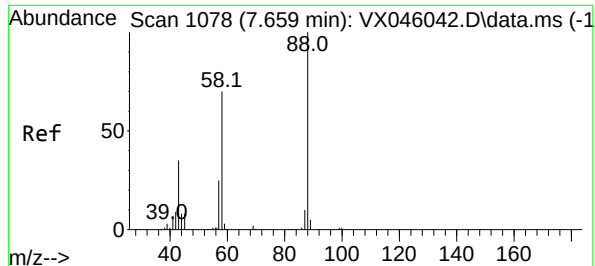
Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 82144 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 70.4  | 58.5  | 87.7  |
| 39       | 64.2  | 51.7  | 77.5  |





#49

1,4-Dioxane

Concen: 1059.599 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

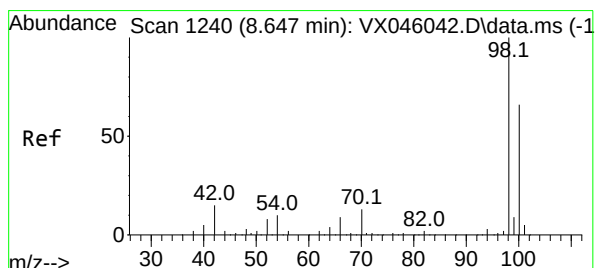
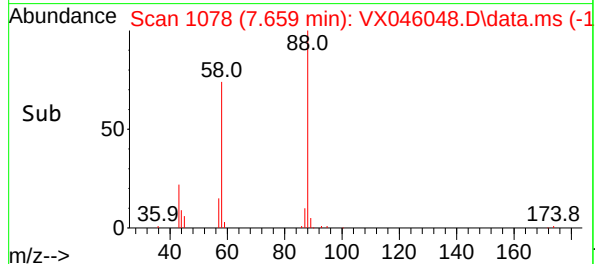
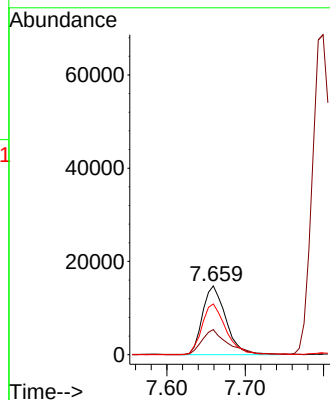
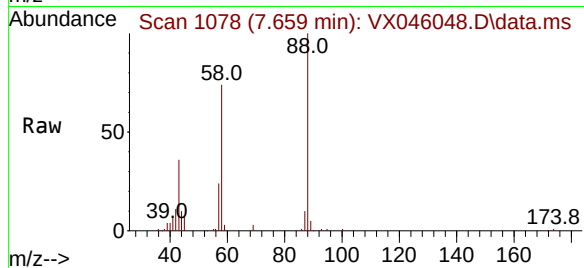
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 3047  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 39.9  | 33.4  | 50.2  |
| 58       | 76.2  | 58.6  | 88.0  |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#50

Toluene-d8

Concen: 48.984 ug/l

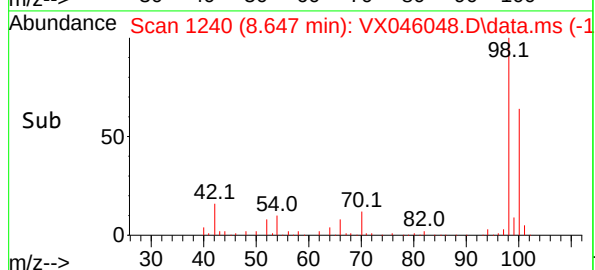
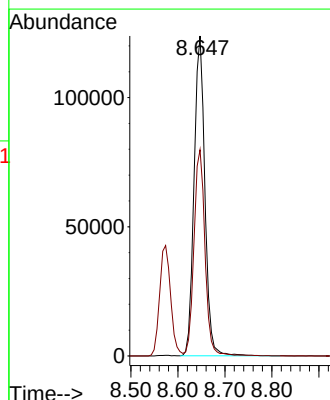
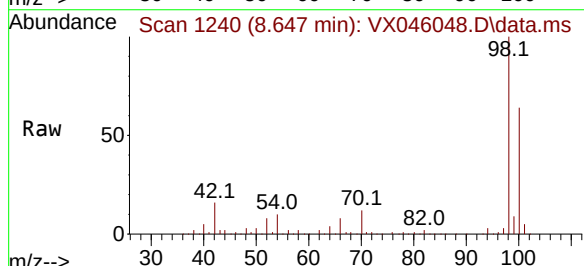
RT: 8.647 min Scan# 1240

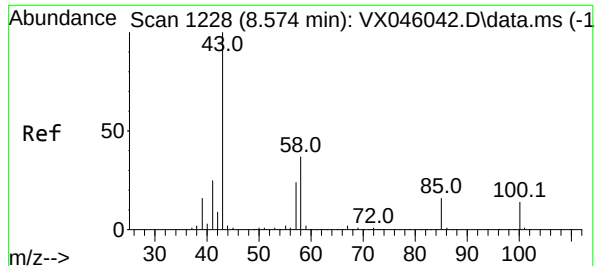
Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 198575 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 65.6  | 53.5  | 80.3   |





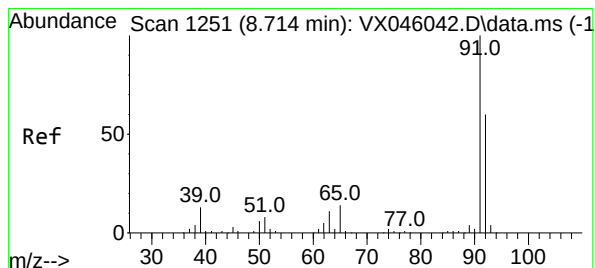
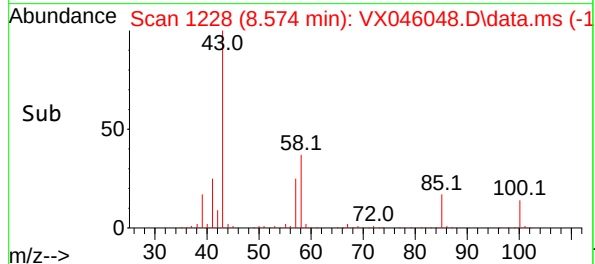
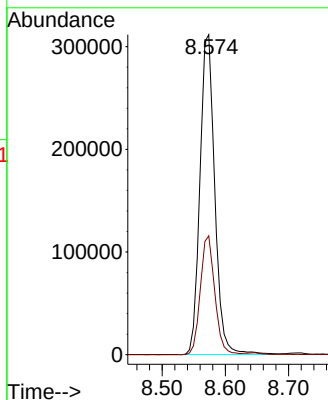
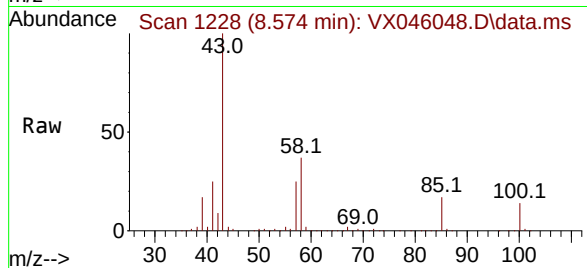
#51  
4-Methyl-2-Pentanone  
Concen: 259.133 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

Tgt Ion: 43 Resp: 510200  
Ion Ratio Lower Upper  
43 100  
58 36.1 28.9 43.3

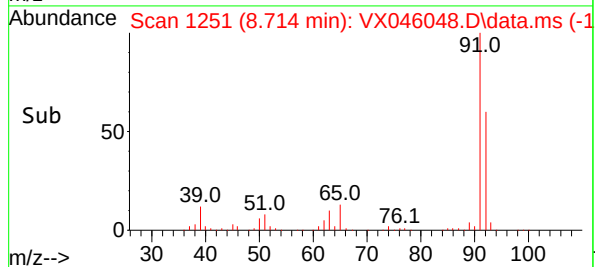
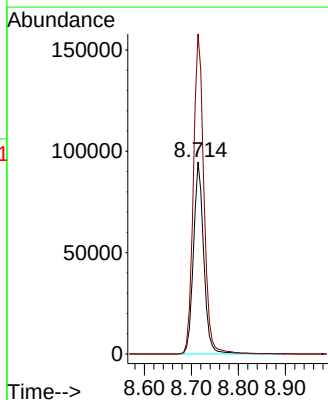
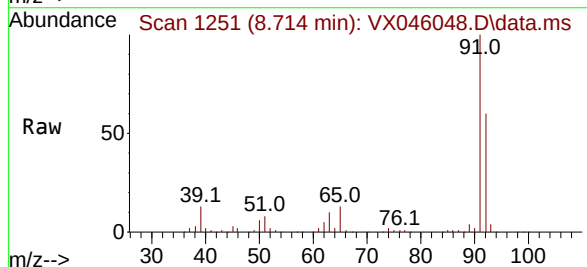
Manual Integrations  
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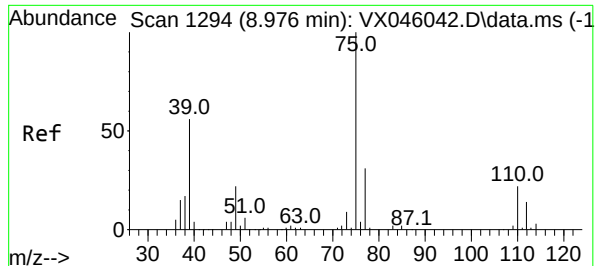
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#52  
Toluene  
Concen: 51.150 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 92 Resp: 144574  
Ion Ratio Lower Upper  
92 100  
91 171.4 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 52.920 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 75 Resp: 8375

Ion Ratio Lower Upper

75 100

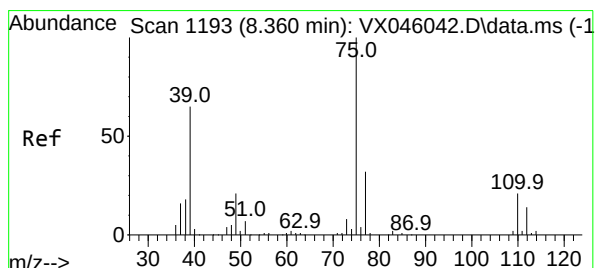
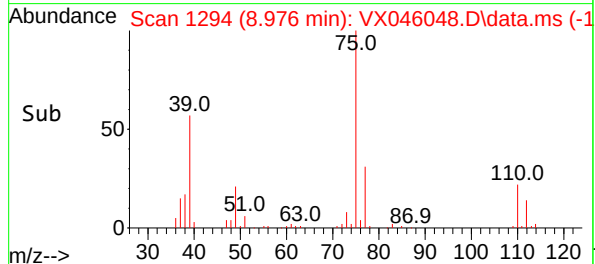
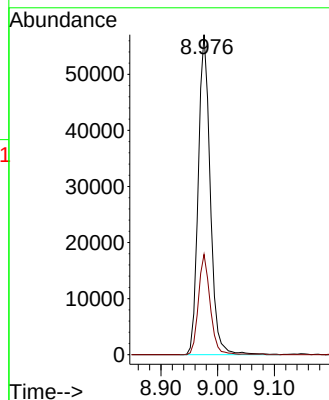
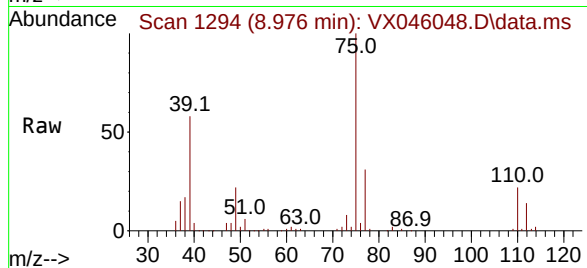
77 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#54

cis-1,3-Dichloropropene

Concen: 52.892 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

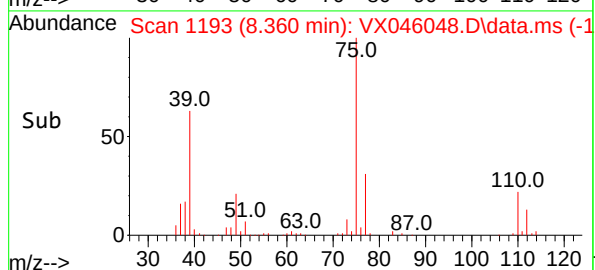
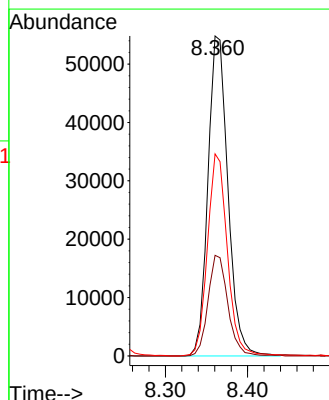
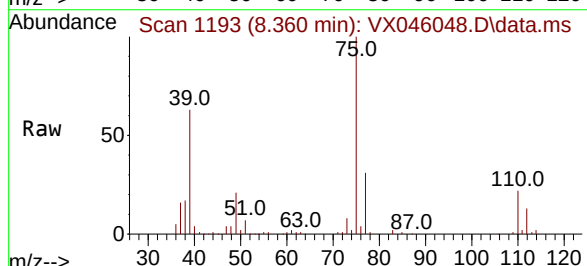
Tgt Ion: 75 Resp: 92517

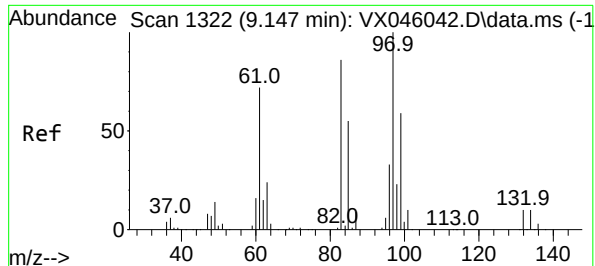
Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.0

39 63.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 50.887 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 97 Resp: 5671

Ion Ratio Lower Upper

97 100

83 89.8 69.0 103.6

85 58.4 44.3 66.5

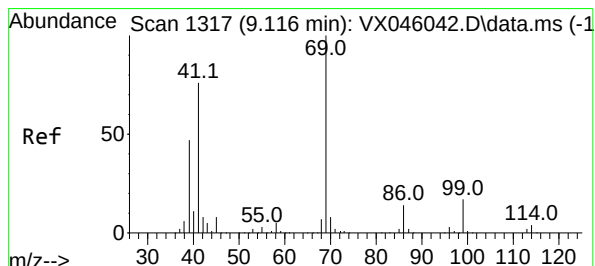
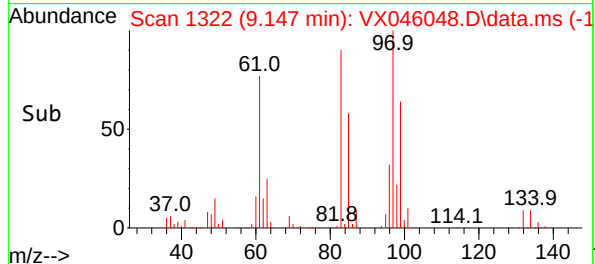
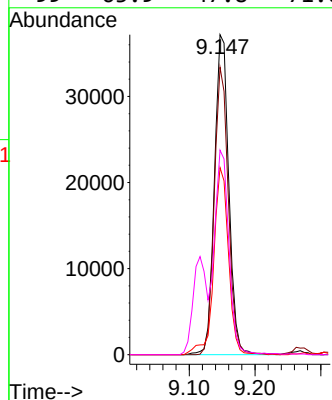
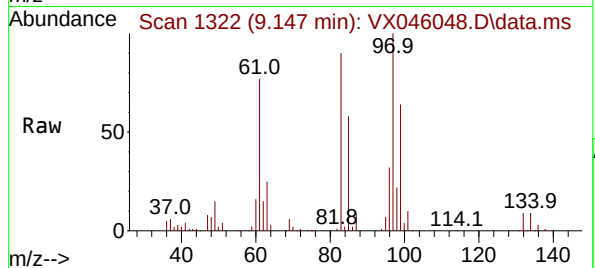
99 63.9 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#56

Ethyl methacrylate

Concen: 53.918 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

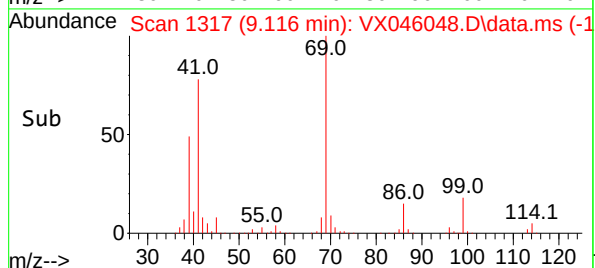
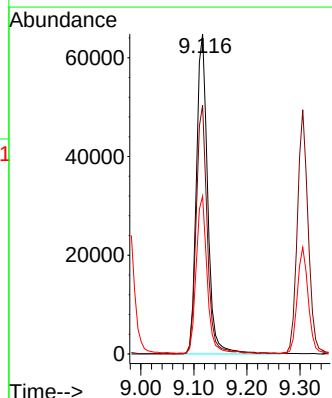
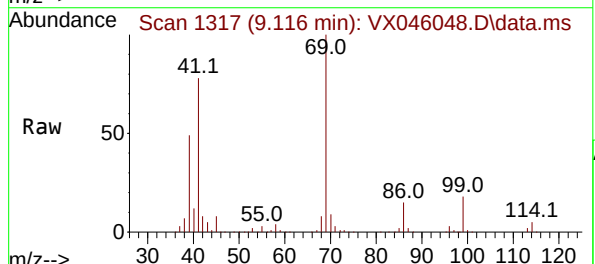
Tgt Ion: 69 Resp: 95772

Ion Ratio Lower Upper

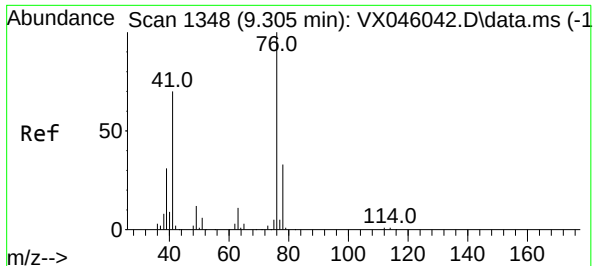
69 100

41 76.1 60.8 91.2

39 47.4 39.0 58.6







#57

1,3-Dichloropropane

Concen: 49.793 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 76 Resp: 9966

Ion Ratio Lower Upper

76 100

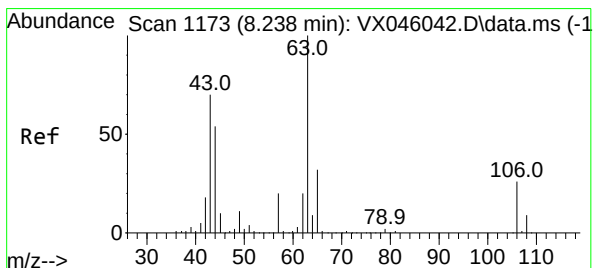
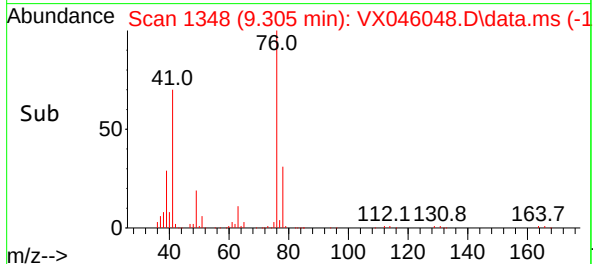
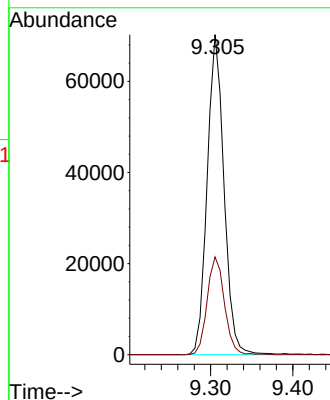
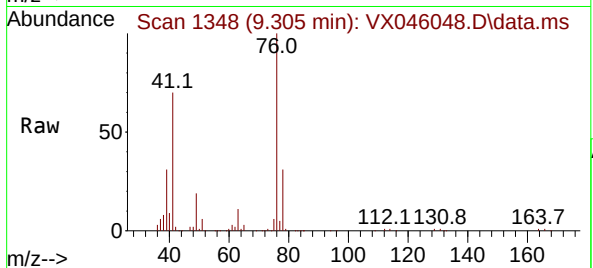
78 31.4 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 265.780 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX046048.D

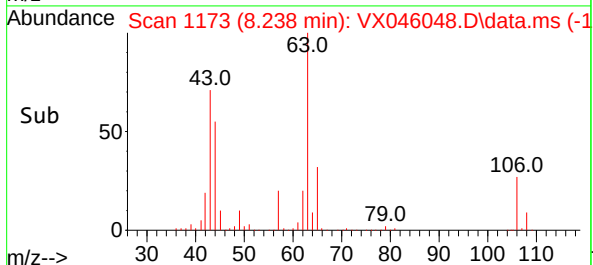
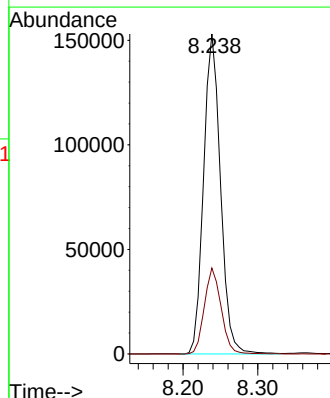
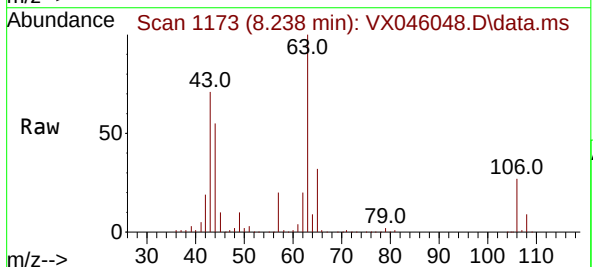
Acq: 05 May 2025 16:50

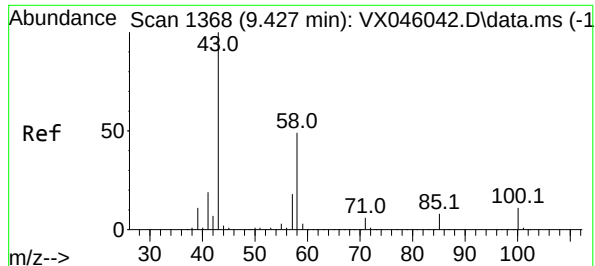
Tgt Ion: 63 Resp: 240681

Ion Ratio Lower Upper

63 100

106 26.6 21.5 32.3





#59

2-Hexanone

Concen: 268.218 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 43 Resp: 39070

Ion Ratio Lower Upper

43 100

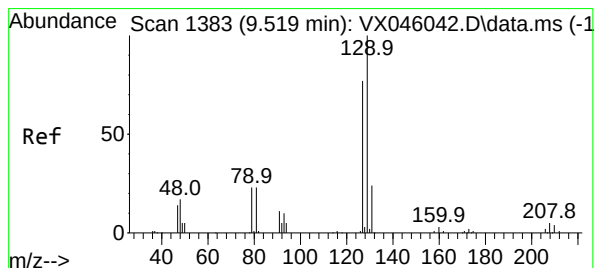
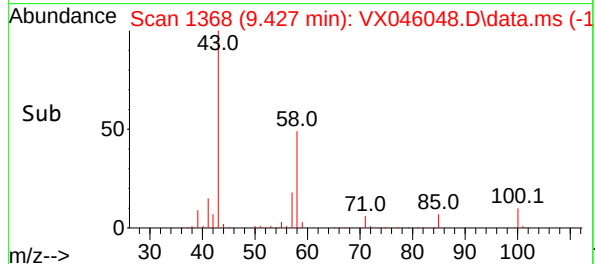
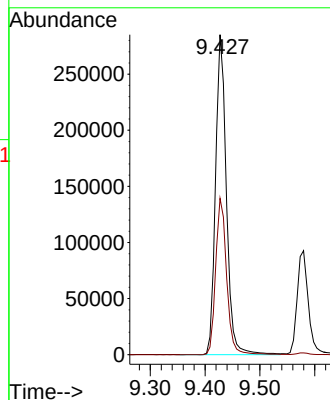
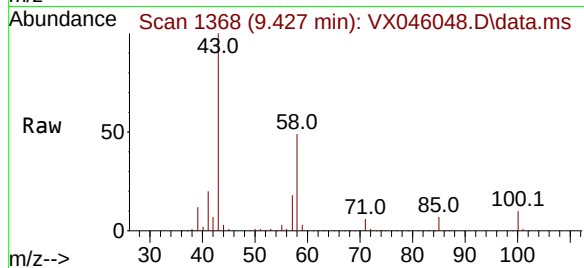
58 49.6 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#60

Dibromochloromethane

Concen: 52.075 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX046048.D

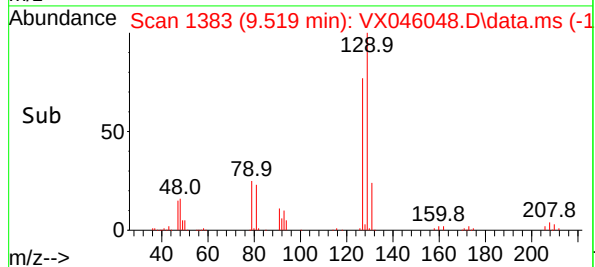
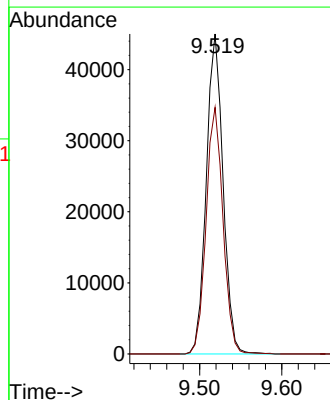
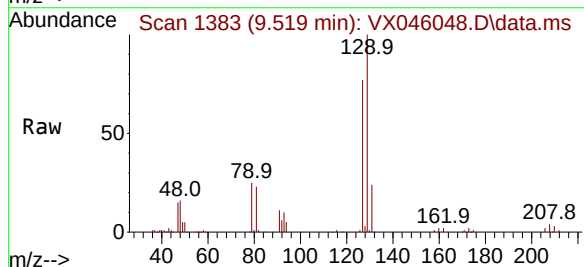
Acq: 05 May 2025 16:50

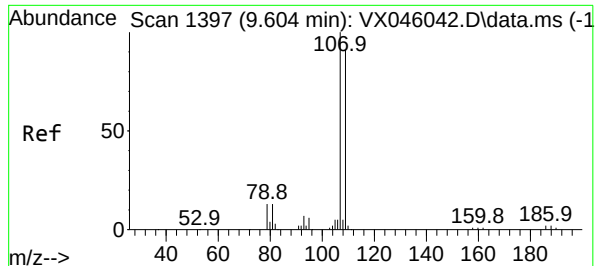
Tgt Ion:129 Resp: 63738

Ion Ratio Lower Upper

129 100

127 77.9 39.3 117.8





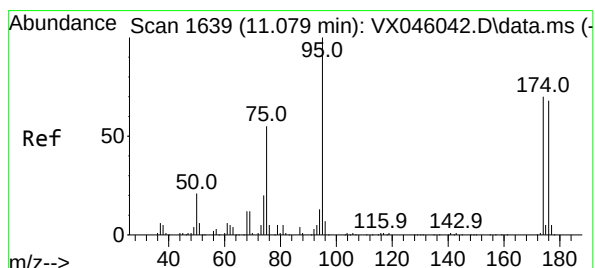
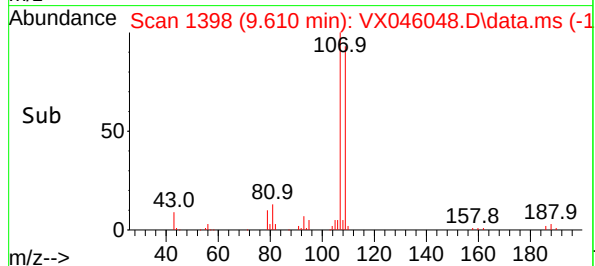
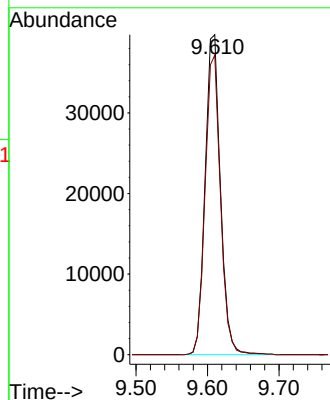
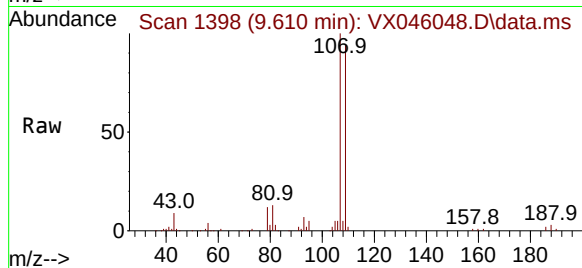
#61  
1,2-Dibromoethane  
Concen: 51.050 ug/l  
RT: 9.610 min Scan# 1398  
Delta R.T. 0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX050525

Tgt Ion:107 Resp: 59134  
Ion Ratio Lower Upper  
107 100  
109 93.8 73.3 109.9

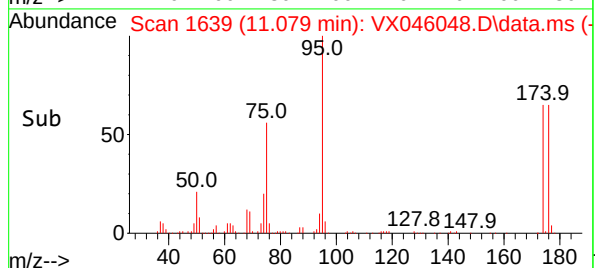
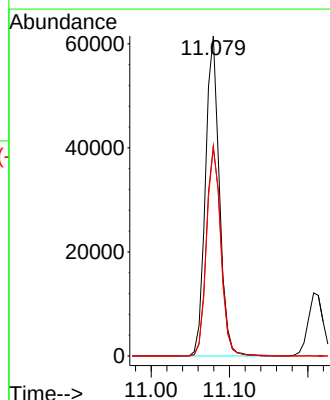
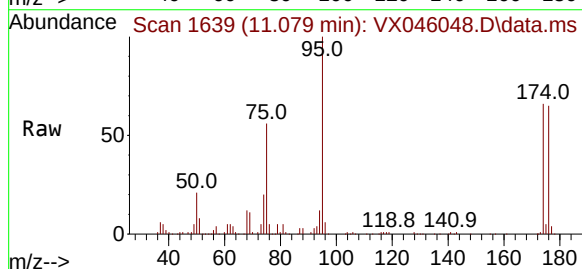
Manual Integrations  
APPROVED

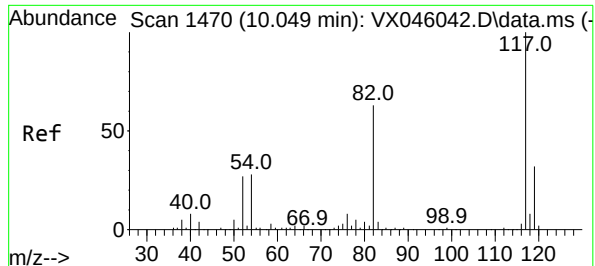
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#62  
4-Bromofluorobenzene  
Concen: 48.596 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

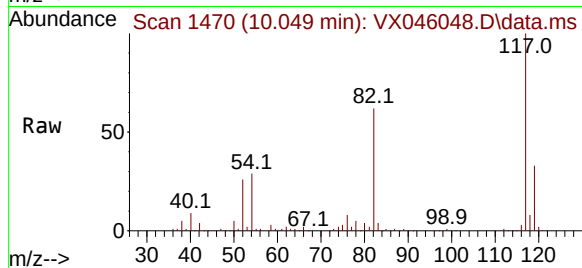
Tgt Ion: 95 Resp: 75568  
Ion Ratio Lower Upper  
95 100  
174 68.2 0.0 135.8  
176 66.5 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

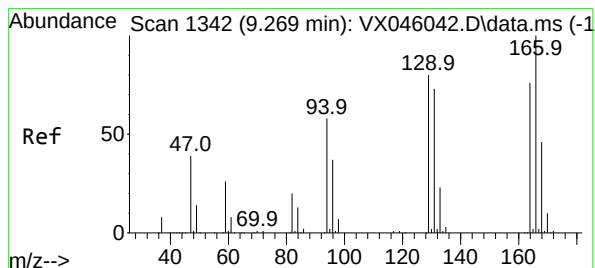
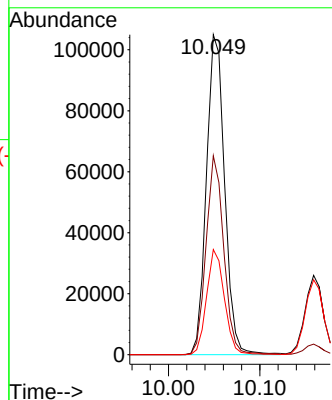
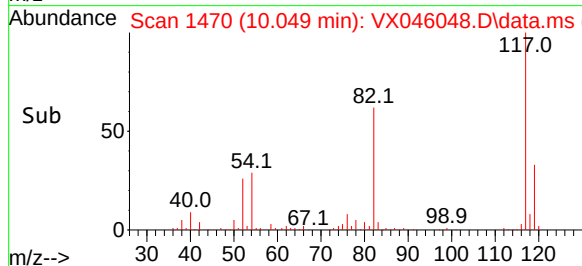
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:117 Resp: 145078  
Ion Ratio Lower Upper  
117 100  
82 62.1 50.6 76.0  
119 32.9 25.8 38.6

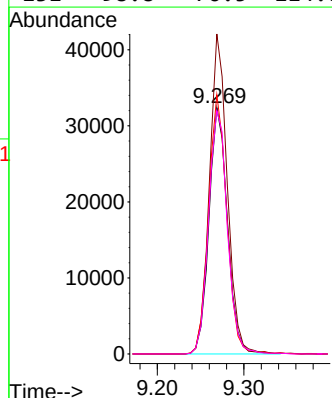
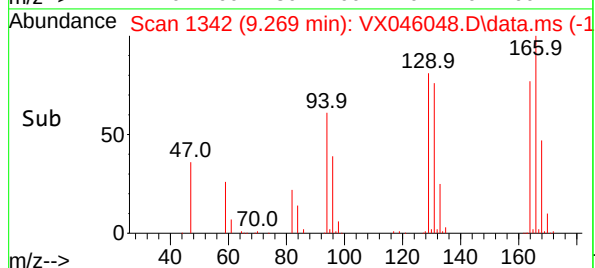
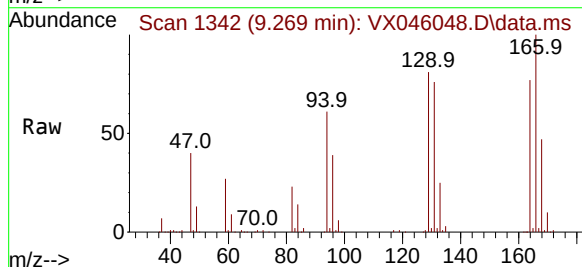
Manual Integrations  
APPROVED

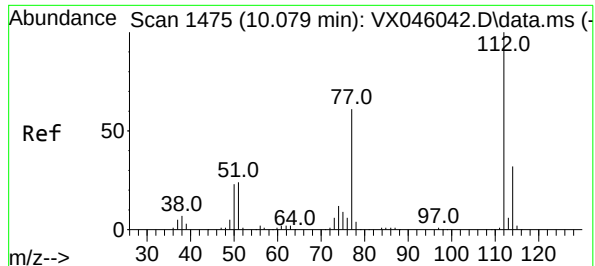
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#64  
Tetrachloroethene  
Concen: 46.795 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

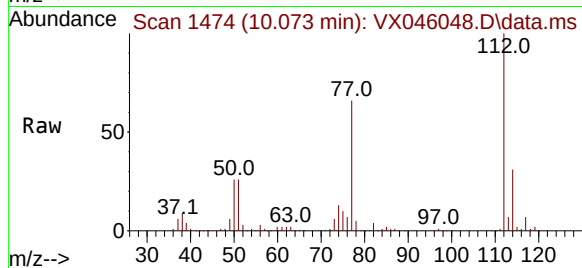
Tgt Ion:164 Resp: 48034  
Ion Ratio Lower Upper  
164 100  
166 129.9 105.0 157.6  
129 105.3 83.5 125.3  
131 98.8 76.5 114.7





#65  
Chlorobenzene  
Concen: 48.699 ug/l  
RT: 10.073 min Scan# 1475  
Delta R.T. -0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

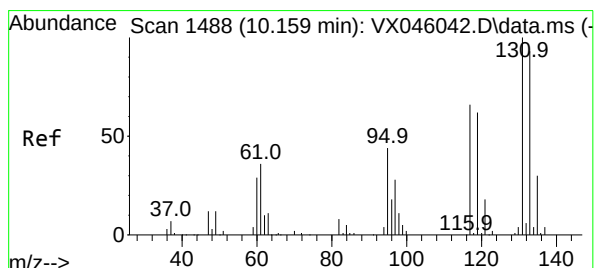
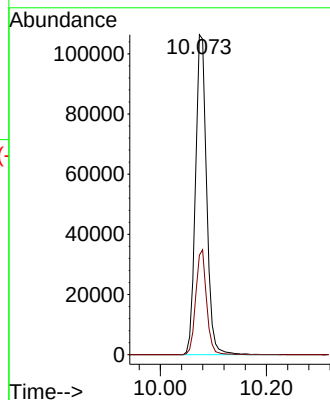
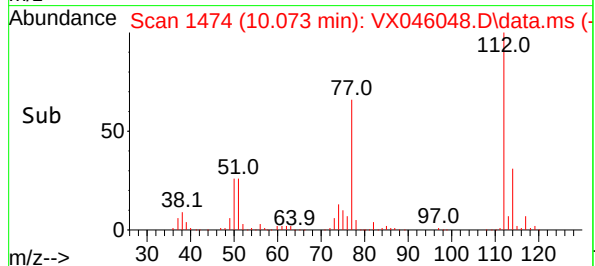
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:112 Resp: 154640  
Ion Ratio Lower Upper  
112 100  
114 31.1 25.4 38.2

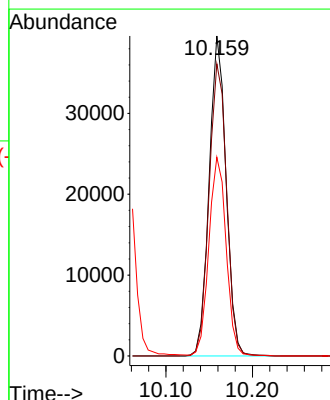
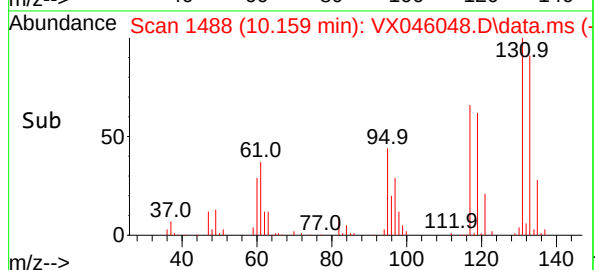
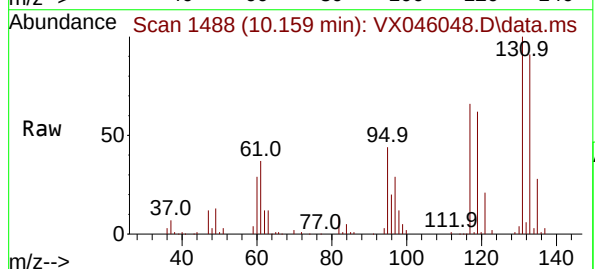
Manual Integrations  
APPROVED

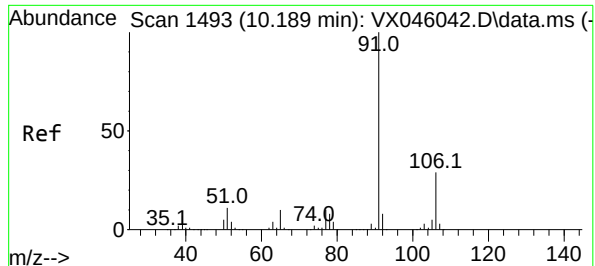
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 49.557 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion:131 Resp: 53735  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.3 141.9  
119 63.7 31.6 95.0





#67

Ethyl Benzene

Concen: 50.245 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 91 Resp: 281239

Ion Ratio Lower Upper

91 100

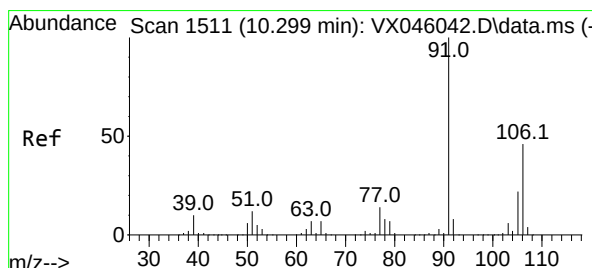
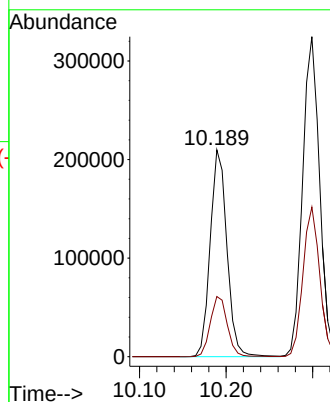
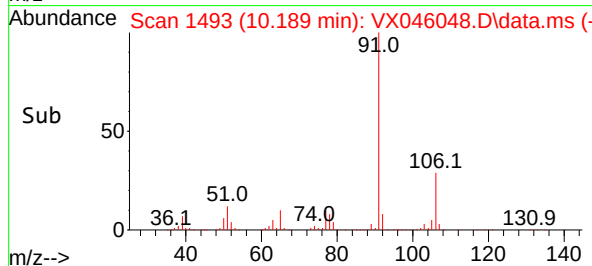
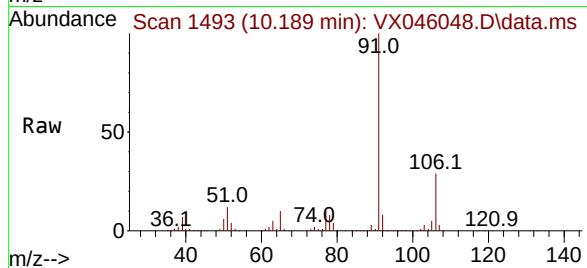
106 29.1 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#68

m/p-Xylenes

Concen: 101.022 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046048.D

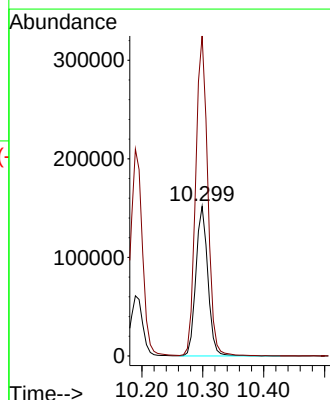
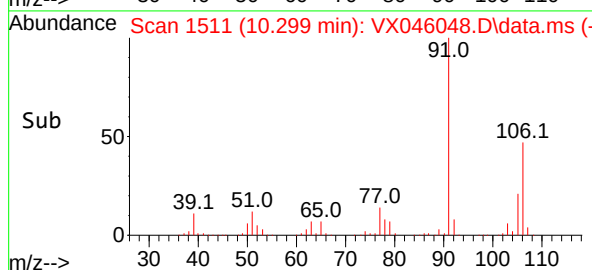
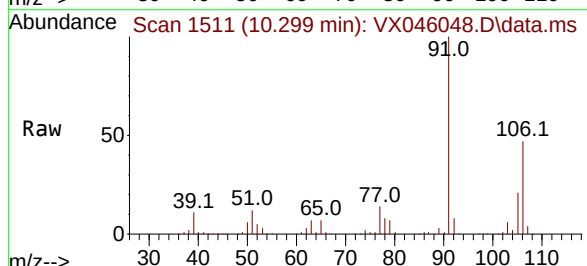
Acq: 05 May 2025 16:50

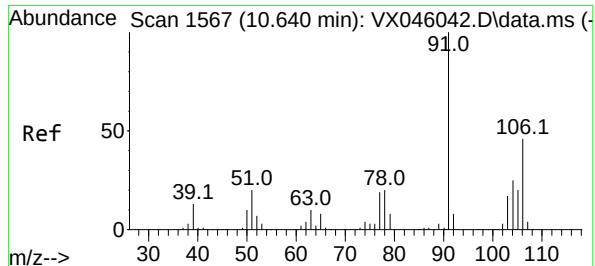
Tgt Ion:106 Resp: 206813

Ion Ratio Lower Upper

106 100

91 215.6 171.2 256.8





#69

o-Xylene

Concen: 50.841 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion:106 Resp: 101469

Ion Ratio Lower Upper

106 100

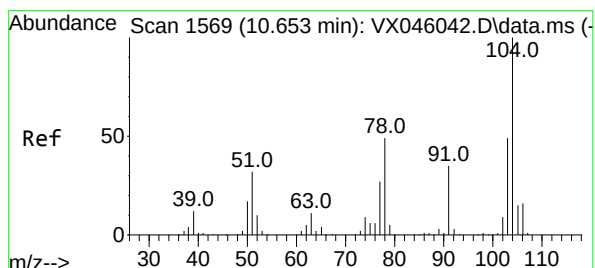
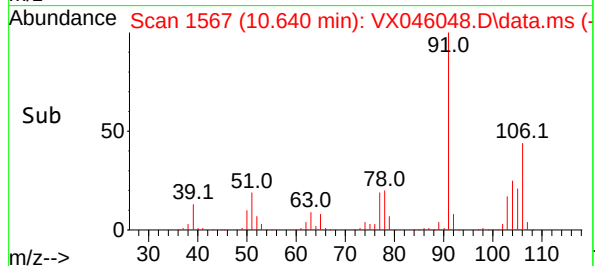
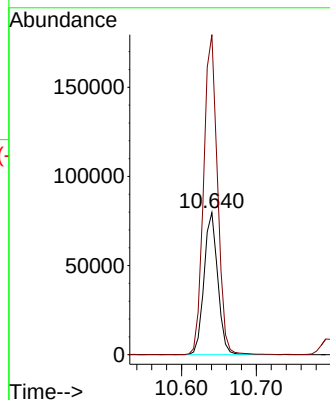
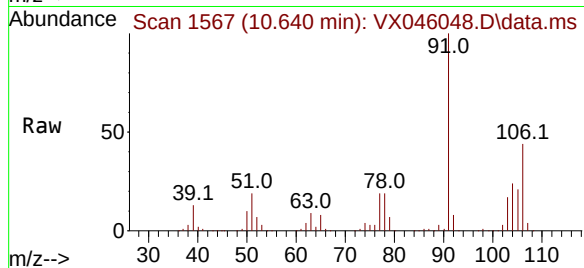
91 227.7 112.7 338.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#70

Styrene

Concen: 51.907 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

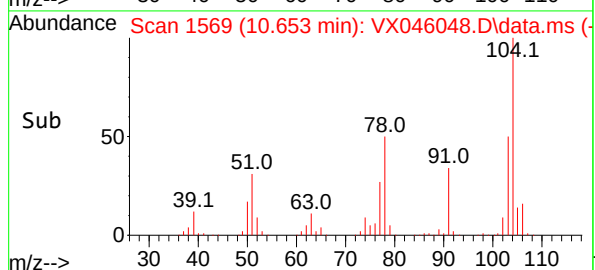
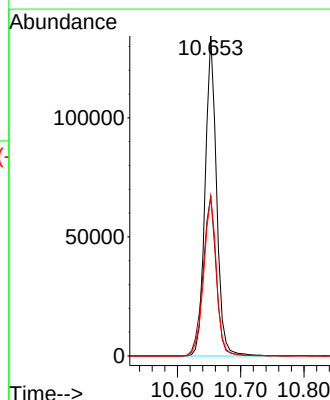
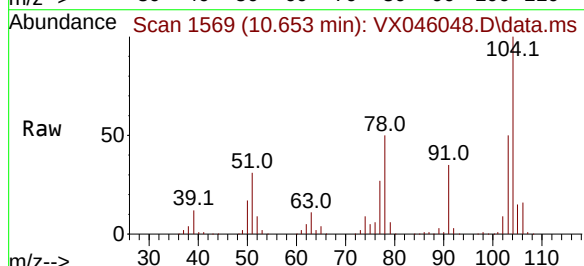
Tgt Ion:104 Resp: 169703

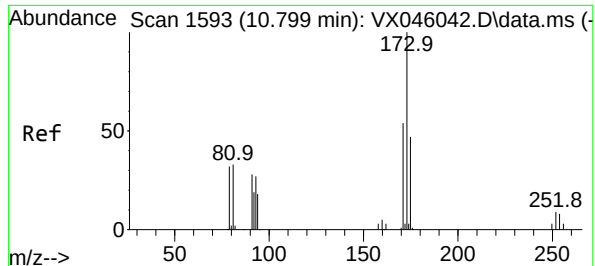
Ion Ratio Lower Upper

104 100

78 57.6 45.7 68.5

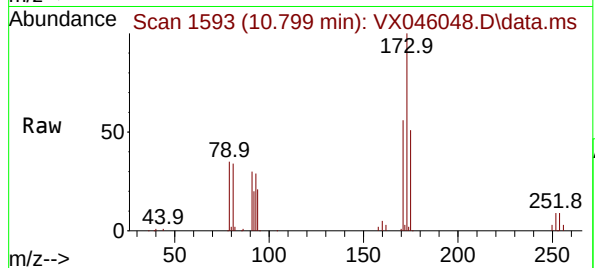
103 55.5 43.7 65.5





#71  
Bromoform  
Concen: 49.583 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

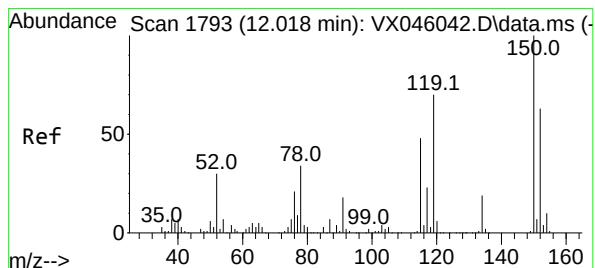
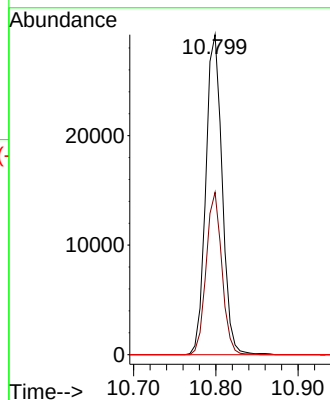
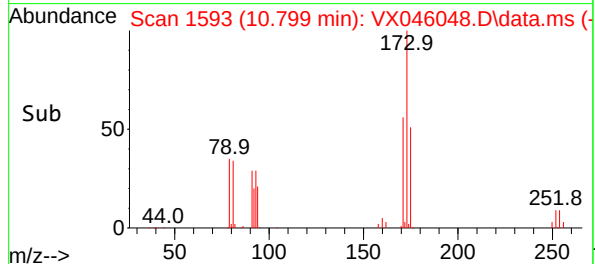
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX050525



Tgt Ion:173 Resp: 40364  
Ion Ratio Lower Upper  
173 100  
175 48.8 23.4 70.0  
254 0.0 0.0 0.0

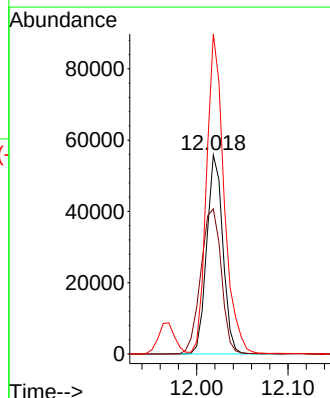
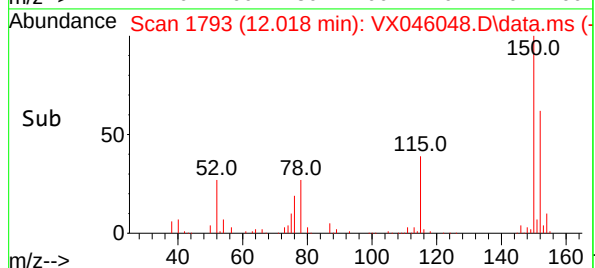
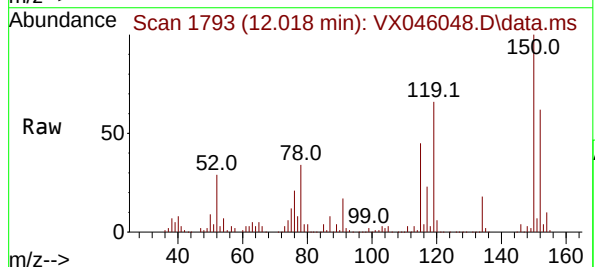
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

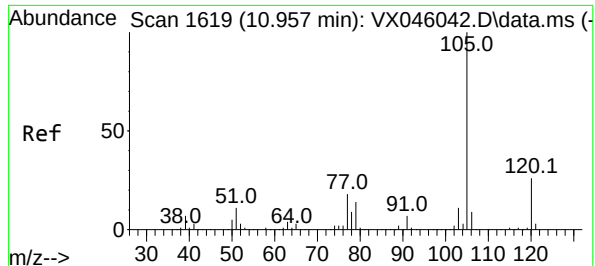


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion:152 Resp: 68229  
Ion Ratio Lower Upper  
152 100  
115 93.3 46.9 140.7  
150 175.3 0.0 351.0

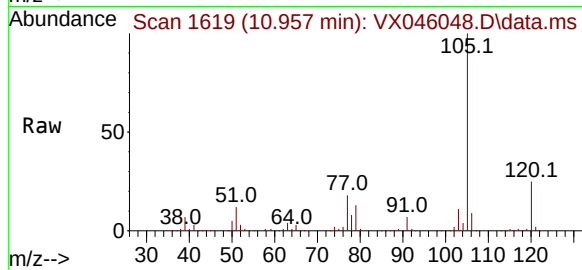






#73  
Isopropylbenzene  
Concen: 50.733 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

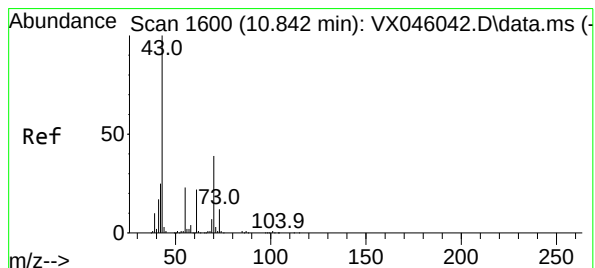
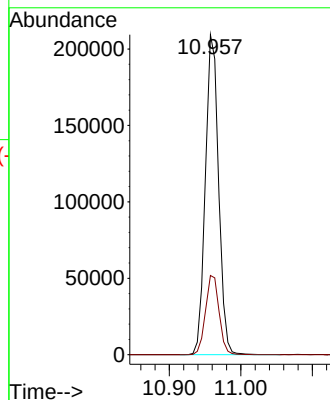
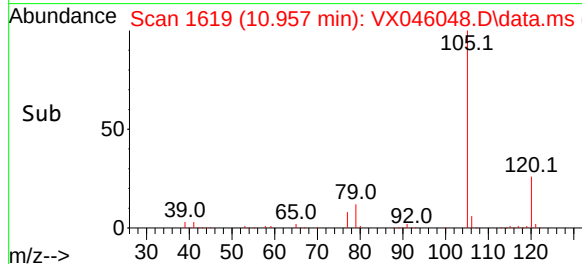
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:105 Resp: 269484  
Ion Ratio Lower Upper  
105 100  
120 25.4 12.8 38.4

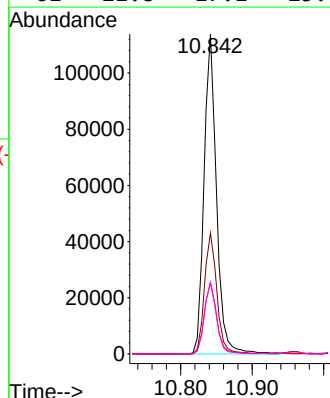
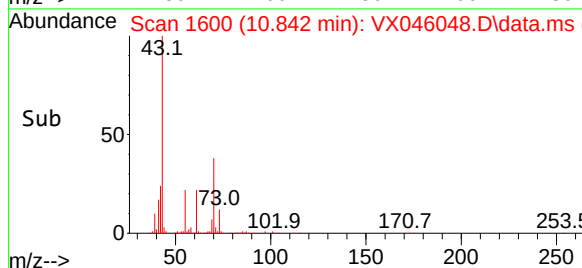
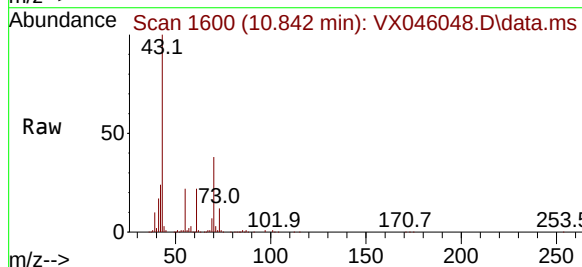
Manual Integrations  
APPROVED

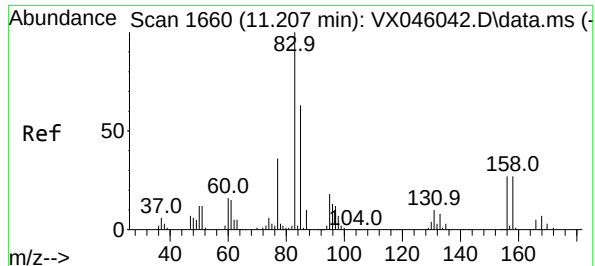
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#74  
N-ethyl acetate  
Concen: 52.407 ug/l  
RT: 10.842 min Scan# 1600  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 137559  
Ion Ratio Lower Upper  
43 100  
70 37.9 30.9 46.3  
55 22.7 18.7 28.1  
61 21.8 17.1 25.7





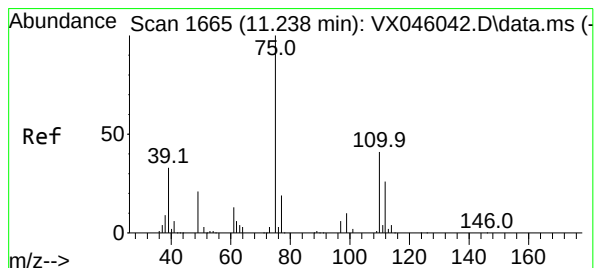
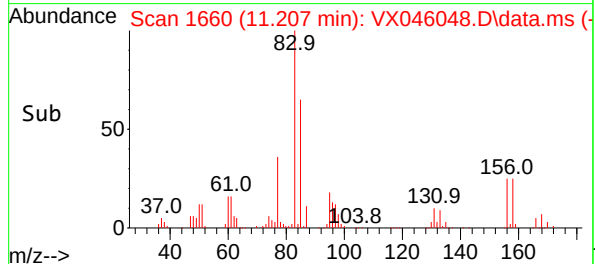
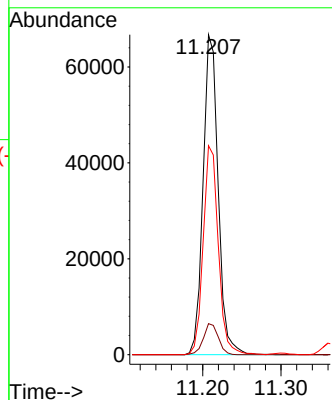
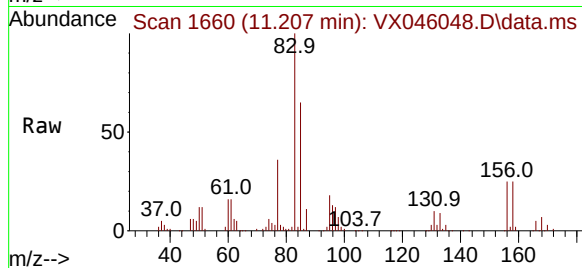
#75  
1,1,2,2-Tetrachloroethane  
Concen: 47.827 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

Tgt Ion: 83 Resp: 8902  
Ion Ratio Lower Upper  
83 100  
131 9.7 5.0 14.9  
85 65.5 31.9 95.7

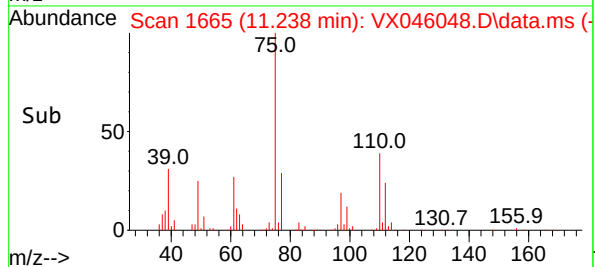
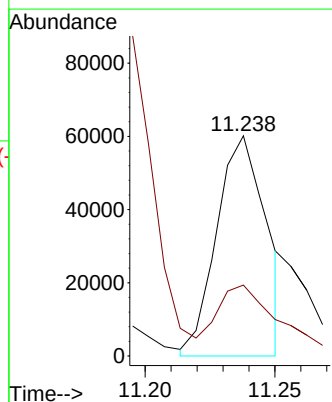
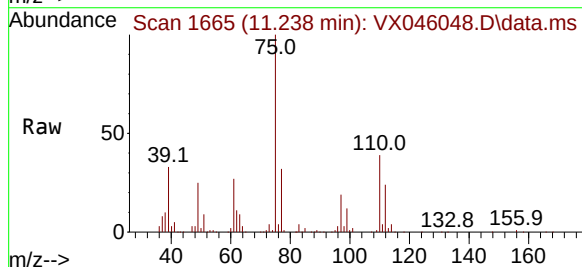
Manual Integrations  
APPROVED

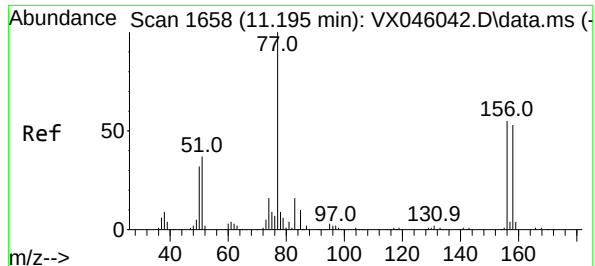
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#76  
1,2,3-Trichloropropane  
Concen: 48.568 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 79763  
Ion Ratio Lower Upper  
75 100  
77 40.8 20.5 61.5





#77

Bromobenzene

Concen: 48.549 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

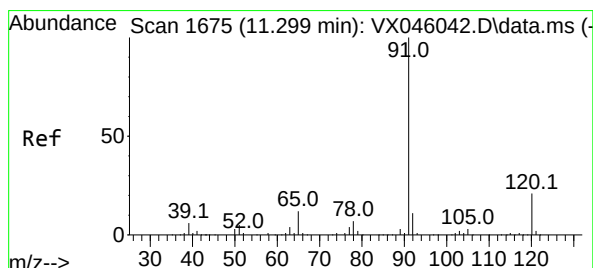
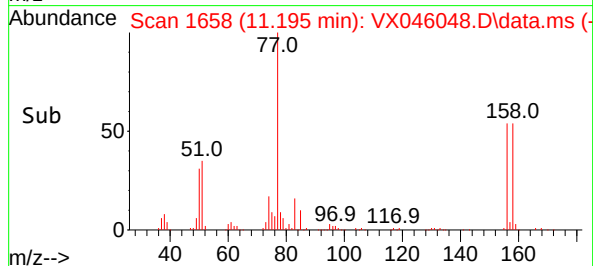
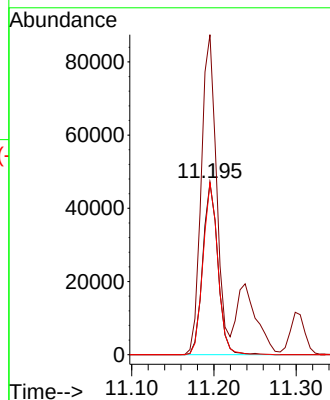
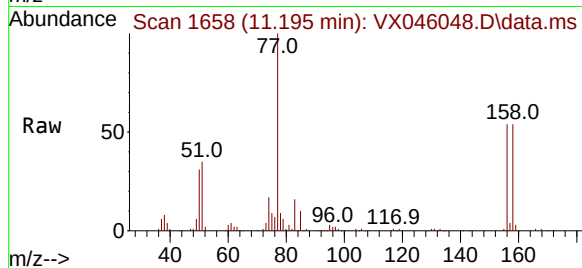
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 156   | Resp: | 5987  |
| Ion      | Ratio | Lower | Upper |
| 156      | 100   |       |       |
| 77       | 189.0 | 92.8  | 278.3 |
| 158      | 98.9  | 48.8  | 146.3 |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#78

n-propylbenzene

Concen: 50.562 ug/l

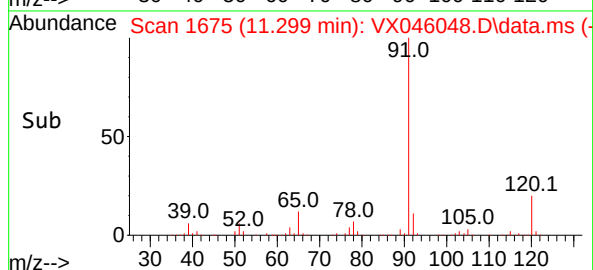
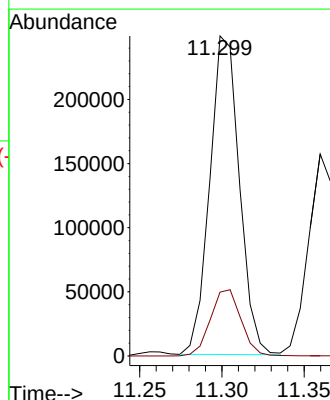
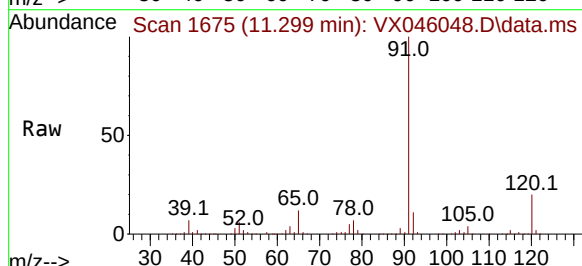
RT: 11.299 min Scan# 1675

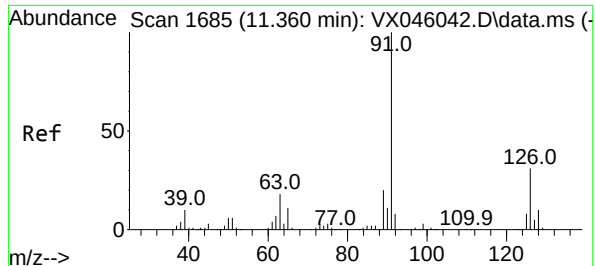
Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 312285 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 120      | 21.4  | 10.8  | 32.4   |





#79

2-Chlorotoluene

Concen: 49.107 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX050525

Tgt Ion: 91 Resp: 195630

Ion Ratio Lower Upper

91 100

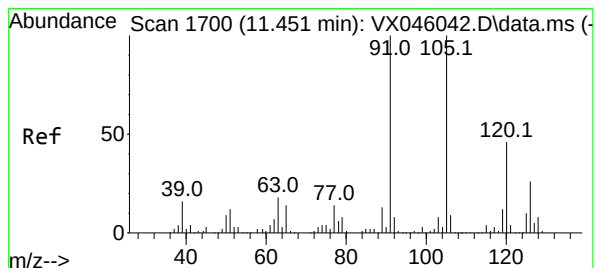
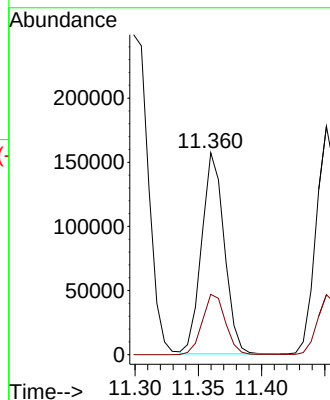
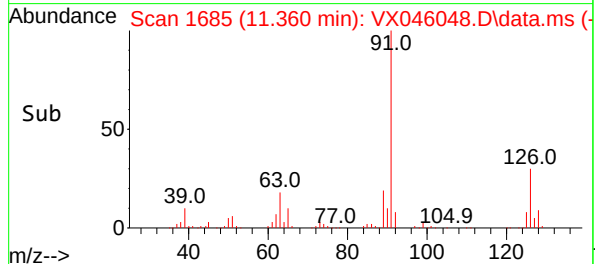
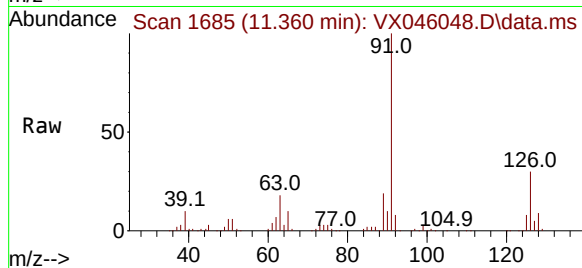
126 30.8 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.500 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046048.D

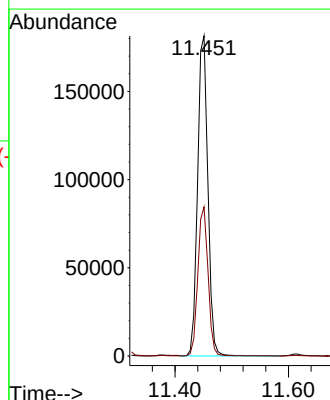
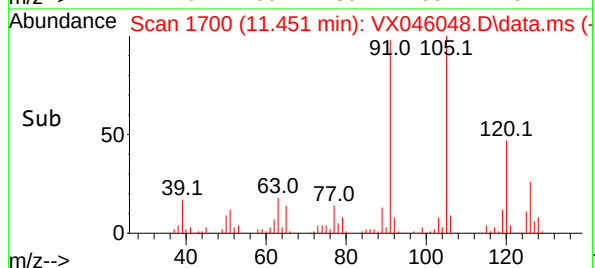
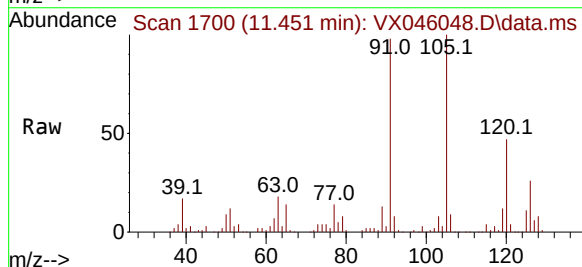
Acq: 05 May 2025 16:50

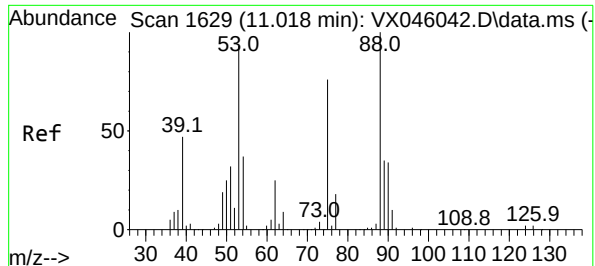
Tgt Ion:105 Resp: 228538

Ion Ratio Lower Upper

105 100

120 46.3 23.1 69.2





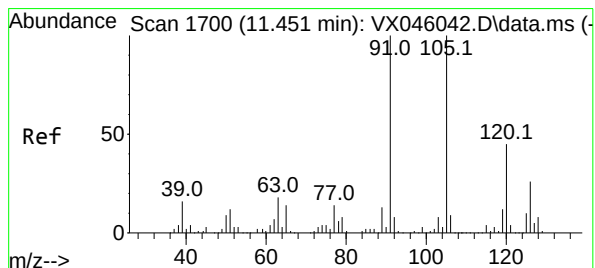
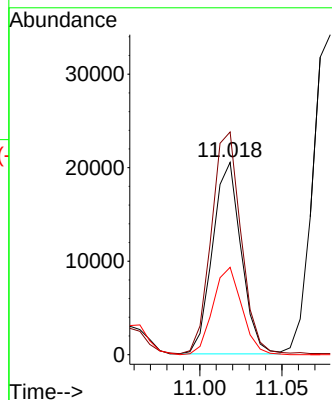
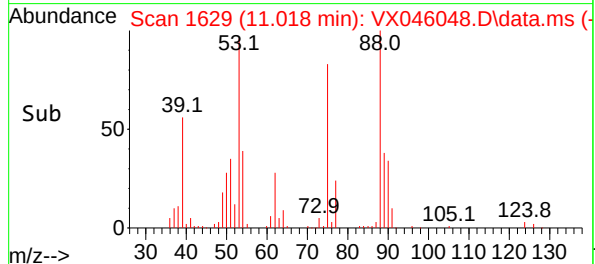
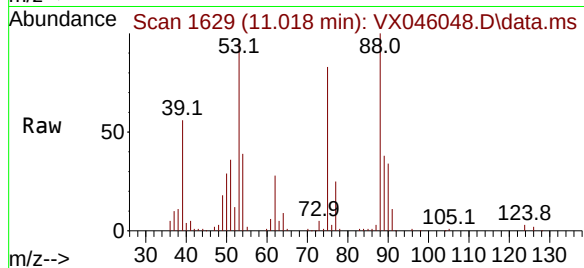
#81  
trans-1,4-Dichloro-2-butene  
Concen: 49.276 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX050525

Tgt Ion: 75 Resp: 2485  
Ion Ratio Lower Upper  
75 100  
53 122.3 100.5 150.7  
89 46.2 37.0 55.6

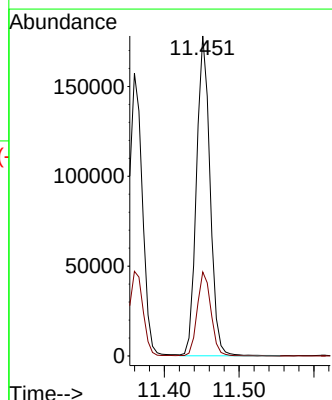
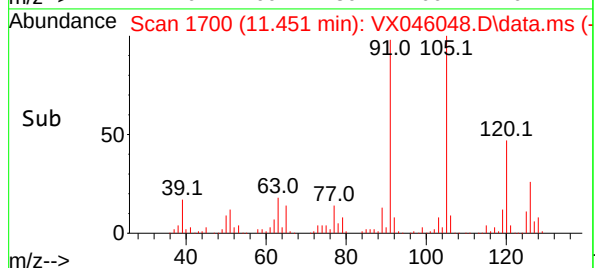
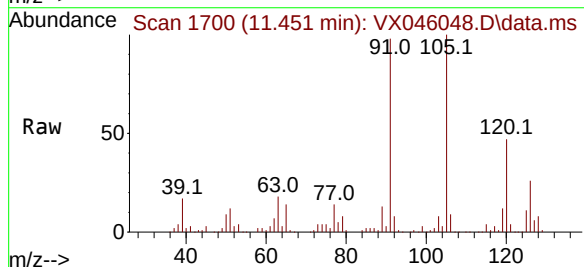
Manual Integrations  
APPROVED

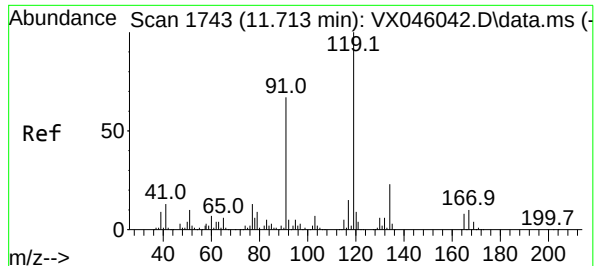
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#82  
4-Chlorotoluene  
Concen: 50.661 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

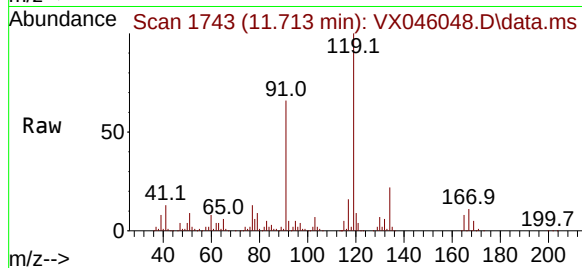
Tgt Ion: 91 Resp: 223811  
Ion Ratio Lower Upper  
91 100  
126 26.5 13.3 39.8





#83  
tert-Butylbenzene  
Concen: 50.511 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

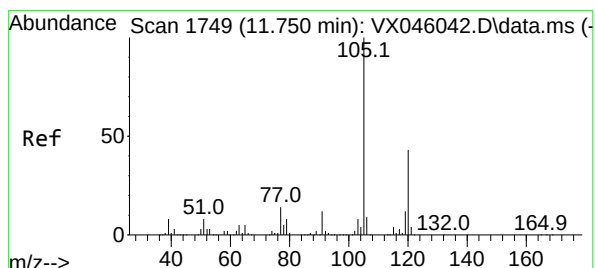
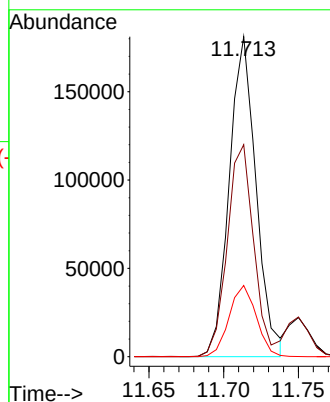
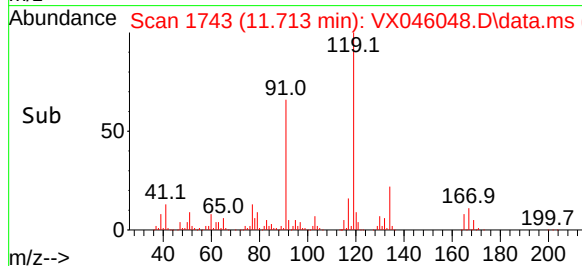
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:119 Resp: 225783  
Ion Ratio Lower Upper  
119 100  
91 64.9 32.9 98.7  
134 22.6 11.4 34.1

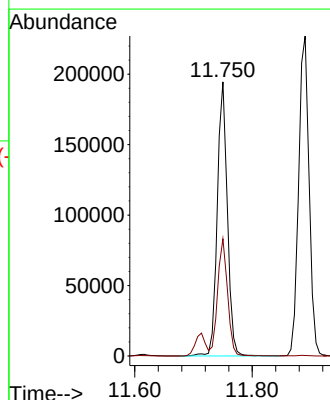
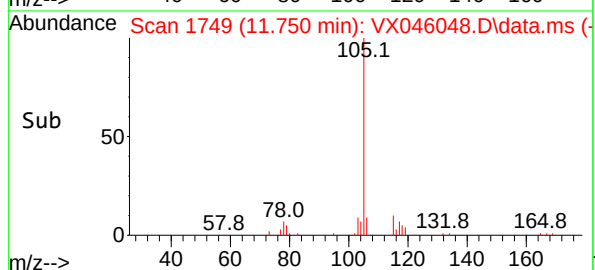
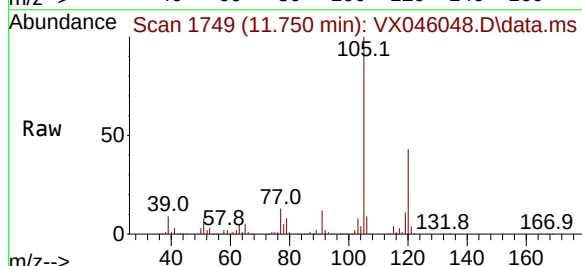
Manual Integrations  
APPROVED

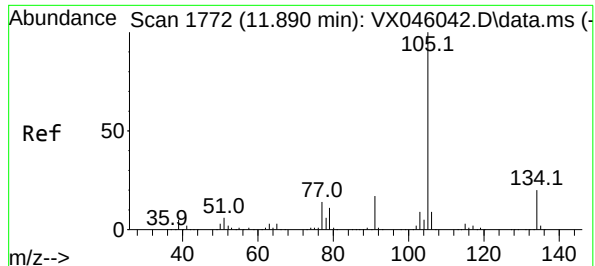
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 51.485 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

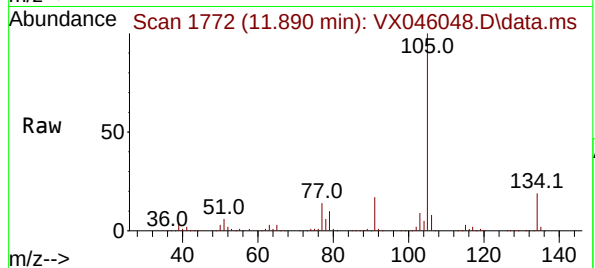
Tgt Ion:105 Resp: 231371  
Ion Ratio Lower Upper  
105 100  
120 42.3 21.2 63.6





#85  
sec-Butylbenzene  
Concen: 51.122 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

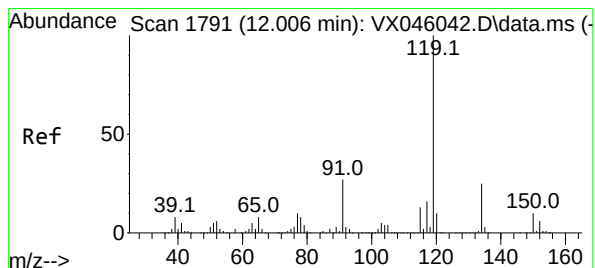
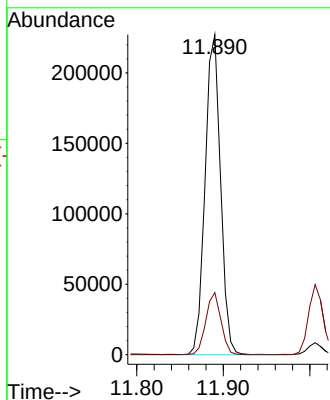
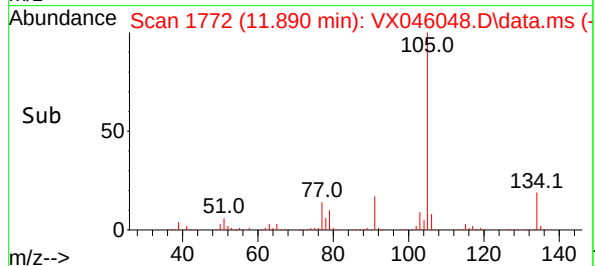
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



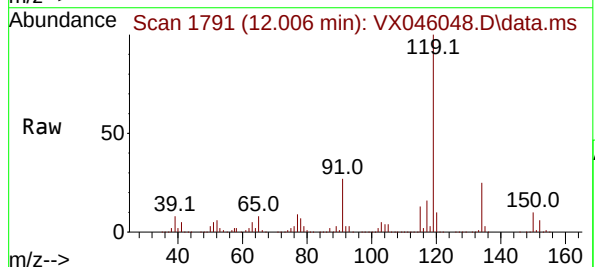
Tgt Ion:105 Resp: 280578  
Ion Ratio Lower Upper  
105 100  
134 19.1 9.7 29.1

Manual Integrations  
APPROVED

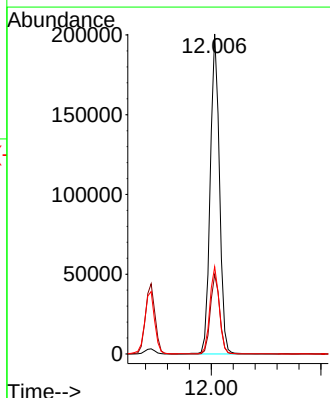
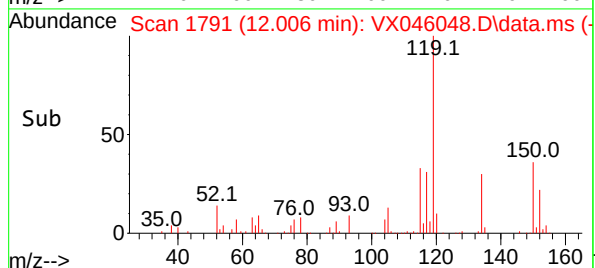
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

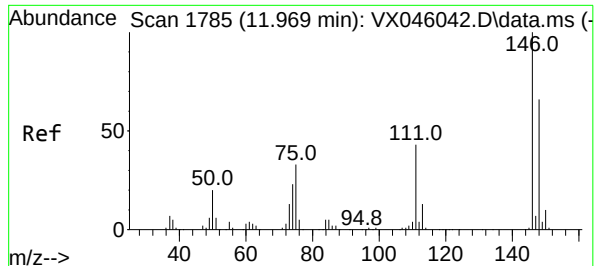


#86  
p-Isopropyltoluene  
Concen: 51.198 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50



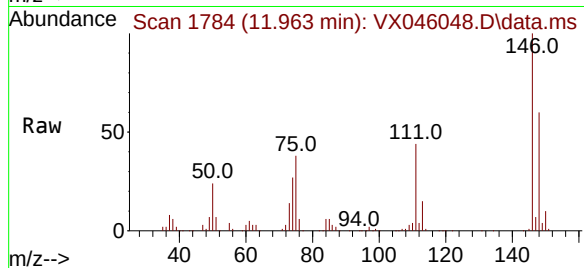
Tgt Ion:119 Resp: 231942  
Ion Ratio Lower Upper  
119 100  
134 25.0 12.5 37.5  
91 27.5 13.8 41.4





#87  
1,3-Dichlorobenzene  
Concen: 50.272 ug/l  
RT: 11.963 min Scan# 1784  
Delta R.T. -0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

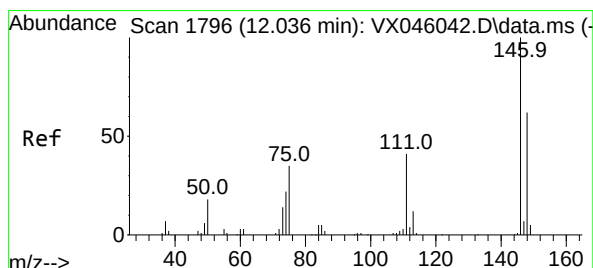
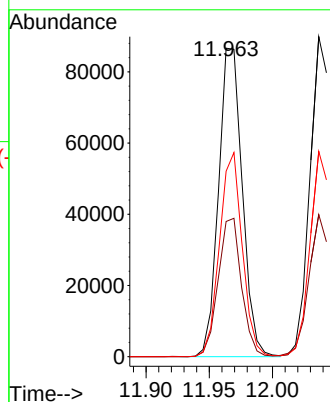
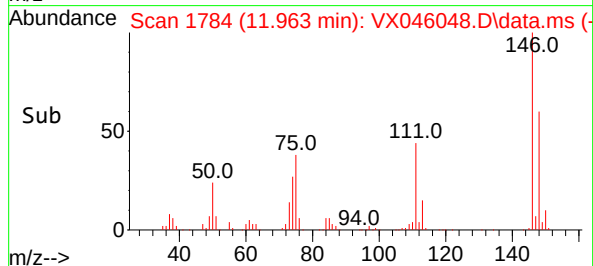
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:146 Resp: 113140  
Ion Ratio Lower Upper  
146 100  
111 44.1 22.1 66.3  
148 63.5 32.1 96.5

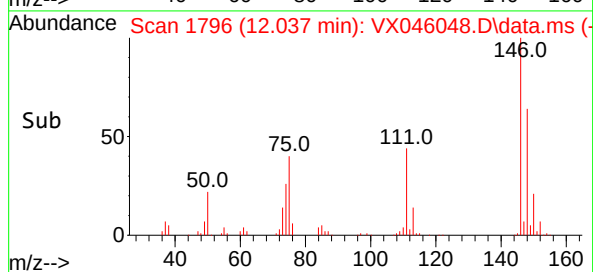
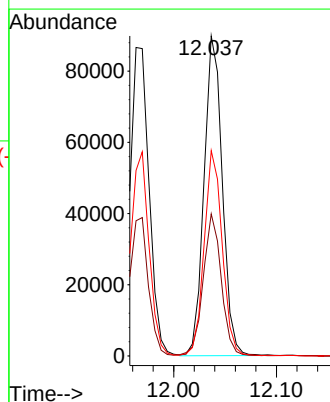
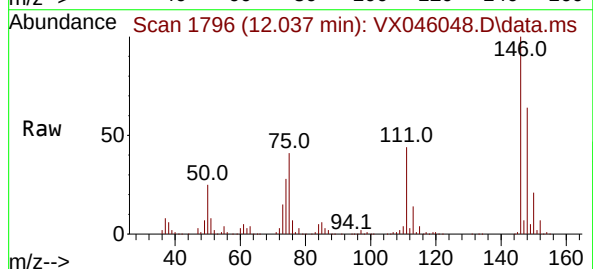
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025

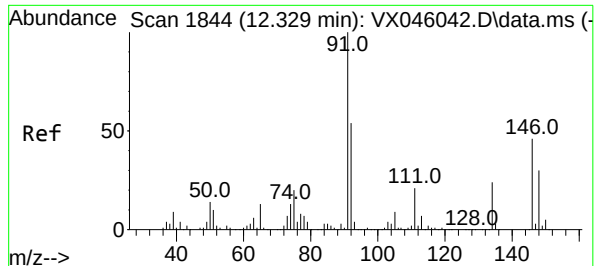


#88  
1,4-Dichlorobenzene  
Concen: 48.368 ug/l  
RT: 12.037 min Scan# 1796  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 111173  
Ion Ratio Lower Upper  
146 100  
111 43.9 21.3 63.9  
148 63.3 31.9 95.5







#89

n-Butylbenzene

Concen: 51.804 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046048.D

Acq: 05 May 2025 16:50

Instrument :

MSVOA\_X

ClientSampleId :

ICVX050525

Tgt Ion: 91 Resp: 20585

Ion Ratio Lower Upper

91 100

92 53.7 26.9 80.7

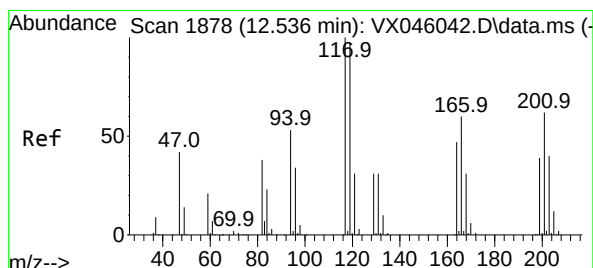
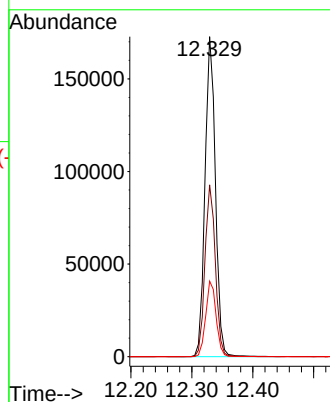
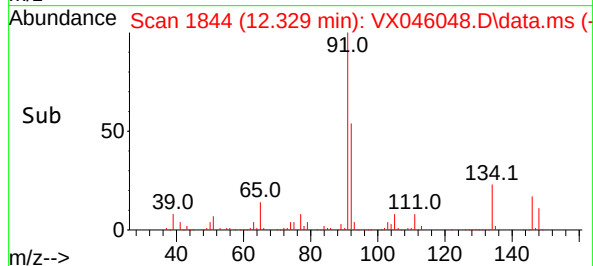
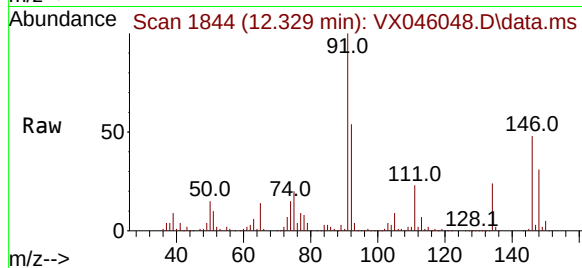
134 23.7 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/06/2025

Supervised By :Mahesh Dadoda 05/06/2025



#90

Hexachloroethane

Concen: 49.895 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046048.D

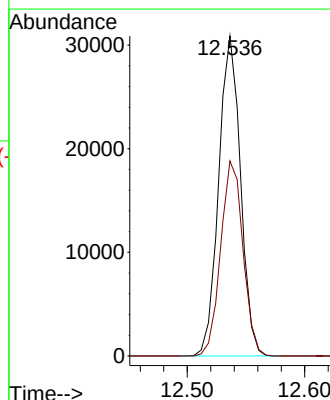
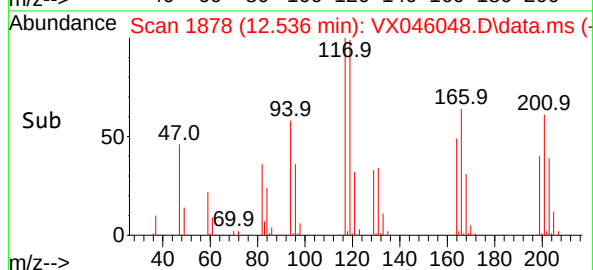
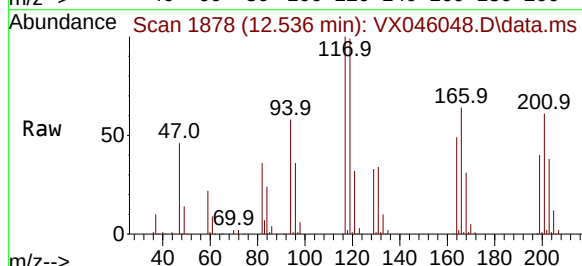
Acq: 05 May 2025 16:50

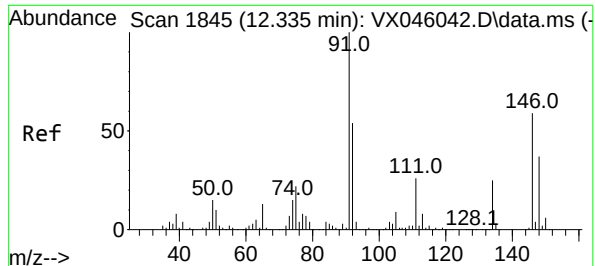
Tgt Ion:117 Resp: 39823

Ion Ratio Lower Upper

117 100

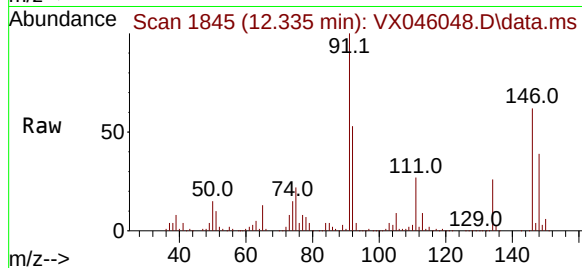
201 62.4 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 49.361 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

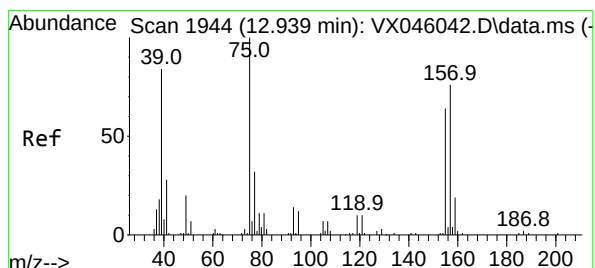
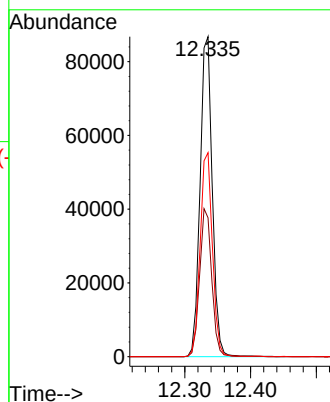
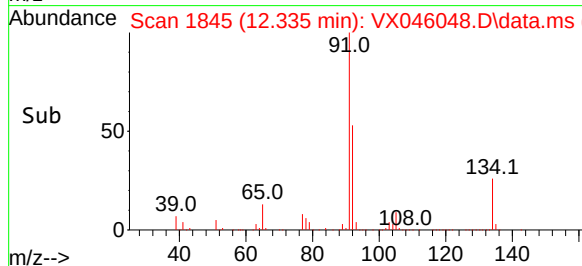
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:146 Resp: 11148  
Ion Ratio Lower Upper  
146 100  
111 45.8 22.4 67.3  
148 64.2 31.6 94.8

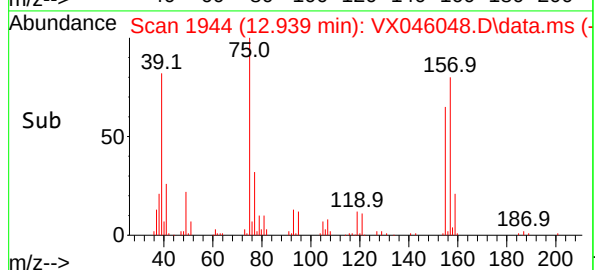
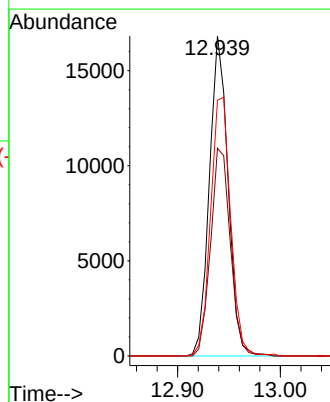
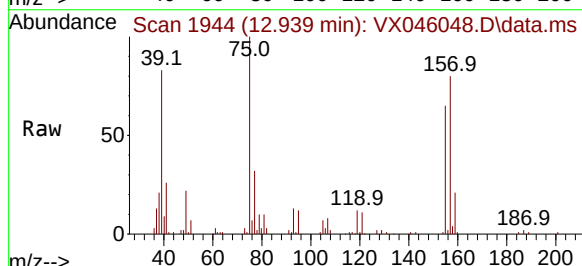
Manual Integrations  
APPROVED

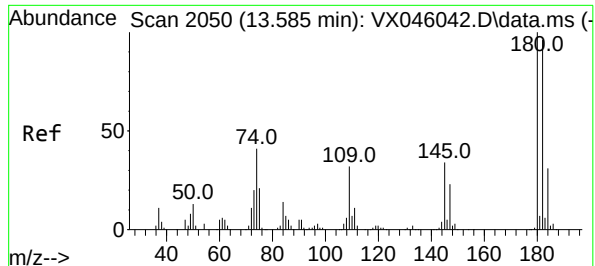
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 51.458 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

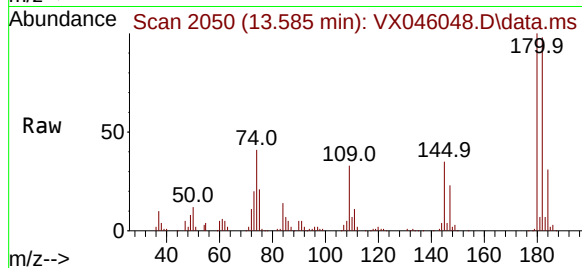
Tgt Ion: 75 Resp: 21220  
Ion Ratio Lower Upper  
75 100  
155 68.6 34.9 104.8  
157 86.7 43.8 131.4





#93  
1,2,4-Trichlorobenzene  
Concen: 49.662 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

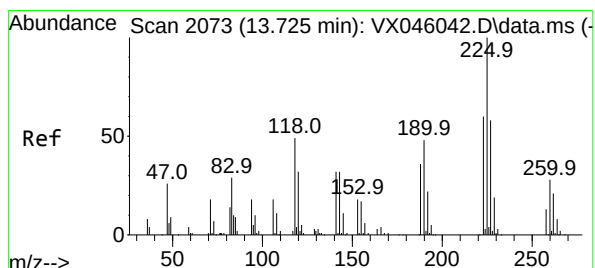
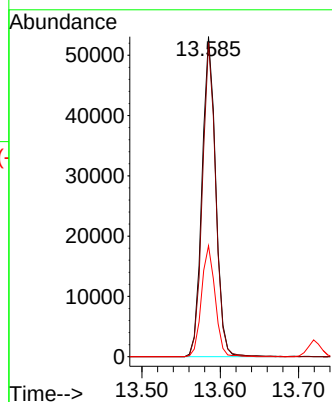
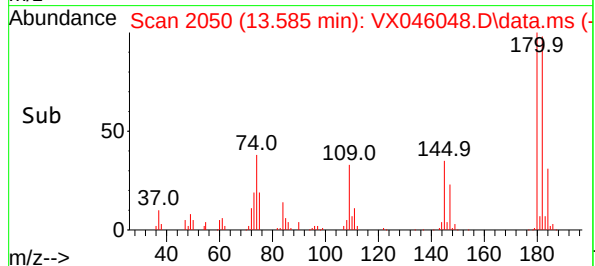
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:180 Resp: 6442  
Ion Ratio Lower Upper  
180 100  
182 95.5 47.9 143.8  
145 34.4 17.1 51.2

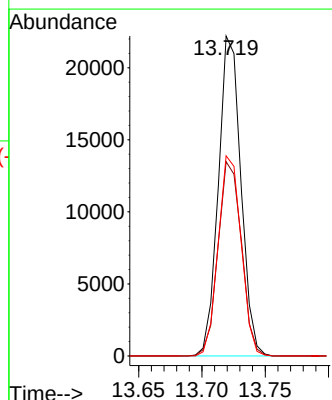
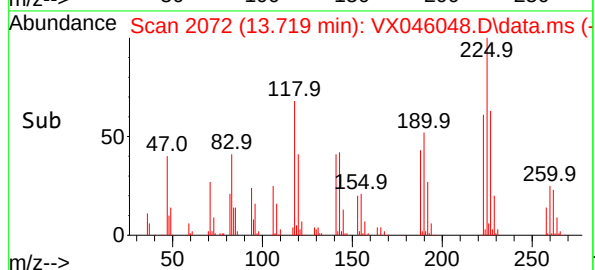
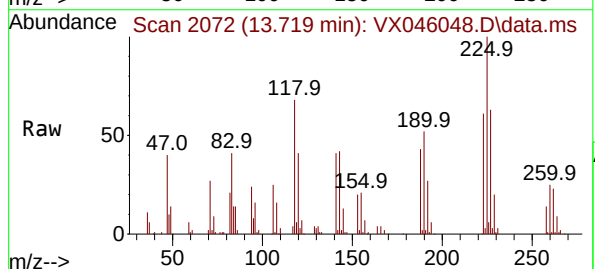
Manual Integrations  
APPROVED

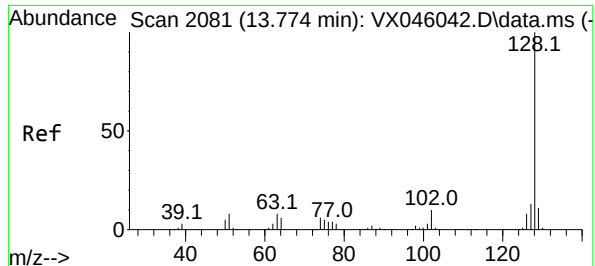
Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#94  
Hexachlorobutadiene  
Concen: 48.408 ug/l  
RT: 13.719 min Scan# 2072  
Delta R.T. -0.006 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

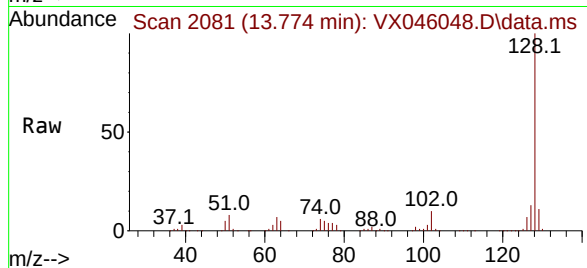
Tgt Ion:225 Resp: 27425  
Ion Ratio Lower Upper  
225 100  
223 63.1 30.8 92.4  
227 63.7 30.9 92.7





#95  
Naphthalene  
Concen: 50.404 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

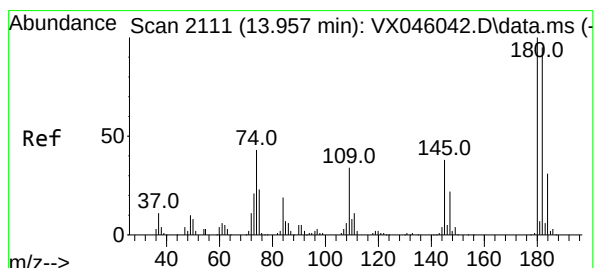
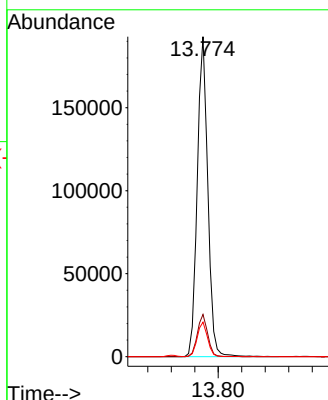
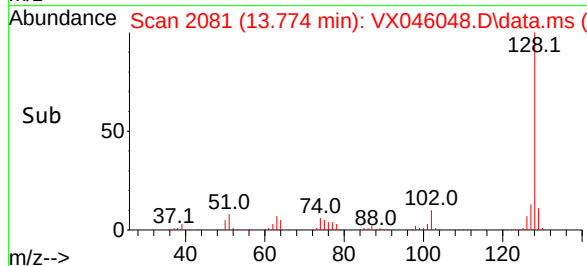
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525



Tgt Ion:128 Resp: 23980  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.4 15.6  
129 10.7 8.6 13.0

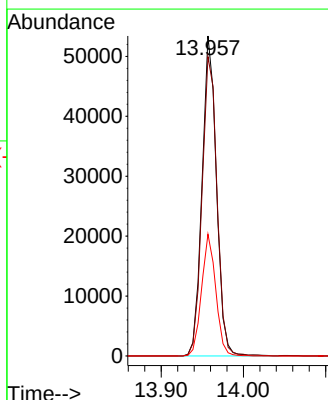
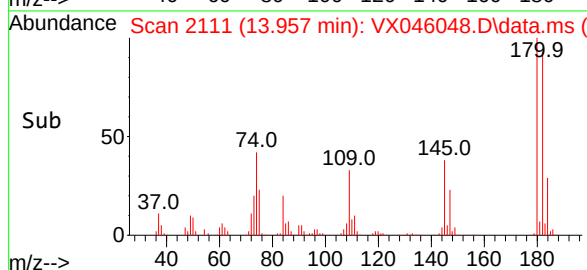
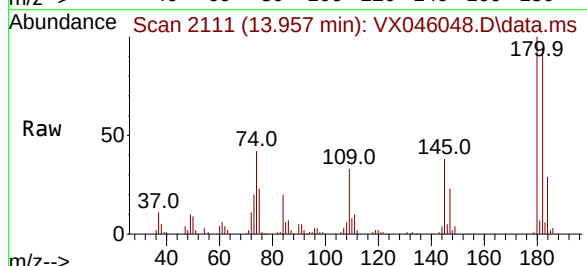
Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/06/2025  
Supervised By :Mahesh Dadoda 05/06/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 48.525 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VX046048.D  
Acq: 05 May 2025 16:50

Tgt Ion:180 Resp: 64950  
Ion Ratio Lower Upper  
180 100  
182 97.0 47.8 143.3  
145 37.5 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046048.D  
 Acq On : 05 May 2025 16:50  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050525

Quant Time: May 06 07:17:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.765 | 0.851 | -11.2 | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.742 | 0.781 | -5.3  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.691 | 0.713 | -3.2# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.320 | 0.324 | -1.3  | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.369 | 0.385 | -4.3  | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.021 | 1.073 | -5.1  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.347 | 0.344 | 0.9   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.642 | -1.6  | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 0.747 | 0.799 | -7.0  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.131 | 0.132 | -0.8  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.593 | 0.606 | -2.2# | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.149 | 0.139 | 6.7   | 87    | 0.00     |
| 14 T  | Allyl chloride              | 1.133 | 1.175 | -3.7  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.374 | 0.393 | -5.1  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.374 | 0.367 | 1.9   | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.406 | 1.433 | -1.9  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.867 | 0.867 | 0.0   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.079 | 2.111 | -1.5  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.716 | 0.684 | 4.5   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.596 | 0.602 | -1.0  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.189 | 2.268 | -3.6  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.925 | 2.045 | -6.2  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.219 | 1.239 | -1.6  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.543 | 0.558 | -2.8  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.954 | 0.953 | 0.1   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.718 | 0.731 | -1.8  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.587 | 0.598 | -1.9  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.340 | 0.354 | -4.1  | 96    | 0.00     |
| 30 C  | Chloroform                  | 1.271 | 1.305 | -2.7# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.111 | 1.114 | -0.3  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.101 | 1.126 | -2.3  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.932 | 0.904 | 3.0   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.360 | 0.358 | 0.6   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.484 | 0.479 | 1.0   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.598 | 0.606 | -1.3  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.544 | 0.542 | 0.4   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.623 | 0.620 | 0.5   | 94    | 0.00     |
| 40 TM | Benzene                     | 1.417 | 1.439 | -1.6  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.313 | 0.344 | -9.9  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.612 | 0.622 | -1.6  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.912 | 0.952 | -4.4  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.341 | 0.341 | 0.0   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.352 | 0.366 | -4.0# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.278 | 0.278 | 0.0   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.547 | 0.568 | -3.8  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.466 | 0.505 | -8.4  | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046048.D  
 Acq On : 05 May 2025 16:50  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050525

Quant Time: May 06 07:17:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 1.246 | 1.221 | 2.0   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.605 | 0.627 | -3.6  | 96    | 0.00     |
| 52 CM | Toluene                     | 0.869 | 0.889 | -2.3# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.487 | 0.515 | -5.7  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.538 | 0.569 | -5.8  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.343 | 0.349 | -1.7  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.546 | 0.589 | -7.9  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.615 | 0.613 | 0.3   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.278 | 0.296 | -6.5  | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.448 | 0.480 | -7.1  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.376 | 0.392 | -4.3  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.356 | 0.364 | -2.2  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.478 | 0.465 | 2.7   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.354 | 0.331 | 6.5   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.094 | 1.066 | 2.6   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.370 | 1.1   | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.929 | 1.939 | -0.5# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.706 | 0.713 | -1.0  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.688 | 0.699 | -1.6  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.127 | 1.170 | -3.8  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.281 | 0.278 | 1.1   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.893 | 3.950 | -1.5  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.924 | 2.016 | -4.8  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.364 | 1.305 | 4.3   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.204 | 1.169 | 2.9   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.904 | 0.878 | 2.9   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.526 | 4.577 | -1.1  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.919 | 2.867 | 1.8   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.252 | 3.350 | -3.0  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.370 | 0.364 | 1.6   | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.238 | 3.280 | -1.3  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.276 | 3.309 | -1.0  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.293 | 3.391 | -3.0  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.022 | 4.112 | -2.2  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.320 | 3.399 | -2.4  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.649 | 1.658 | -0.5  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.684 | 1.629 | 3.3   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.912 | 3.017 | -3.6  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 0.585 | 0.584 | 0.2   | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.655 | 1.634 | 1.3   | 97    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.311 | -3.0  | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.951 | 0.944 | 0.7   | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.415 | 0.402 | 3.1   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 3.487 | 3.515 | -0.8  | 98    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046048.D  
Acq On : 05 May 2025 16:50  
Operator : JC/MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

Quant Time: May 06 07:17:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.981 | 0.952 | 3.0  | 94    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\X050525\  
 Data File : VX046048.D  
 Acq On : 05 May 2025 16:50  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050525

Quant Time: May 06 07:17:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 55.594  | -11.2 | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.592  | -5.2  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.598  | -3.2# | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.627  | -1.3  | 95    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.271  | -4.5  | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.560  | -5.1  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.536  | 0.9   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.822  | -1.6  | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.419  | -6.8  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 252.025 | -0.8  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.097  | -2.2# | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 232.505 | 7.0   | 87    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.833  | -3.7  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 262.412 | -5.0  | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 245.518 | 1.8   | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.981  | -2.0  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.968  | 0.1   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.777  | -1.6  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.779  | 4.4   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.513  | -1.0  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.800  | -3.6  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 265.585 | -6.2  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.825  | -1.7  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 257.110 | -2.8  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.934  | 0.1   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.956  | -1.9  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.975  | -2.0  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 259.958 | -4.0  | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.332  | -2.7# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.147  | -0.3  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.108  | -2.2  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.509  | 3.0   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.683  | 0.6   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.521  | 1.0   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.714  | -1.4  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.825  | 0.3   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.757  | 0.5   | 94    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.759  | -1.5  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.076  | -10.2 | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.861  | -1.7  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.195  | -4.4  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.018  | -0.0  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.983  | -4.0# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.978  | 0.0   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.889  | -3.8  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 54.226  | -8.5  | 97    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
 Data File : VX046048.D  
 Acq On : 05 May 2025 16:50  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX050525

Quant Time: May 06 07:17:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1059.599 | -6.0  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.984   | 2.0   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.133  | -3.7  | 96    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.150   | -2.3# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.920   | -5.8  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.892   | -5.8  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.887   | -1.8  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.918   | -7.8  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.793   | 0.4   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 265.780  | -6.3  | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 268.218  | -7.3  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.075   | -4.2  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.050   | -2.1  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.596   | 2.8   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.795   | 6.4   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.699   | 2.6   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.557   | 0.9   | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.245   | -0.5# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.022  | -1.0  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.841   | -1.7  | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.907   | -3.8  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.583   | 0.8   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.733   | -1.5  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.407   | -4.8  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.827   | 4.3   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.568   | 2.9   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.549   | 2.9   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.562   | -1.1  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.107   | 1.8   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.500   | -3.0  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.276   | 1.4   | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.661   | -1.3  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.511   | -1.0  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.485   | -3.0  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.122   | -2.2  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.198   | -2.4  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.272   | -0.5  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.368   | 3.3   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.804   | -3.6  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.895   | 0.2   | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 49.361   | 1.3   | 97    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 51.458   | -2.9  | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 49.662   | 0.7   | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.408   | 3.2   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 50.404   | -0.8  | 98    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046048.D  
Acq On : 05 May 2025 16:50  
Operator : JC/MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX050525

Quant Time: May 06 07:17:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.525 | 3.0  | 94    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6



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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005  
 Lab Code: CHEM Case No.: Q2201 SAS No.: Q2201 SDG No.: Q2201  
 Instrument ID: MSVOA\_X Calibration Date/Time: 06/04/2025 10:12  
 Lab File ID: VX046488.D Init. Calib. Date(s): 05/05/2025 05/05/2025  
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27  
 GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND               | RRF   | RRF050 | MIN<br>RRF | %D    | MAX%D |
|------------------------|-------|--------|------------|-------|-------|
| Vinyl Chloride         | 0.691 | 0.665  |            | -3.76 | 20    |
| 1,1-Dichloroethene     | 0.593 | 0.593  |            | 0     | 20    |
| 1,1-Dichloroethane     | 1.219 | 1.302  | 0.1        | 6.81  | 20    |
| cis-1,2-Dichloroethene | 0.718 | 0.747  |            | 4.04  | 20    |
| 1,1,1-Trichloroethane  | 1.101 | 1.161  |            | 5.45  | 20    |
| Benzene                | 1.417 | 1.496  |            | 5.57  | 20    |
| 1,2-Dichloroethane     | 0.612 | 0.651  |            | 6.37  | 20    |
| Trichloroethene        | 0.341 | 0.364  |            | 6.74  | 20    |
| 1,1,2-Trichloroethane  | 0.343 | 0.370  |            | 7.87  | 20    |
| Tetrachloroethene      | 0.354 | 0.378  |            | 6.78  | 20    |
| 1,2-Dichloroethane-d4  | 0.932 | 0.862  |            | -7.51 | 20    |
| Dibromofluoromethane   | 0.360 | 0.356  |            | -1.11 | 20    |
| Toluene-d8             | 1.246 | 1.135  |            | -8.91 | 20    |
| 4-Bromofluorobenzene   | 0.478 | 0.469  |            | -1.88 | 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\_X\Data\VX060425\  
 Data File : VX046488.D  
 Acq On : 04 Jun 2025 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:34:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.543          | 168  | 97475      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.750          | 114  | 165033     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 141151     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 69016      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.946          | 65   | 83988      | 46.217  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 92.440% |        |          |
| 35) Dibromofluoromethane     | 5.373          | 113  | 58786      | 49.466  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 98.940% |        |          |
| 50) Toluene-d8               | 8.646          | 98   | 187253     | 45.524  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 91.040% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 77443      | 49.083  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 98.160% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 73169      | 49.043  | ug/l   | 96       |
| 3) Chloromethane             | 1.306          | 50   | 69991      | 48.377  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.373          | 62   | 64836      | 48.151  | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 27003      | 43.237  | ug/l   | 91       |
| 6) Chloroethane              | 1.672          | 64   | 36727      | 51.093  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.879          | 101  | 103198     | 51.858  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.135          | 74   | 34758      | 51.308  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.318          | 101  | 65312      | 53.034  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.446          | 142  | 70274      | 48.225  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 71909      | 281.901 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.312          | 96   | 57779      | 49.990  | ug/l   | 97       |
| 13) Acrolein                 | 2.233          | 56   | 72503      | 249.577 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 120766     | 54.671  | ug/l   | 97       |
| 15) Acrylonitrile            | 3.062          | 53   | 196655     | 269.611 | ug/l   | 98       |
| 16) Acetone                  | 2.379          | 43   | 215178     | 295.318 | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.501          | 76   | 126198     | 46.054  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.702          | 43   | 116961     | 69.175  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 223672     | 55.198  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.782          | 84   | 67521      | 48.357  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 3.086          | 96   | 58349      | 50.199  | ug/l   | 100      |
| 22) Diisopropyl ether        | 3.757          | 45   | 234578     | 54.976  | ug/l   | 96       |
| 23) Vinyl Acetate            | 3.714          | 43   | 983901     | 262.170 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 126924     | 53.406  | ug/l   | 100      |
| 25) 2-Butanone               | 4.550          | 43   | 295497     | 279.346 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 4.464          | 77   | 103262     | 55.512  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.476          | 96   | 72840      | 52.056  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.885          | 49   | 53251      | 46.549  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 5.001          | 42   | 181777     | 274.234 | ug/l   | 98       |
| 30) Chloroform               | 5.086          | 83   | 130154     | 52.542  | ug/l   | 96       |
| 31) Cyclohexane              | 5.458          | 56   | 107767     | 49.761  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 113144     | 52.691  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.677          | 75   | 83522      | 52.307  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.708          | 43   | 105142     | 53.296  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.671          | 117  | 96961      | 54.045  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.372          | 83   | 107311     | 52.202  | ug/l   | 97       |
| 40) Benzene                  | 6.031          | 78   | 246896     | 52.789  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046488.D  
 Acq On : 04 Jun 2025 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:34:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.909  | 41   | 61057m   | 59.164   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 107364   | 53.188   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 172534   | 57.328   | ug/l   | 100      |
| 44) Trichloroethene           | 7.116  | 130  | 60052    | 53.347   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 7.421  | 63   | 63728    | 54.797   | ug/l   | 100      |
| 46) Dibromomethane            | 7.573  | 93   | 48150    | 52.494   | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.817  | 83   | 99979    | 55.341   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.689  | 41   | 88716    | 57.719   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.653  | 88   | 31277    | 1071.717 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.567  | 43   | 559427   | 280.031  | ug/l   | 100      |
| 52) Toluene                   | 8.713  | 92   | 148931   | 51.931   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 91872    | 57.213   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.360  | 75   | 101352   | 57.106   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 9.146  | 97   | 61136    | 54.064   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.110  | 69   | 105633   | 58.611   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 107331   | 52.850   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 252660   | 274.981  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 423096   | 286.265  | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.518  | 129  | 69918    | 56.300   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.604  | 107  | 62700    | 53.347   | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.268  | 164  | 53293    | 53.362   | ug/l   | 93       |
| 65) Chlorobenzene             | 10.073 | 112  | 164933   | 53.386   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131  | 57986    | 54.966   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.189 | 91   | 298815   | 54.870   | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 215687   | 108.288  | ug/l   | 97       |
| 69) o-Xylene                  | 10.640 | 106  | 106763   | 54.982   | ug/l   | 97       |
| 70) Styrene                   | 10.652 | 104  | 181074   | 56.926   | ug/l   | 100      |
| 71) Bromoform                 | 10.798 | 173  | 44870    | 56.651   | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.957 | 105  | 288460   | 53.686   | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 147771   | 55.656   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 95562    | 50.752   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.237 | 75   | 86142m   | 51.854   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 65831    | 52.773   | ug/l   | 98       |
| 78) n-propylbenzene           | 11.298 | 91   | 338759   | 54.223   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.359 | 91   | 207728   | 51.549   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 241792   | 53.865   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 28928    | 56.693   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 240706   | 53.864   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 240573   | 53.206   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.749 | 105  | 244850   | 53.863   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 304738   | 54.891   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 251225   | 54.822   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 119595   | 52.532   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 120210   | 51.703   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 228216   | 56.775   | ug/l   | 100      |
| 90) Hexachloroethane          | 12.536 | 117  | 44135    | 54.668   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.329 | 146  | 120071   | 52.558   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75   | 22836    | 54.746   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 71028    | 54.131   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 31559    | 55.070   | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 258228   | 53.657   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.956 | 180  | 73266    | 54.114   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046488.D  
Acq On : 04 Jun 2025 10:12  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:34:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

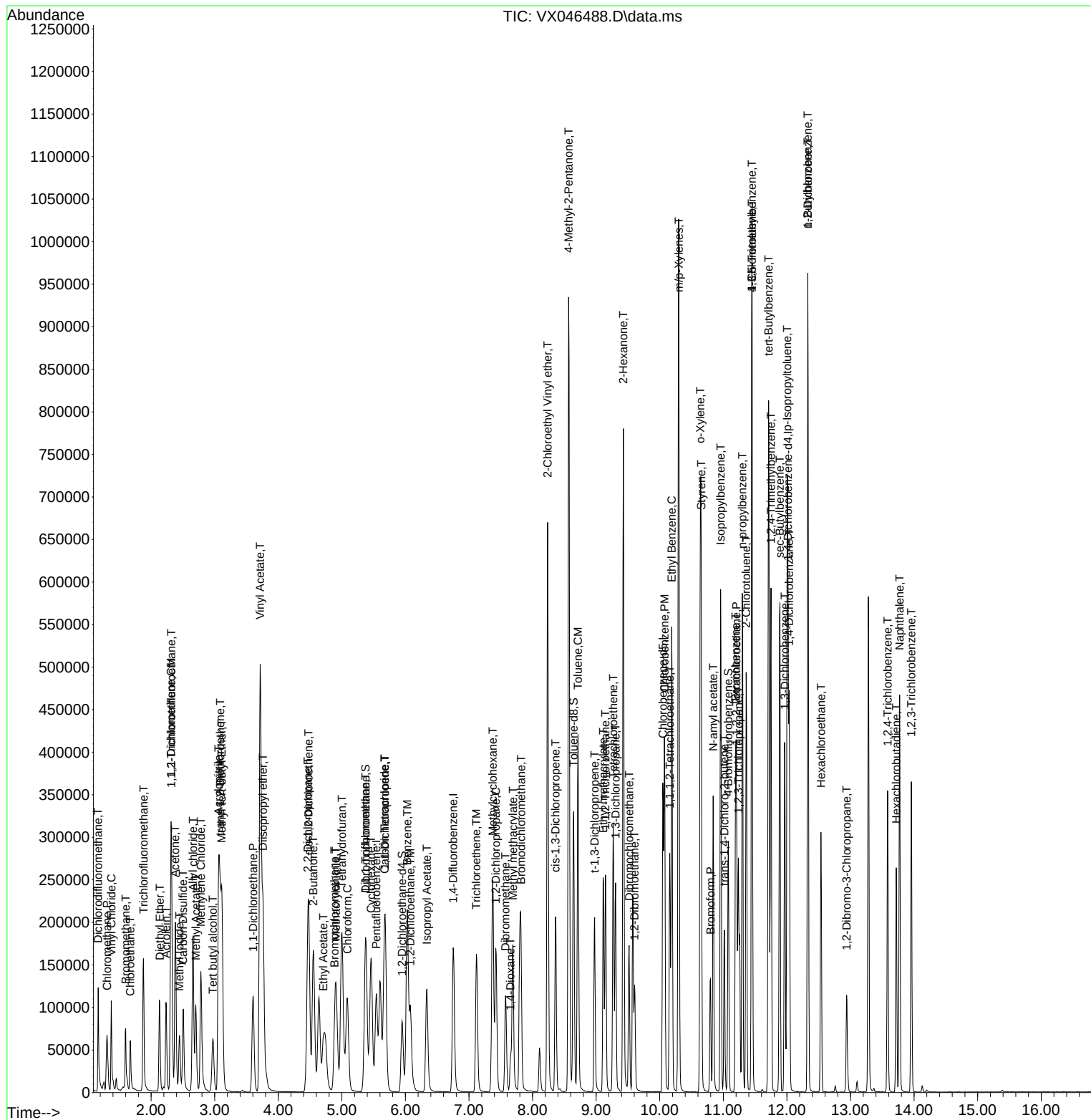
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046488.D
Acq On    : 04 Jun 2025  10:12
Operator  : JC/MD
Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 2      Sample Multiplier: 1
```

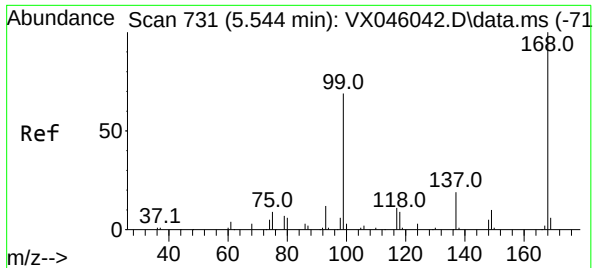
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDCCC050

## Manual Integrations

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:34:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration





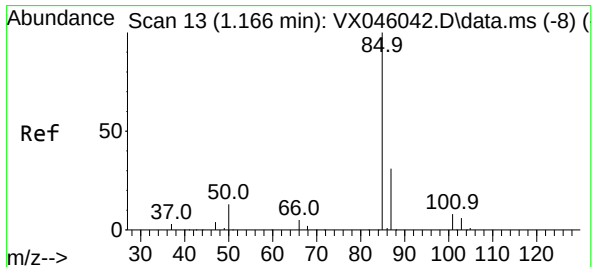
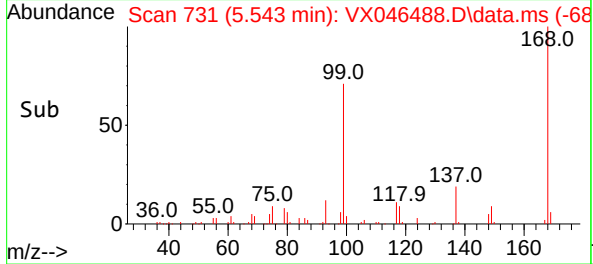
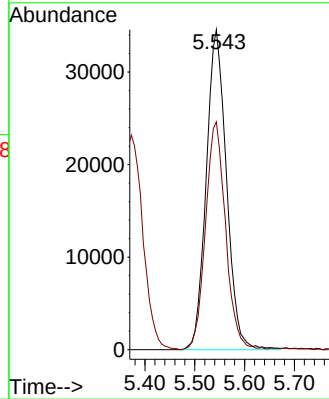
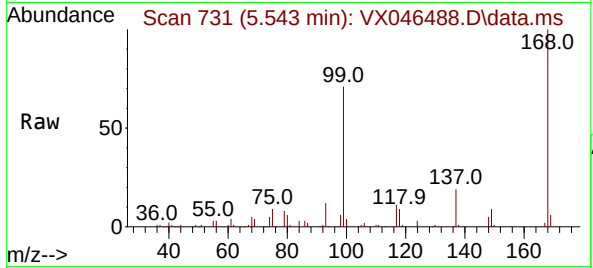
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion:168 Resp: 97475  
Ion Ratio Lower Upper  
168 100  
99 71.2 54.9 82.3

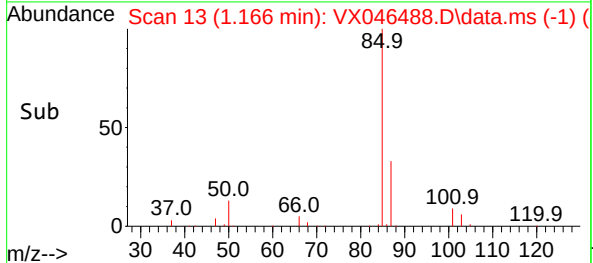
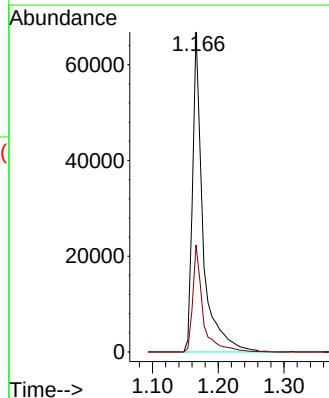
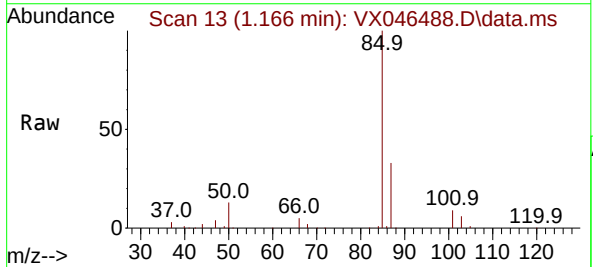
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

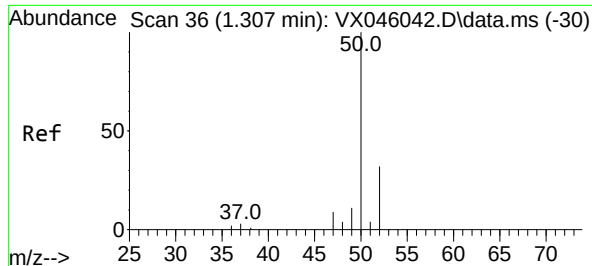


#2  
Dichlorodifluoromethane  
Concen: 49.043 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 85 Resp: 73169  
Ion Ratio Lower Upper  
85 100  
87 33.4 15.7 47.1







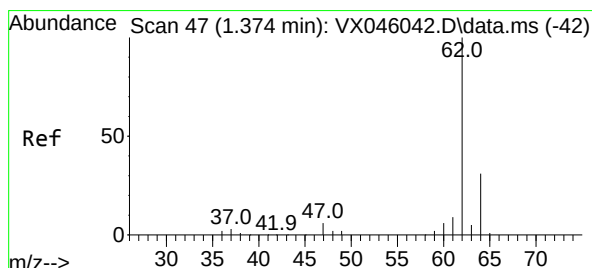
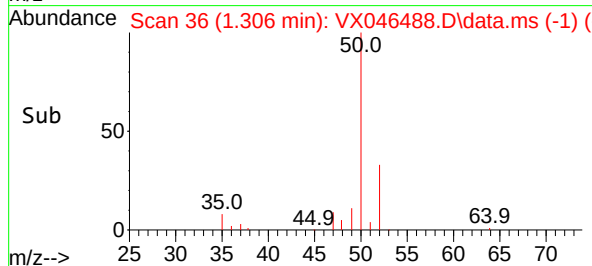
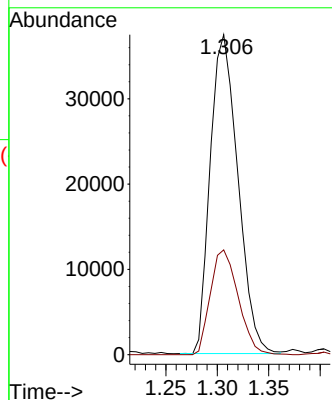
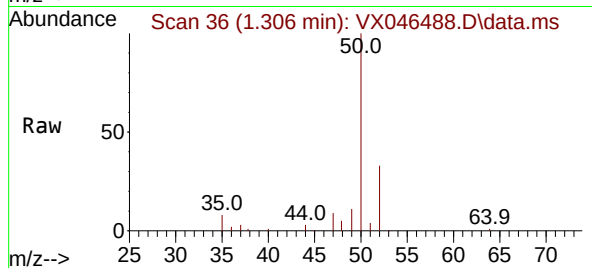
#3  
Chloromethane  
Concen: 48.377 ug/l  
RT: 1.306 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 50 Resp: 6999  
Ion Ratio Lower Upper  
50 100  
52 32.8 25.4 38.2

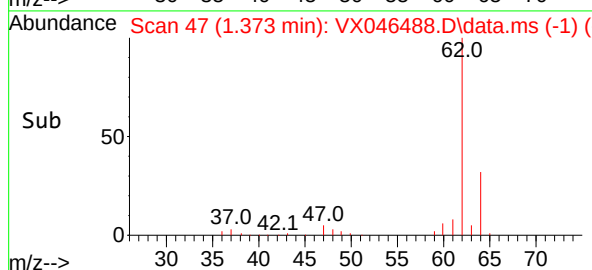
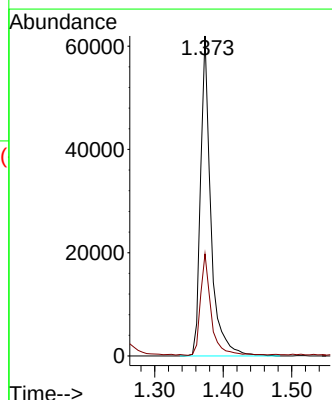
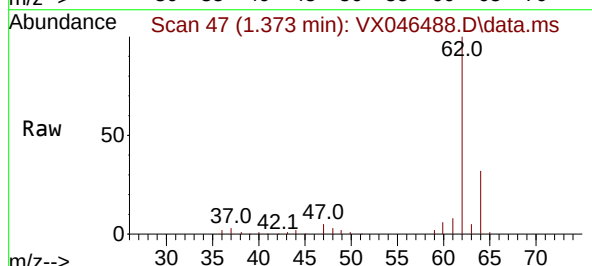
Manual Integrations  
APPROVED

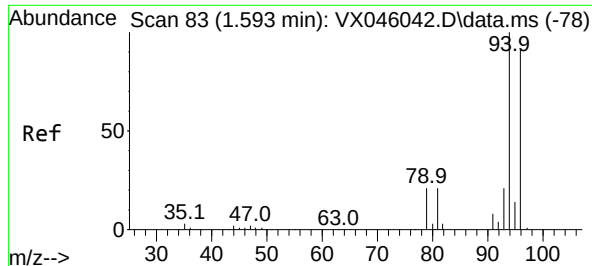
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#4  
Vinyl Chloride  
Concen: 48.151 ug/l  
RT: 1.373 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 62 Resp: 64836  
Ion Ratio Lower Upper  
62 100  
64 31.5 25.2 37.8





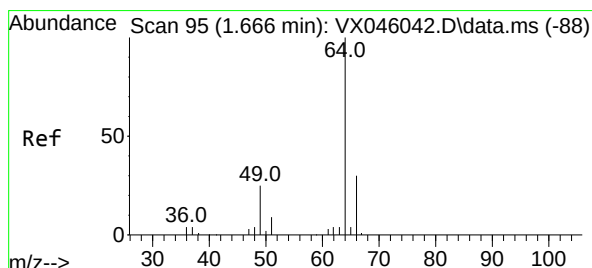
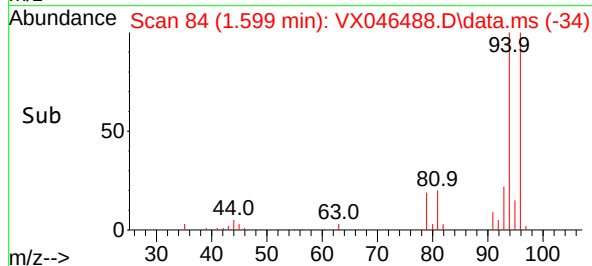
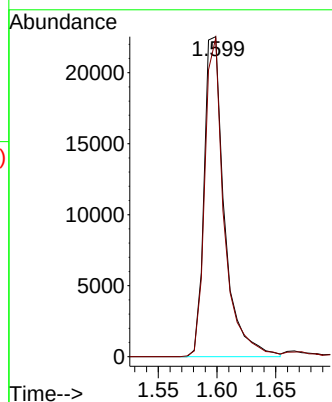
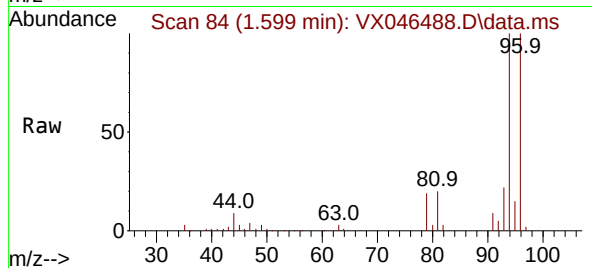
#5  
Bromomethane  
Concen: 43.237 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 94 Resp: 2700  
Ion Ratio Lower Upper  
94 100  
96 99.6 72.8 109.2

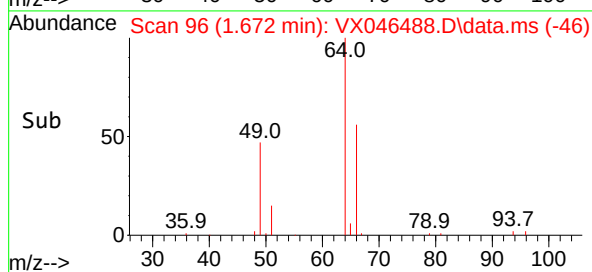
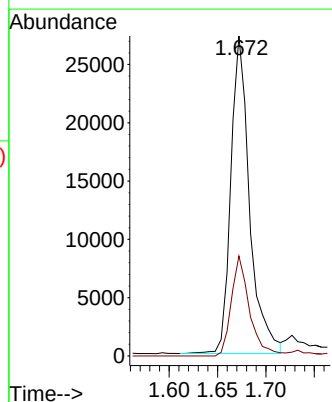
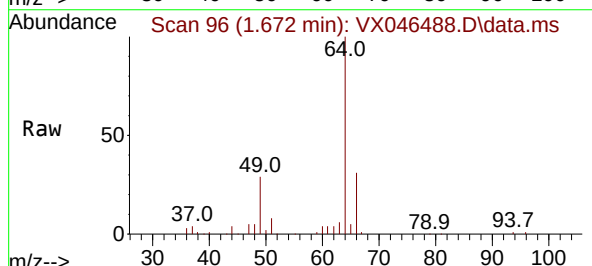
Manual Integrations  
**APPROVED**

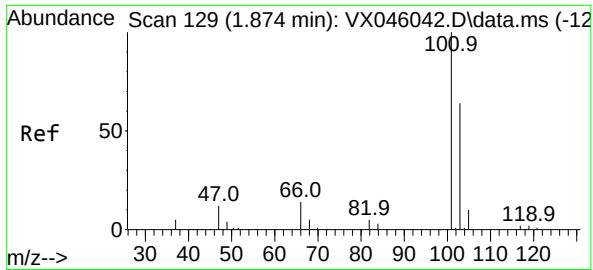
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#6  
Chloroethane  
Concen: 51.093 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

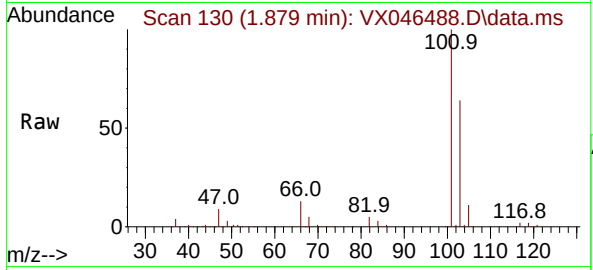
Tgt Ion: 64 Resp: 36727  
Ion Ratio Lower Upper  
64 100  
66 31.5 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 51.858 ug/l  
RT: 1.879 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

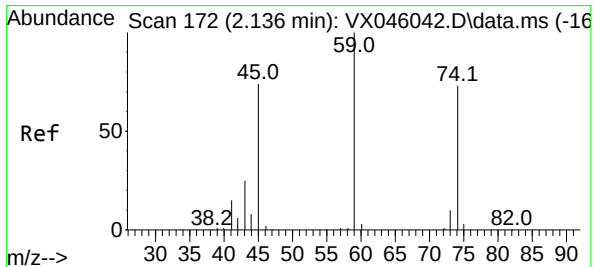
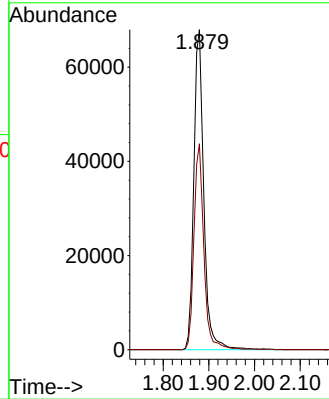
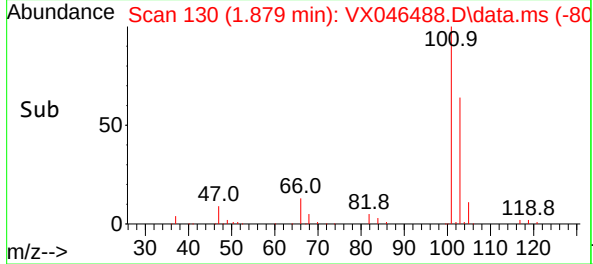
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:101 Resp: 103198  
Ion Ratio Lower Upper  
101 100  
103 64.4 51.0 76.4

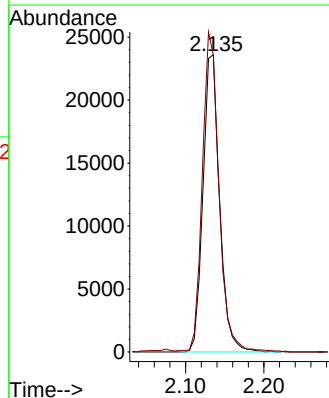
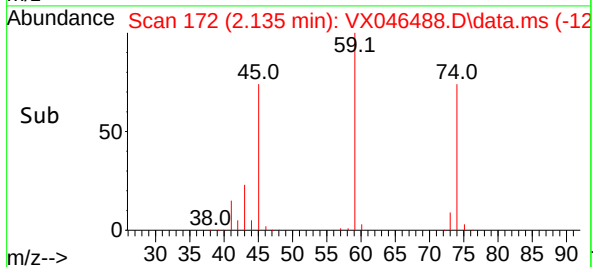
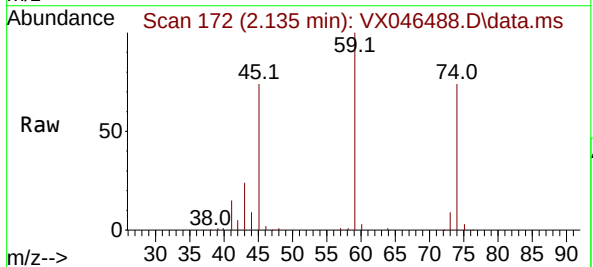
Manual Integrations  
**APPROVED**

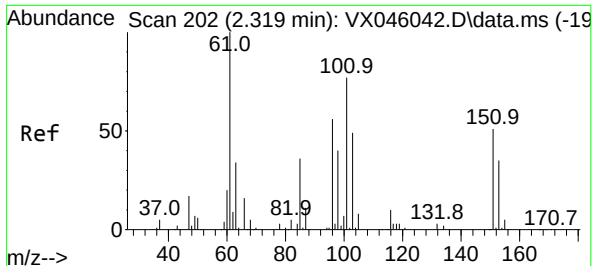
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#8  
Diethyl Ether  
Concen: 51.308 ug/l  
RT: 2.135 min Scan# 172  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 74 Resp: 34758  
Ion Ratio Lower Upper  
74 100  
45 107.9 54.9 164.8





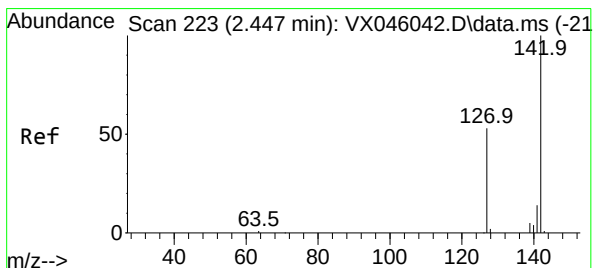
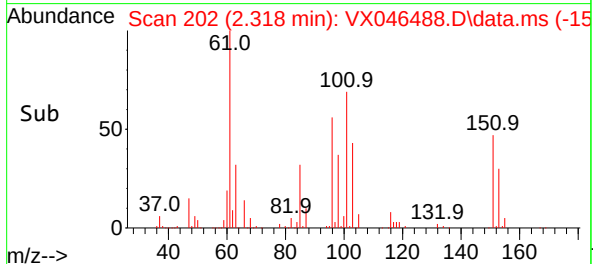
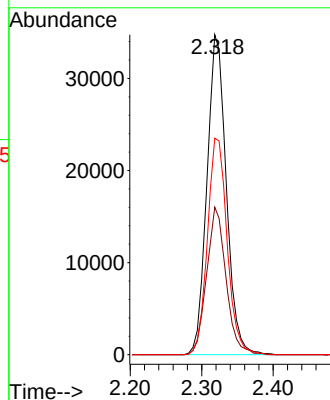
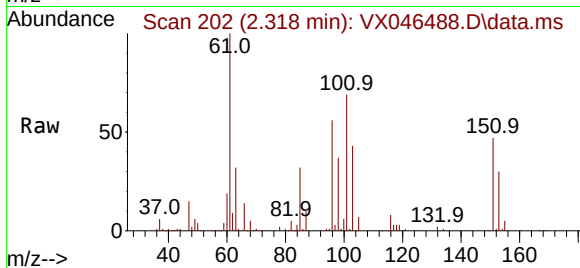
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 53.034 ug/l  
RT: 2.318 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion:101 Resp: 65312  
Ion Ratio Lower Upper  
101 100  
85 46.2 38.6 58.0  
151 69.1 55.2 82.8

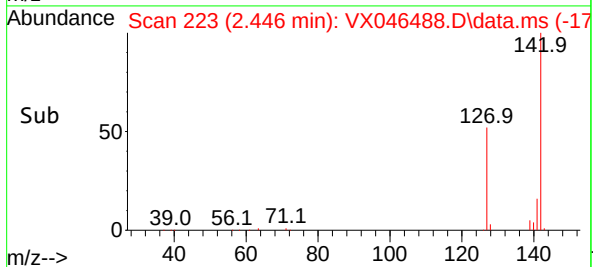
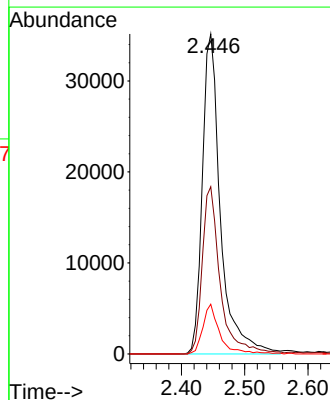
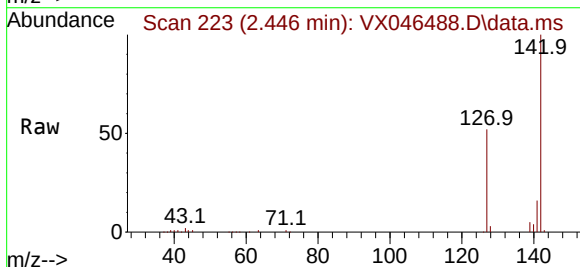
Manual Integrations  
APPROVED

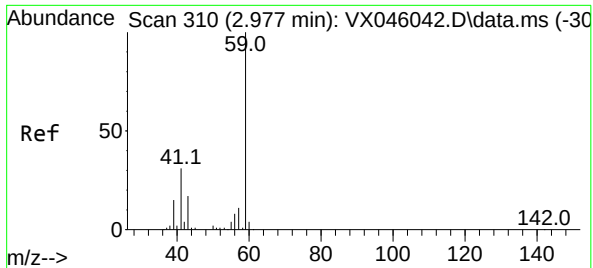
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#10  
Methyl Iodide  
Concen: 48.225 ug/l  
RT: 2.446 min Scan# 223  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion:142 Resp: 70274  
Ion Ratio Lower Upper  
142 100  
127 51.6 41.7 62.5  
141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 281.901 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 71909

Ion Ratio Lower Upper

59 100

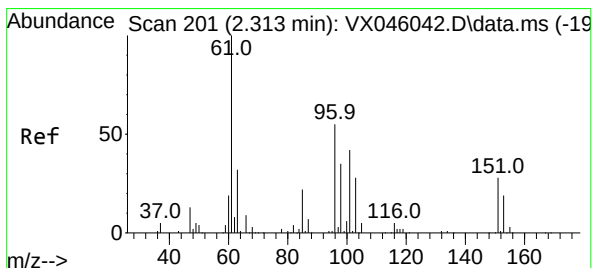
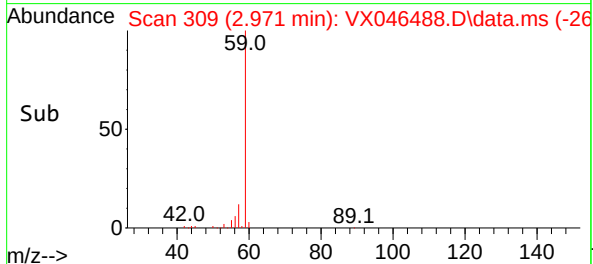
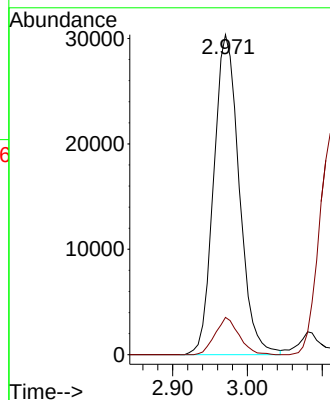
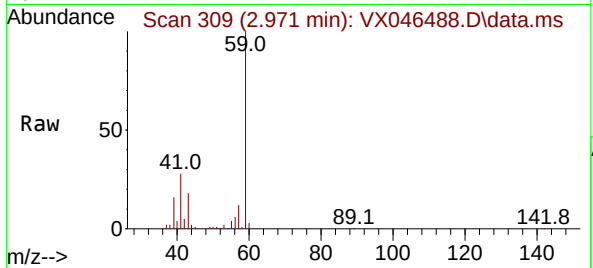
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025

Supervised By :Semsettin Yesilyurt 06/05/2025



#12

1,1-Dichloroethene

Concen: 49.990 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

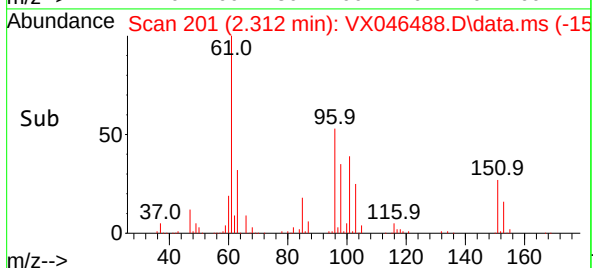
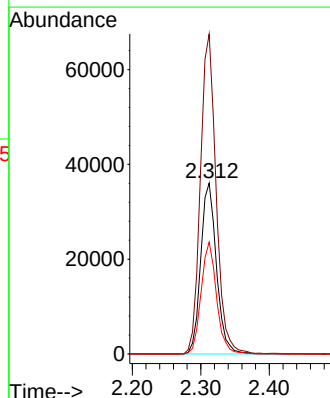
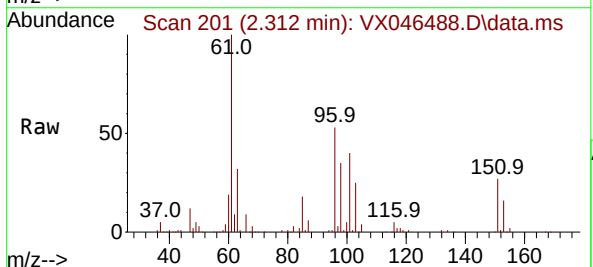
Tgt Ion: 96 Resp: 57779

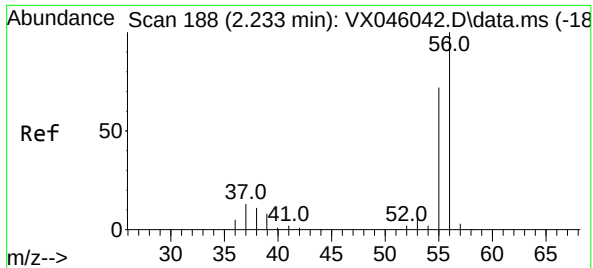
Ion Ratio Lower Upper

96 100

61 187.2 146.2 219.2

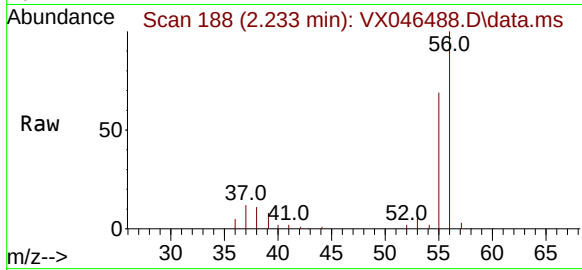
98 65.4 51.0 76.6





#13  
Acrolein  
Concen: 249.577 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

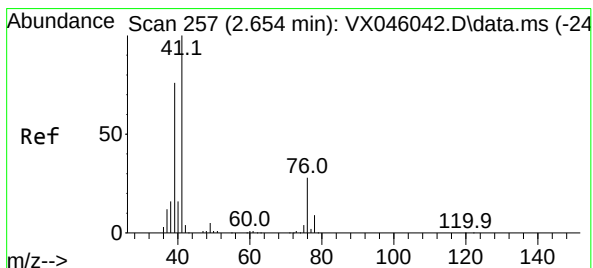
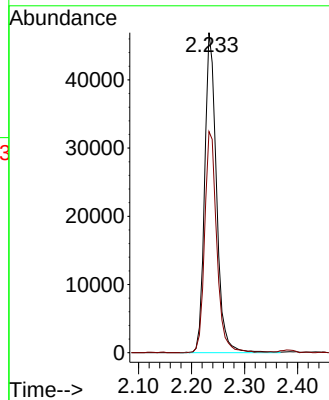
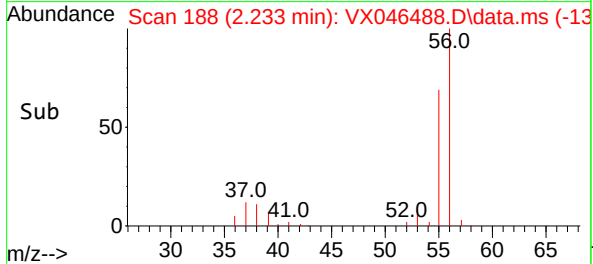
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 56 Resp: 72500  
Ion Ratio Lower Upper  
56 100  
55 71.0 56.2 84.4

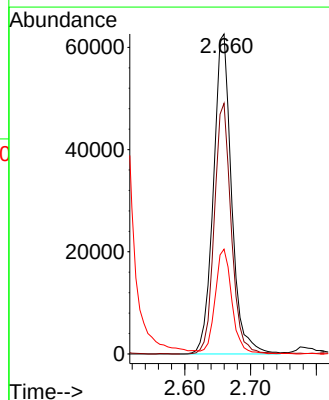
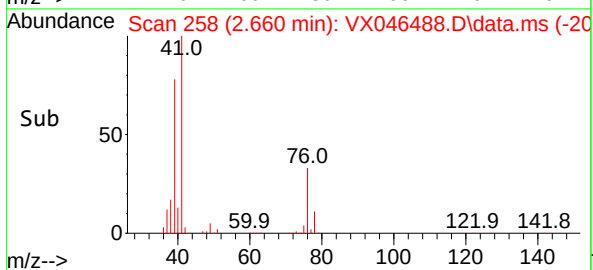
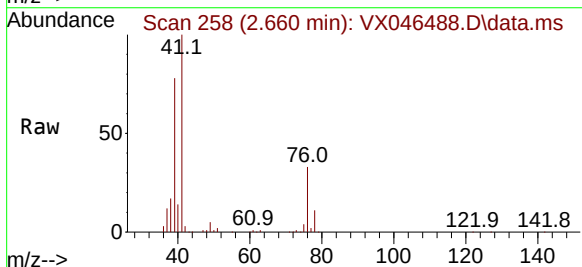
Manual Integrations  
**APPROVED**

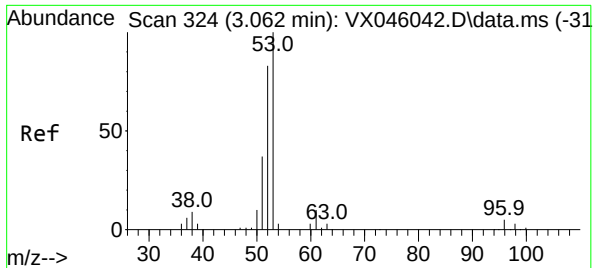
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#14  
Allyl chloride  
Concen: 54.671 ug/l  
RT: 2.660 min Scan# 258  
Delta R.T. 0.006 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

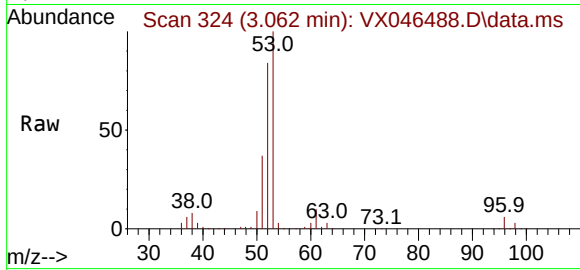
Tgt Ion: 41 Resp: 120766  
Ion Ratio Lower Upper  
41 100  
39 73.0 60.6 90.8  
76 29.8 24.9 37.3





#15  
Acrylonitrile  
Concen: 269.611 ug/l  
RT: 3.062 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

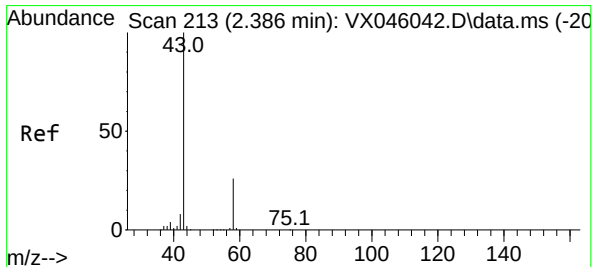
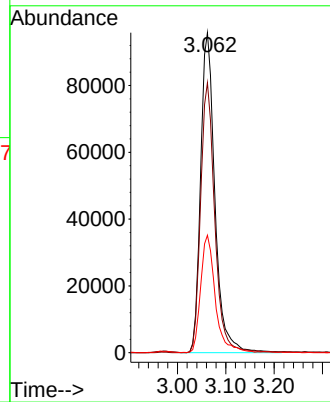
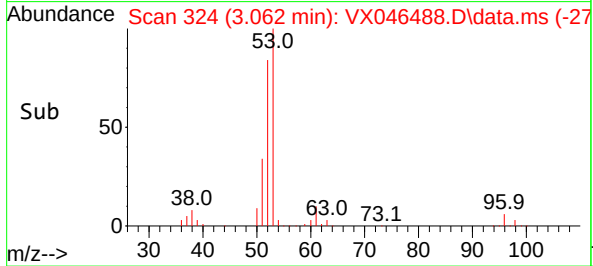
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 53 Resp: 196658  
Ion Ratio Lower Upper  
53 100  
52 83.7 65.3 97.9  
51 37.4 29.8 44.8

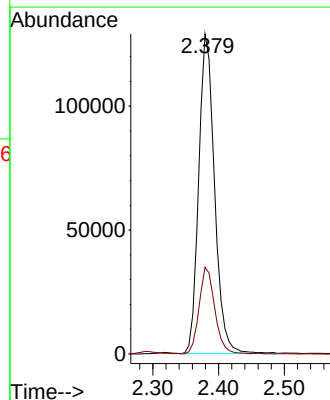
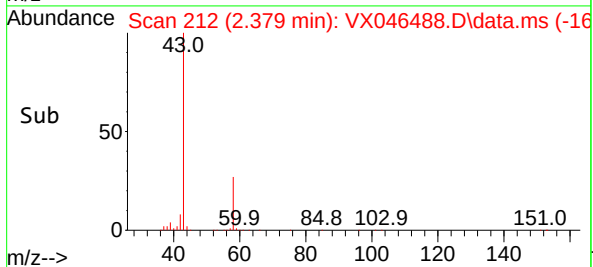
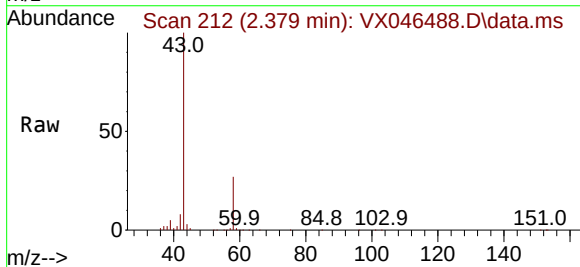
Manual Integrations  
APPROVED

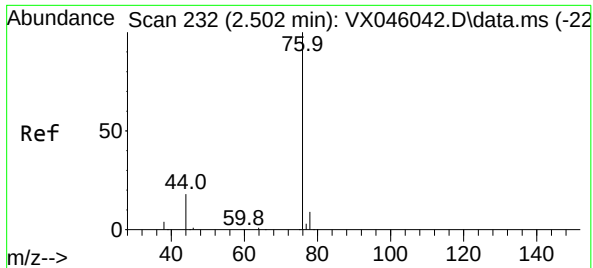
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#16  
Acetone  
Concen: 295.318 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

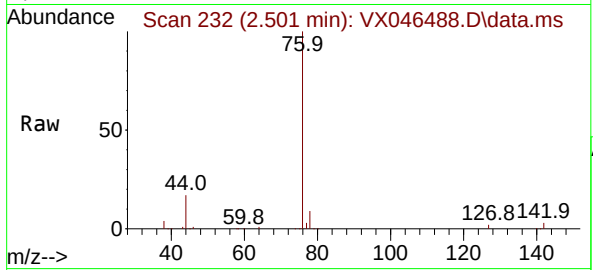
Tgt Ion: 43 Resp: 215178  
Ion Ratio Lower Upper  
43 100  
58 27.0 21.2 31.8





#17  
Carbon Disulfide  
Concen: 46.054 ug/l  
RT: 2.501 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

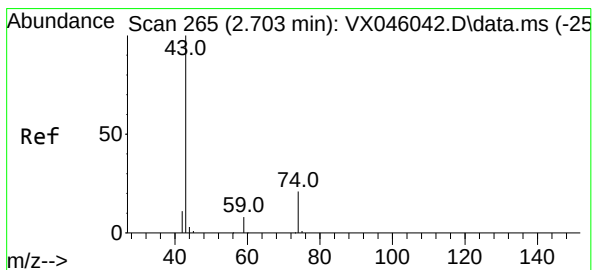
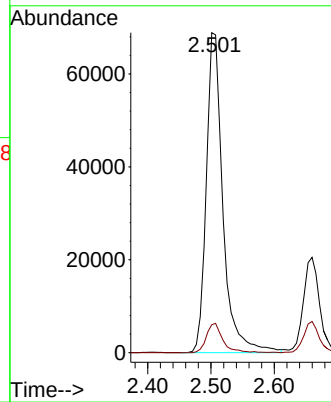
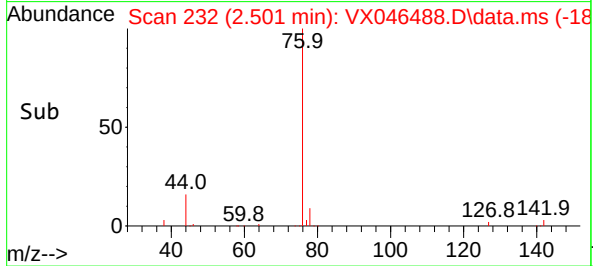
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 76 Resp: 126198  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.0 10.4

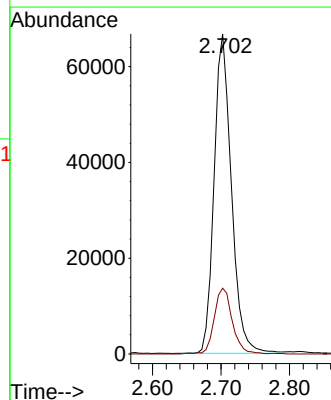
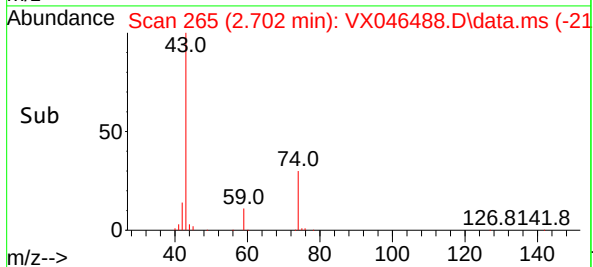
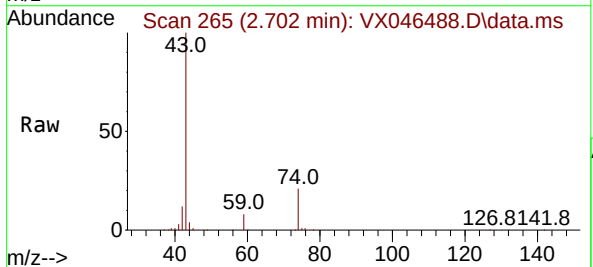
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

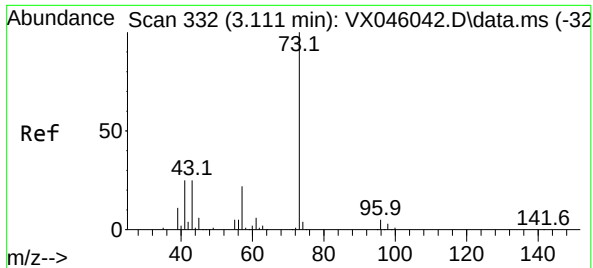


#18  
Methyl Acetate  
Concen: 69.175 ug/l  
RT: 2.702 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 43 Resp: 116961  
Ion Ratio Lower Upper  
43 100  
74 21.5 16.7 25.1

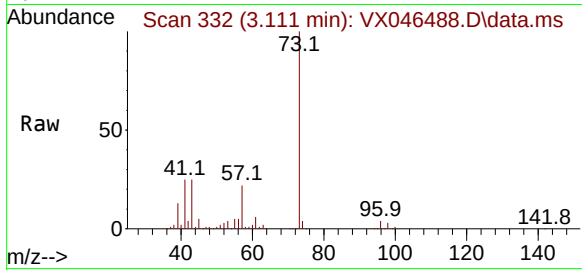






#19  
Methyl tert-butyl Ether  
Concen: 55.198 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

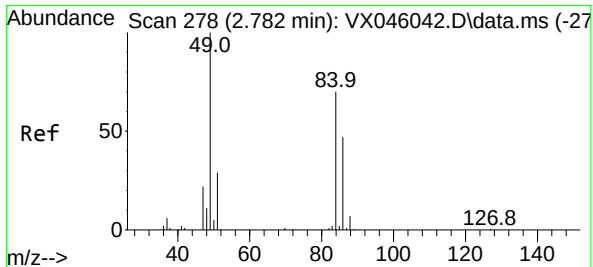
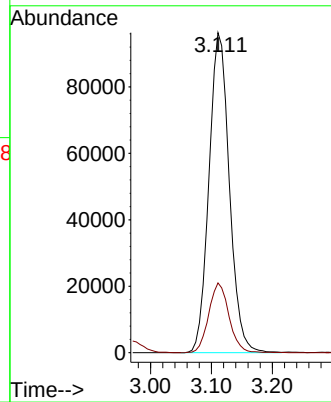
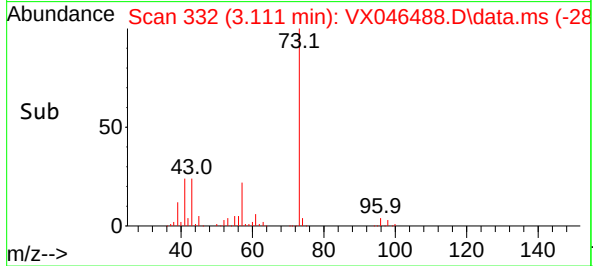
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 73 Resp: 223672  
Ion Ratio Lower Upper  
73 100  
57 21.8 17.7 26.5

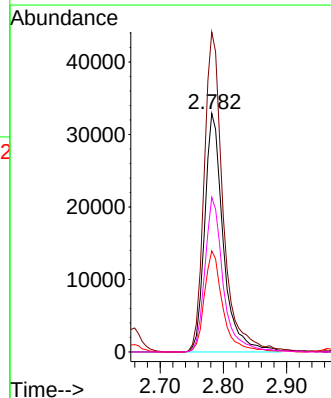
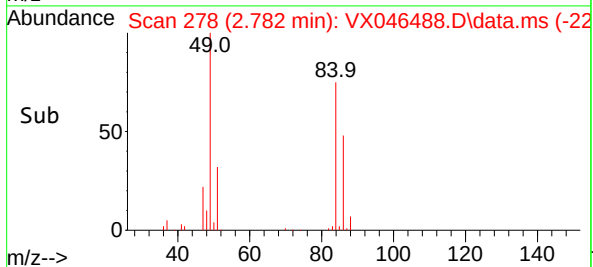
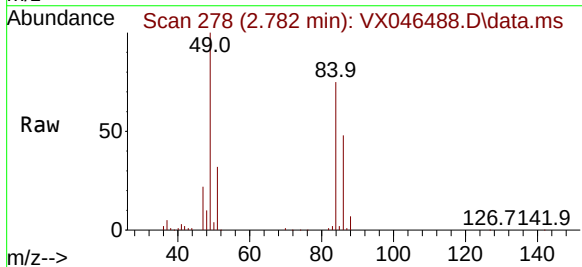
Manual Integrations  
**APPROVED**

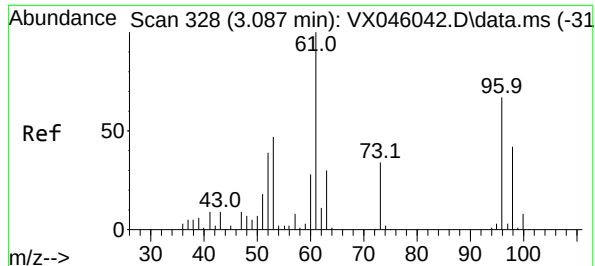
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#20  
Methylene Chloride  
Concen: 48.357 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 84 Resp: 67521  
Ion Ratio Lower Upper  
84 100  
49 134.2 113.9 170.9  
51 42.4 33.5 50.3  
86 64.9 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 50.199 ug/l

RT: 3.086 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 58349

Ion Ratio Lower Upper

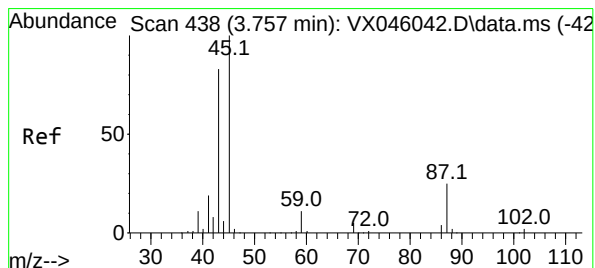
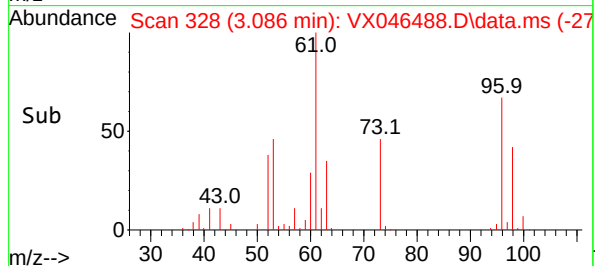
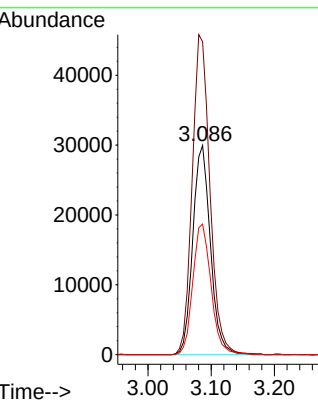
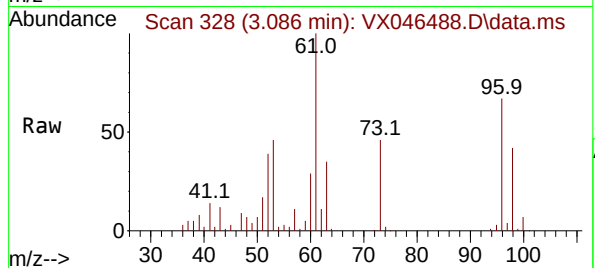
96 100

61 149.6 119.5 179.3

98 62.4 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#22

Diisopropyl ether

Concen: 54.976 ug/l

RT: 3.757 min Scan# 438

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Tgt Ion: 45 Resp: 234578

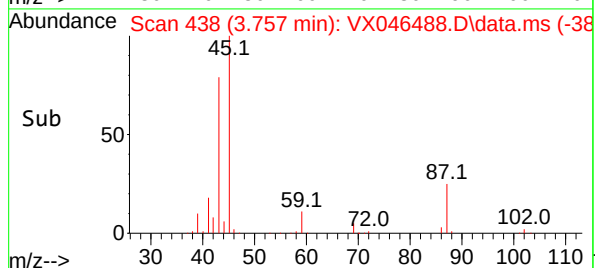
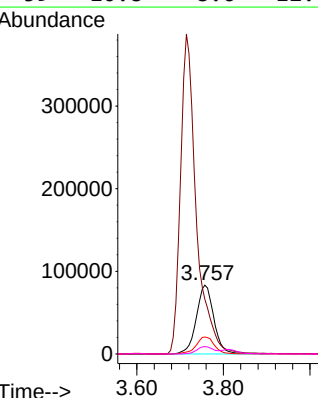
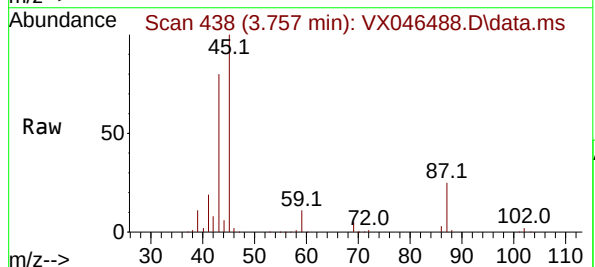
Ion Ratio Lower Upper

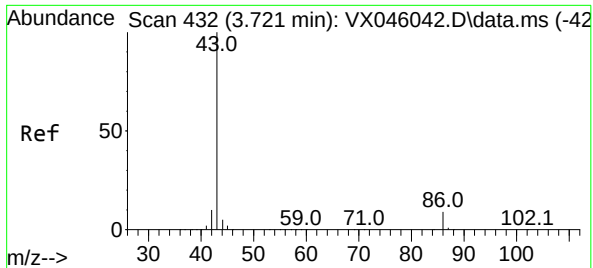
45 100

43 78.9 66.6 100.0

87 24.6 19.8 29.6

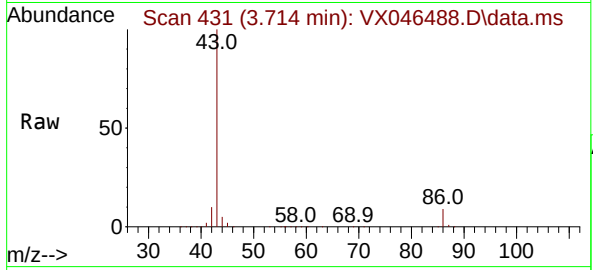
59 10.8 8.6 12.8





#23  
Vinyl Acetate  
Concen: 262.170 ug/l  
RT: 3.714 min Scan# 41  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

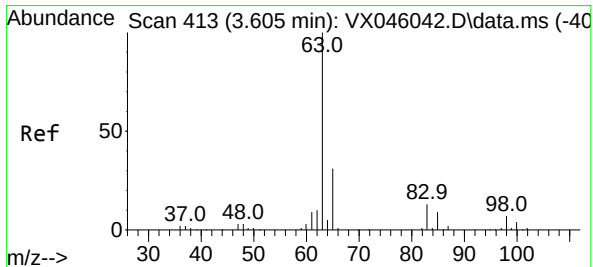
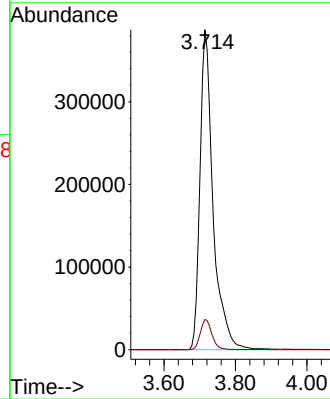
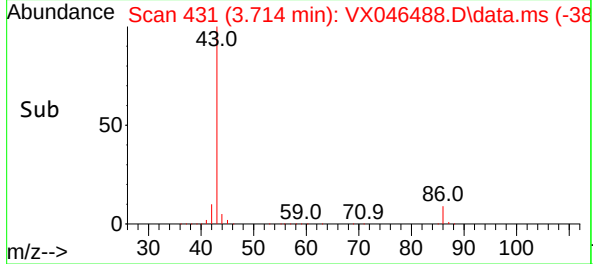
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



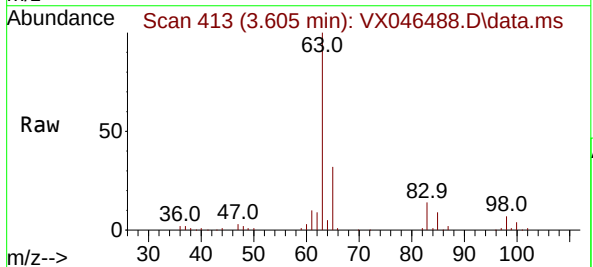
Tgt Ion: 43 Resp: 98390  
Ion Ratio Lower Upper  
43 100  
86 9.4 7.5 11.3

Manual Integrations  
**APPROVED**

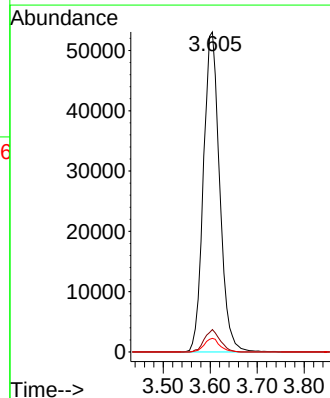
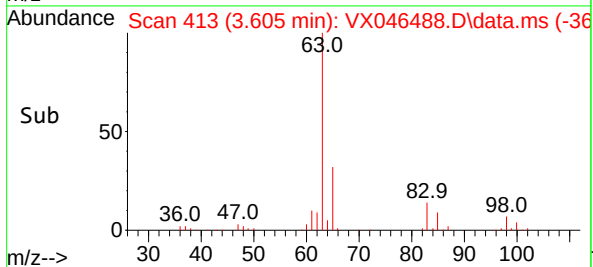
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

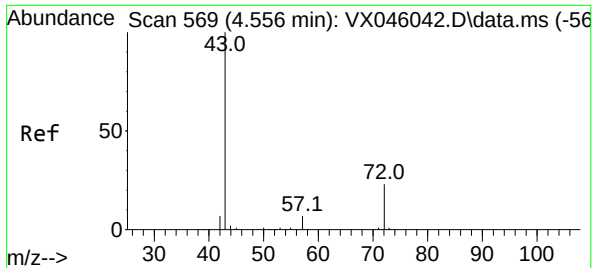


#24  
1,1-Dichloroethane  
Concen: 53.406 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12



Tgt Ion: 63 Resp: 126924  
Ion Ratio Lower Upper  
63 100  
98 7.0 3.6 10.8  
100 4.3 2.1 6.3





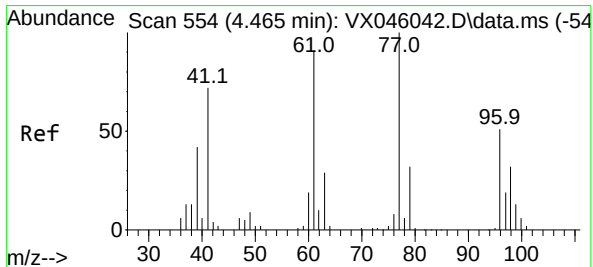
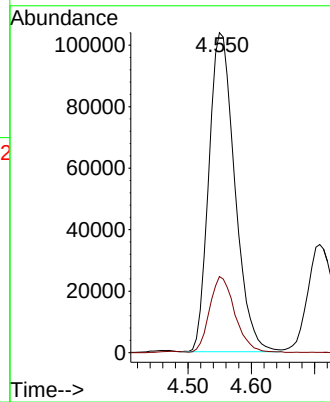
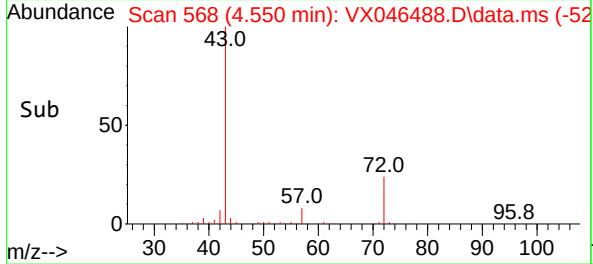
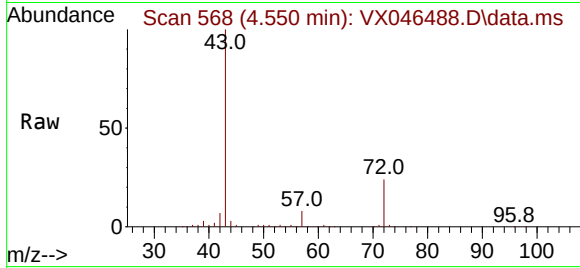
#25  
2-Butanone  
Concen: 279.346 ug/l  
RT: 4.550 min Scan# 50  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 43 Resp: 29549  
Ion Ratio Lower Upper  
43 100  
72 23.6 18.4 27.6

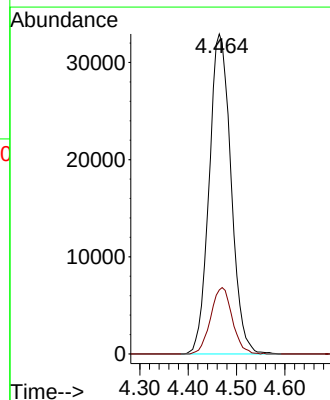
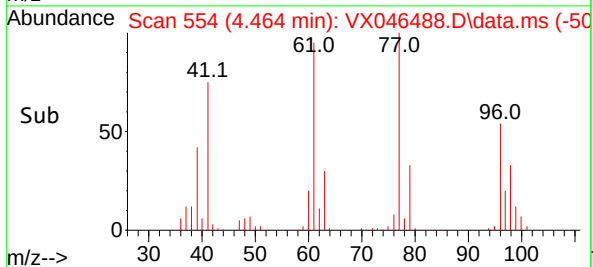
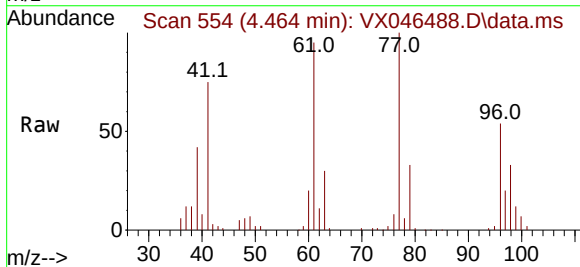
Manual Integrations  
APPROVED

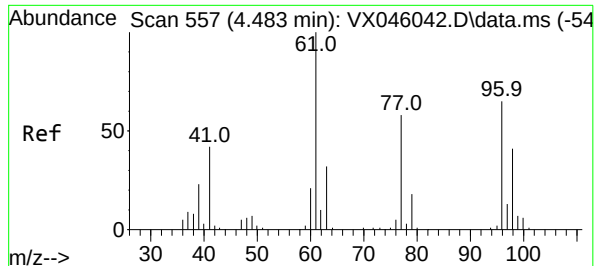
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#26  
2,2-Dichloropropane  
Concen: 55.512 ug/l  
RT: 4.464 min Scan# 554  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 77 Resp: 103262  
Ion Ratio Lower Upper  
77 100  
97 20.5 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 52.056 ug/l

RT: 4.476 min Scan# 557

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 72840

Ion Ratio Lower Upper

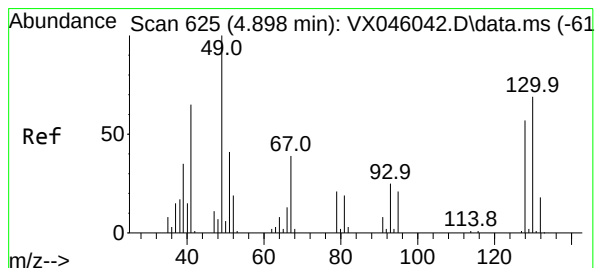
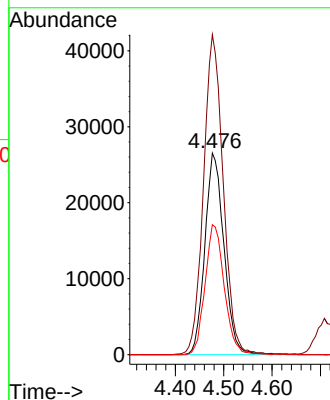
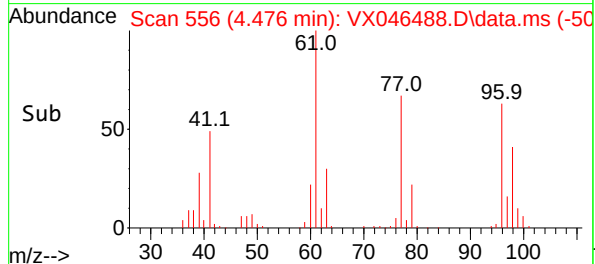
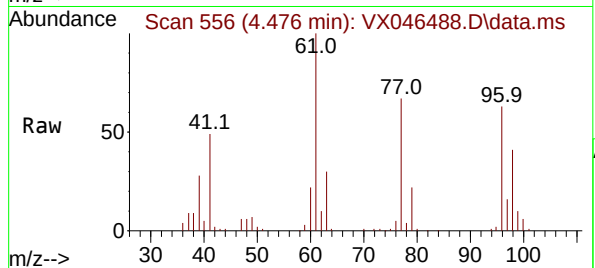
96 100

61 164.0 0.0 322.8

98 64.8 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#28

Bromochloromethane

Concen: 46.549 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.013 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

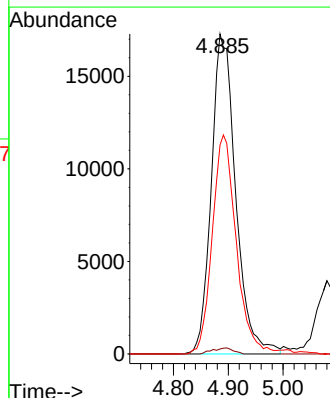
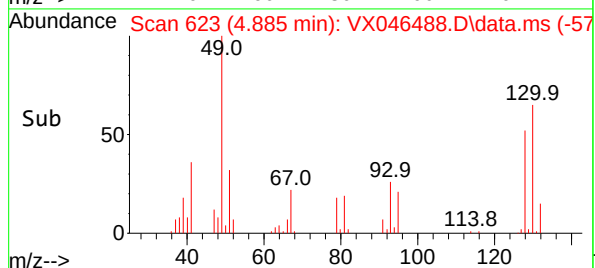
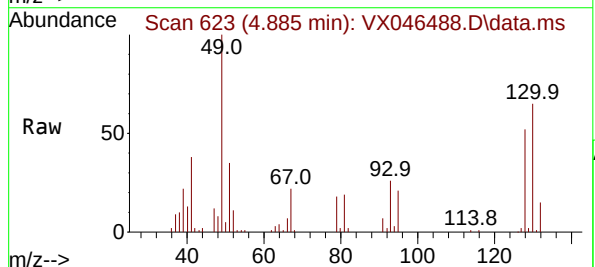
Tgt Ion: 49 Resp: 53251

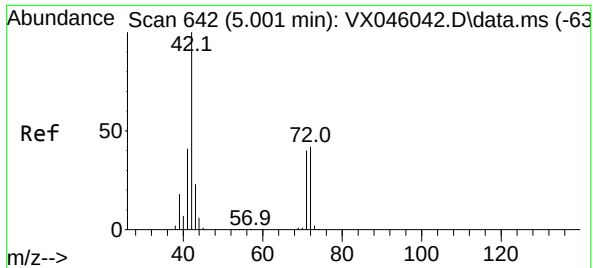
Ion Ratio Lower Upper

49 100

129 1.6 0.0 4.0

130 67.3 56.2 84.2





#29

Tetrahydrofuran

Concen: 274.234 ug/l

RT: 5.001 min Scan# 642

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 18177

Ion Ratio Lower Upper

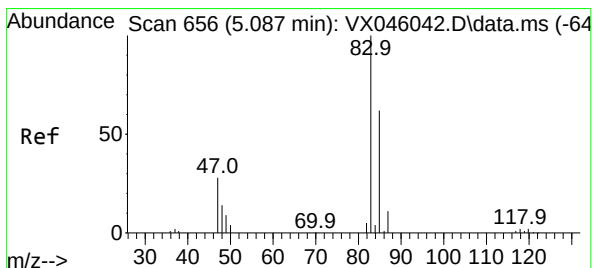
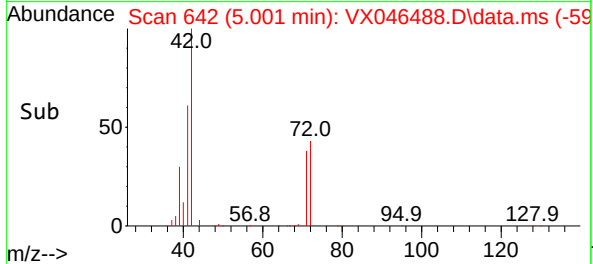
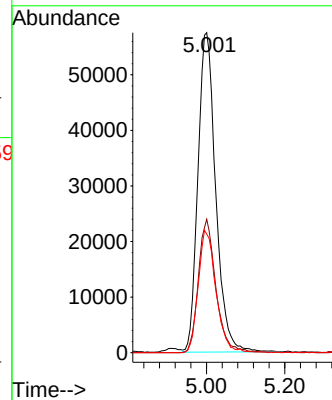
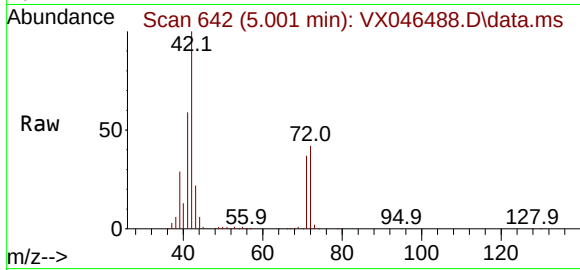
42 100

72 41.3 33.7 50.5

71 38.1 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#30

Chloroform

Concen: 52.542 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX046488.D

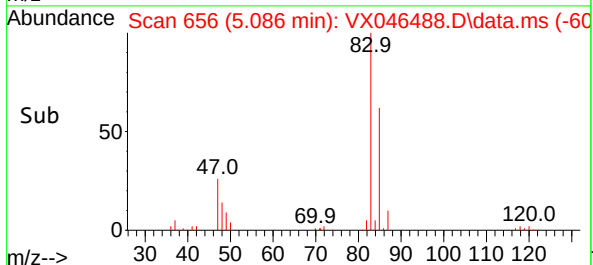
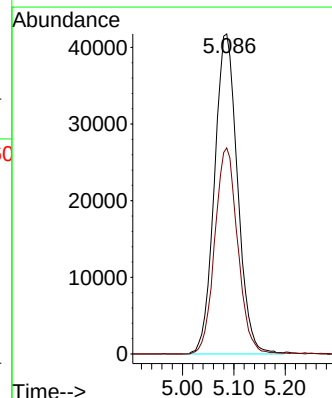
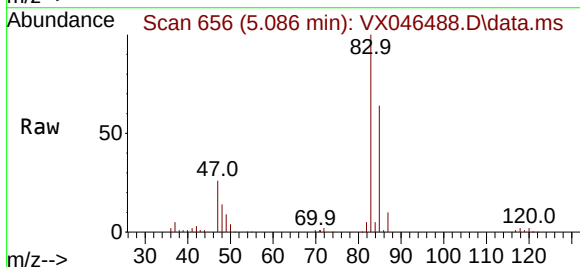
Acq: 04 Jun 2025 10:12

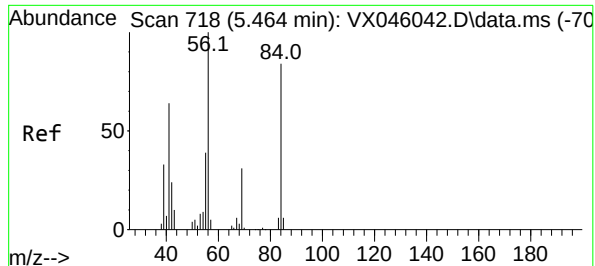
Tgt Ion: 83 Resp: 130154

Ion Ratio Lower Upper

83 100

85 64.4 49.3 73.9





#31

Cyclohexane

Concen: 49.761 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 10776

Ion Ratio Lower Upper

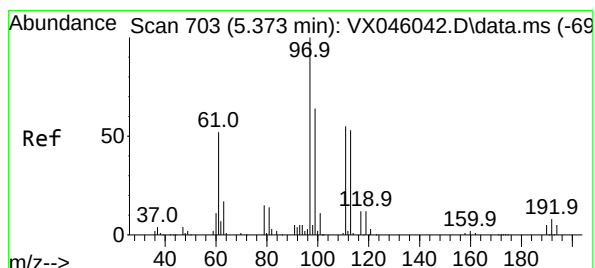
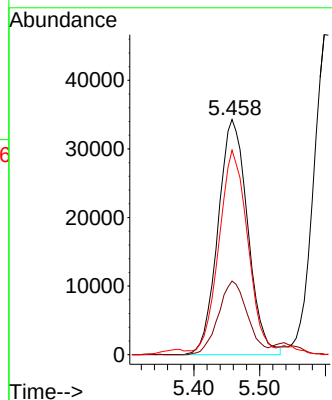
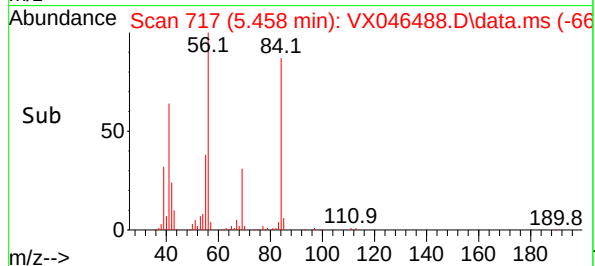
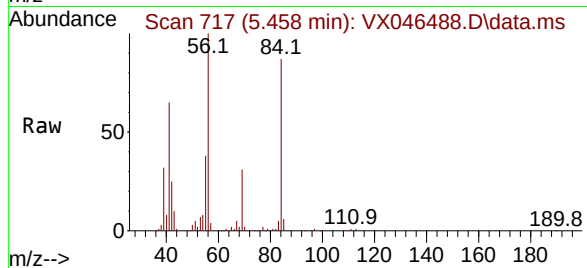
56 100

69 31.3 24.4 36.6

84 84.7 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#32

1,1,1-Trichloroethane

Concen: 52.691 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

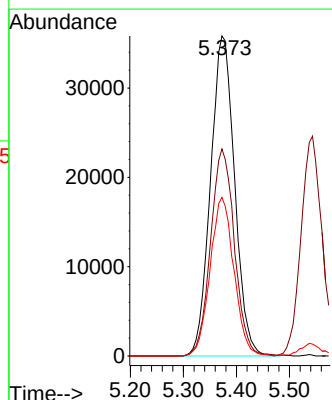
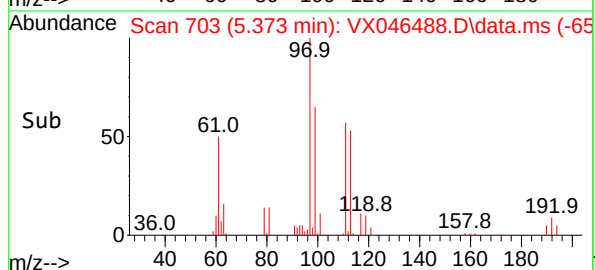
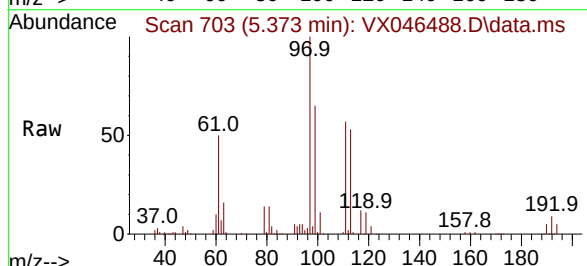
Tgt Ion: 97 Resp: 113144

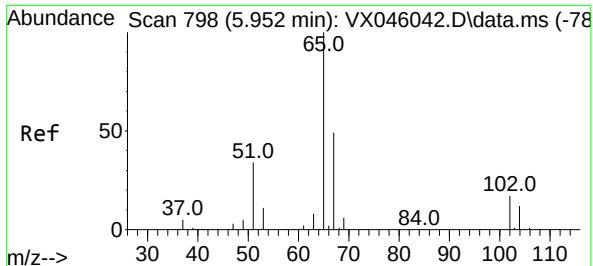
Ion Ratio Lower Upper

97 100

99 63.9 51.8 77.6

61 49.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 46.217 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 8398

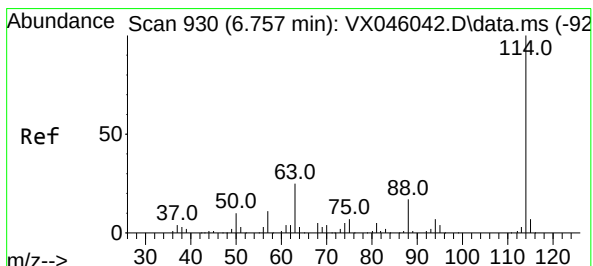
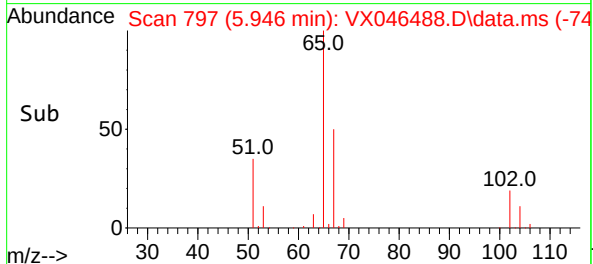
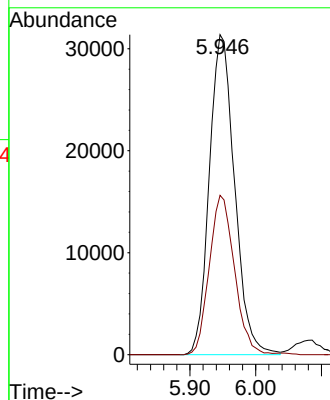
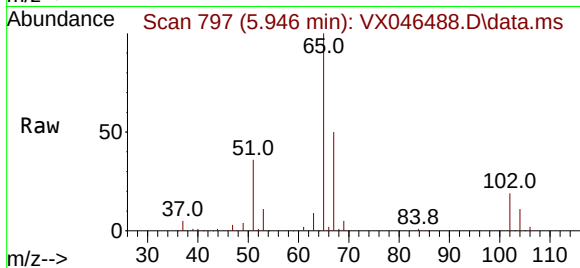
Ion Ratio Lower Upper

65 100

67 49.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.750 min Scan# 929

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

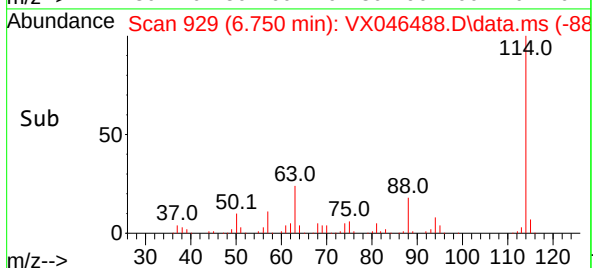
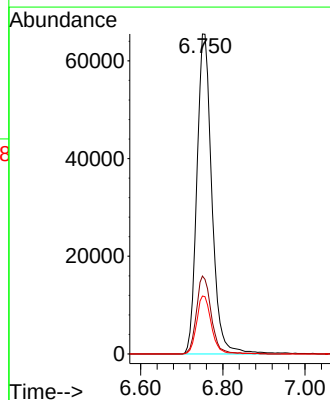
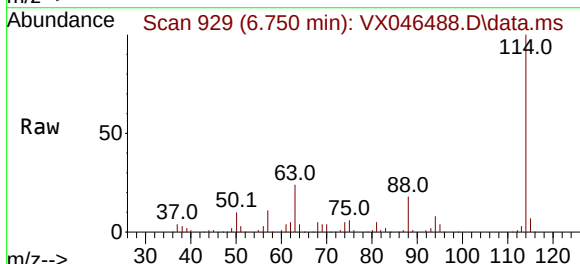
Tgt Ion:114 Resp: 165033

Ion Ratio Lower Upper

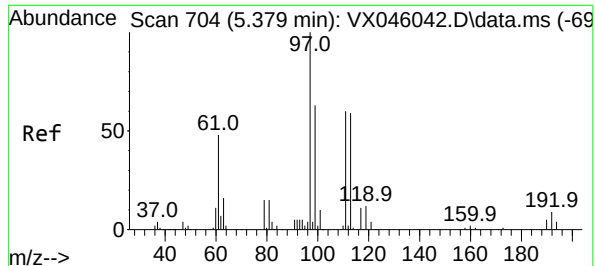
114 100

63 24.4 0.0 49.2

88 18.1 0.0 33.6







#35

Dibromofluoromethane

Concen: 49.466 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.007 min

Lab File: VX046488.D

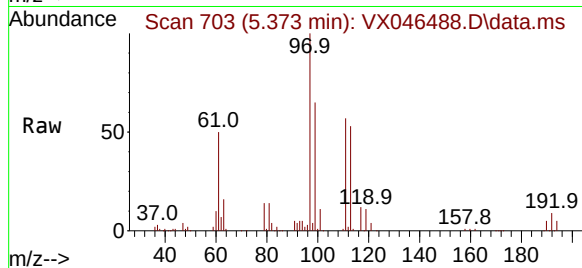
Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050



Tgt Ion:113 Resp: 5878

Ion Ratio Lower Upper

113 100

111 104.7 83.1 124.7

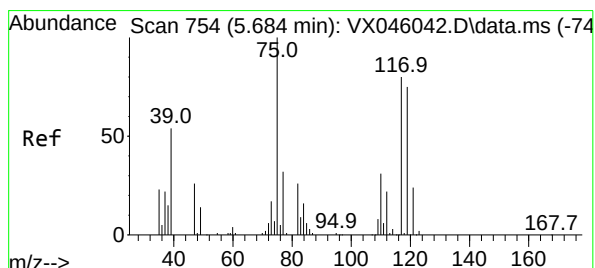
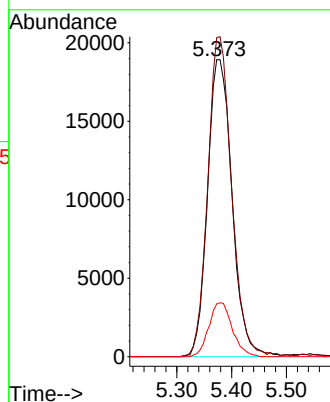
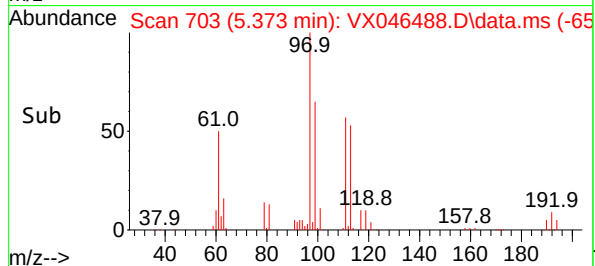
192 17.4 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025

Supervised By :Semsettin Yesilyurt 06/05/2025



#36

1,1-Dichloropropene

Concen: 52.307 ug/l

RT: 5.677 min Scan# 753

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

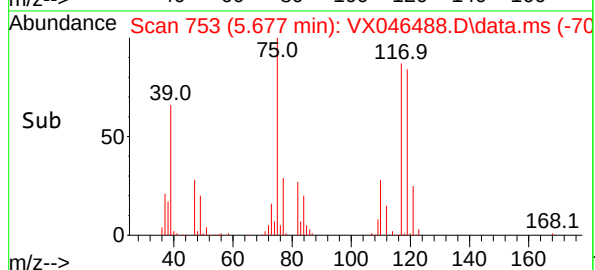
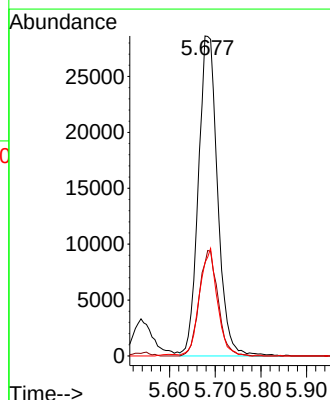
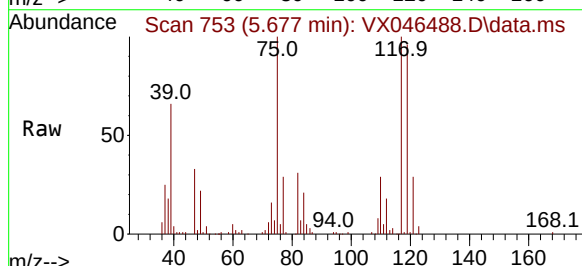
Tgt Ion: 75 Resp: 83522

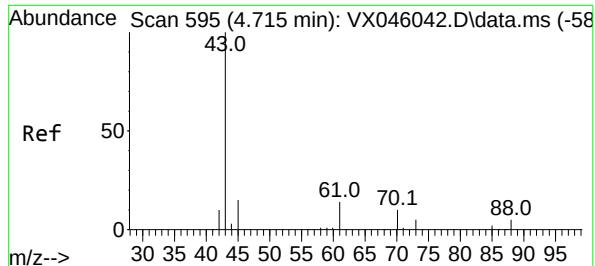
Ion Ratio Lower Upper

75 100

110 32.3 16.3 48.9

77 31.1 24.3 36.5





#37

Ethyl Acetate

Concen: 53.296 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 10514

Ion Ratio Lower Upper

43 100

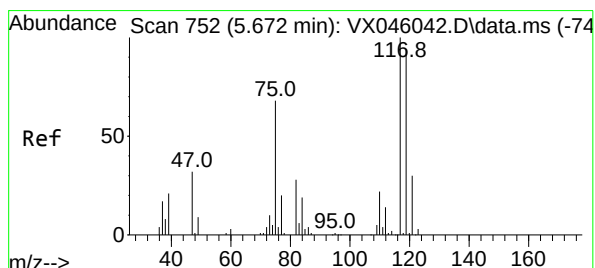
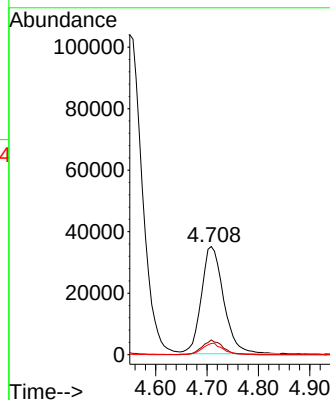
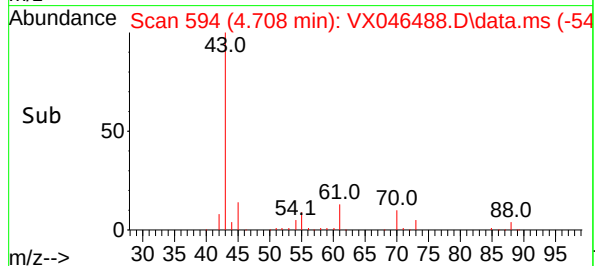
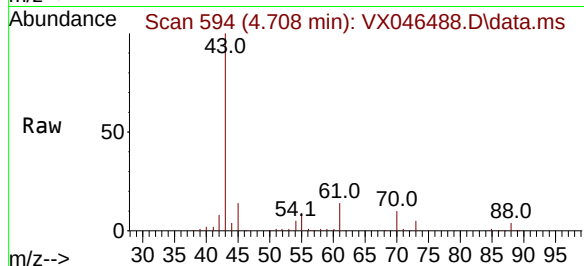
61 12.7 10.3 15.5

70 9.7 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#38

Carbon Tetrachloride

Concen: 54.045 ug/l

RT: 5.671 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

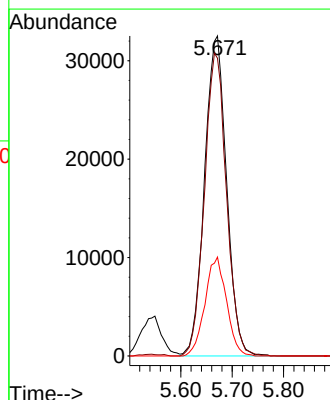
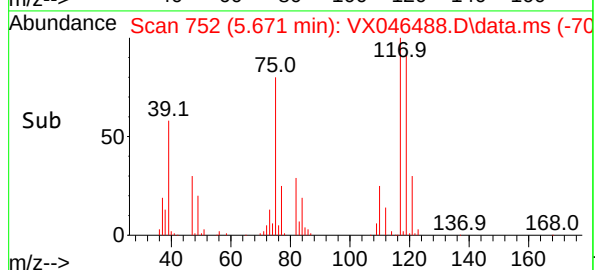
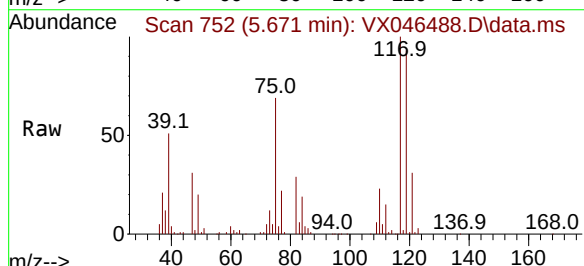
Tgt Ion:117 Resp: 96961

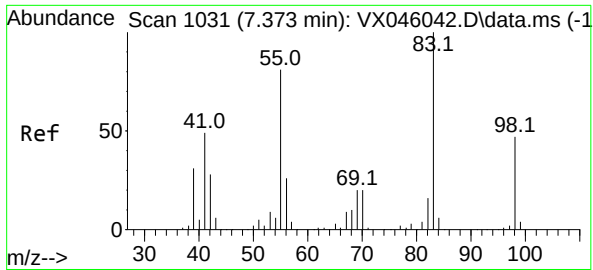
Ion Ratio Lower Upper

117 100

119 93.0 75.2 112.8

121 30.9 24.2 36.4





#39

Methylcyclohexane

Concen: 52.202 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 10731

Ion Ratio Lower Upper

83 100

55 83.4 64.7 97.1

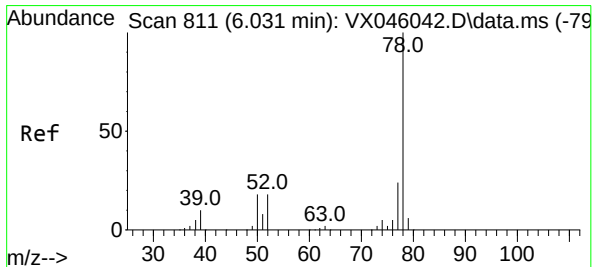
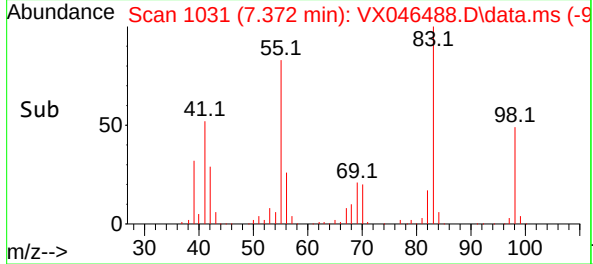
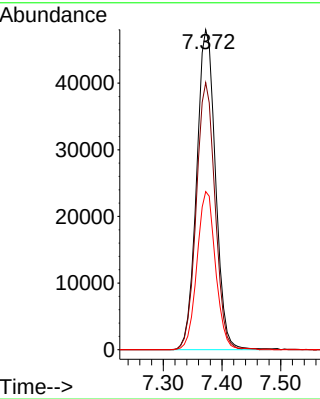
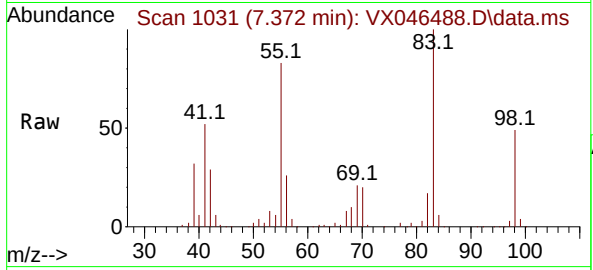
98 49.4 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025

Supervised By :Semsettin Yesilyurt 06/05/2025



#40

Benzene

Concen: 52.789 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX046488.D

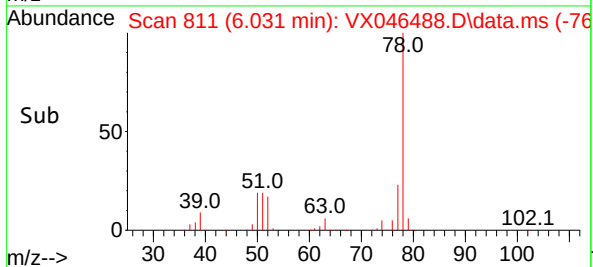
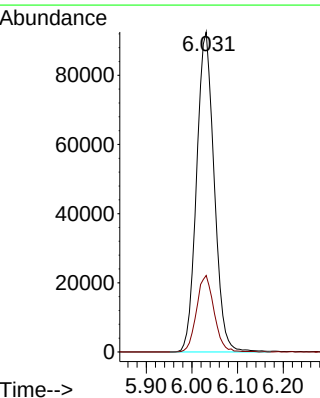
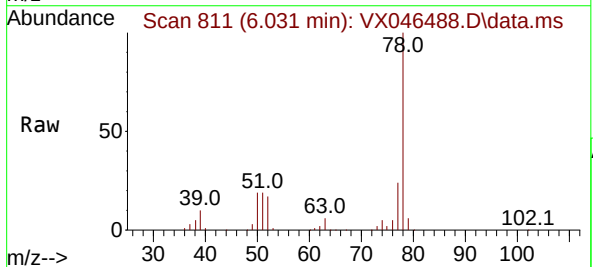
Acq: 04 Jun 2025 10:12

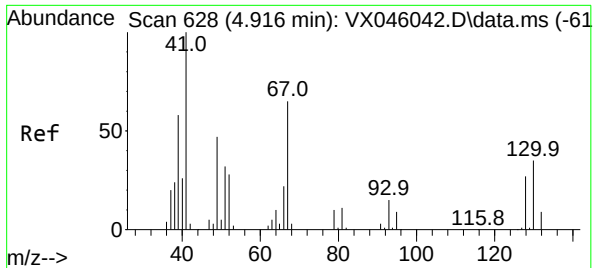
Tgt Ion: 78 Resp: 246896

Ion Ratio Lower Upper

78 100

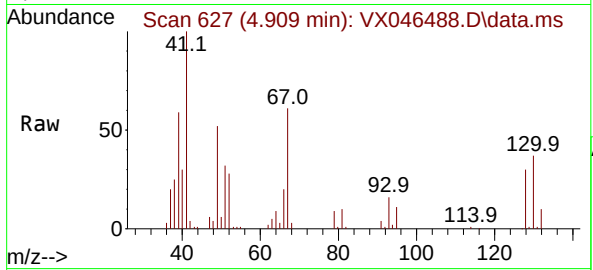
77 23.9 19.0 28.4





#41  
Methacrylonitrile  
Concen: 59.164 ug/l m  
RT: 4.909 min Scan# 6105  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

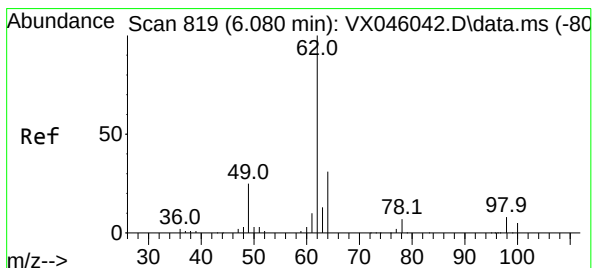
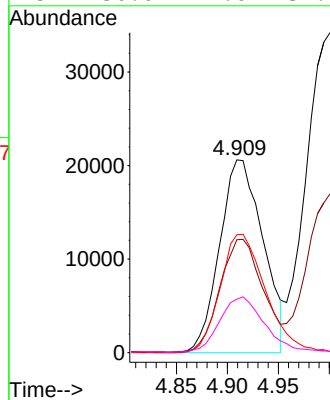
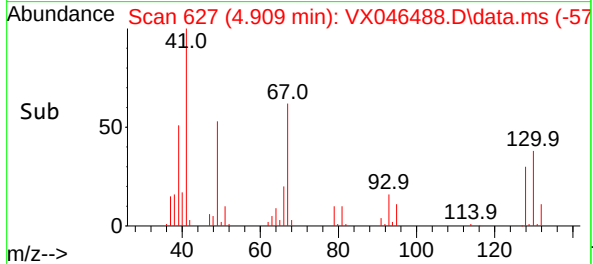
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 41 Resp: 6105  
Ion Ratio Lower Upper  
41 100  
39 58.5 47.2 70.8  
67 64.4 50.7 76.1  
52 30.6 24.6 37.0

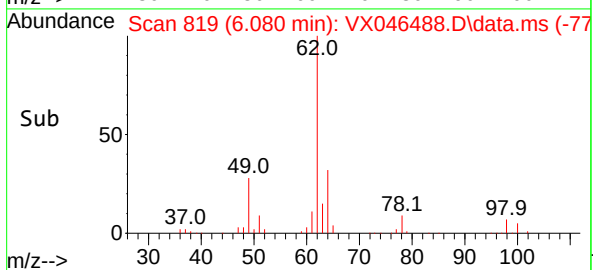
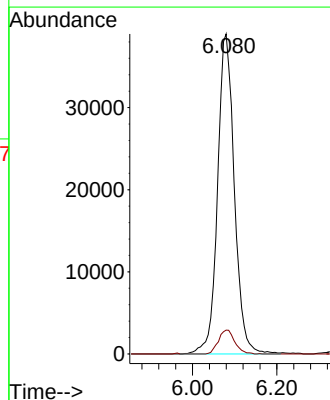
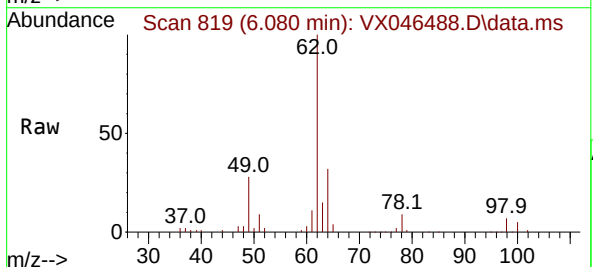
Manual Integrations  
**APPROVED**

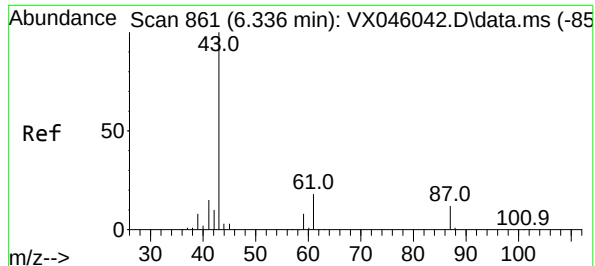
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#42  
1,2-Dichloroethane  
Concen: 53.188 ug/l  
RT: 6.080 min Scan# 819  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 62 Resp: 107364  
Ion Ratio Lower Upper  
62 100  
98 7.3 0.0 15.2





#43

Isopropyl Acetate

Concen: 57.328 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX046488.D

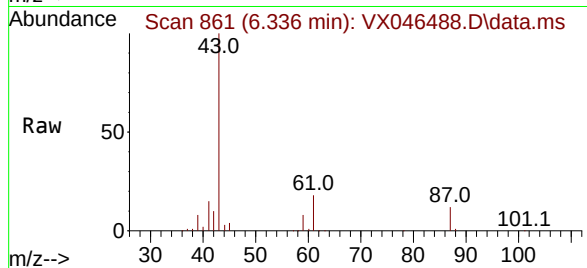
Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050



Tgt Ion: 43 Resp: 172534

Ion Ratio Lower Upper

43 100

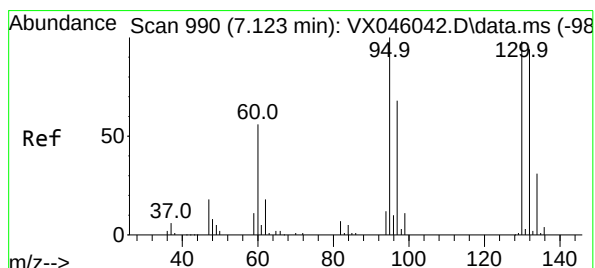
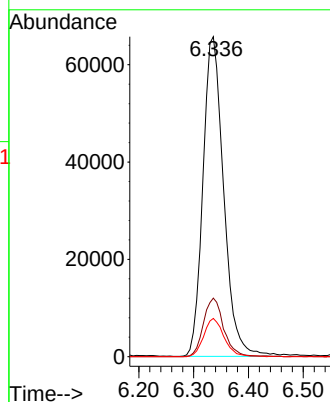
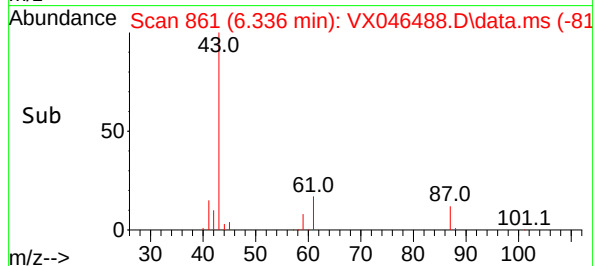
61 17.8 14.3 21.5

87 11.7 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#44

Trichloroethene

Concen: 53.347 ug/l

RT: 7.116 min Scan# 989

Delta R.T. -0.007 min

Lab File: VX046488.D

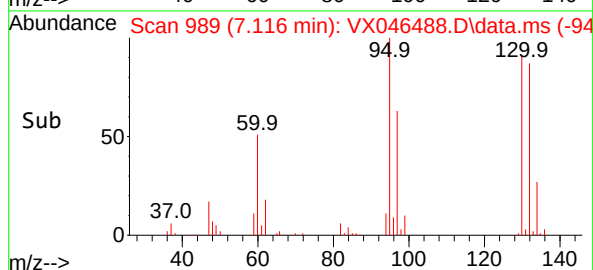
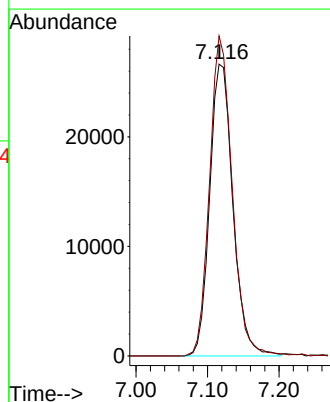
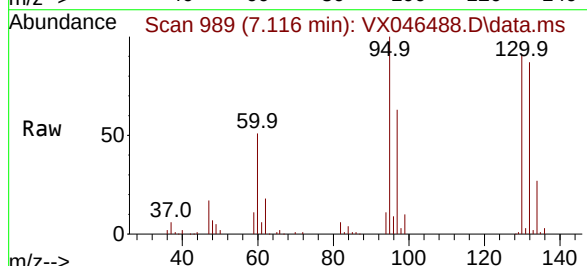
Acq: 04 Jun 2025 10:12

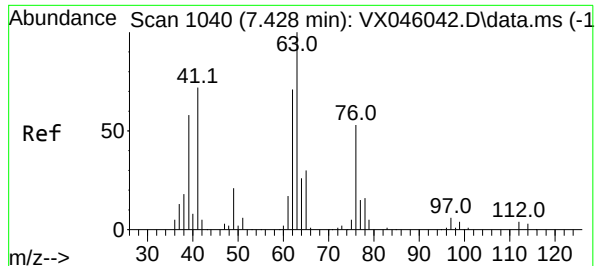
Tgt Ion:130 Resp: 60052

Ion Ratio Lower Upper

130 100

95 109.6 0.0 204.2





#45

1,2-Dichloropropane

Concen: 54.797 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 63728

Ion Ratio Lower Upper

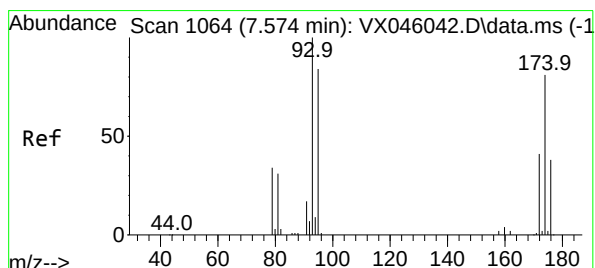
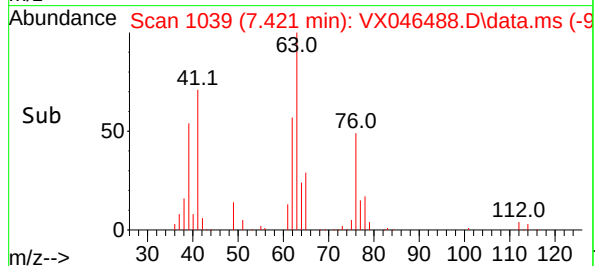
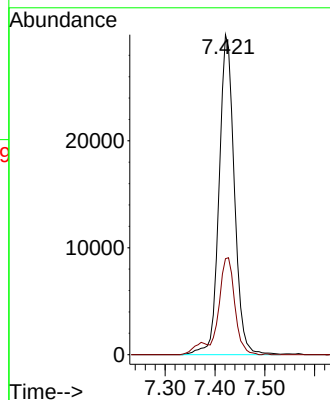
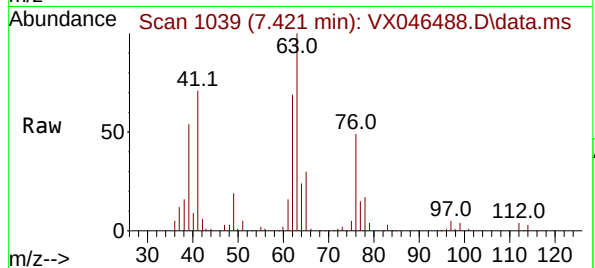
63 100

65 30.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#46

Dibromomethane

Concen: 52.494 ug/l

RT: 7.573 min Scan# 1064

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

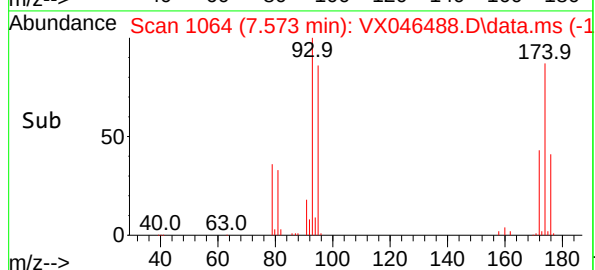
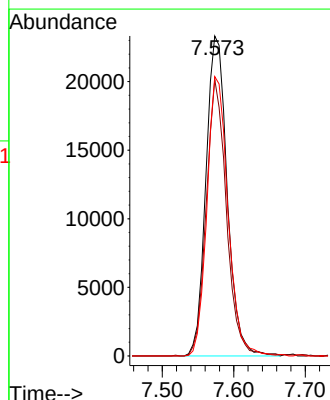
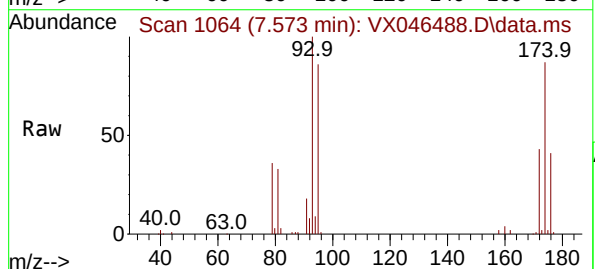
Tgt Ion: 93 Resp: 48150

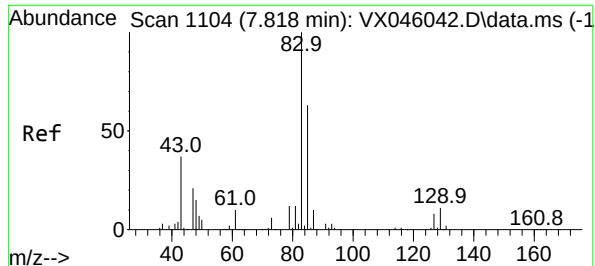
Ion Ratio Lower Upper

93 100

95 82.4 65.6 98.4

174 86.7 68.2 102.2





#47

Bromodichloromethane

Concen: 55.341 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

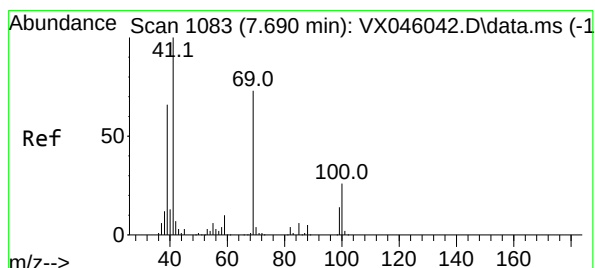
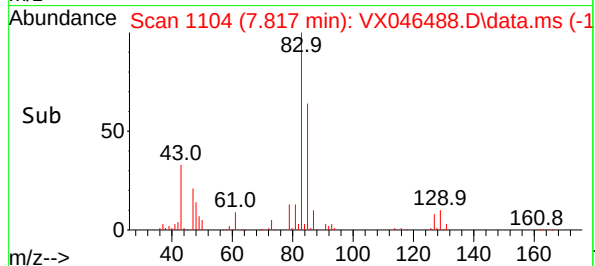
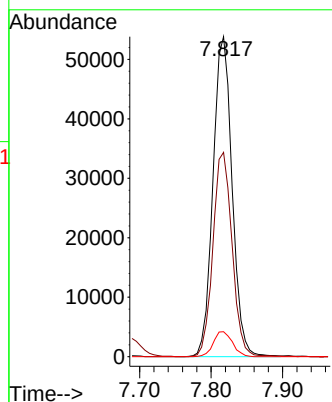
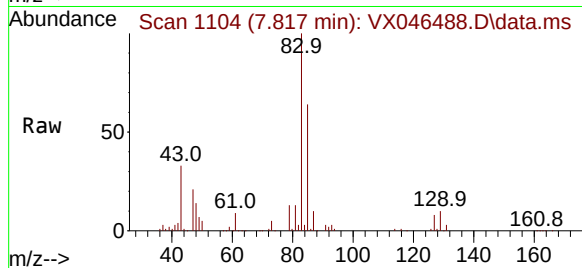
VSTDCCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 99979 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.8  | 50.5  | 75.7  |
| 127      | 7.8   | 6.5   | 9.7   |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#48

Methyl methacrylate

Concen: 57.719 ug/l

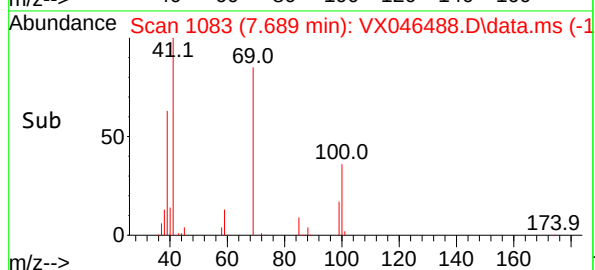
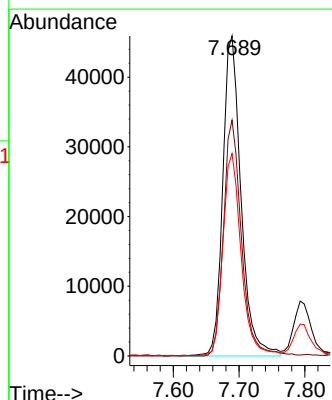
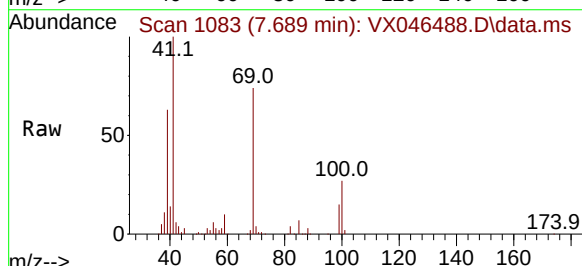
RT: 7.689 min Scan# 1083

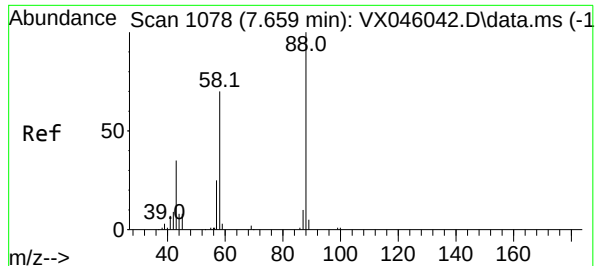
Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 88716 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 72.6  | 58.5  | 87.7  |
| 39       | 62.9  | 51.7  | 77.5  |





#49

1,4-Dioxane

Concen: 1071.717 ug/l

RT: 7.653 min Scan# 1077

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

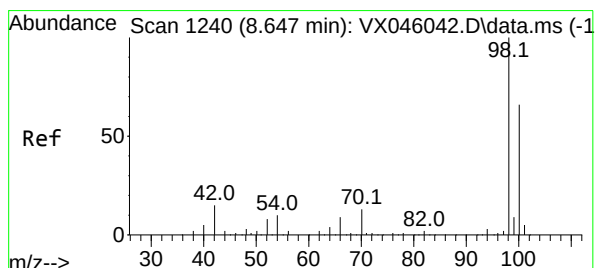
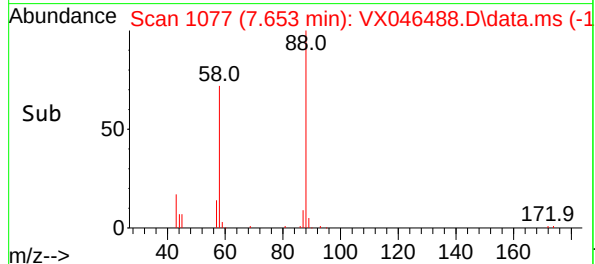
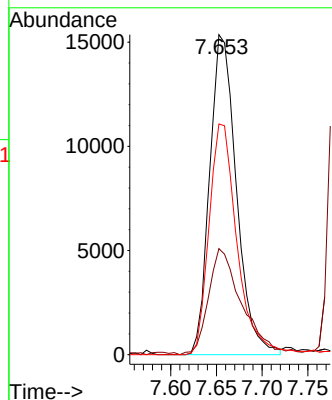
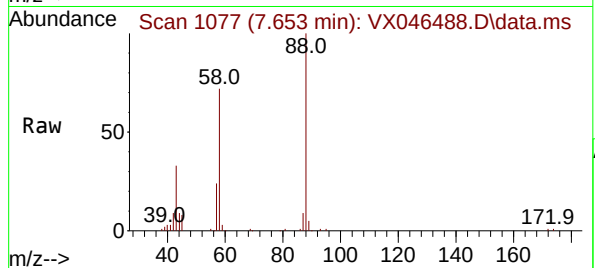
VSTDCCC050

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 88    | Resp: | 3127 |
| Ion Ratio | Lower | Upper |      |
| 88        | 100   |       |      |
| 43        | 41.5  | 33.4  | 50.2 |
| 58        | 75.7  | 58.6  | 88.0 |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#50

Toluene-d8

Concen: 45.524 ug/l

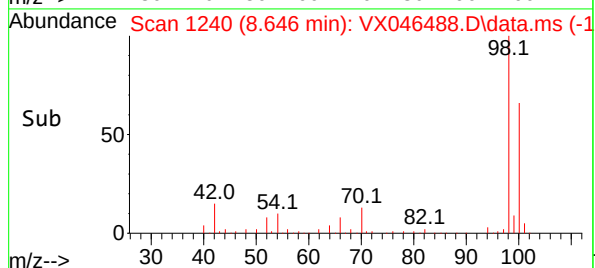
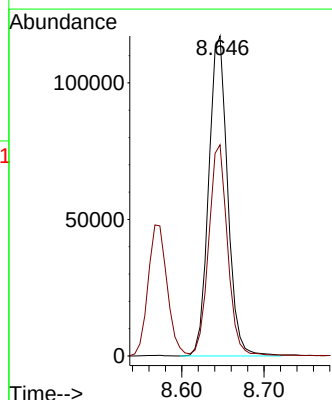
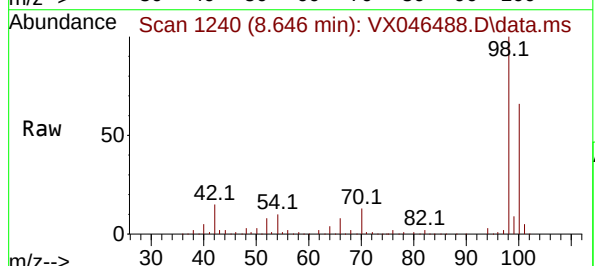
RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

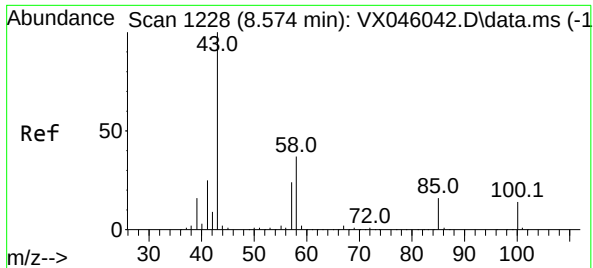
Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 187253 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 66.0  | 53.5  | 80.3   |







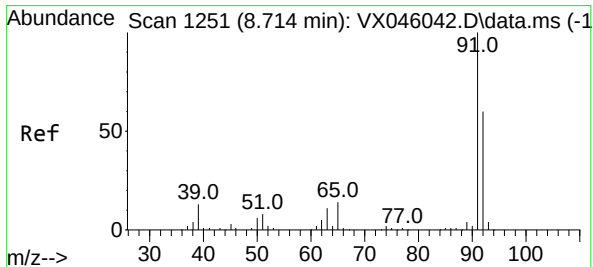
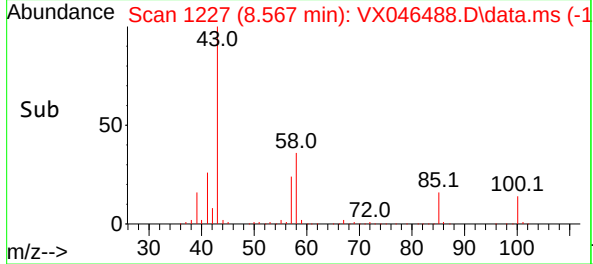
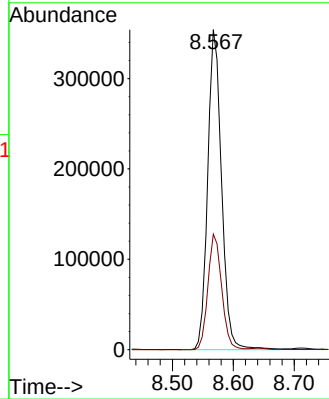
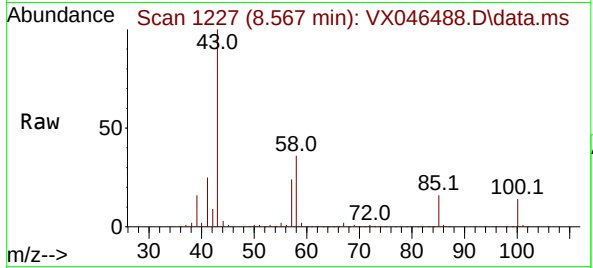
#51  
4-Methyl-2-Pentanone  
Concen: 280.031 ug/l  
RT: 8.567 min Scan# 1227  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 43 Resp: 55942  
Ion Ratio Lower Upper  
43 100  
58 35.9 28.9 43.3

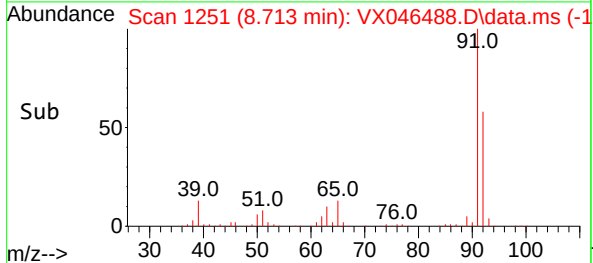
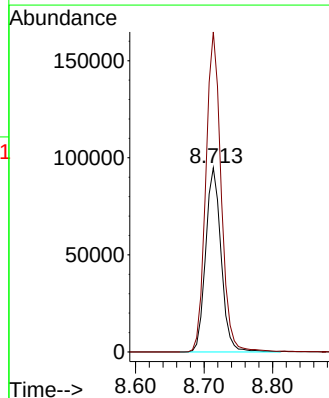
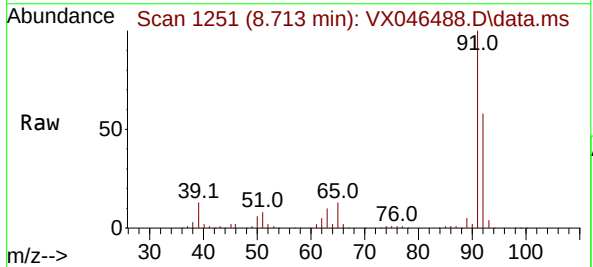
Manual Integrations  
**APPROVED**

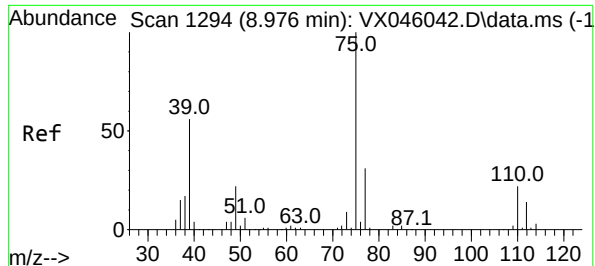
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#52  
Toluene  
Concen: 51.931 ug/l  
RT: 8.713 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 92 Resp: 148931  
Ion Ratio Lower Upper  
92 100  
91 172.6 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 57.213 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 91872

Ion Ratio Lower Upper

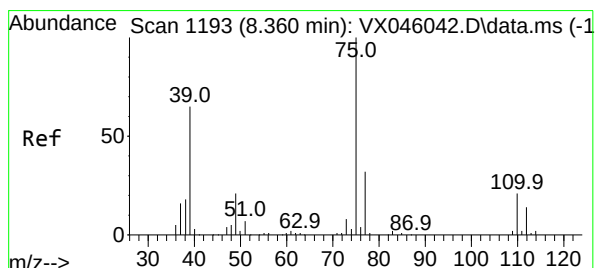
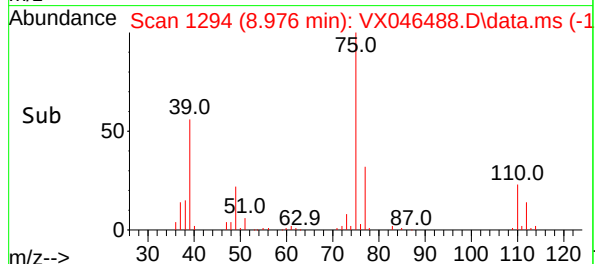
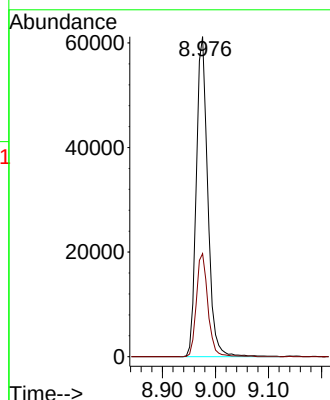
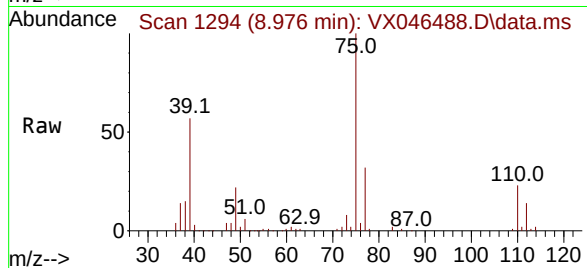
75 100

77 32.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#54

cis-1,3-Dichloropropene

Concen: 57.106 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

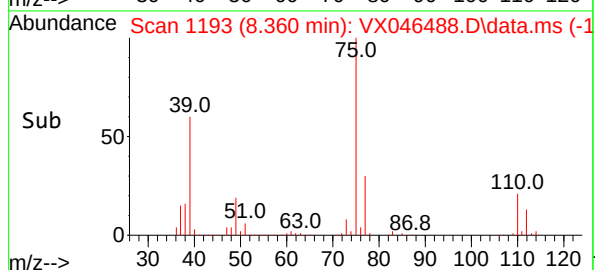
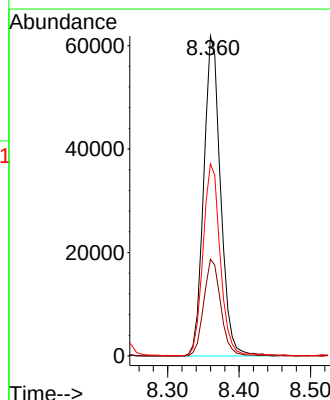
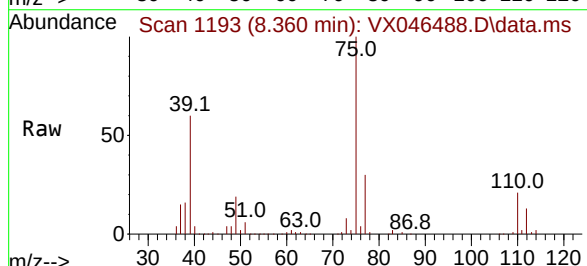
Tgt Ion: 75 Resp: 101352

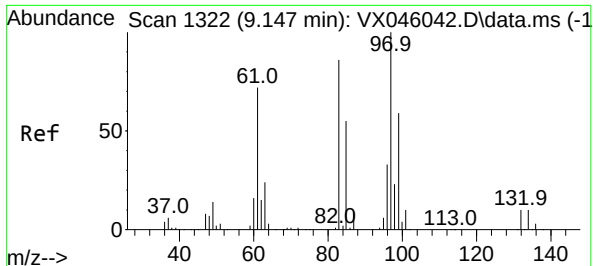
Ion Ratio Lower Upper

75 100

77 30.2 25.4 38.0

39 60.0 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 54.064 ug/l

RT: 9.146 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 61130

Ion Ratio Lower Upper

97 100

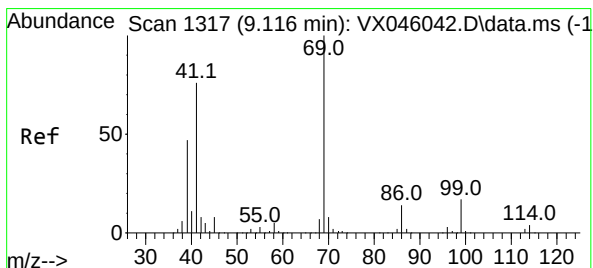
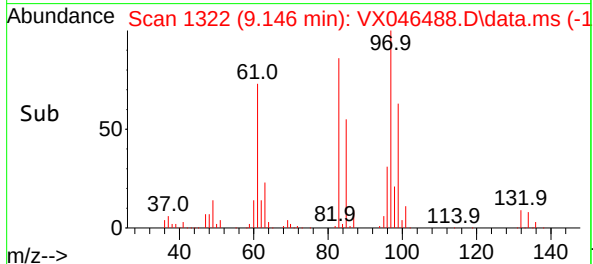
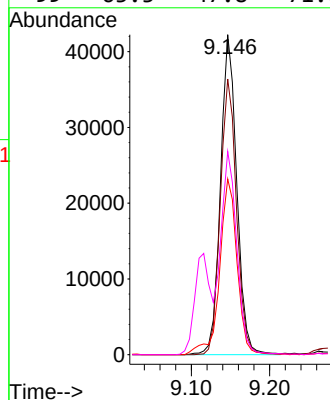
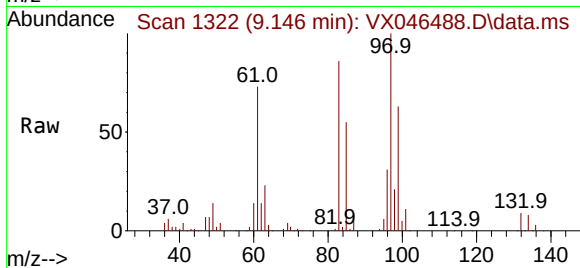
83 86.2 69.0 103.6

85 54.9 44.3 66.5

99 63.3 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#56

Ethyl methacrylate

Concen: 58.611 ug/l

RT: 9.110 min Scan# 1316

Delta R.T. -0.007 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

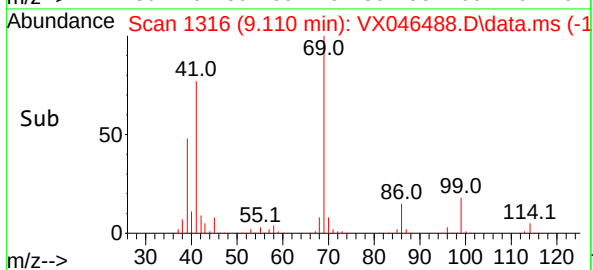
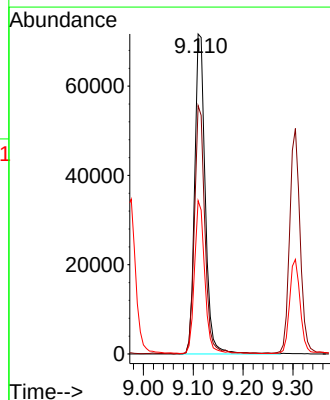
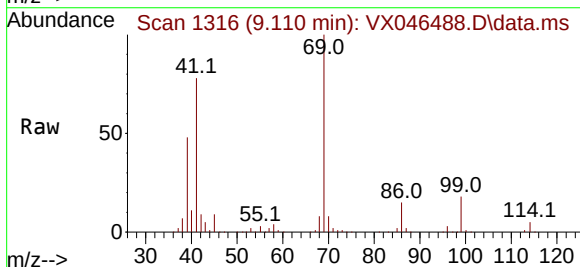
Tgt Ion: 69 Resp: 105633

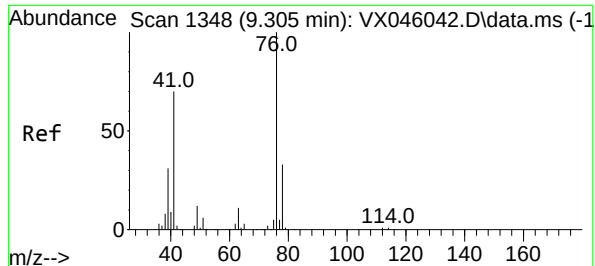
Ion Ratio Lower Upper

69 100

41 77.1 60.8 91.2

39 46.3 39.0 58.6





#57

1,3-Dichloropropane

Concen: 52.850 ug/l

RT: 9.305 min Scan# 111

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 10733

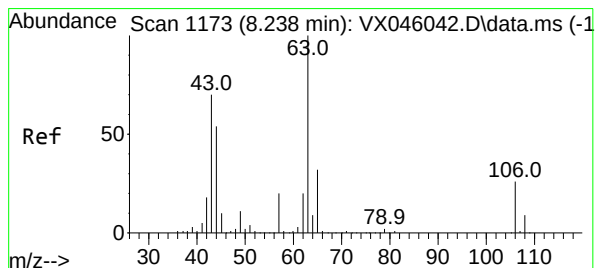
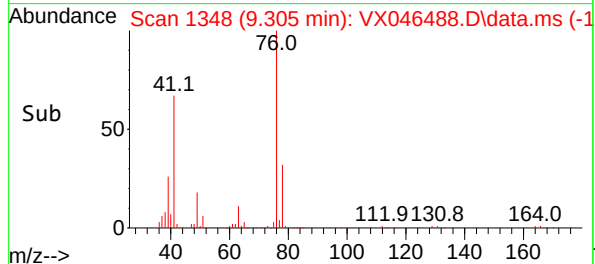
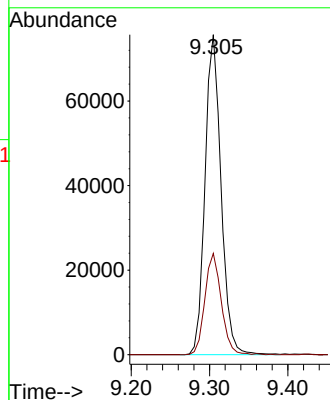
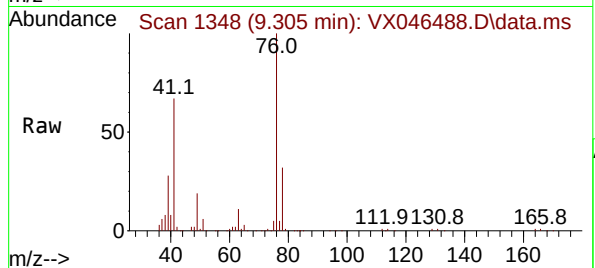
Ion Ratio Lower Upper

76 100

78 32.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#58

2-Chloroethyl Vinyl ether

Concen: 274.981 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046488.D

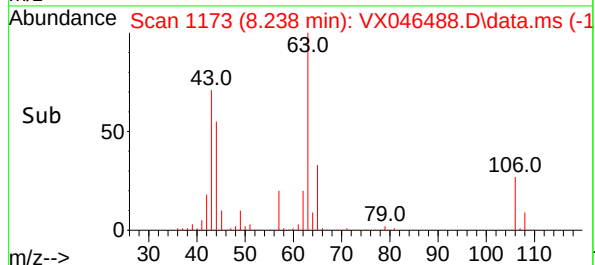
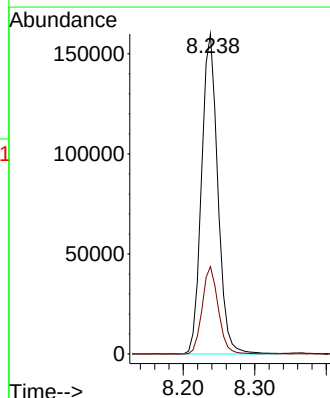
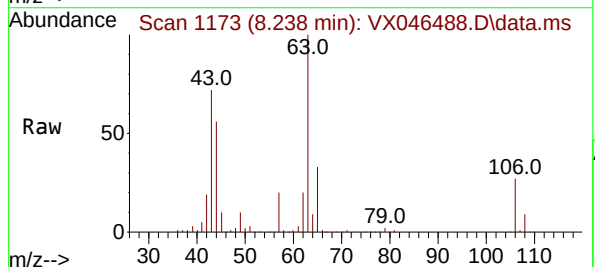
Acq: 04 Jun 2025 10:12

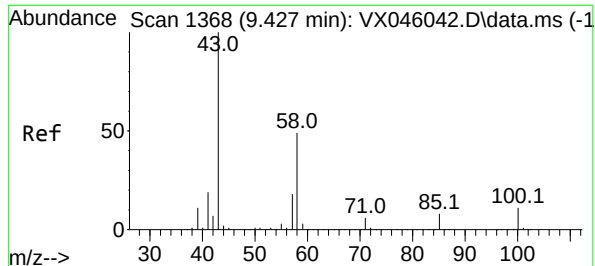
Tgt Ion: 63 Resp: 252660

Ion Ratio Lower Upper

63 100

106 27.0 21.5 32.3





#59

2-Hexanone

Concen: 286.265 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 423090

Ion Ratio Lower Upper

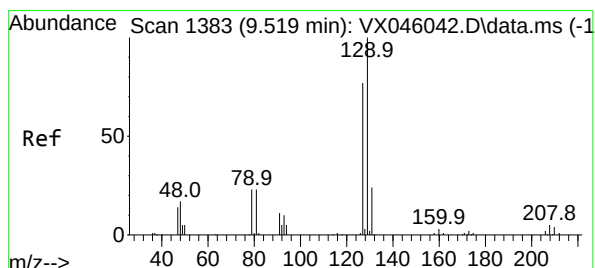
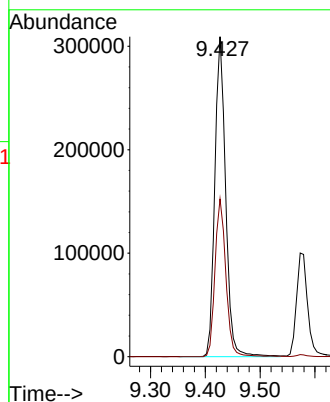
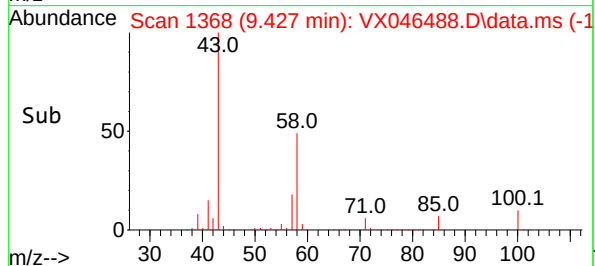
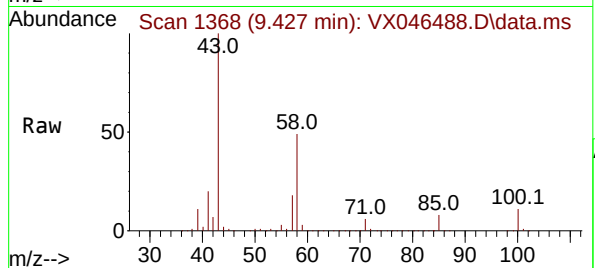
43 100

58 49.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#60

Dibromochloromethane

Concen: 56.300 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046488.D

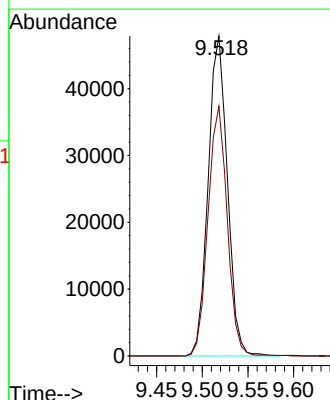
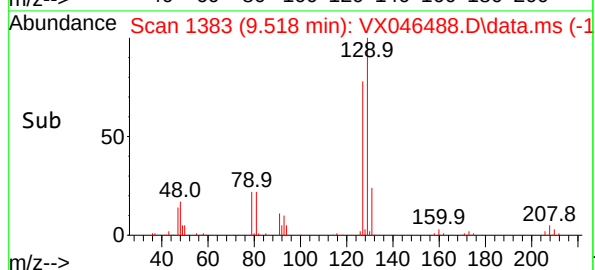
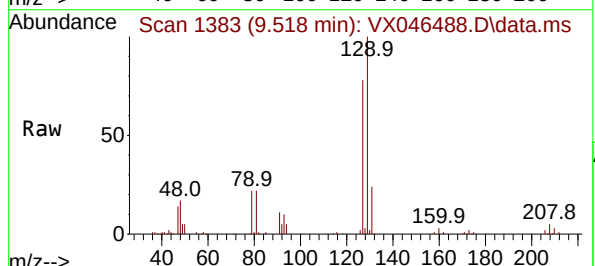
Acq: 04 Jun 2025 10:12

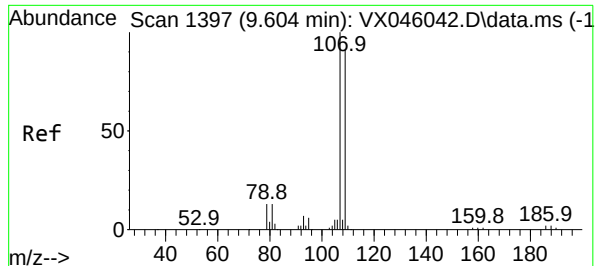
Tgt Ion:129 Resp: 69918

Ion Ratio Lower Upper

129 100

127 78.1 39.3 117.8





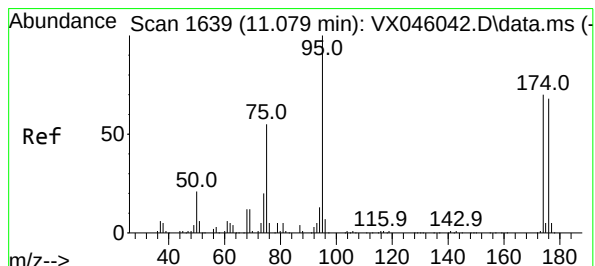
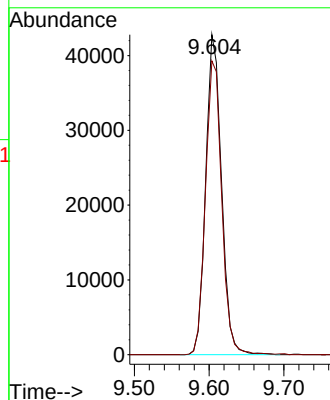
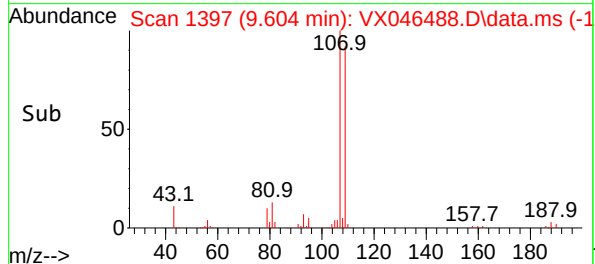
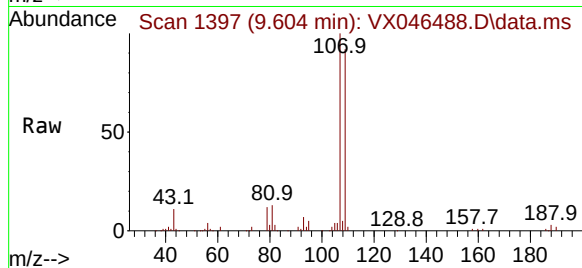
#61  
1,2-Dibromoethane  
Concen: 53.347 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion:107 Resp: 62700  
Ion Ratio Lower Upper  
107 100  
109 94.8 73.3 109.9

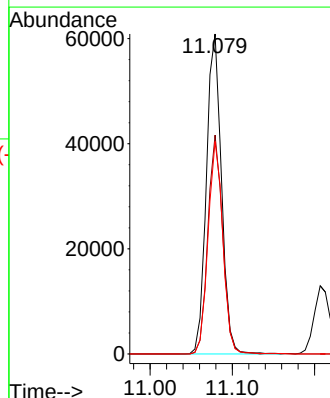
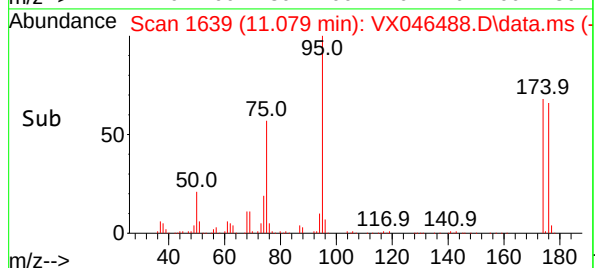
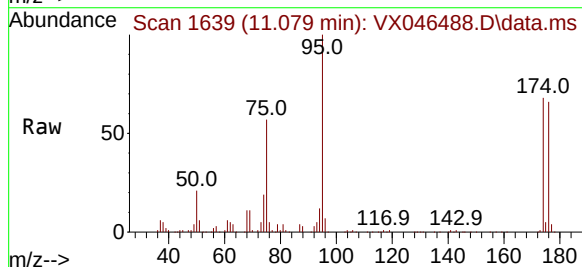
Manual Integrations  
**APPROVED**

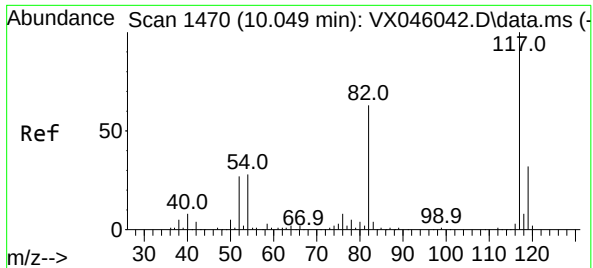
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#62  
4-Bromofluorobenzene  
Concen: 49.083 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

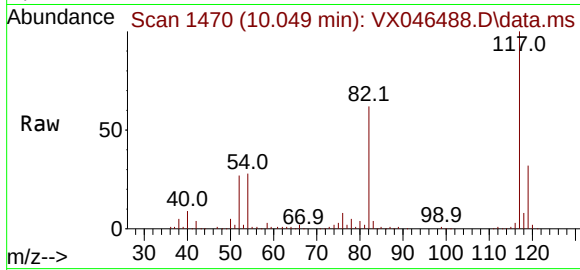
Tgt Ion: 95 Resp: 77443  
Ion Ratio Lower Upper  
95 100  
174 66.9 0.0 135.8  
176 65.0 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

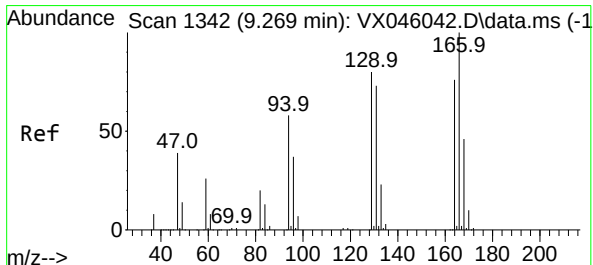
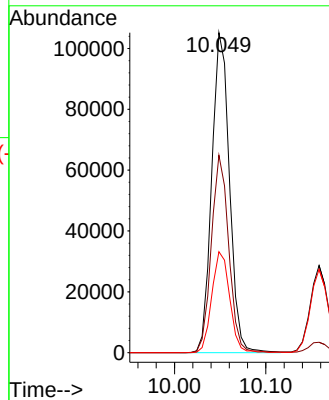
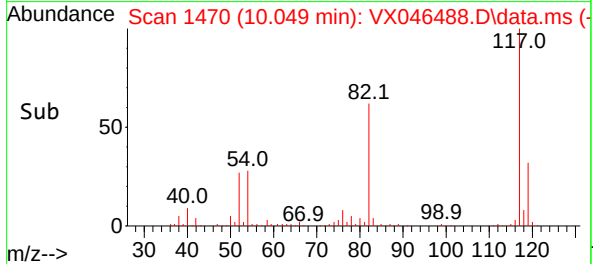
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:117 Resp: 14115  
Ion Ratio Lower Upper  
117 100  
82 61.7 50.6 76.0  
119 31.6 25.8 38.6

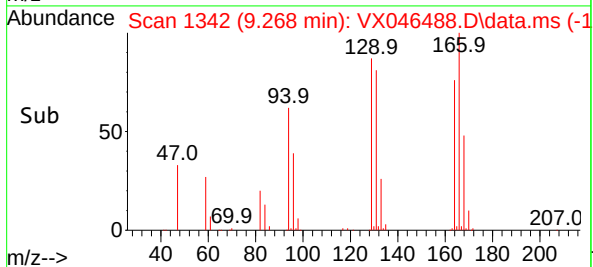
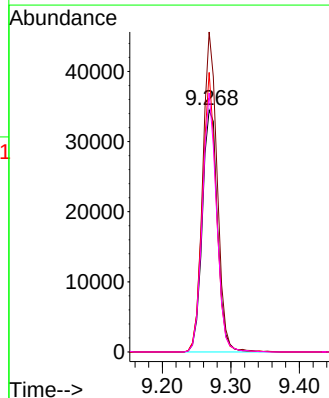
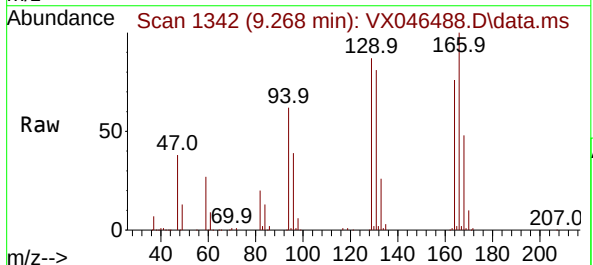
Manual Integrations  
APPROVED

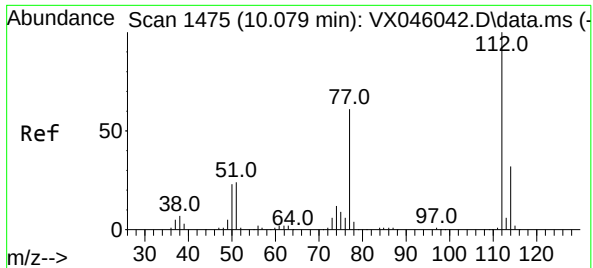
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#64  
Tetrachloroethene  
Concen: 53.362 ug/l  
RT: 9.268 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

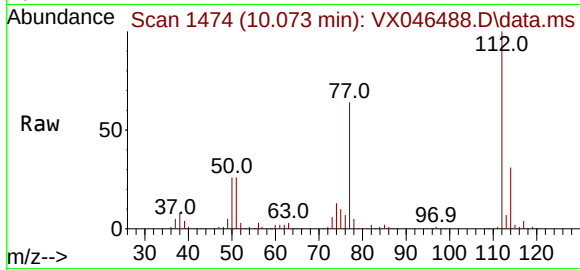
Tgt Ion:164 Resp: 53293  
Ion Ratio Lower Upper  
164 100  
166 132.3 105.0 157.6  
129 115.5 83.5 125.3  
131 107.1 76.5 114.7





#65  
Chlorobenzene  
Concen: 53.386 ug/l  
RT: 10.073 min Scan# 1475  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

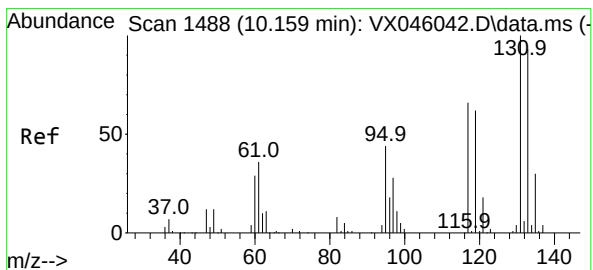
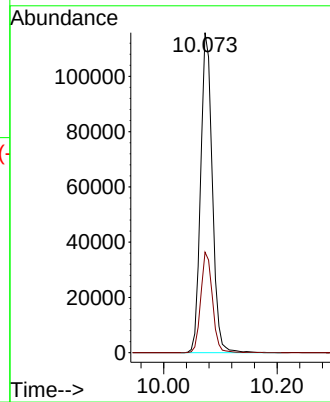
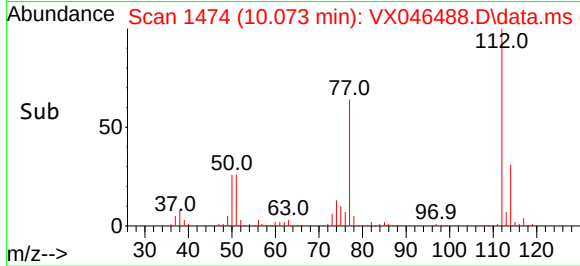
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:112 Resp: 16493  
Ion Ratio Lower Upper  
112 100  
114 31.4 25.4 38.2

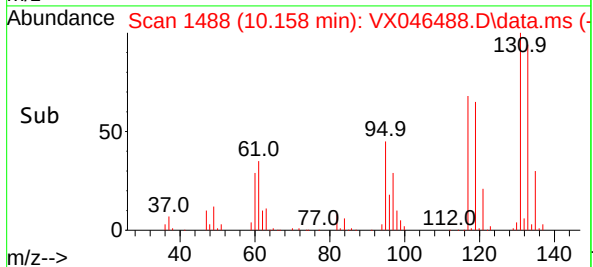
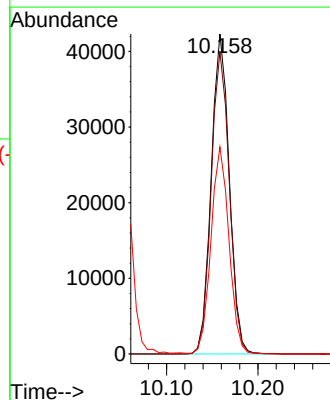
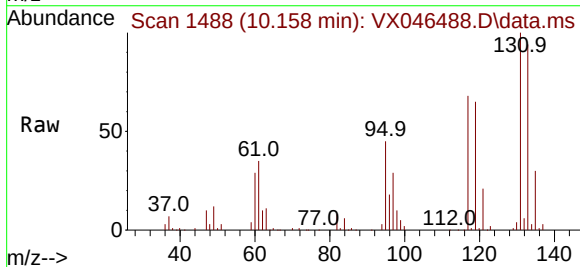
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

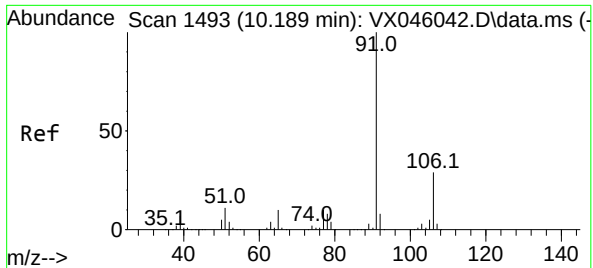


#66  
1,1,1,2-Tetrachloroethane  
Concen: 54.966 ug/l  
RT: 10.158 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion:131 Resp: 57986  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.3 141.9  
119 64.5 31.6 95.0

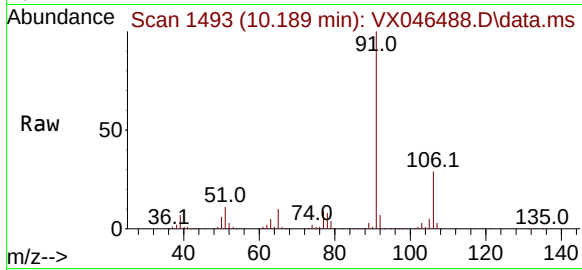






#67  
Ethyl Benzene  
Concen: 54.870 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

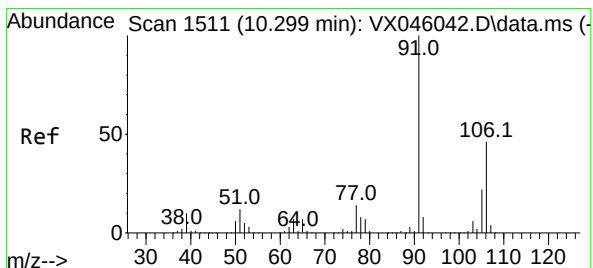
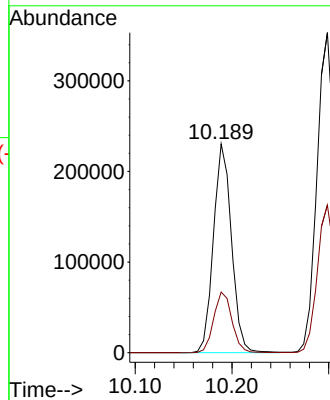
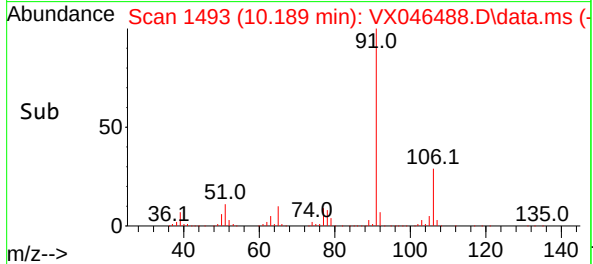
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 91 Resp: 298815  
Ion Ratio Lower Upper  
91 100  
106 29.0 23.4 35.2

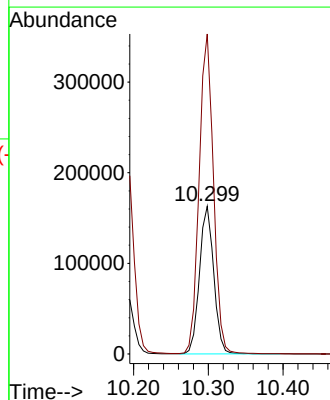
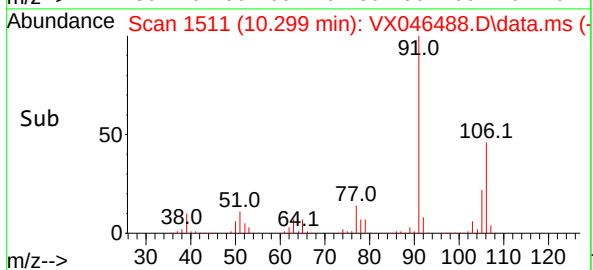
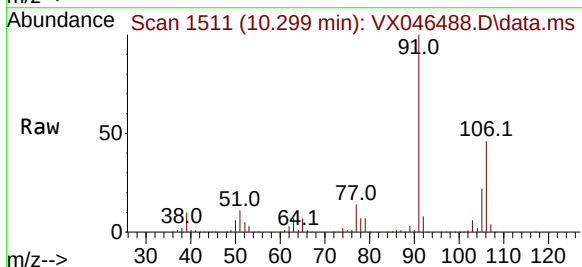
Manual Integrations  
**APPROVED**

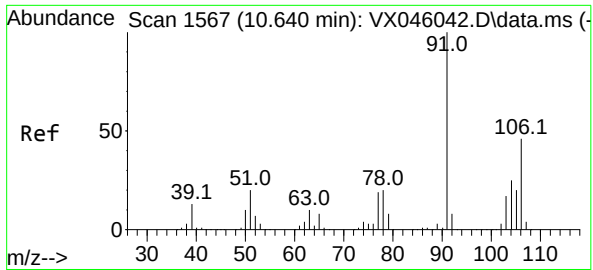
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#68  
m/p-Xylenes  
Concen: 108.288 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion:106 Resp: 215687  
Ion Ratio Lower Upper  
106 100  
91 218.1 171.2 256.8





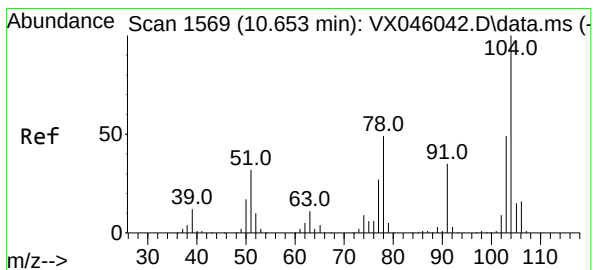
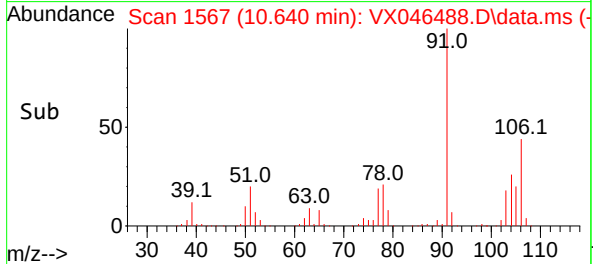
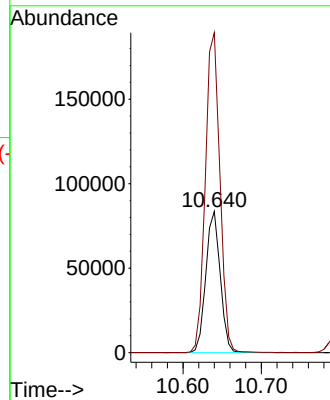
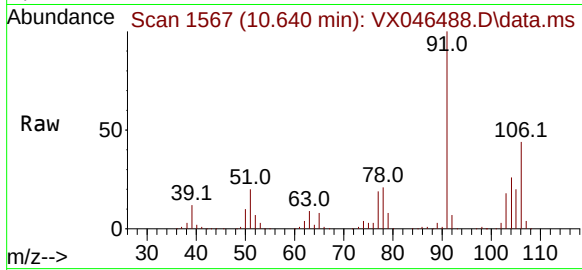
#69  
o-Xylene  
Concen: 54.982 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion:106 Resp: 106763  
Ion Ratio Lower Upper  
106 100  
91 229.8 112.7 338.1

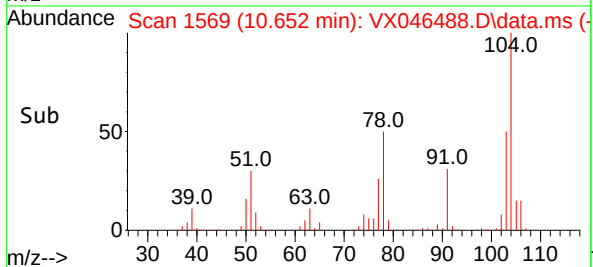
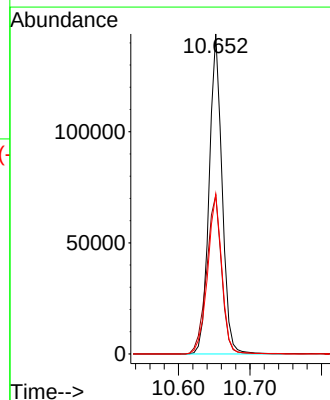
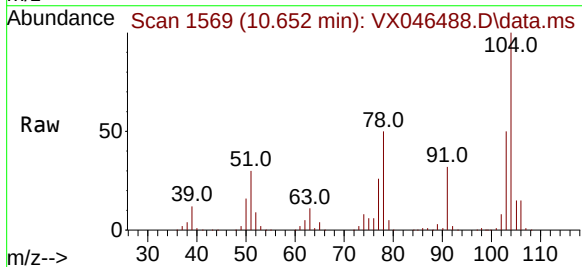
Manual Integrations  
**APPROVED**

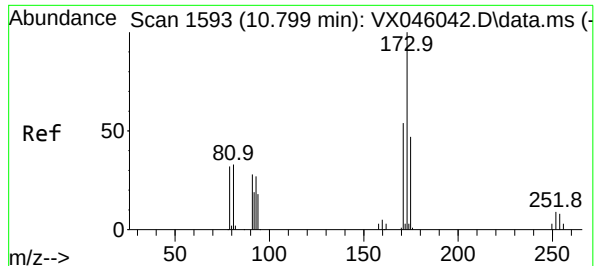
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#70  
Styrene  
Concen: 56.926 ug/l  
RT: 10.652 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion:104 Resp: 181074  
Ion Ratio Lower Upper  
104 100  
78 57.5 45.7 68.5  
103 54.9 43.7 65.5





#71

Bromoform

Concen: 56.651 ug/l

RT: 10.798 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 44870

Ion Ratio Lower Upper

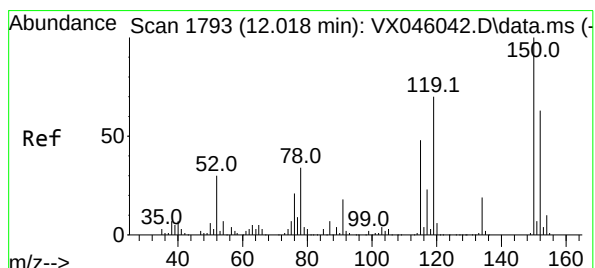
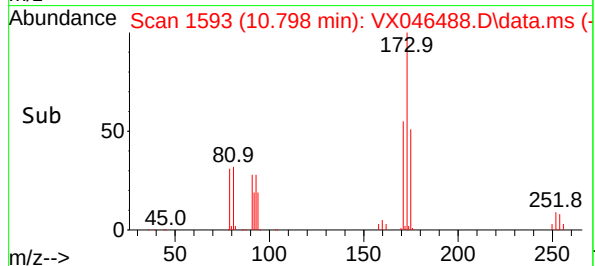
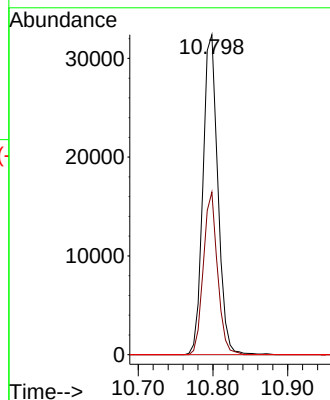
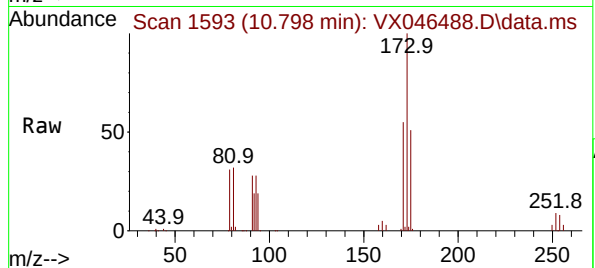
173 100

175 48.2 23.4 70.0

254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

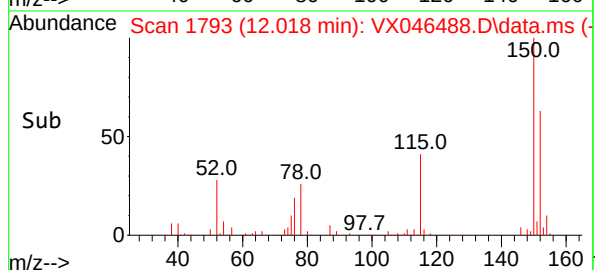
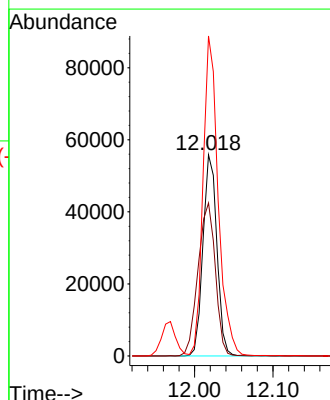
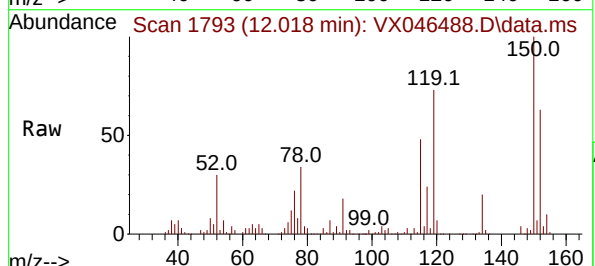
Tgt Ion:152 Resp: 69016

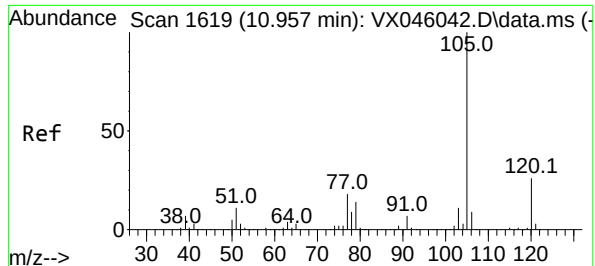
Ion Ratio Lower Upper

152 100

115 94.5 46.9 140.7

150 172.5 0.0 351.0





#73

Isopropylbenzene

Concen: 53.686 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 288460

Ion Ratio Lower Upper

105 100

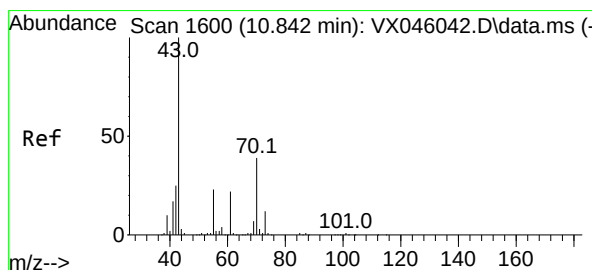
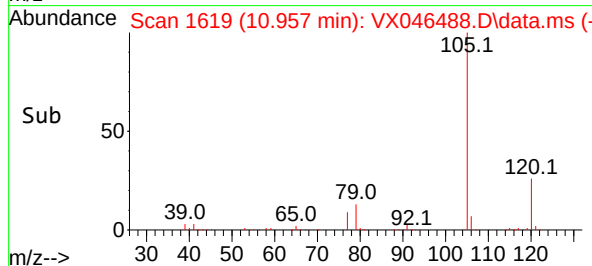
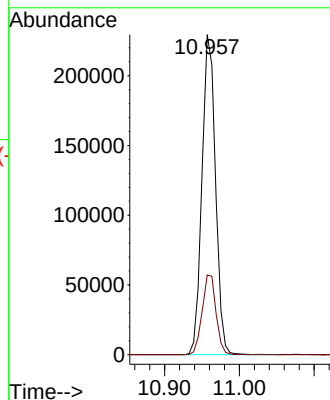
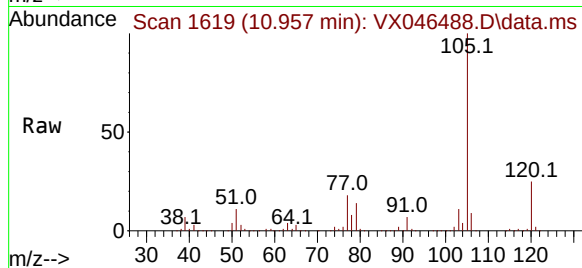
120 25.5 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025

Supervised By :Semsettin Yesilyurt 06/05/2025



#74

N-ethyl acetate

Concen: 55.656 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Tgt Ion: 43 Resp: 147771

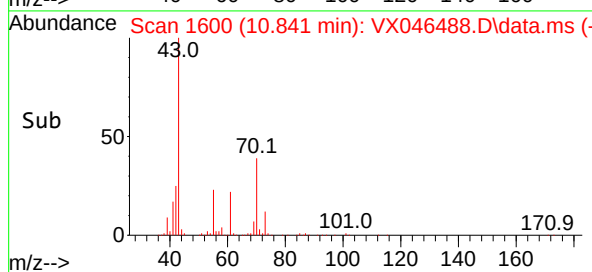
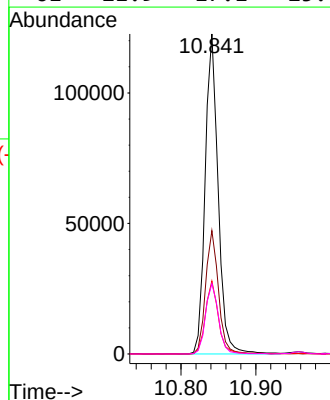
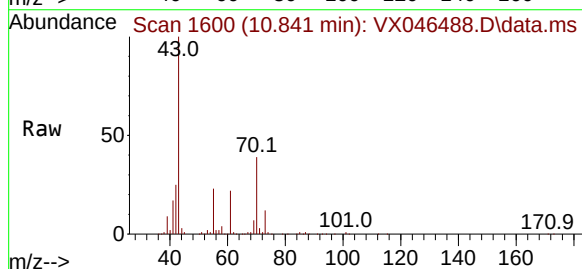
Ion Ratio Lower Upper

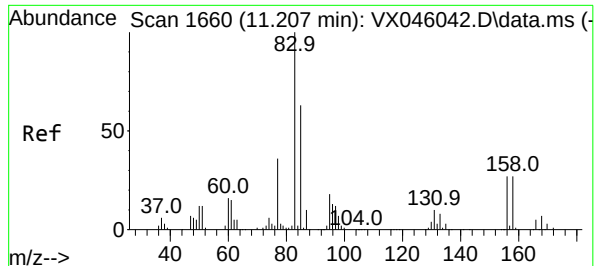
43 100

70 38.3 30.9 46.3

55 22.8 18.7 28.1

61 21.9 17.1 25.7





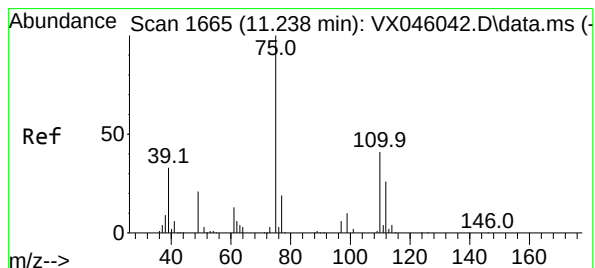
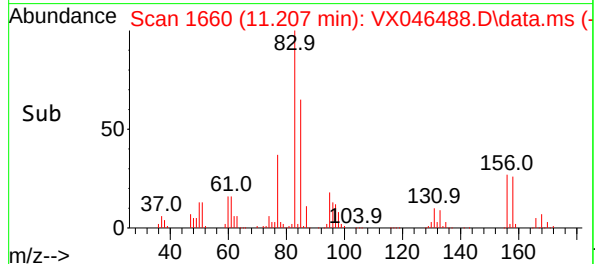
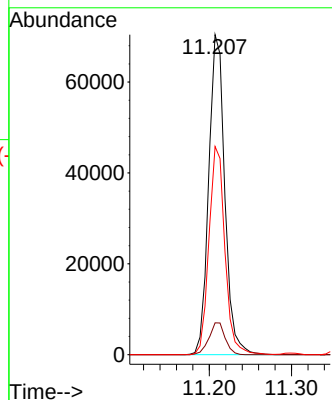
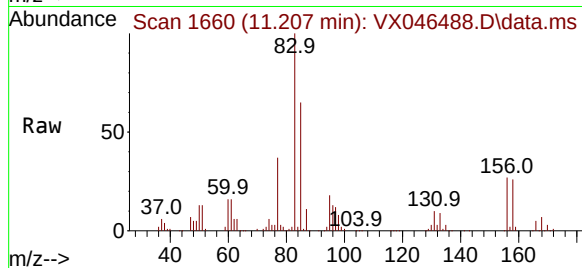
#75  
1,1,2,2-Tetrachloroethane  
Concen: 50.752 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 83 Resp: 9556  
Ion Ratio Lower Upper  
83 100  
131 10.1 5.0 14.9  
85 64.5 31.9 95.7

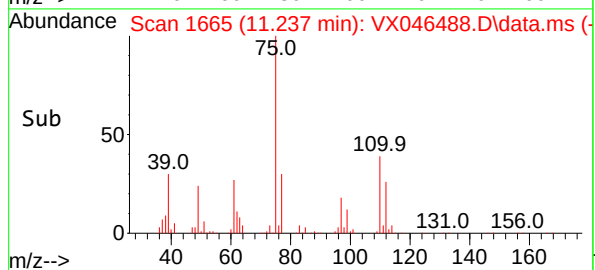
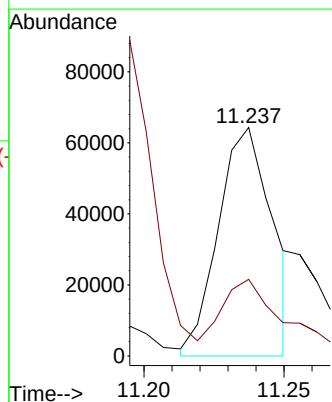
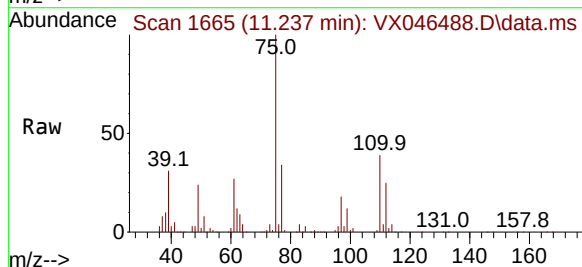
Manual Integrations  
APPROVED

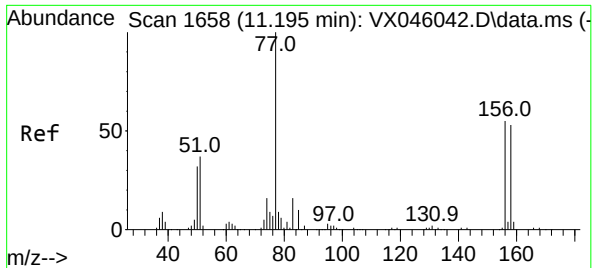
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#76  
1,2,3-Trichloropropane  
Concen: 51.854 ug/l m  
RT: 11.237 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

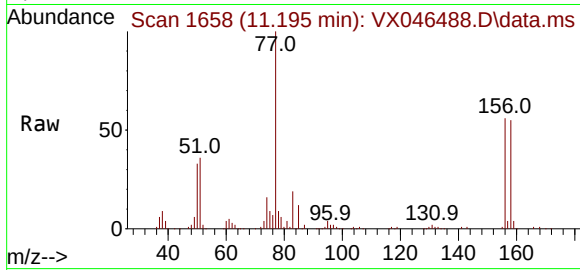
Tgt Ion: 75 Resp: 86142  
Ion Ratio Lower Upper  
75 100  
77 40.0 20.5 61.5





#77  
Bromobenzene  
Concen: 52.773 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

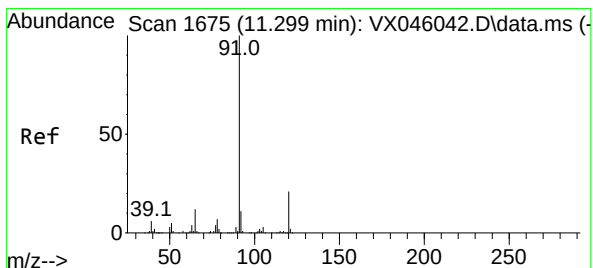
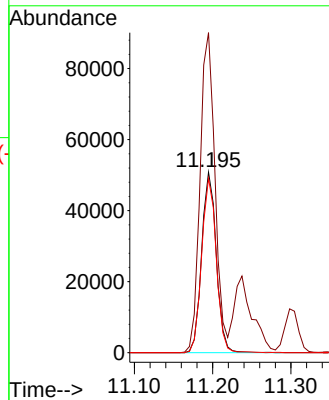
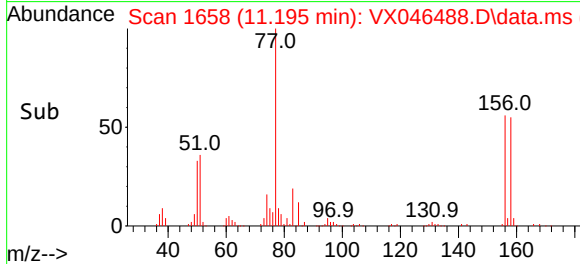
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:156 Resp: 6583  
Ion Ratio Lower Upper  
156 100  
77 181.5 92.8 278.3  
158 96.5 48.8 146.3

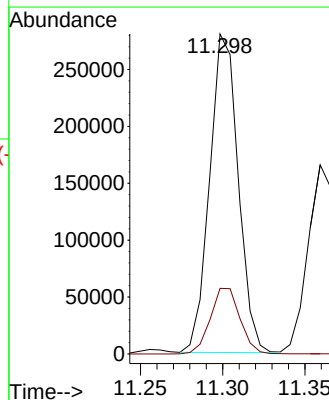
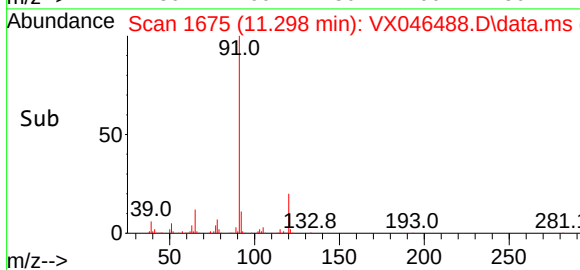
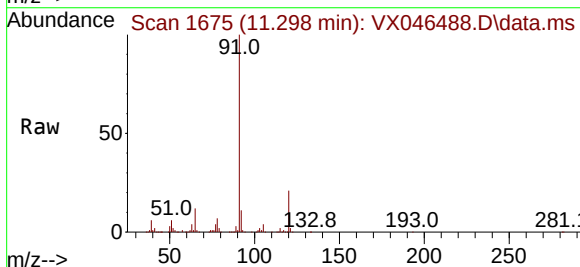
Manual Integrations  
APPROVED

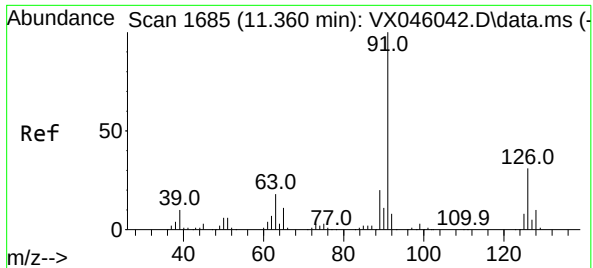
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#78  
n-propylbenzene  
Concen: 54.223 ug/l  
RT: 11.298 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

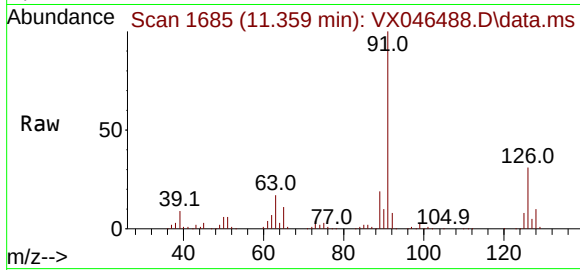
Tgt Ion: 91 Resp: 338759  
Ion Ratio Lower Upper  
91 100  
120 21.5 10.8 32.4





#79  
2-Chlorotoluene  
Concen: 51.549 ug/l  
RT: 11.359 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

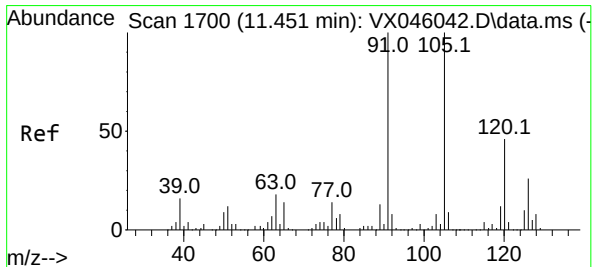
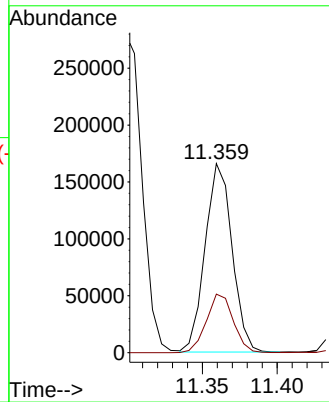
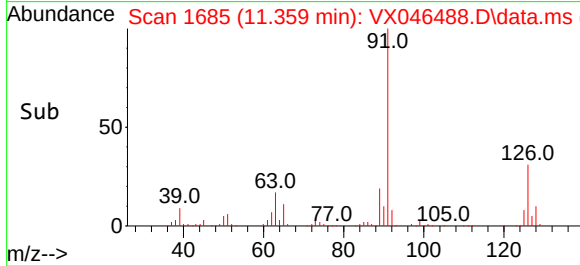
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 91 Resp: 207728  
Ion Ratio Lower Upper  
91 100  
126 31.1 15.6 46.7

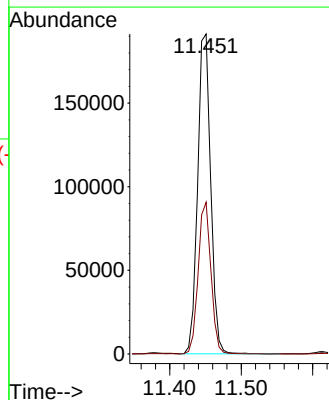
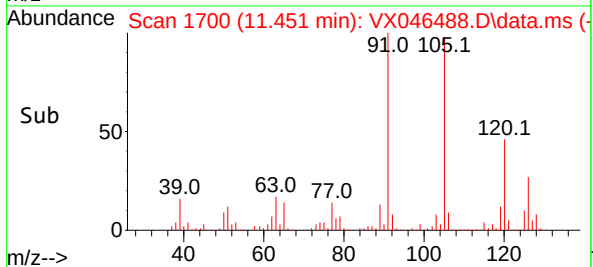
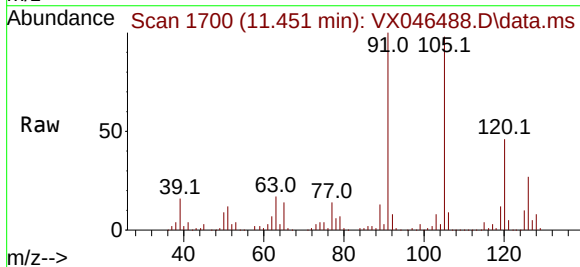
Manual Integrations  
APPROVED

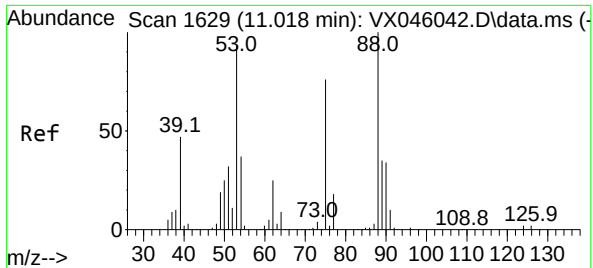
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#80  
1,3,5-Trimethylbenzene  
Concen: 53.865 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

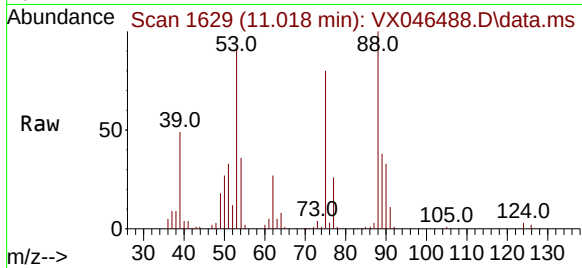
Tgt Ion:105 Resp: 241792  
Ion Ratio Lower Upper  
105 100  
120 46.4 23.1 69.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.693 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

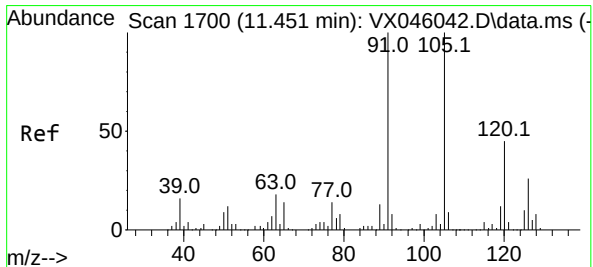
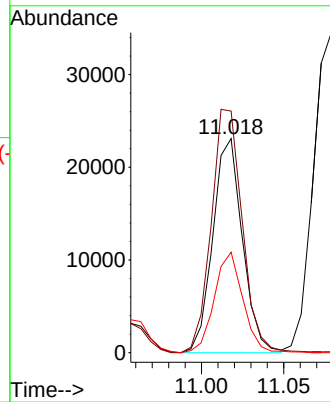
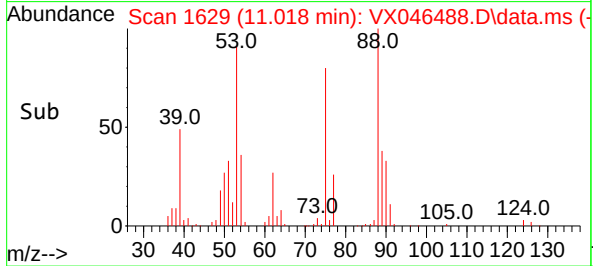
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 75 Resp: 28928  
Ion Ratio Lower Upper  
75 100  
53 119.3 100.5 150.7  
89 45.3 37.0 55.6

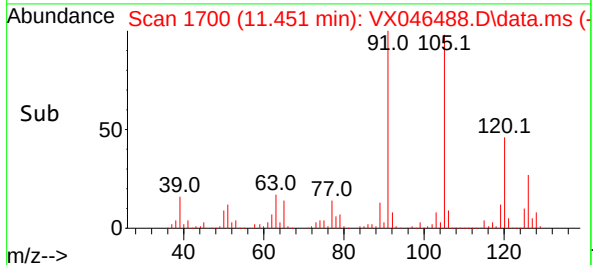
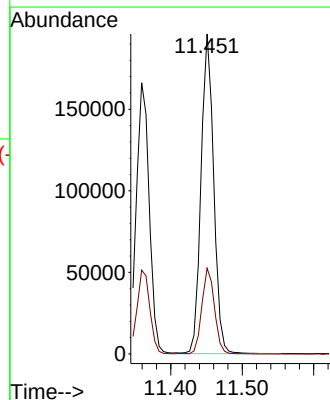
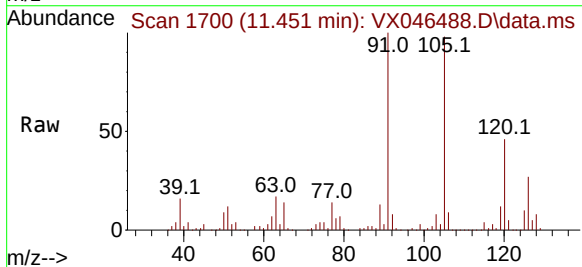
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

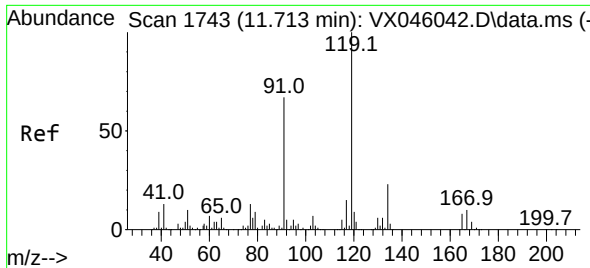


#82  
4-Chlorotoluene  
Concen: 53.864 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion: 91 Resp: 240706  
Ion Ratio Lower Upper  
91 100  
126 26.8 13.3 39.8

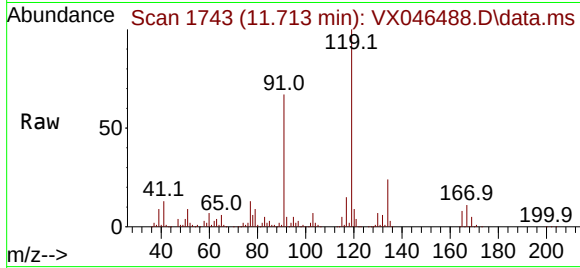






#83  
tert-Butylbenzene  
Concen: 53.206 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

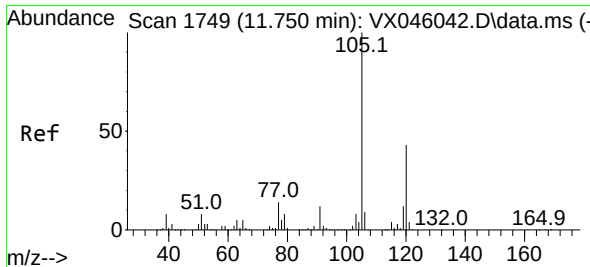
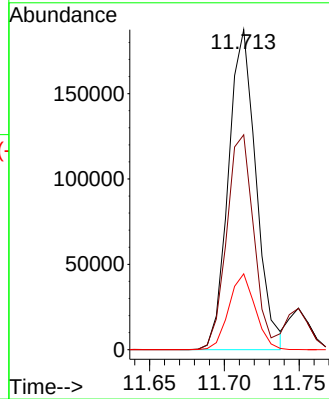
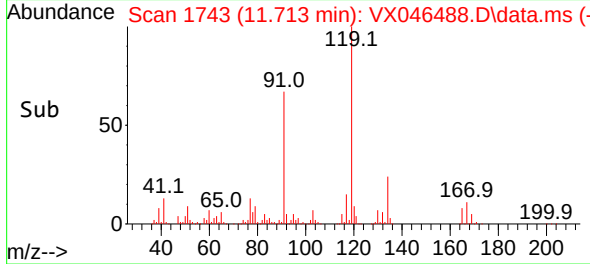
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:119 Resp: 240573  
Ion Ratio Lower Upper  
119 100  
91 65.6 32.9 98.7  
134 22.7 11.4 34.1

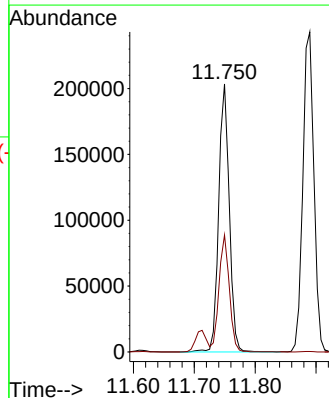
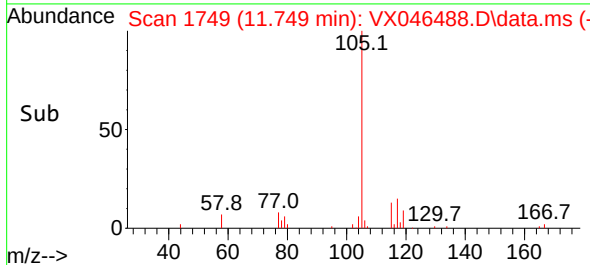
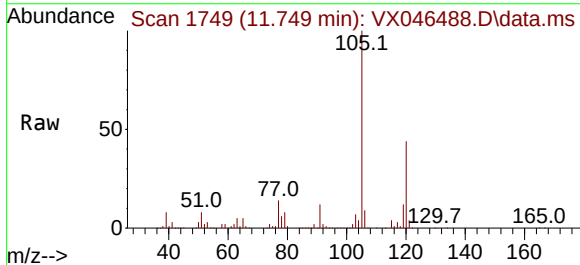
Manual Integrations  
**APPROVED**

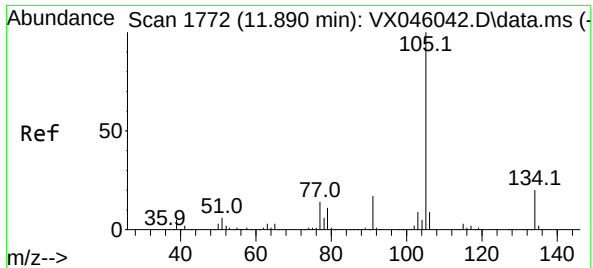
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 53.863 ug/l  
RT: 11.749 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

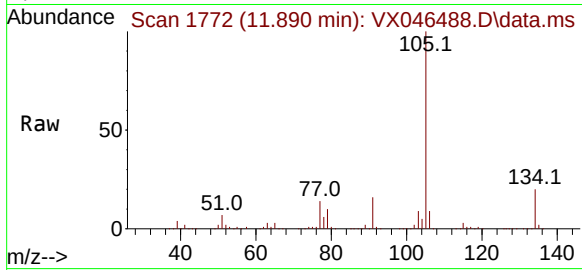
Tgt Ion:105 Resp: 244850  
Ion Ratio Lower Upper  
105 100  
120 42.9 21.2 63.6





#85  
 sec-Butylbenzene  
 Concen: 54.891 ug/l  
 RT: 11.890 min Scan# 1772  
 Delta R.T. -0.000 min  
 Lab File: VX046488.D  
 Acq: 04 Jun 2025 10:12

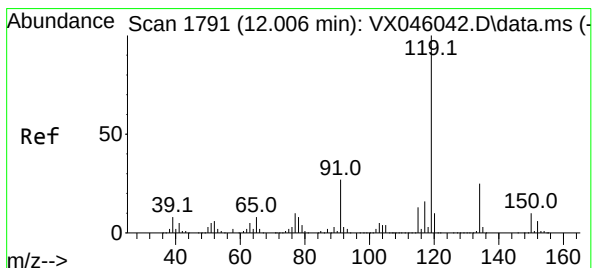
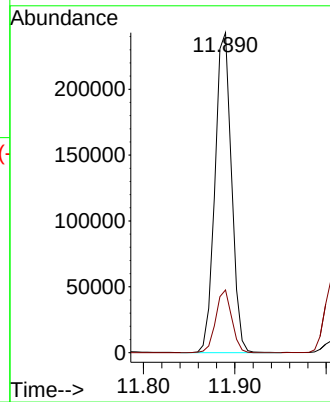
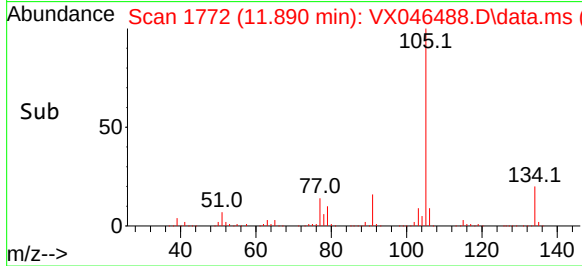
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050



Tgt Ion:105 Resp: 304738  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 9.7 29.1

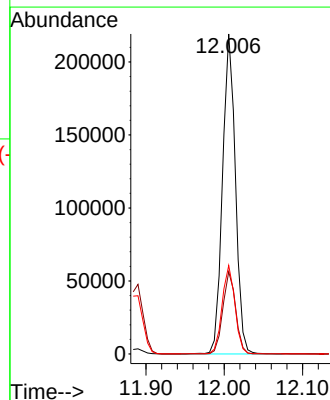
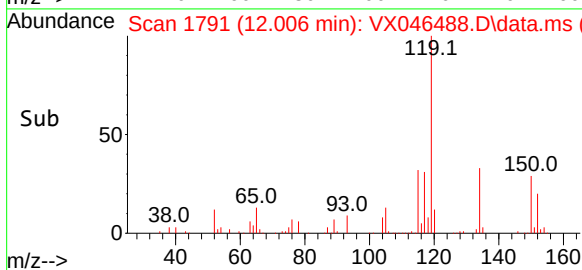
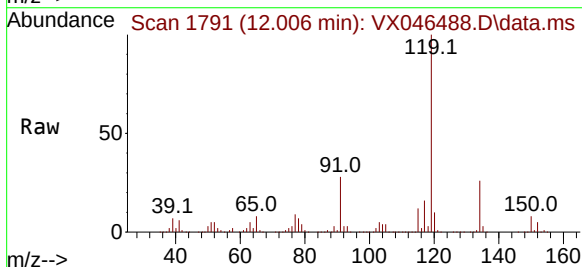
Manual Integrations  
 APPROVED

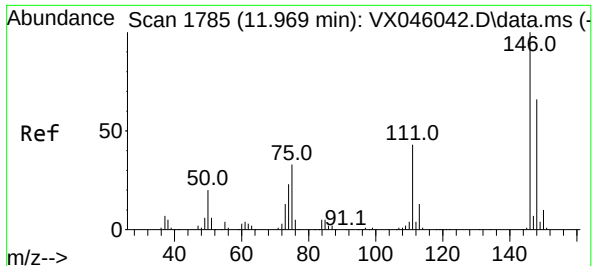
Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#86  
 p-Isopropyltoluene  
 Concen: 54.822 ug/l  
 RT: 12.006 min Scan# 1791  
 Delta R.T. -0.000 min  
 Lab File: VX046488.D  
 Acq: 04 Jun 2025 10:12

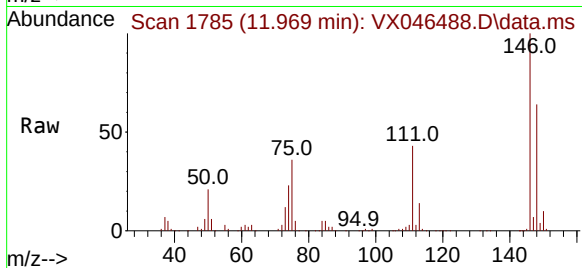
Tgt Ion:119 Resp: 251225  
 Ion Ratio Lower Upper  
 119 100  
 134 25.6 12.5 37.5  
 91 27.6 13.8 41.4





#87  
1,3-Dichlorobenzene  
Concen: 52.532 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

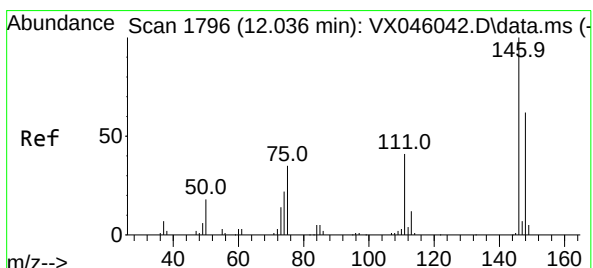
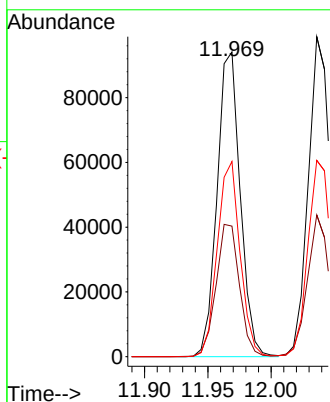
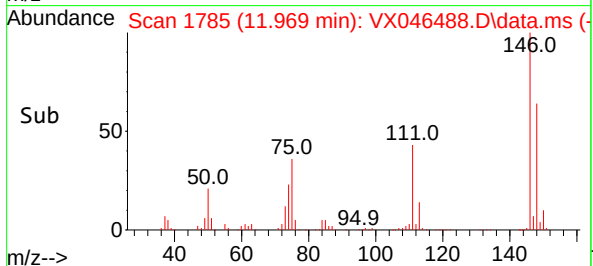
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:146 Resp: 11959  
Ion Ratio Lower Upper  
146 100  
111 44.1 22.1 66.3  
148 63.1 32.1 96.5

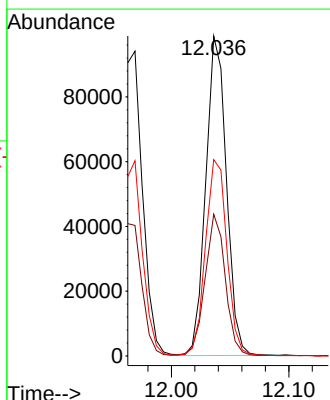
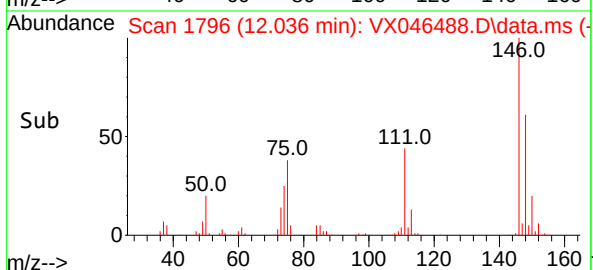
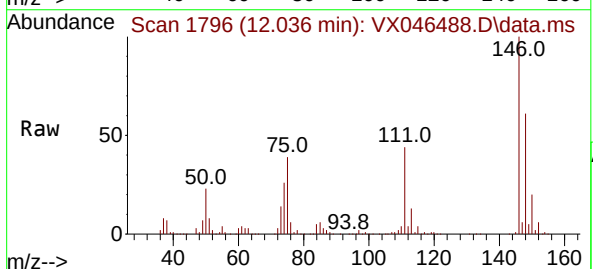
Manual Integrations  
**APPROVED**

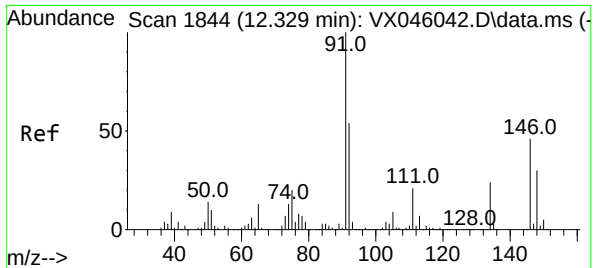
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#88  
1,4-Dichlorobenzene  
Concen: 51.703 ug/l  
RT: 12.036 min Scan# 1796  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion:146 Resp: 120210  
Ion Ratio Lower Upper  
146 100  
111 43.8 21.3 63.9  
148 64.0 31.9 95.5





#89

n-Butylbenzene

Concen: 56.775 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046488.D

Acq: 04 Jun 2025 10:12

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 228210

Ion Ratio Lower Upper

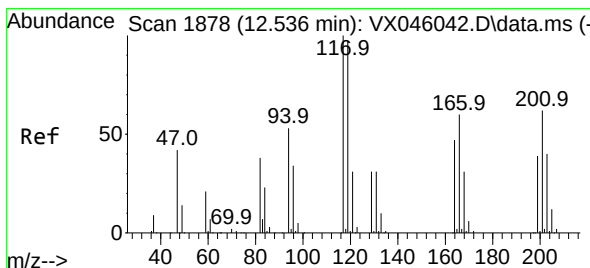
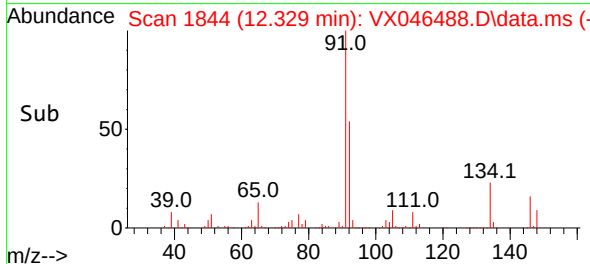
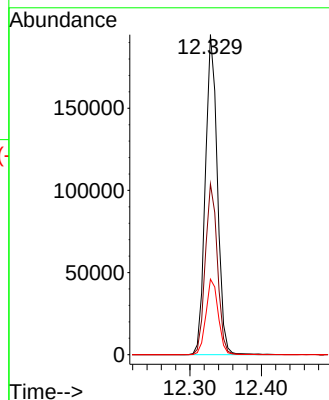
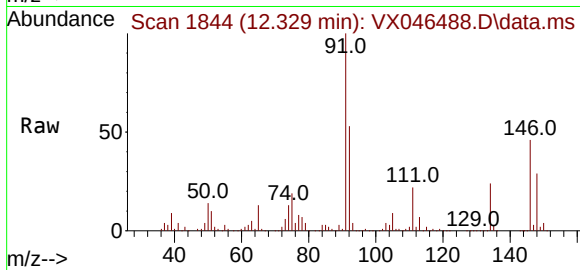
91 100

92 53.9 26.9 80.7

134 24.1 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#90

Hexachloroethane

Concen: 54.668 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046488.D

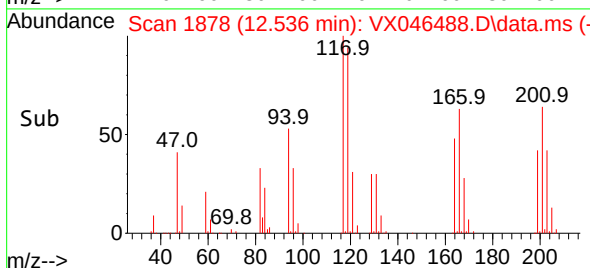
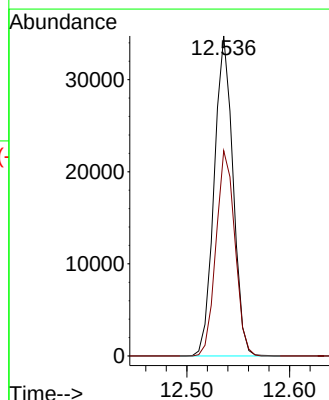
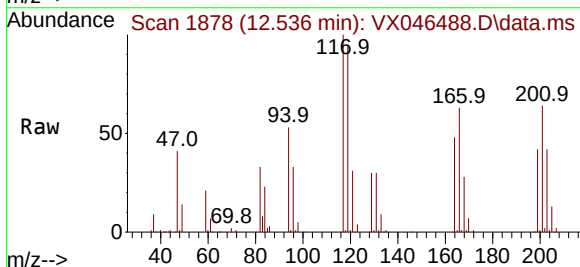
Acq: 04 Jun 2025 10:12

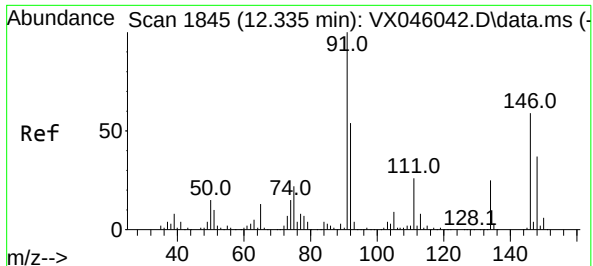
Tgt Ion:117 Resp: 44135

Ion Ratio Lower Upper

117 100

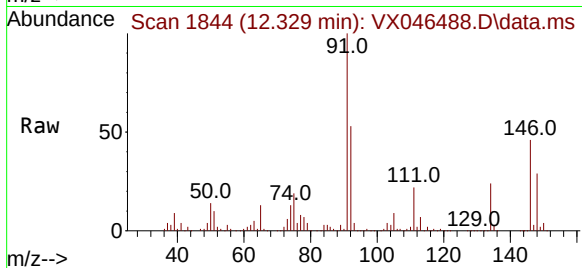
201 64.3 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 52.558 ug/l  
RT: 12.329 min Scan# 1845  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

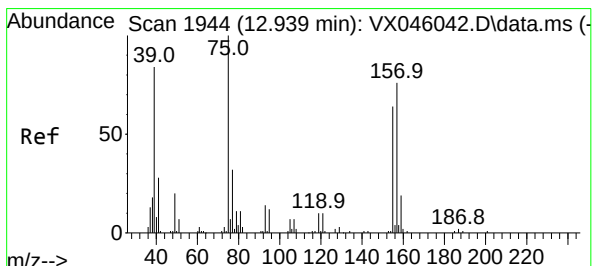
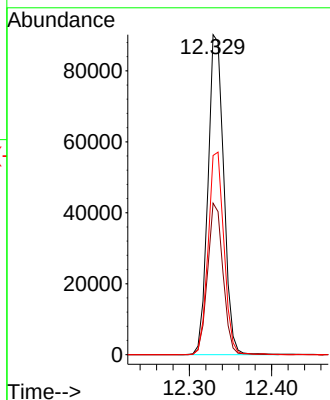
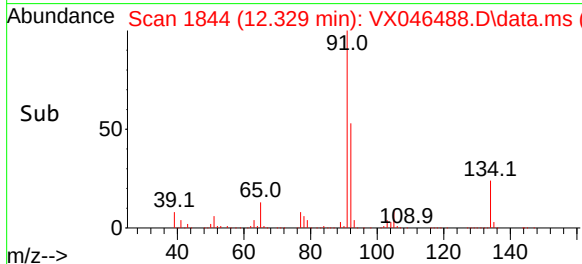
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:146 Resp: 12007  
Ion Ratio Lower Upper  
146 100  
111 46.4 22.4 67.3  
148 63.2 31.6 94.8

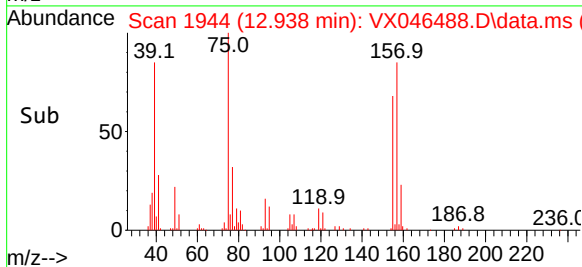
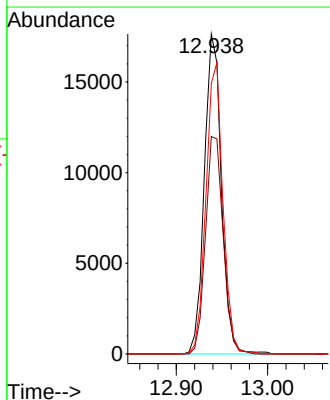
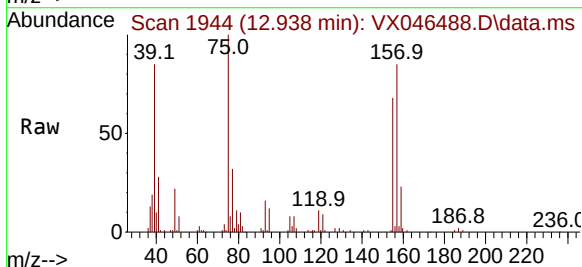
Manual Integrations  
APPROVED

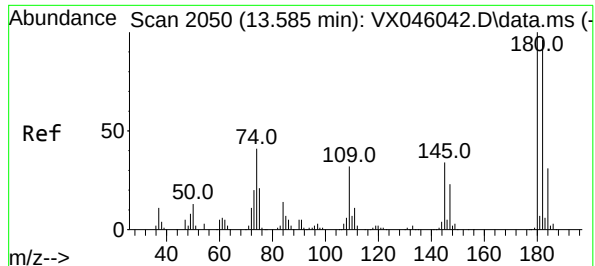
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 54.746 ug/l  
RT: 12.938 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

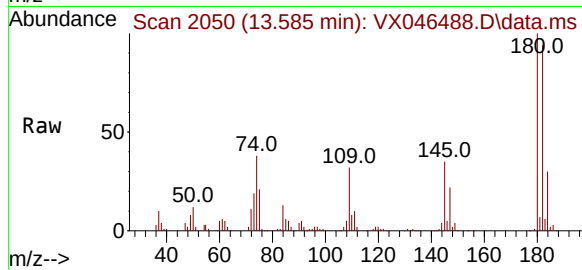
Tgt Ion: 75 Resp: 22836  
Ion Ratio Lower Upper  
75 100  
155 70.2 34.9 104.8  
157 90.3 43.8 131.4





#93  
1,2,4-Trichlorobenzene  
Concen: 54.131 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

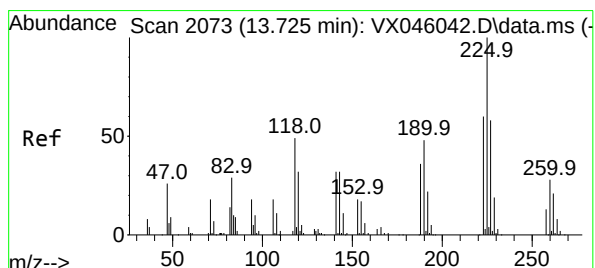
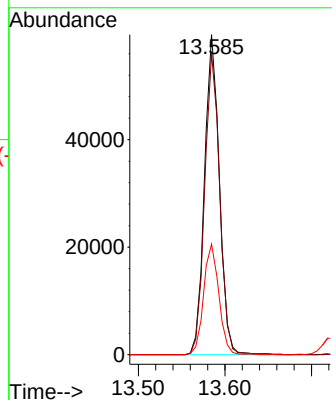
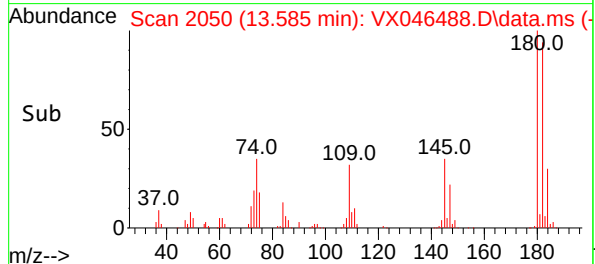
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



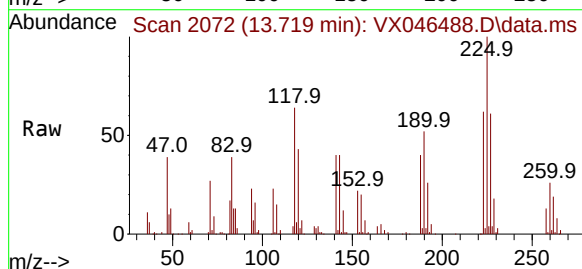
Tgt Ion:180 Resp: 71028  
Ion Ratio Lower Upper  
180 100  
182 94.8 47.9 143.8  
145 35.3 17.1 51.2

Manual Integrations  
APPROVED

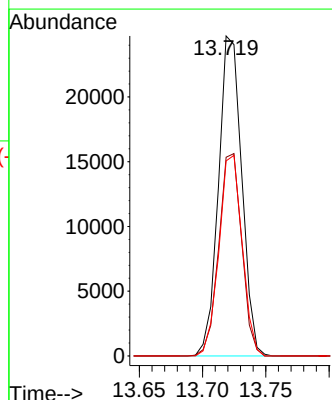
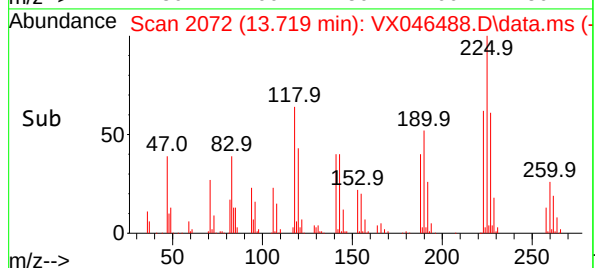
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

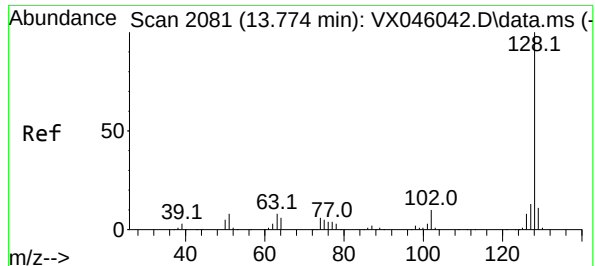


#94  
Hexachlorobutadiene  
Concen: 55.070 ug/l  
RT: 13.719 min Scan# 2072  
Delta R.T. -0.007 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12



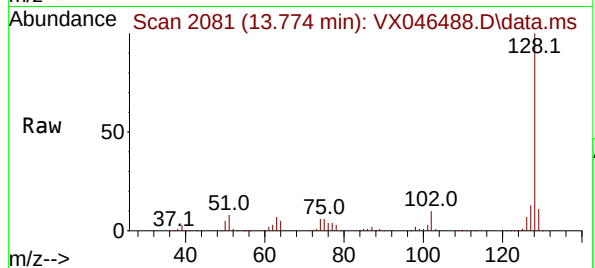
Tgt Ion:225 Resp: 31559  
Ion Ratio Lower Upper  
225 100  
223 62.5 30.8 92.4  
227 62.4 30.9 92.7





#95  
Naphthalene  
Concen: 53.657 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

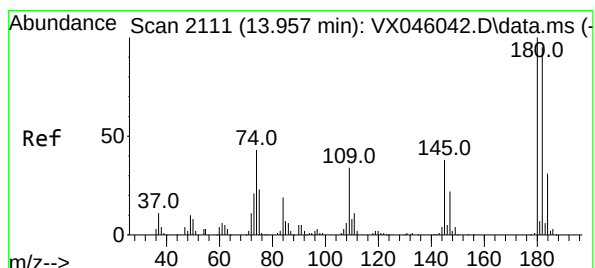
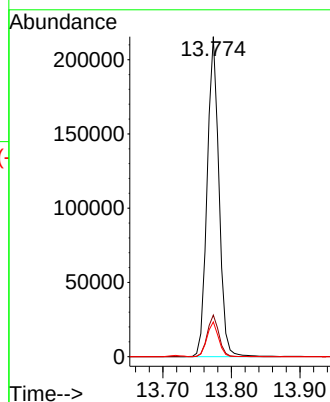
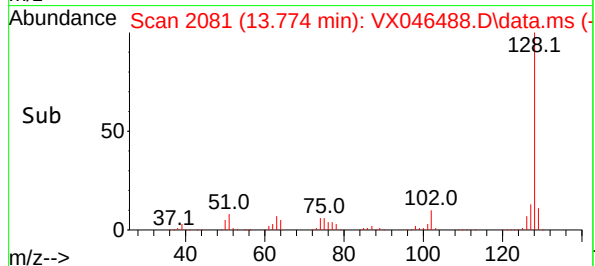
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050



Tgt Ion:128 Resp: 258228  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.4 15.6  
129 10.7 8.6 13.0

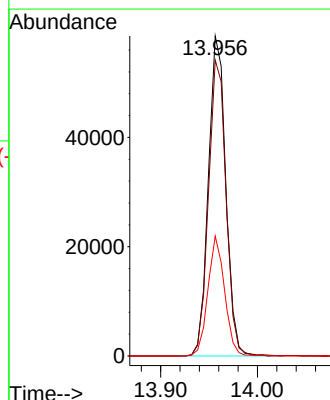
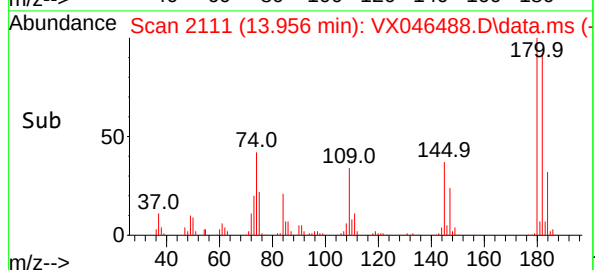
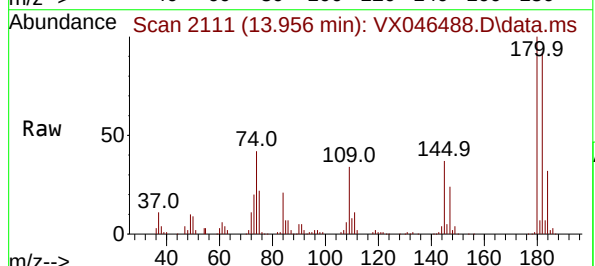
Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 54.114 ug/l  
RT: 13.956 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX046488.D  
Acq: 04 Jun 2025 10:12

Tgt Ion:180 Resp: 73266  
Ion Ratio Lower Upper  
180 100  
182 93.2 47.8 143.3  
145 36.0 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046488.D  
 Acq On : 04 Jun 2025 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 01:34:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% 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     | 0.765 | 0.751 | 1.8    | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.742 | 0.718 | 3.2    | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.691 | 0.665 | 3.8#   | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.320 | 0.277 | 13.4   | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.369 | 0.377 | -2.2   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.021 | 1.059 | -3.7   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.347 | 0.357 | -2.9   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.670 | -6.0   | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 0.747 | 0.721 | 3.5    | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.131 | 0.148 | -13.0  | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.593 | 0.593 | 0.0    | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.149 | 0.149 | 0.0    | 98    | 0.00     |
| 14 T  | Allyl chloride              | 1.133 | 1.239 | -9.4   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.374 | 0.403 | -7.8   | 104   | 0.00     |
| 16 T  | Acetone                     | 0.374 | 0.442 | -18.2  | 122   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.406 | 1.295 | 7.9    | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.867 | 1.200 | -38.4# | 142   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.079 | 2.295 | -10.4  | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.716 | 0.693 | 3.2    | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.596 | 0.599 | -0.5   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.189 | 2.407 | -10.0  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.925 | 2.019 | -4.9   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.219 | 1.302 | -6.8   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.543 | 0.606 | -11.6  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.954 | 1.059 | -11.0  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.718 | 0.747 | -4.0   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.587 | 0.546 | 7.0    | 95    | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.340 | 0.373 | -9.7   | 107   | 0.00     |
| 30 C  | Chloroform                  | 1.271 | 1.335 | -5.0#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 1.111 | 1.106 | 0.5    | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.101 | 1.161 | -5.4   | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.932 | 0.862 | 7.5    | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.360 | 0.356 | 1.1    | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.484 | 0.506 | -4.5   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.598 | 0.637 | -6.5   | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.544 | 0.588 | -8.1   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.623 | 0.650 | -4.3   | 100   | 0.00     |
| 40 TM | Benzene                     | 1.417 | 1.496 | -5.6   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.313 | 0.370 | -18.2  | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.612 | 0.651 | -6.4   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.912 | 1.045 | -14.6  | 107   | 0.00     |
| 44 TM | Trichloroethene             | 0.341 | 0.364 | -6.7   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.352 | 0.386 | -9.7#  | 102   | 0.00     |
| 46 T  | Dibromomethane              | 0.278 | 0.292 | -5.0   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.547 | 0.606 | -10.8  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.466 | 0.538 | -15.5  | 105   | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046488.D  
 Acq On : 04 Jun 2025 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 01:34:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 1.246 | 1.135 | 8.9   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.605 | 0.678 | -12.1 | 105   | 0.00     |
| 52 CM | Toluene                     | 0.869 | 0.902 | -3.8# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.487 | 0.557 | -14.4 | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.538 | 0.614 | -14.1 | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.343 | 0.370 | -7.9  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.546 | 0.640 | -17.2 | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.615 | 0.650 | -5.7  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.278 | 0.306 | -10.1 | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.448 | 0.513 | -14.5 | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.376 | 0.424 | -12.8 | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.356 | 0.380 | -6.7  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.478 | 0.469 | 1.9   | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.354 | 0.378 | -6.8  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.094 | 1.168 | -6.8  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.411 | -9.9  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.929 | 2.117 | -9.7# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.706 | 0.764 | -8.2  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.688 | 0.756 | -9.9  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.127 | 1.283 | -13.8 | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.281 | 0.318 | -13.2 | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.893 | 4.180 | -7.4  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 1.924 | 2.141 | -11.3 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.364 | 1.385 | -1.5  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.204 | 1.248 | -3.7  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.904 | 0.954 | -5.5  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.526 | 4.908 | -8.4  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.919 | 3.010 | -3.1  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.252 | 3.503 | -7.7  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.370 | 0.419 | -13.2 | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.238 | 3.488 | -7.7  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.276 | 3.486 | -6.4  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.293 | 3.548 | -7.7  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.022 | 4.415 | -9.8  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.320 | 3.640 | -9.6  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.649 | 1.733 | -5.1  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.684 | 1.742 | -3.4  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.912 | 3.307 | -13.6 | 107   | 0.00     |
| 90 T  | Hexachloroethane            | 0.585 | 0.639 | -9.2  | 104   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.655 | 1.740 | -5.1  | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.331 | -9.6  | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.951 | 1.029 | -8.2  | 107   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.415 | 0.457 | -10.1 | 109   | 0.00     |
| 95 T  | Naphthalene                 | 3.487 | 3.742 | -7.3  | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046488.D  
Acq On : 04 Jun 2025 10:12  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Jun 05 01:34:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.981 | 1.062 | -8.3 | 106   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046488.D  
 Acq On : 04 Jun 2025 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 01:34:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% 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  | 49.043  | 1.9    | 87    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.377  | 3.2    | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.151  | 3.7#   | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.237  | 13.5   | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.093  | -2.2   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.858  | -3.7   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.308  | -2.6   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.034  | -6.1   | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.225  | 3.5    | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 281.901 | -12.8  | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.990  | 0.0#   | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 249.577 | 0.2    | 98    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.671  | -9.3   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 269.611 | -7.8   | 104   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 295.318 | -18.1  | 122   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.054  | 7.9    | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 69.175  | -38.3# | 142   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.198  | -10.4  | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.357  | 3.3    | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.199  | -0.4   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.976  | -10.0  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 262.170 | -4.9   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.406  | -6.8   | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 279.346 | -11.7  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.512  | -11.0  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.056  | -4.1   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.549  | 6.9    | 95    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 274.234 | -9.7   | 107   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.542  | -5.1#  | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.761  | 0.5    | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.691  | -5.4   | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.217  | 7.6    | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.466  | 1.1    | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.307  | -4.6   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.296  | -6.6   | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.045  | -8.1   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.202  | -4.4   | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.789  | -5.6   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 59.164  | -18.3  | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.188  | -6.4   | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 57.328  | -14.7  | 107   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.347  | -6.7   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.797  | -9.6#  | 102   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 52.494  | -5.0   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.341  | -10.7  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 57.719  | -15.4  | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046488.D  
 Acq On : 04 Jun 2025 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 01:34:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1071.717 | -7.2  | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.524   | 9.0   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 280.031  | -12.0 | 105   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.931   | -3.9# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.213   | -14.4 | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 57.106   | -14.2 | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.064   | -8.1  | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 58.611   | -17.2 | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.850   | -5.7  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 274.981  | -10.0 | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 286.265  | -14.5 | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.300   | -12.6 | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.347   | -6.7  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.083   | 1.8   | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.362   | -6.7  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.386   | -6.8  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.966   | -9.9  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.870   | -9.7# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.288  | -8.3  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.982   | -10.0 | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.926   | -13.9 | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.651   | -13.3 | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.686   | -7.4  | 103   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 55.656   | -11.3 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.752   | -1.5  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.854   | -3.7  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.773   | -5.5  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.223   | -8.4  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.549   | -3.1  | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.865   | -7.7  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.693   | -13.4 | 111   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.864   | -7.7  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.206   | -6.4  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.863   | -7.7  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.891   | -9.8  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.822   | -9.6  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.532   | -5.1  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.703   | -3.4  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.775   | -13.5 | 107   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 54.668   | -9.3  | 104   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 52.558   | -5.1  | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 54.746   | -9.5  | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 54.131   | -8.3  | 107   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 55.070   | -10.1 | 109   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 53.657   | -7.3  | 105   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046488.D  
Acq On : 04 Jun 2025 10:12  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Jun 05 01:34:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.114 | -8.2 | 106   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6



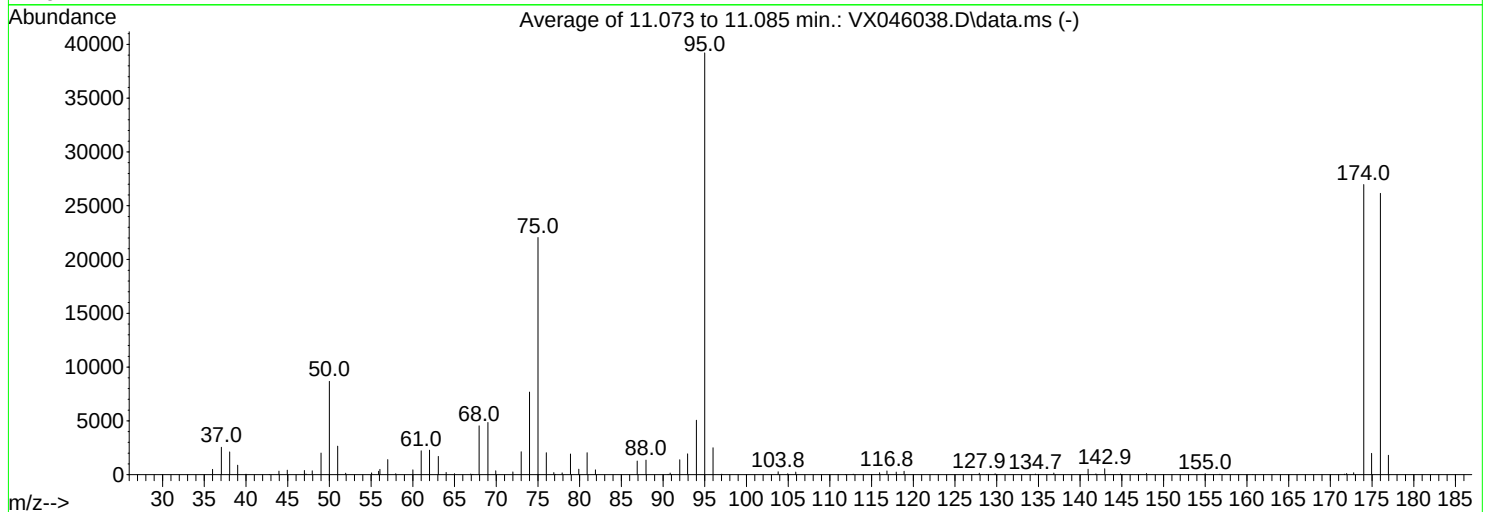
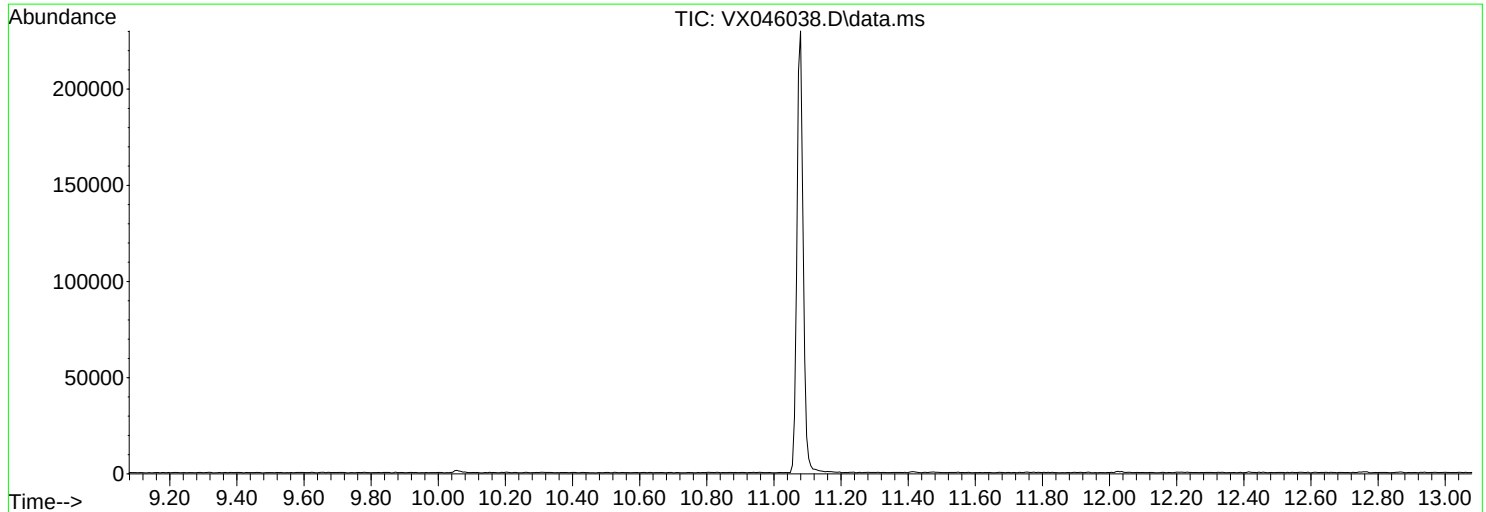
# QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050525\  
Data File : VX046038.D  
Acq On : 05 May 2025 09:37  
Operator : JC/MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Title : SW846 8260  
Last Update : Tue May 06 07:12:22 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

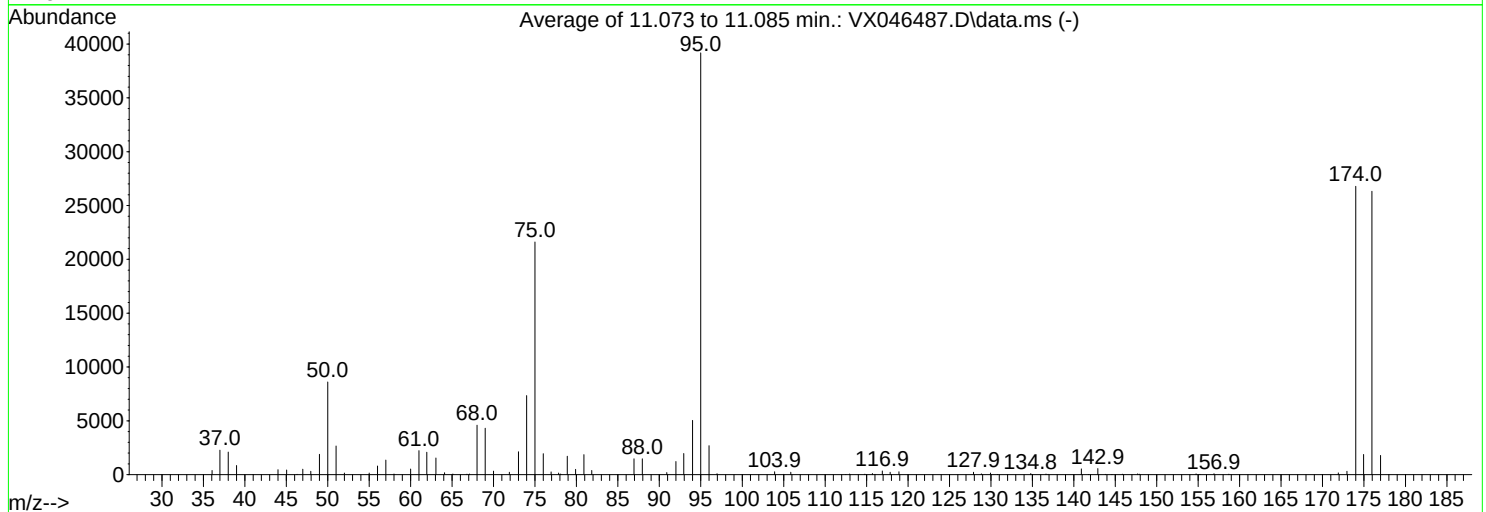
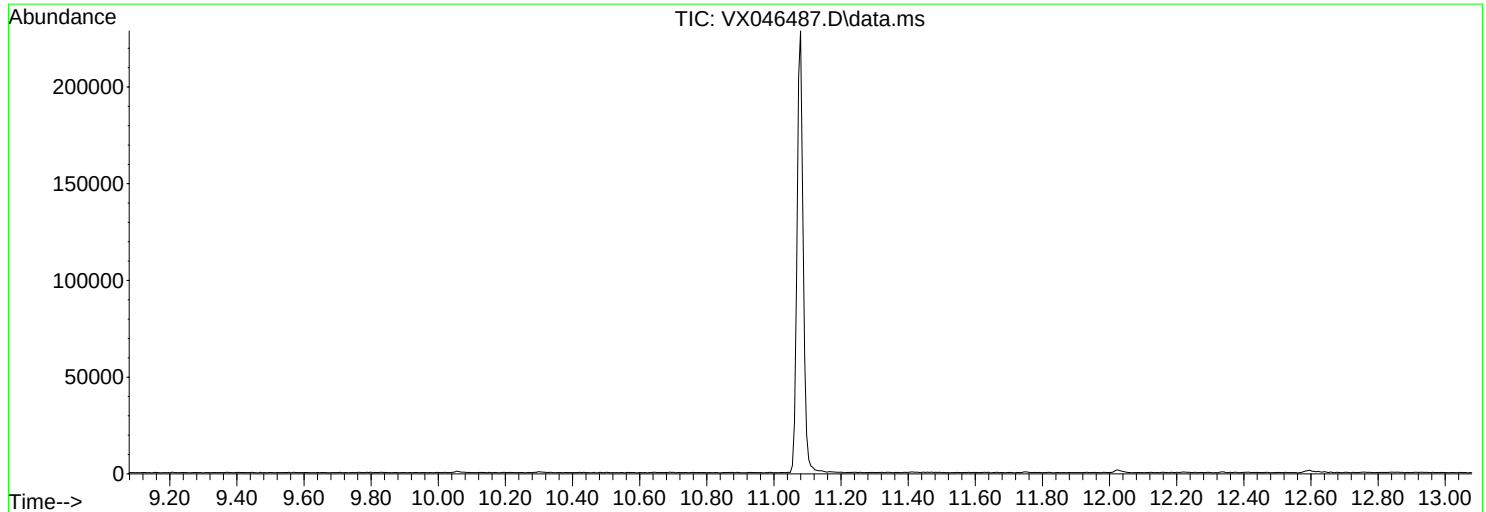
| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 15              | 40              | 22.1         | 8676       | PASS                |
| 75             | 95              | 30              | 60              | 56.2         | 22052      | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 39213      | PASS                |
| 96             | 95              | 5               | 9               | 6.4          | 2505       | PASS                |
| 173            | 174             | 0.00            | 2               | 0.7          | 185        | PASS                |
| 174            | 95              | 50              | 100             | 68.8         | 26963      | PASS                |
| 175            | 174             | 5               | 9               | 7.3          | 1980       | PASS                |
| 176            | 174             | 95              | 101             | 97.0         | 26147      | PASS                |
| 177            | 176             | 5               | 9               | 6.9          | 1802       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046487.D  
Acq On : 04 Jun 2025 09:43  
Operator : JC/MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Title : SW846 8260  
Last Update : Tue May 06 07:12:22 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 15              | 40              | 22.0         | 8608       | PASS                |
| 75             | 95              | 30              | 60              | 55.2         | 21617      | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 39181      | PASS                |
| 96             | 95              | 5               | 9               | 6.9          | 2684       | PASS                |
| 173            | 174             | 0.00            | 2               | 1.2          | 316        | PASS                |
| 174            | 95              | 50              | 100             | 68.4         | 26784      | PASS                |
| 175            | 174             | 5               | 9               | 7.0          | 1878       | PASS                |
| 176            | 174             | 95              | 101             | 98.3         | 26320      | PASS                |
| 177            | 176             | 5               | 9               | 6.8          | 1780       | PASS                |



## Report of Analysis

|                    |                                           |                 |       |
|--------------------|-------------------------------------------|-----------------|-------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: |       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  |       |
| Client Sample ID:  | VX0604WBL01                               | SDG No.:        | Q2201 |
| Lab Sample ID:     | VX0604WBL01                               | Matrix:         | Water |
| Analytical Method: | 8260D                                     | % Solid:        | 0     |
| Sample Wt/Vol:     | 5                                         | Units:          | mL    |
| Soil Aliquot Vol:  |                                           |                 | uL    |
| GC Column:         | DB-624UI                                  | ID :            | 0.18  |
| Prep Method :      |                                           | Level :         | LOW   |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX046490.D        | 1         |           | 06/04/25 11:04 | VX060425      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 0.26   | U         | 0.26                | 1.00       | ug/L    |
| 75-35-4                   | 1,1-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    |
| 156-59-2                  | cis-1,2-Dichloroethene | 0.19   | U         | 0.19                | 1.00       | ug/L    |
| 71-55-6                   | 1,1,1-Trichloroethane  | 0.20   | U         | 0.20                | 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    |
| 79-00-5                   | 1,1,2-Trichloroethane  | 0.21   | U         | 0.21                | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 0.23   | U         | 0.23                | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 53.4   |           | 70 (74) - 130 (125) | 107%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 50.4   |           | 70 (75) - 130 (124) | 101%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.4   |           | 70 (86) - 130 (113) | 101%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 53.1   |           | 70 (77) - 130 (121) | 106%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 69600  | 5.55      |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 140000 | 6.757     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 134000 | 10.049    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 60000  | 12.018    |                     |            |         |

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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046490.D  
 Acq On : 04 Jun 2025 11:04  
 Operator : JC/MD  
 Sample : VX0604WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBL01

Quant Time: Jun 05 01:39:03 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.550  | 168  | 69580    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.757  | 114  | 139946   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.049 | 117  | 133992   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152  | 59967    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.952  | 65    | 69212    | 53.355   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 106.720% |
| 35) Dibromofluoromethane    | 5.379  | 113   | 50780    | 50.389   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 100.780% |
| 50) Toluene-d8              | 8.647  | 98    | 175770   | 50.393   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 100.780% |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 71016    | 53.079   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 106.160% |

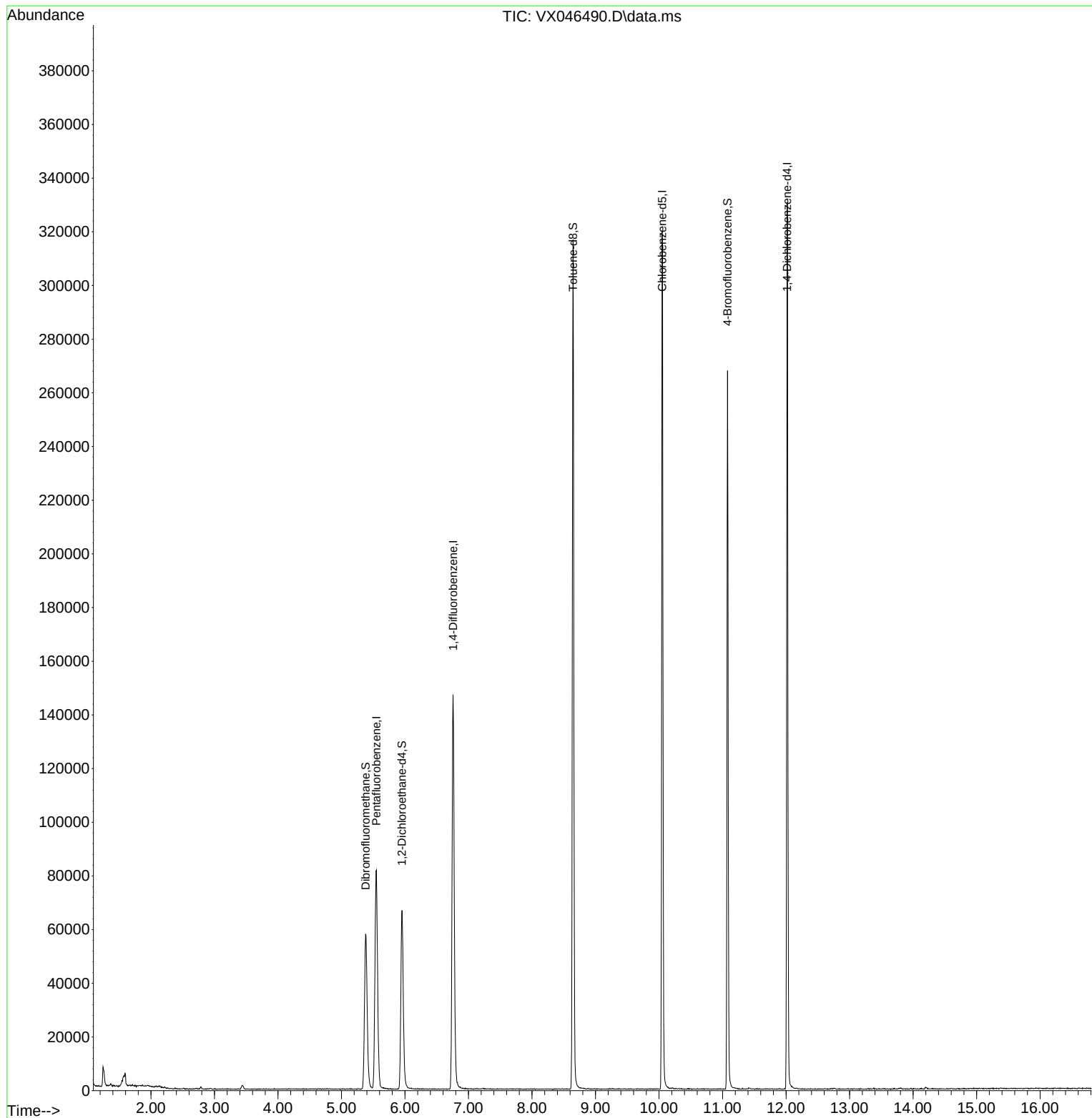
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

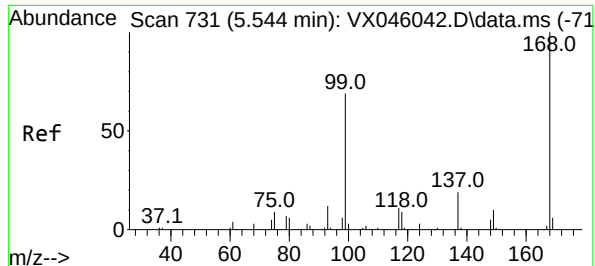
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046490.D  
Acq On : 04 Jun 2025 11:04  
Operator : JC/MD  
Sample : VX0604WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBL01

Quant Time: Jun 05 01:39:03 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

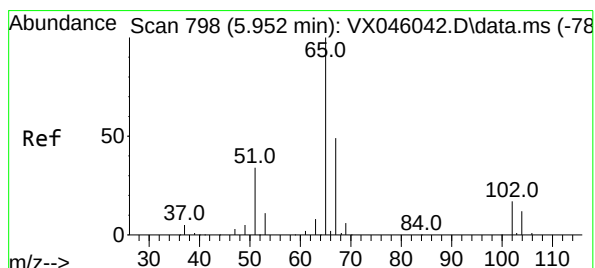
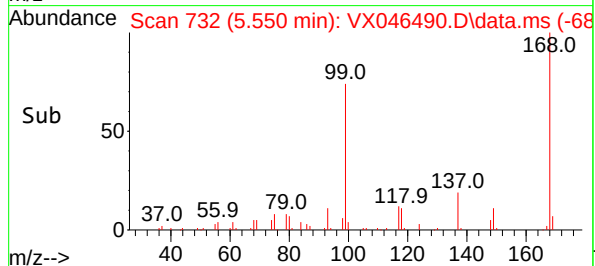
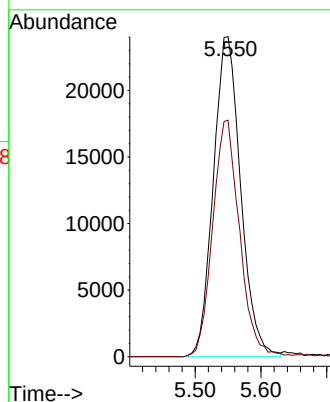
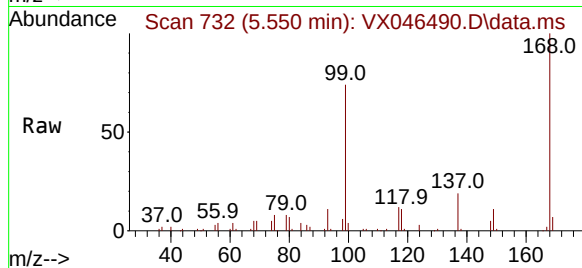




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046490.D  
Acq: 04 Jun 2025 11:04

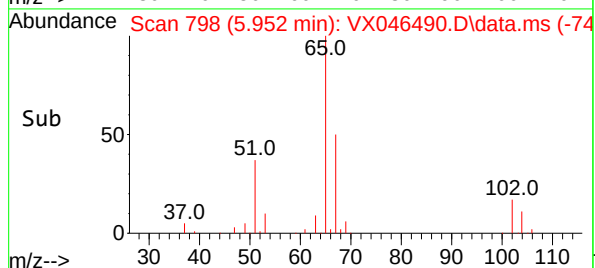
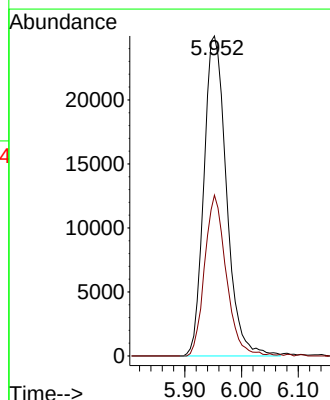
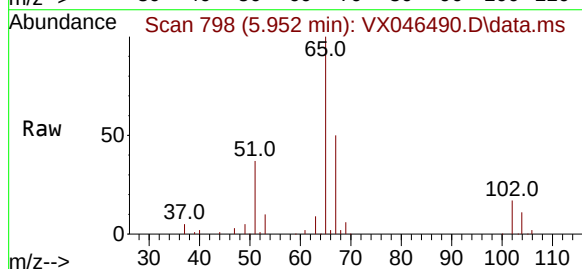
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBL01

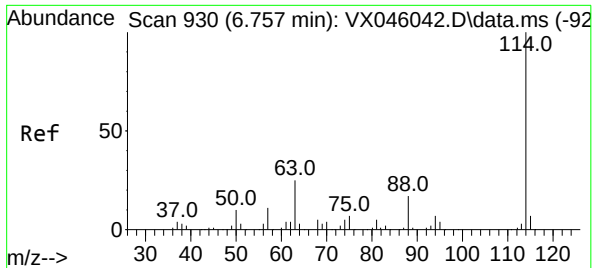
Tgt Ion:168 Resp: 69580  
Ion Ratio Lower Upper  
168 100  
99 73.9 54.9 82.3



#33  
1,2-Dichloroethane-d4  
Concen: 53.355 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX046490.D  
Acq: 04 Jun 2025 11:04

Tgt Ion: 65 Resp: 69212  
Ion Ratio Lower Upper  
65 100  
67 48.1 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX046490.D

Acq: 04 Jun 2025 11:04

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBL01

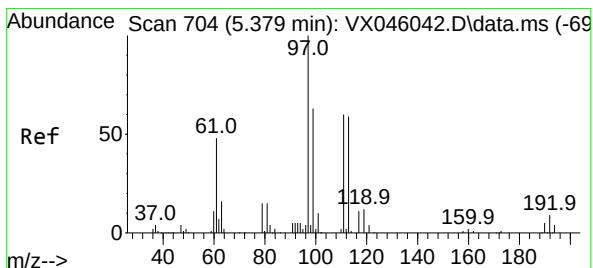
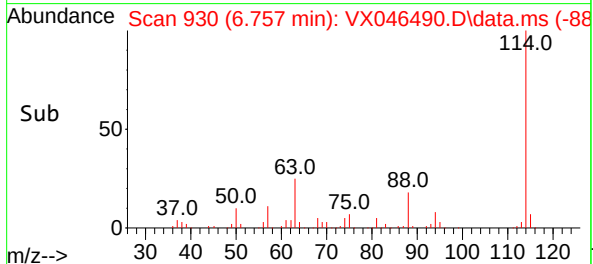
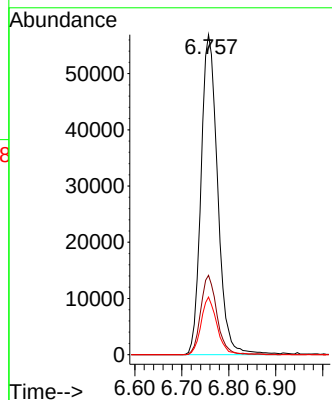
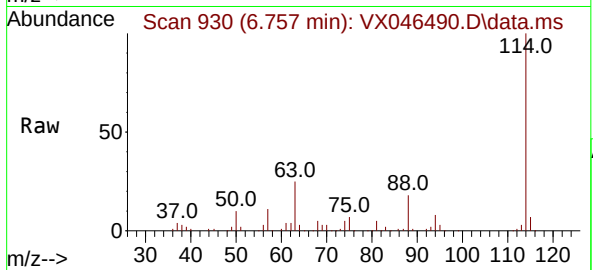
Tgt Ion:114 Resp: 139946

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.2

88 18.0 0.0 33.6



#35

Dibromofluoromethane

Concen: 50.389 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX046490.D

Acq: 04 Jun 2025 11:04

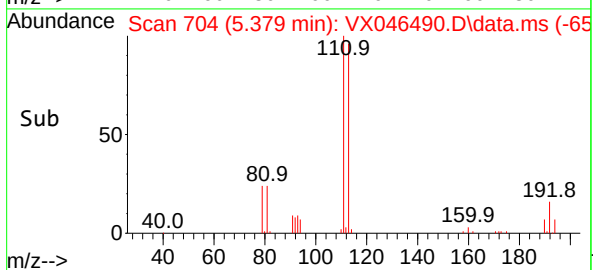
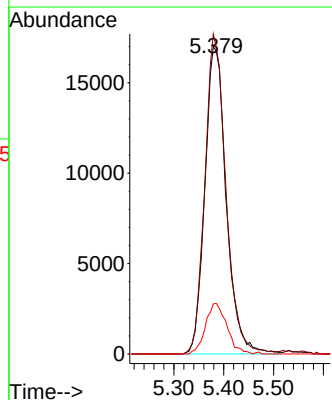
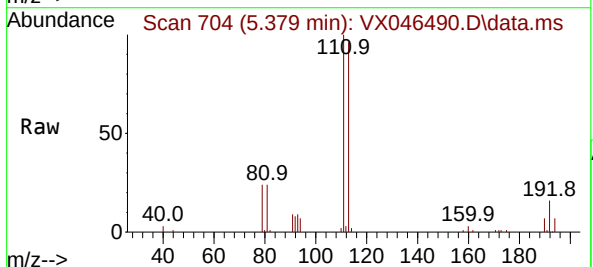
Tgt Ion:113 Resp: 50780

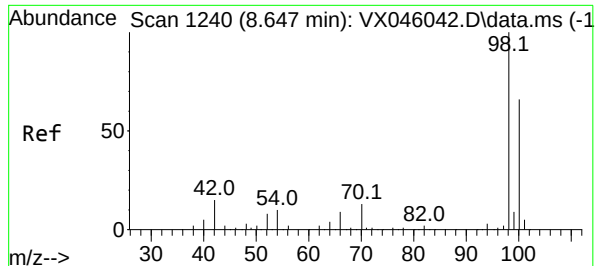
Ion Ratio Lower Upper

113 100

111 102.0 83.1 124.7

192 16.4 13.3 19.9





#50

Toluene-d8

Concen: 50.393 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX046490.D

Acq: 04 Jun 2025 11:04

Instrument :

MSVOA\_X

ClientSampleId :

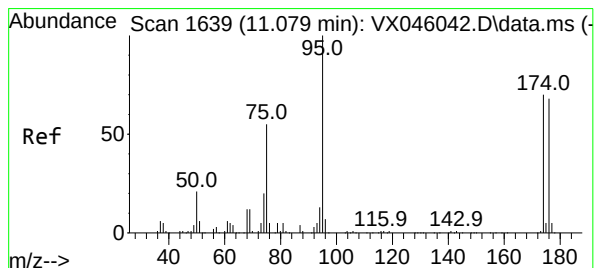
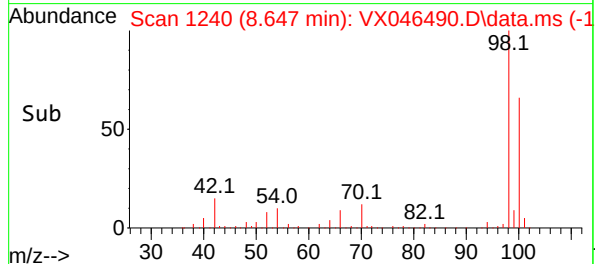
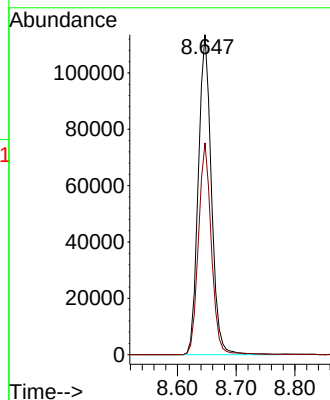
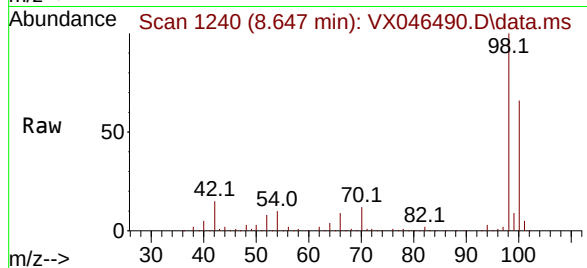
VX0604WBL01

Tgt Ion: 98 Resp: 175770

Ion Ratio Lower Upper

98 100

100 65.3 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 53.079 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046490.D

Acq: 04 Jun 2025 11:04

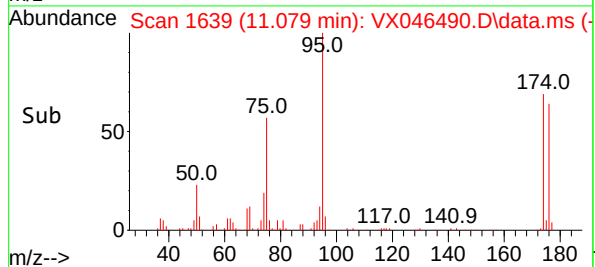
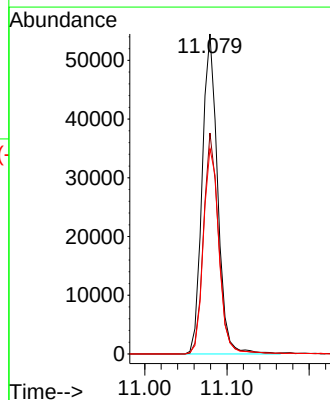
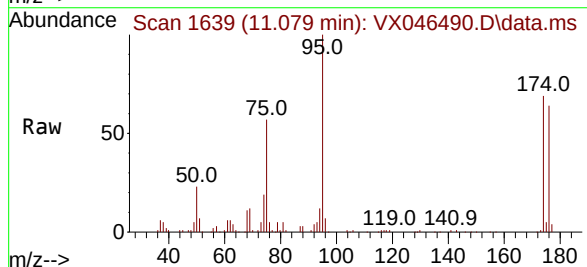
Tgt Ion: 95 Resp: 71016

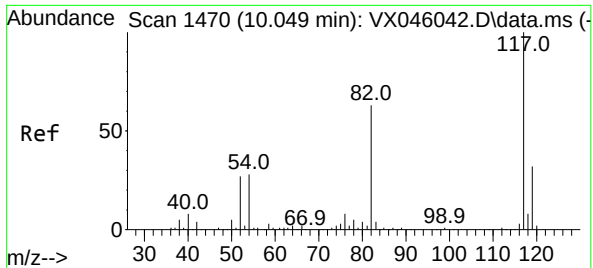
Ion Ratio Lower Upper

95 100

174 67.4 0.0 135.8

176 65.5 0.0 131.4

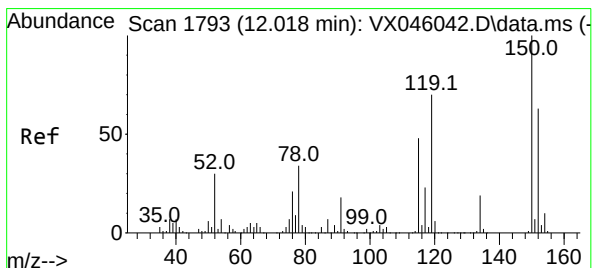
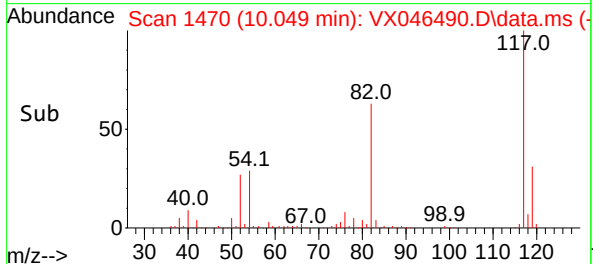
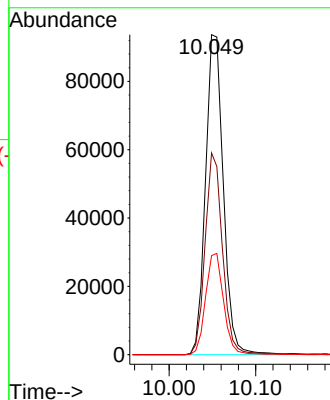
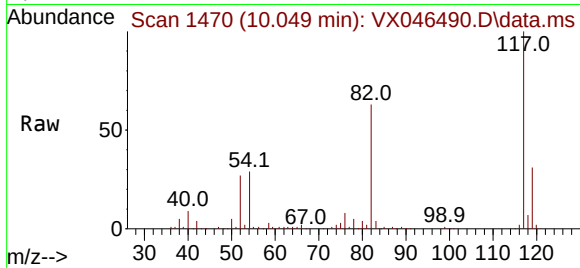




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX046490.D  
Acq: 04 Jun 2025 11:04

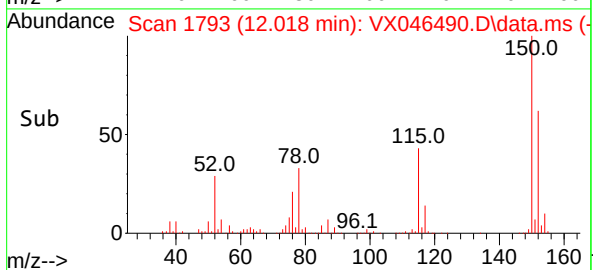
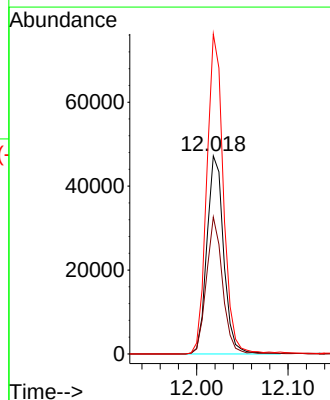
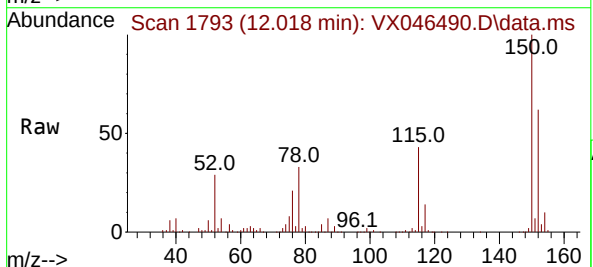
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBL01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.0  | 50.6  | 76.0  |
| 119     | 31.0  | 25.8  | 38.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX046490.D  
Acq: 04 Jun 2025 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 66.8  | 46.9  | 140.7 |
| 150     | 160.7 | 0.0   | 351.0 |



## Report of Analysis

|                    |                                            |                 |                              |
|--------------------|--------------------------------------------|-----------------|------------------------------|
| Client:            | JACOBS Engineering Group, Inc.             | Date Collected: |                              |
| Project:           | Former Schlumberger STC PTC Site D3868221  | Date Received:  |                              |
| Client Sample ID:  | VX0604WBS01                                | SDG No.:        | Q2201                        |
| Lab Sample ID:     | VX0604WBS01                                | Matrix:         | Water                        |
| Analytical Method: | 8260D                                      | % Solid:        | 0                            |
| Sample Wt/Vol:     | 5                      Units:    mL        | Final Vol:      | 5000                      uL |
| Soil Aliquot Vol:  | uL                                         | Test:           | VOCMS Group3                 |
| GC Column:         | DB-624UI                      ID :    0.18 | Level :         | LOW                          |
| Prep Method :      |                                            |                 |                              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX046491.D        | 1         |           | 06/04/25 11:27 | VX060425      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 15.5   |           | 0.26                | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 17.2   |           | 0.23                | 1.00       | ug/L    |
| 75-34-3                   | 1,1-Dichloroethane     | 19.6   |           | 0.23                | 1.00       | ug/L    |
| 156-59-2                  | cis-1,2-Dichloroethene | 19.6   |           | 0.19                | 1.00       | ug/L    |
| 71-55-6                   | 1,1,1-Trichloroethane  | 19.4   |           | 0.20                | 1.00       | ug/L    |
| 71-43-2                   | Benzene                | 18.6   |           | 0.15                | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 19.8   |           | 0.22                | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 18.4   |           | 0.090               | 1.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane  | 20.5   |           | 0.21                | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 19.0   |           | 0.23                | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 50.1   |           | 70 (74) - 130 (125) | 100%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 51.3   |           | 70 (75) - 130 (124) | 103%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 47.3   |           | 70 (86) - 130 (113) | 95%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 49.1   |           | 70 (77) - 130 (121) | 98%        | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 92900  | 5.544     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 164000 | 6.757     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 139000 | 10.049    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 63900  | 12.018    |                     |            |         |

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\_X\Data\VX060425\  
 Data File : VX046491.D  
 Acq On : 04 Jun 2025 11:27  
 Operator : JC/MD  
 Sample : VX0604WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:39:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.544          | 168  | 92897               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 164481              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.049         | 117  | 139452              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 63937               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 86820               | 50.130  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 100.260% |         |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 60723               | 51.267  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.540% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 193713              | 47.253  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 94.500%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 77214               | 49.102  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 98.200%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 22743               | 15.995  | ug/l   | 99       |
| 3) Chloromethane             | 1.307          | 50   | 20855               | 15.125  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 19920               | 15.523  | ug/l   | 94       |
| 5) Bromomethane              | 1.599          | 94   | 9608                | 16.142  | ug/l   | 100      |
| 6) Chloroethane              | 1.673          | 64   | 11730               | 17.122  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 34089               | 17.974  | ug/l   | 95       |
| 8) Diethyl Ether             | 2.130          | 74   | 11717               | 18.148  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 21471               | 18.294  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.447          | 142  | 20760               | 14.948  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 28971               | 119.170 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 18932               | 17.187  | ug/l   | 97       |
| 13) Acrolein                 | 2.233          | 56   | 29271               | 105.725 | ug/l   | 98       |
| 14) Allyl chloride           | 2.660          | 41   | 40362               | 19.172  | ug/l   | 96       |
| 15) Acrylonitrile            | 3.063          | 53   | 74090               | 106.582 | ug/l   | 98       |
| 16) Acetone                  | 2.380          | 43   | 73753               | 106.210 | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.508          | 76   | 33026               | 12.646  | ug/l # | 95       |
| 18) Methyl Acetate           | 2.703          | 43   | 44506               | 27.620  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 79431               | 20.568  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.782          | 84   | 23740               | 17.840  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 19363               | 17.479  | ug/l   | 95       |
| 22) Diisopropyl ether        | 3.758          | 45   | 83789               | 20.604  | ug/l   | 90       |
| 23) Vinyl Acetate            | 3.721          | 43   | 346082              | 96.761  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 44360               | 19.585  | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 111365              | 110.466 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 34526               | 19.475  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 26144               | 19.605  | ug/l   | 97       |
| 28) Bromochloromethane       | 4.898          | 49   | 23833               | 21.860  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 69831               | 110.541 | ug/l   | 99       |
| 30) Chloroform               | 5.093          | 83   | 47227               | 20.005  | ug/l   | 97       |
| 31) Cyclohexane              | 5.465          | 56   | 34657               | 16.791  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 39783               | 19.440  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 27602               | 17.344  | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.721          | 43   | 39738               | 20.211  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 32904               | 18.402  | ug/l   | 95       |
| 39) Methylcyclohexane        | 7.373          | 83   | 33061               | 16.137  | ug/l   | 98       |
| 40) Benzene                  | 6.031          | 78   | 86835               | 18.629  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046491.D  
 Acq On : 04 Jun 2025 11:27  
 Operator : JC/MD  
 Sample : VX0604WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:39:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.928  | 41   | 23318    | 22.671  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 39852    | 19.809  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 63564    | 21.191  | ug/l   | 99       |
| 44) Trichloroethene           | 7.123  | 130  | 20599    | 18.361  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 22961    | 19.810  | ug/l   | 96       |
| 46) Dibromomethane            | 7.580  | 93   | 17290    | 18.913  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.818  | 83   | 35372    | 19.645  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 32412    | 21.158  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 13462    | 462.828 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 215594   | 108.282 | ug/l   | 100      |
| 52) Toluene                   | 8.714  | 92   | 54715    | 19.143  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 30645    | 19.148  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 34352    | 19.420  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.147  | 97   | 23114    | 20.509  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 37067    | 20.636  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 39627    | 19.578  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 97808    | 106.806 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 163451   | 110.961 | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.519  | 129  | 25342    | 20.474  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 23528    | 20.086  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.269  | 164  | 18715    | 18.968  | ug/l   | 95       |
| 65) Chlorobenzene             | 10.080 | 112  | 59399    | 19.461  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 21063    | 20.209  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.189 | 91   | 105678   | 19.642  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 78322    | 39.802  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 39544    | 20.613  | ug/l   | 99       |
| 70) Styrene                   | 10.653 | 104  | 64399    | 20.492  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 15687    | 20.047  | ug/l # | 97       |
| 73) Isopropylbenzene          | 10.957 | 105  | 105573   | 21.209  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 53645    | 21.810  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 37218    | 21.336  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 32568m   | 21.162  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 23492    | 20.328  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.299 | 91   | 117360   | 20.277  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 75768    | 20.296  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 85839    | 20.642  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 9522     | 20.143  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 83569    | 20.186  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 87673    | 20.930  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 86879    | 20.630  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 108045   | 21.008  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 87255    | 20.553  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 42116    | 19.969  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.037 | 146  | 44193    | 20.518  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.329 | 91   | 75030    | 20.149  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 14661    | 19.602  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.329 | 146  | 44415    | 20.986  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 9196     | 23.797  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 25497    | 20.975  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 10415    | 19.618  | ug/l   | 96       |
| 95) Naphthalene               | 13.774 | 128  | 94780    | 21.259  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 25741    | 20.522  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
Data File : VX046491.D  
Acq On : 04 Jun 2025 11:27  
Operator : JC/MD  
Sample : VX0604WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:39:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

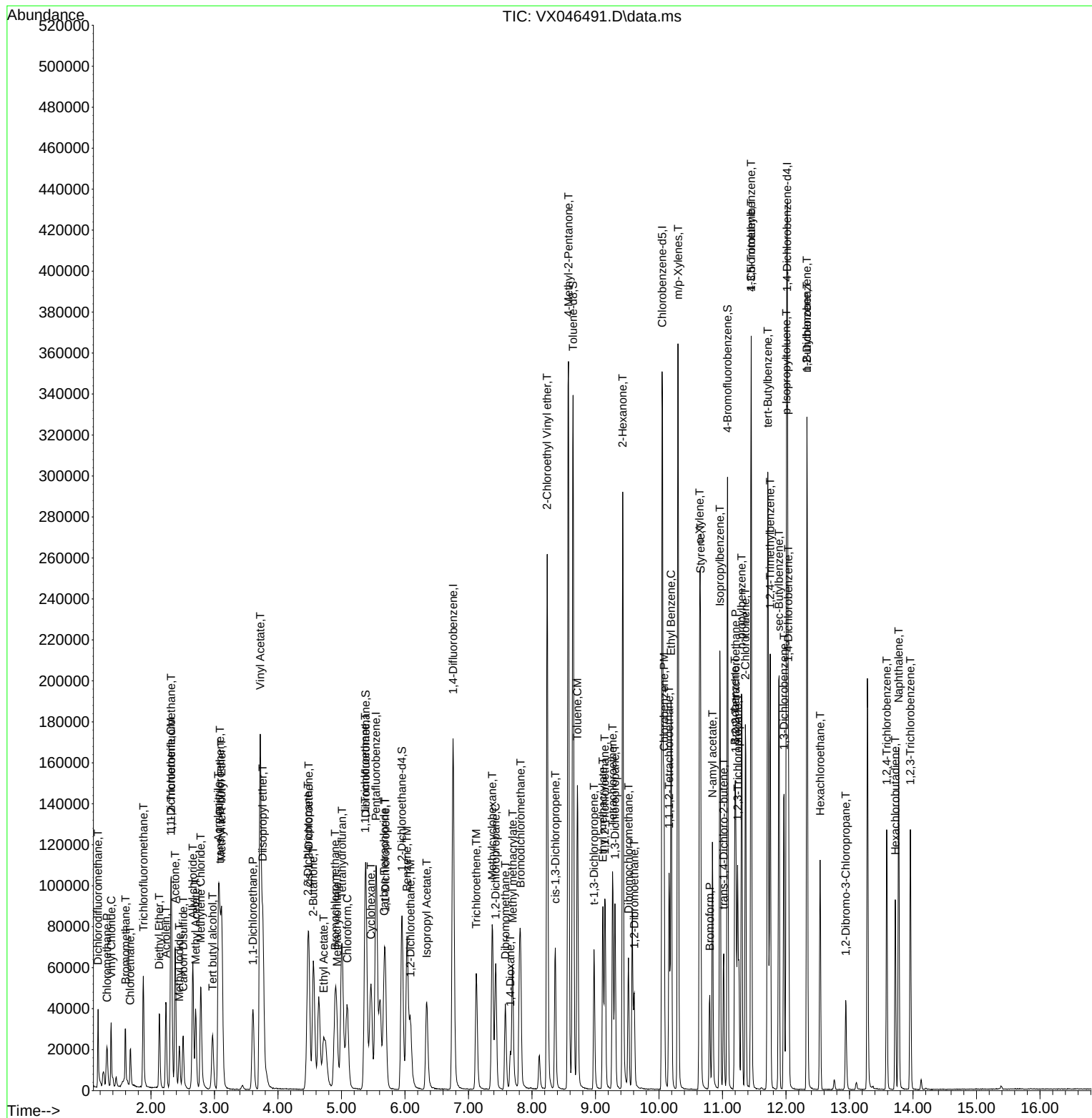
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 Data File : VX046491.D  
 Acq On : 04 Jun 2025 11:27  
 Operator : JC/MD  
 Sample : VX0604WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

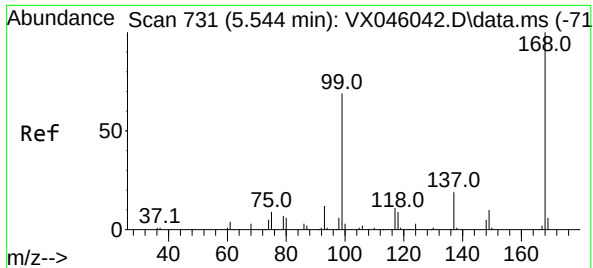
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBS01

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:39:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration





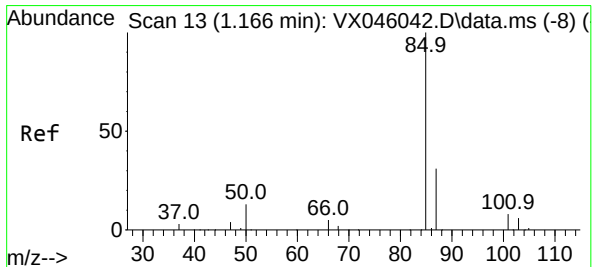
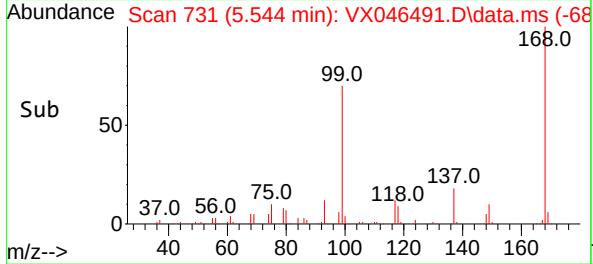
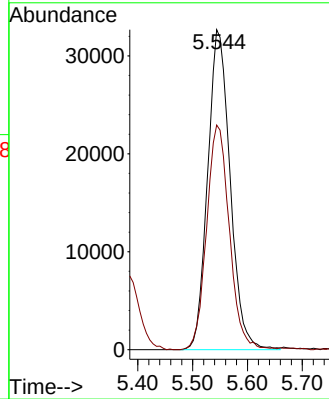
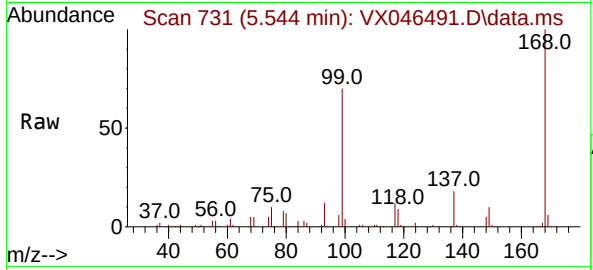
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Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion:168 Resp: 9289  
Ion Ratio Lower Upper  
168 100  
99 70.2 54.9 82.3

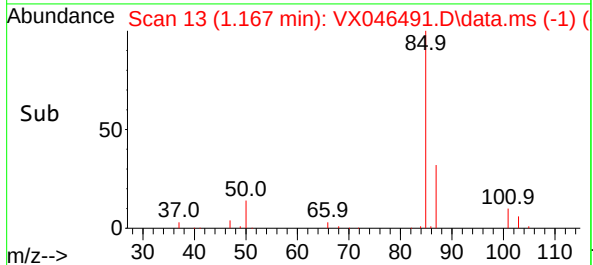
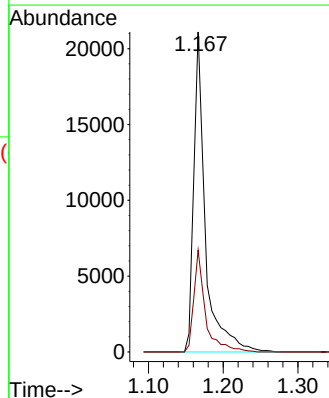
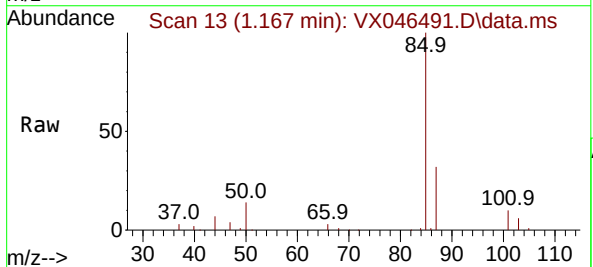
Manual Integrations  
APPROVED

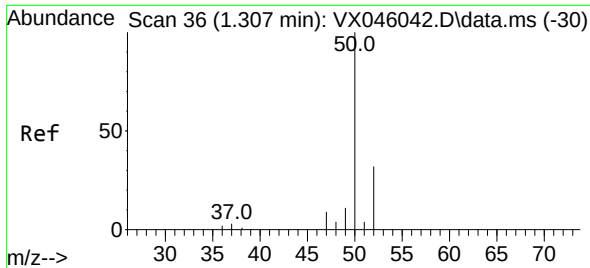
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#2  
Dichlorodifluoromethane  
Concen: 15.995 ug/l  
RT: 1.167 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 85 Resp: 22743  
Ion Ratio Lower Upper  
85 100  
87 31.8 15.7 47.1





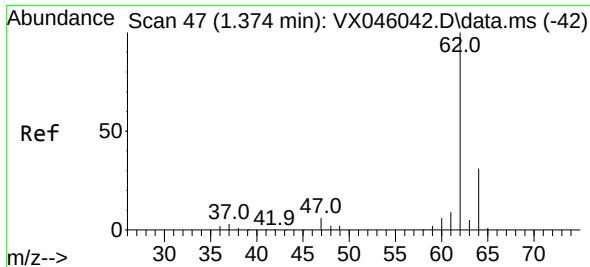
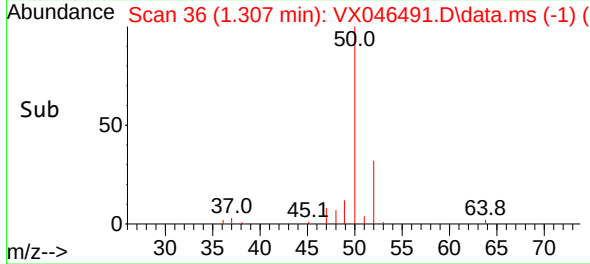
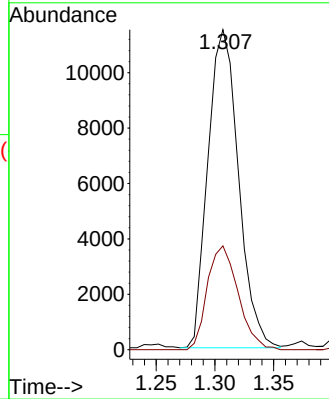
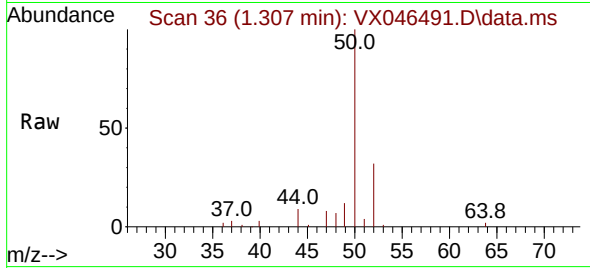
#3  
Chloromethane  
Concen: 15.125 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 50 Resp: 2085  
Ion Ratio Lower Upper  
50 100  
52 32.6 25.4 38.2

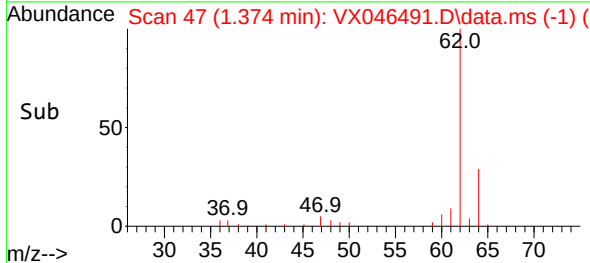
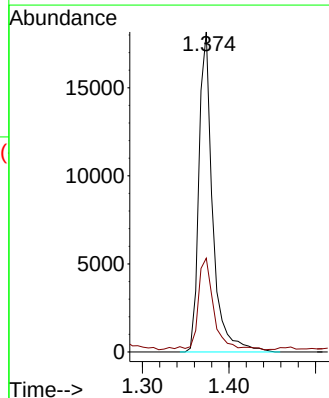
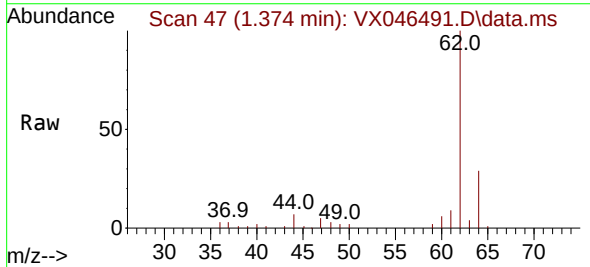
Manual Integrations  
**APPROVED**

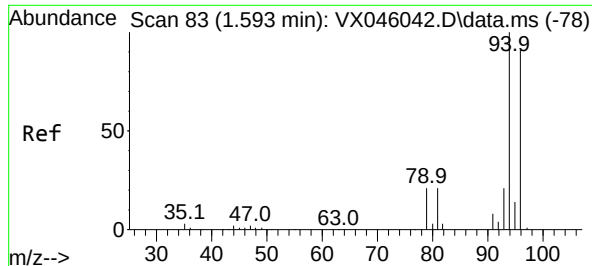
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#4  
Vinyl Chloride  
Concen: 15.523 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

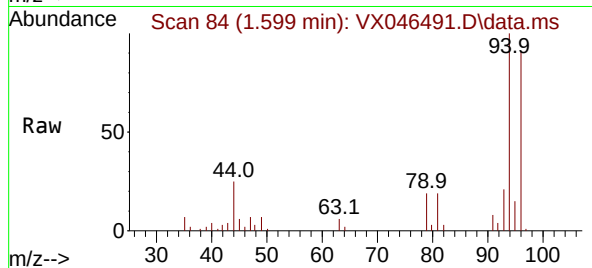
Tgt Ion: 62 Resp: 19920  
Ion Ratio Lower Upper  
62 100  
64 28.0 25.2 37.8





#5  
Bromomethane  
Concen: 16.142 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

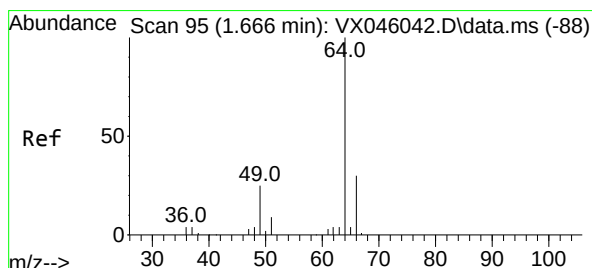
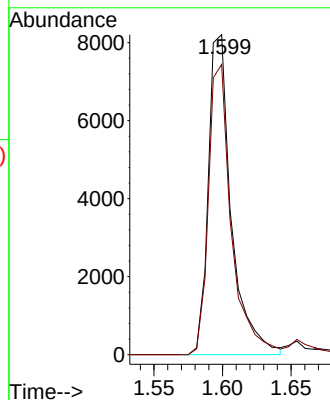
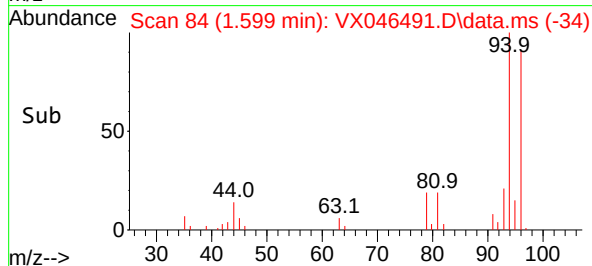
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 94 Resp: 9608  
Ion Ratio Lower Upper  
94 100  
96 90.7 72.8 109.2

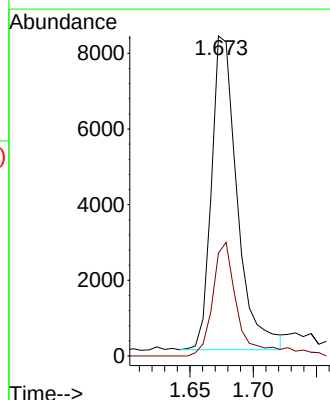
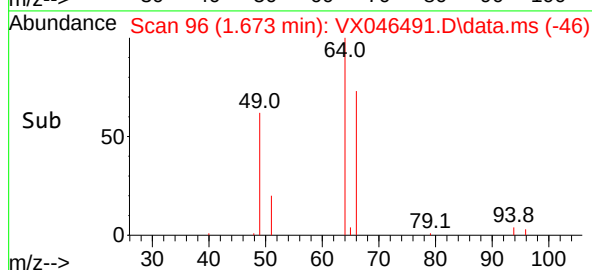
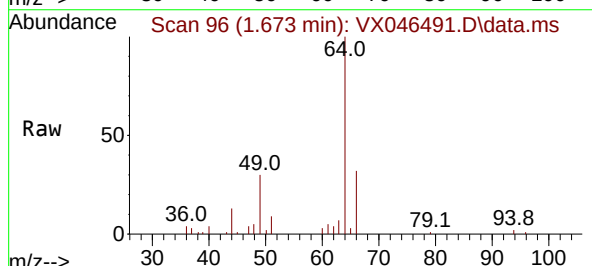
Manual Integrations  
**APPROVED**

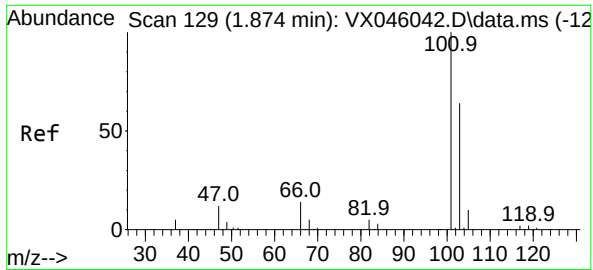
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#6  
Chloroethane  
Concen: 17.122 ug/l  
RT: 1.673 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

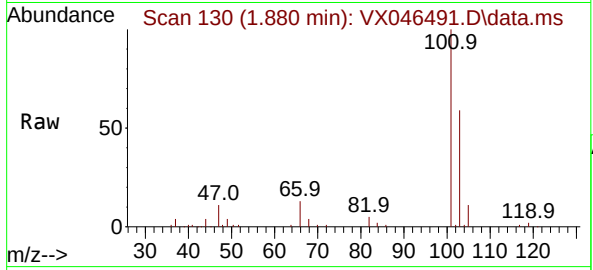
Tgt Ion: 64 Resp: 11730  
Ion Ratio Lower Upper  
64 100  
66 32.8 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 17.974 ug/l  
RT: 1.880 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

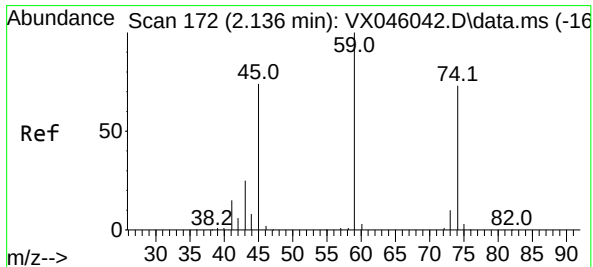
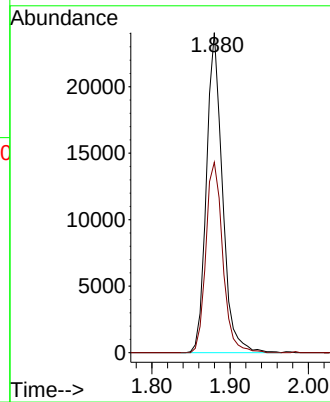
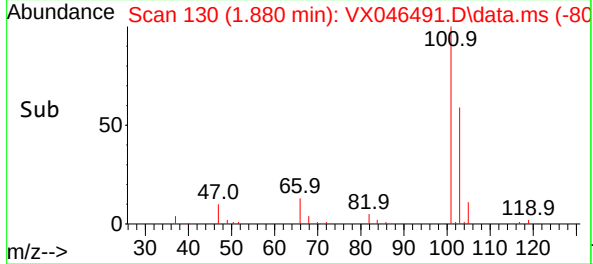
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:101 Resp: 34089  
Ion Ratio Lower Upper  
101 100  
103 59.5 51.0 76.4

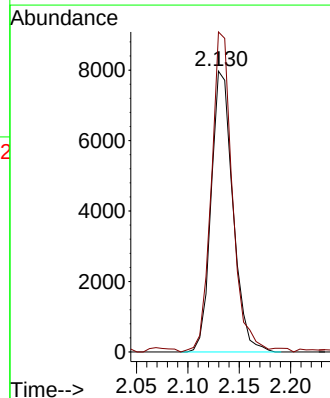
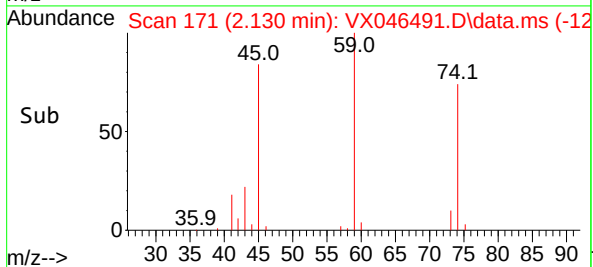
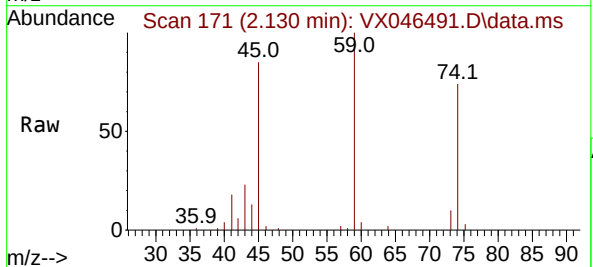
Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

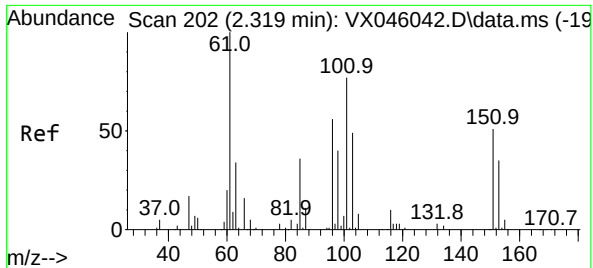


#8  
Diethyl Ether  
Concen: 18.148 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 74 Resp: 11717  
Ion Ratio Lower Upper  
74 100  
45 111.4 54.9 164.8







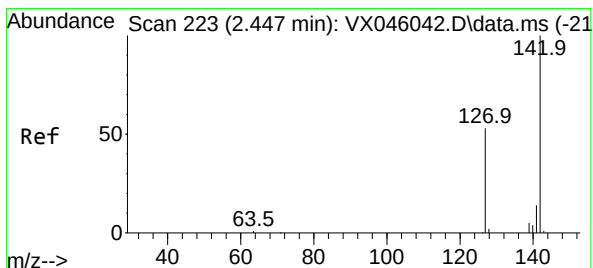
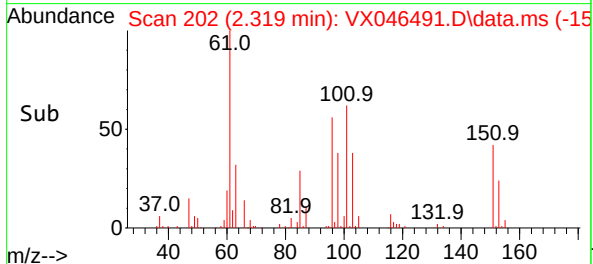
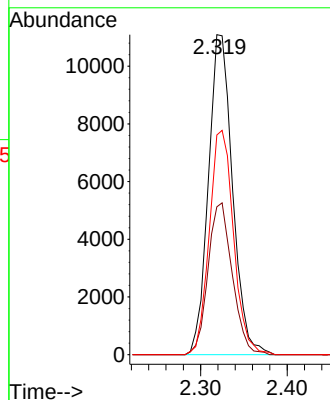
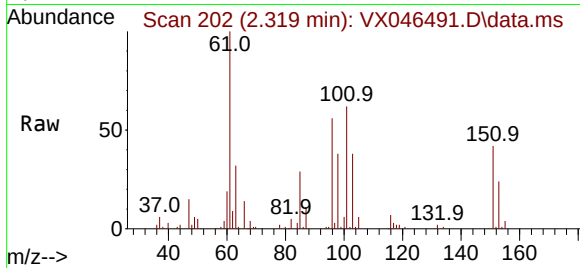
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 18.294 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion:101 Resp: 2147  
Ion Ratio Lower Upper  
101 100  
85 47.6 38.6 58.0  
151 70.5 55.2 82.8

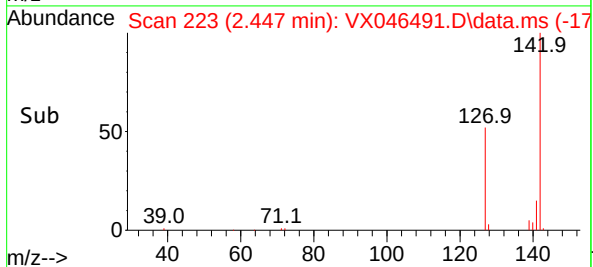
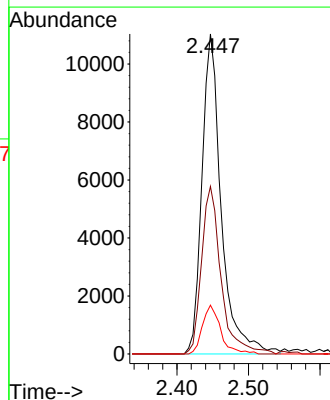
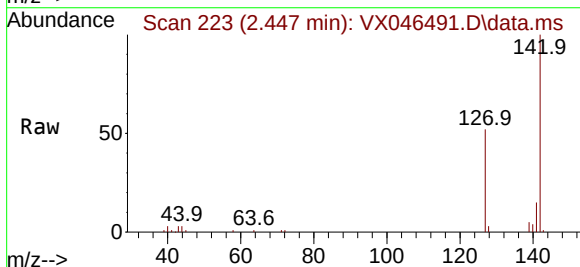
Manual Integrations  
APPROVED

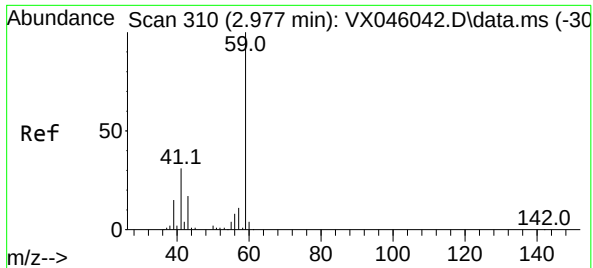
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#10  
Methyl Iodide  
Concen: 14.948 ug/l  
RT: 2.447 min Scan# 223  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion:142 Resp: 20760  
Ion Ratio Lower Upper  
142 100  
127 52.6 41.7 62.5  
141 14.4 11.5 17.3





#11

Tert butyl alcohol

Concen: 119.170 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX046491.D

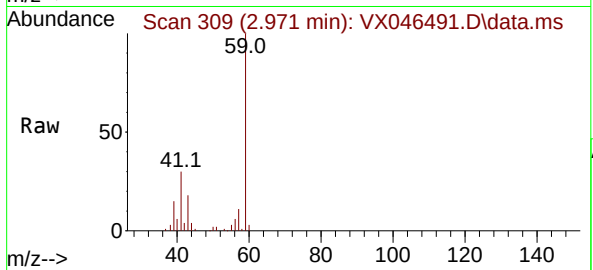
Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

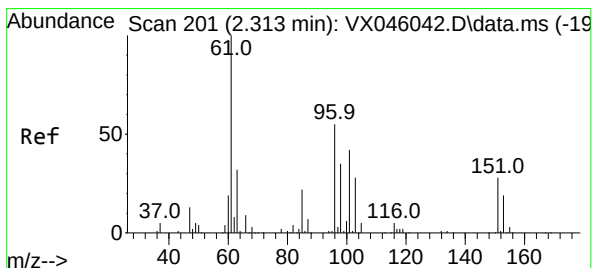
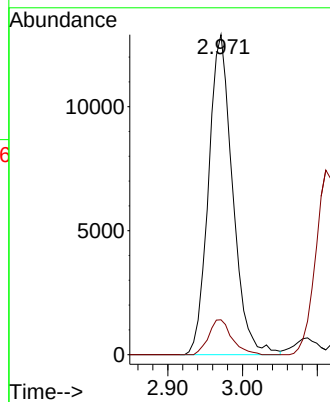
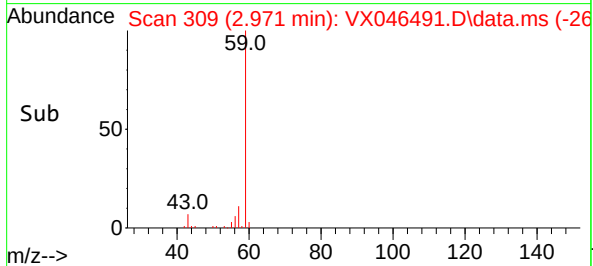


| Tgt Ion:  | 59   | Resp: | 2897  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 59        | 100  |       |       |
| 57        | 10.5 | 8.6   | 12.8  |

## Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#12

1,1-Dichloroethene

Concen: 17.187 ug/l

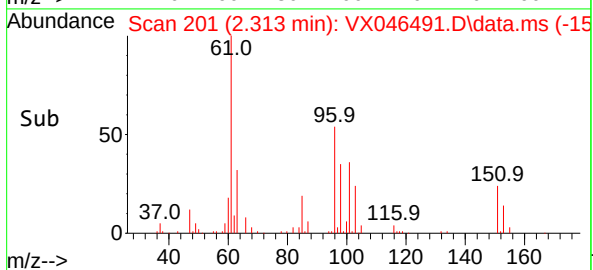
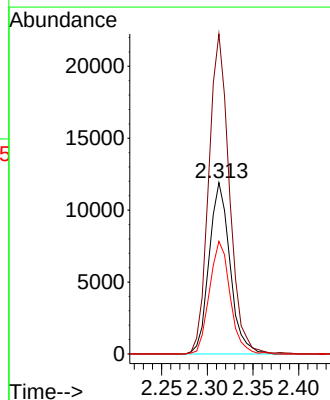
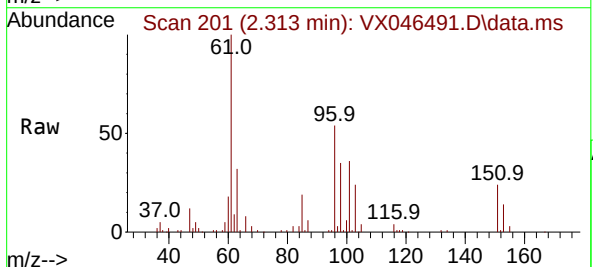
RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

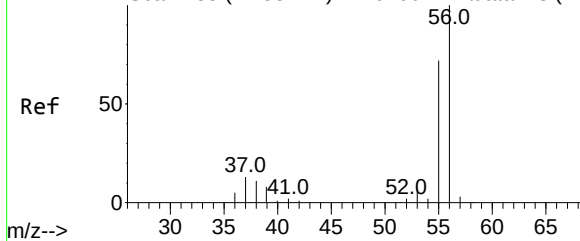
Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

| Tgt Ion:  | 96    | Resp: | 18932 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 96        | 100   |       |       |
| 61        | 186.8 | 146.2 | 219.2 |
| 98        | 65.7  | 51.0  | 76.6  |



Abundance Scan 188 (2.233 min): VX046042.D\data.ms (-18



#13

Acrolein

Concen: 105.725 ug/l

RT: 2.233 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 56 Resp: 2927

Ion Ratio Lower Upper

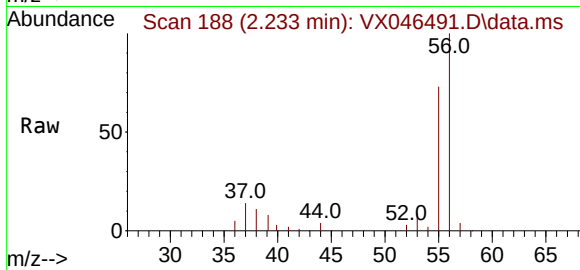
56 100

55 71.9 56.2 84.4

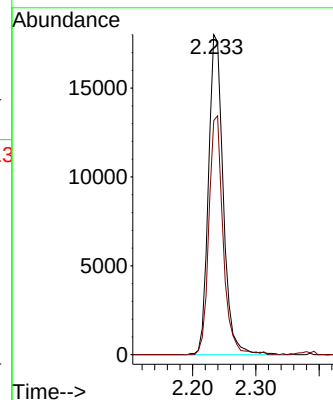
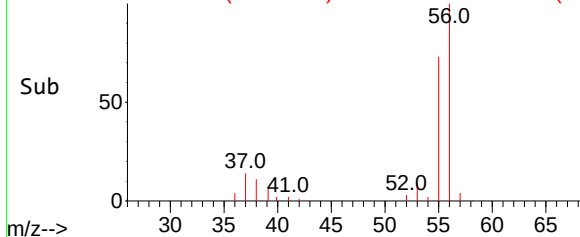
Manual Integrations

APPROVED

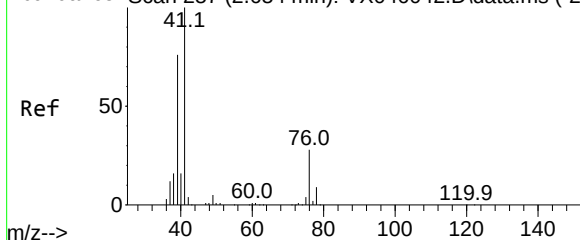
Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



Abundance Scan 188 (2.233 min): VX046491.D\data.ms (-13



Abundance Scan 257 (2.654 min): VX046042.D\data.ms (-24



#14

Allyl chloride

Concen: 19.172 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

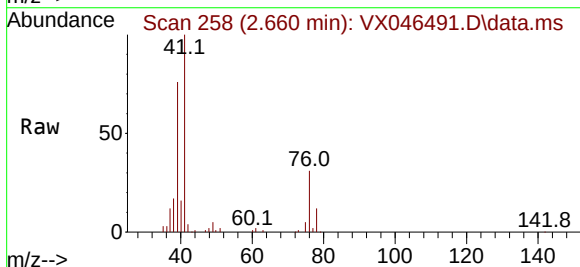
Tgt Ion: 41 Resp: 40362

Ion Ratio Lower Upper

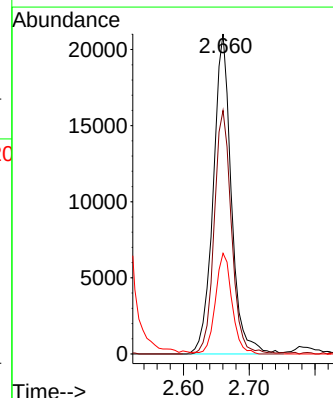
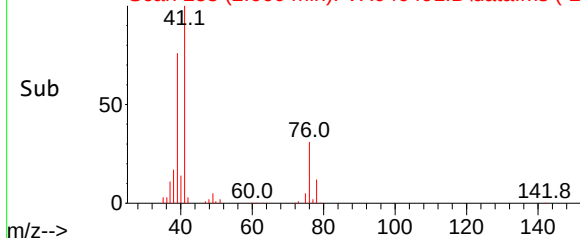
41 100

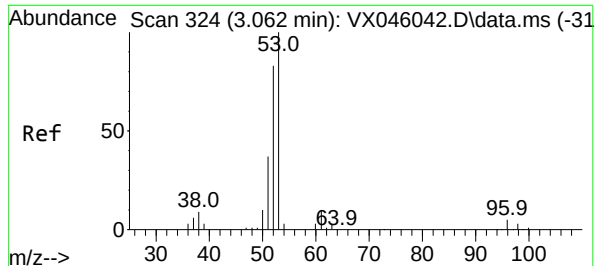
39 72.5 60.6 90.8

76 28.6 24.9 37.3



Abundance Scan 258 (2.660 min): VX046491.D\data.ms (-20





#15

Acrylonitrile

Concen: 106.582 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

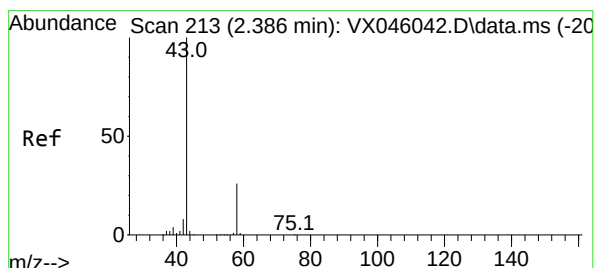
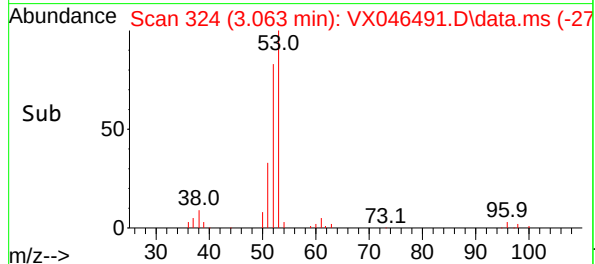
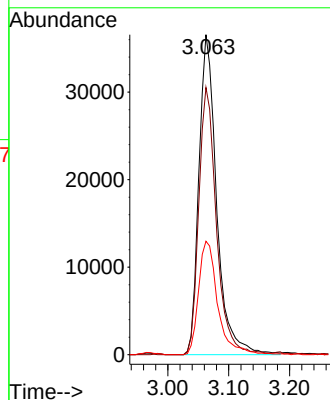
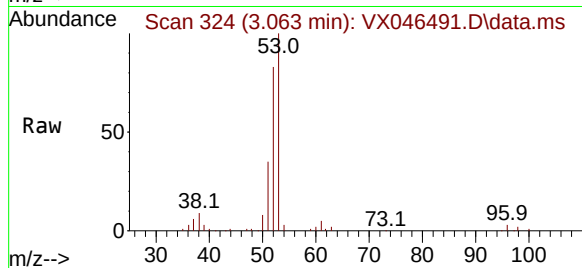
VX0604WBS01

|             |             |
|-------------|-------------|
| Tgt Ion: 53 | Resp: 74090 |
| Ion Ratio   | Lower Upper |
| 53 100      |             |
| 52 83.1     | 65.3 97.9   |
| 51 38.5     | 29.8 44.8   |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#16

Acetone

Concen: 106.210 ug/l

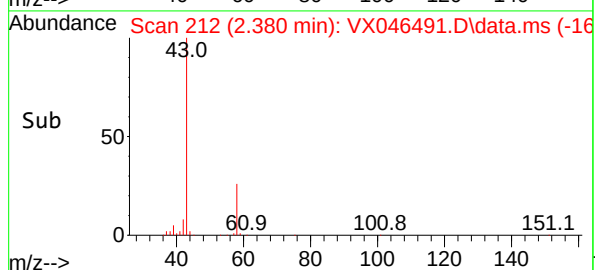
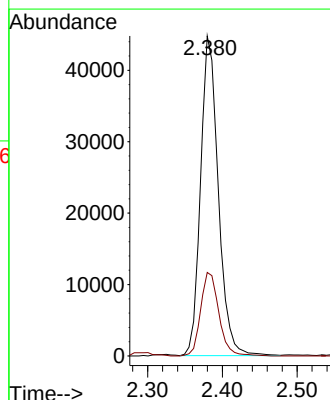
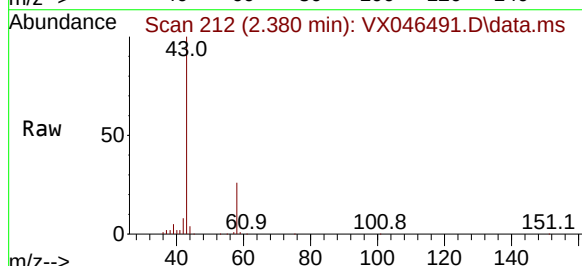
RT: 2.380 min Scan# 212

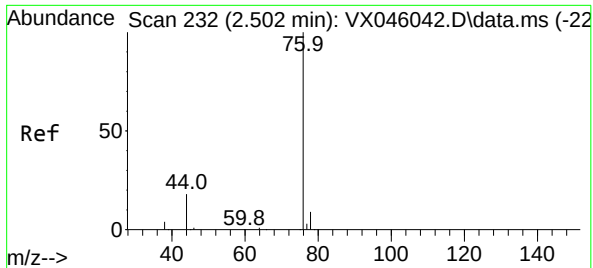
Delta R.T. -0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 73753 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 26.2     | 21.2 31.8   |





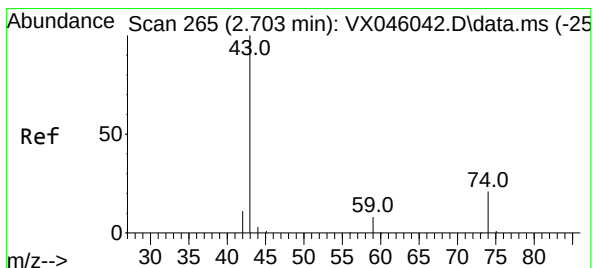
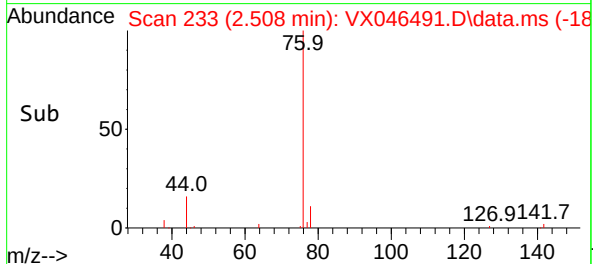
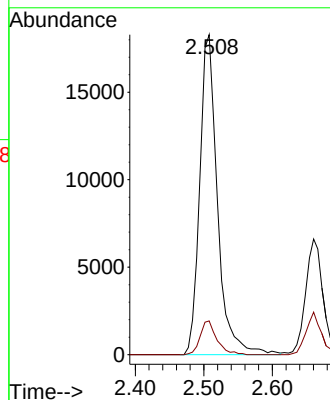
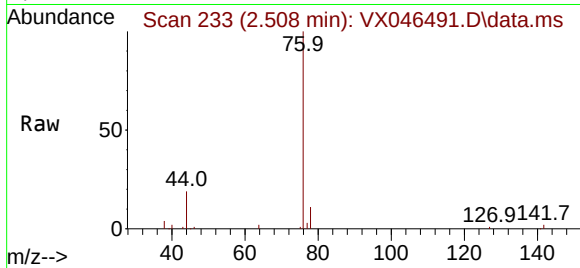
#17  
Carbon Disulfide  
Concen: 12.646 ug/l  
RT: 2.508 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 76 Resp: 33020  
Ion Ratio Lower Upper  
76 100  
78 10.6 7.0 10.4

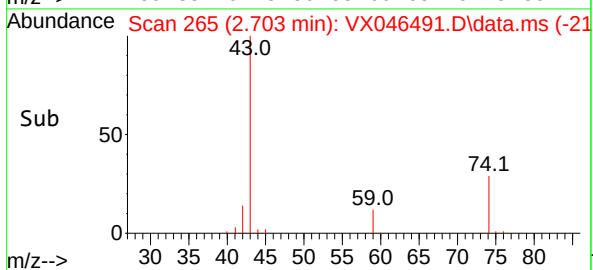
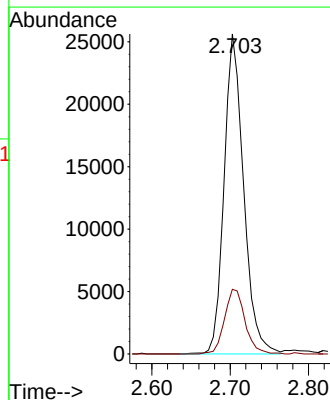
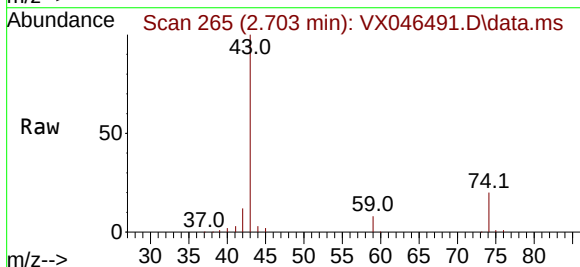
Manual Integrations  
APPROVED

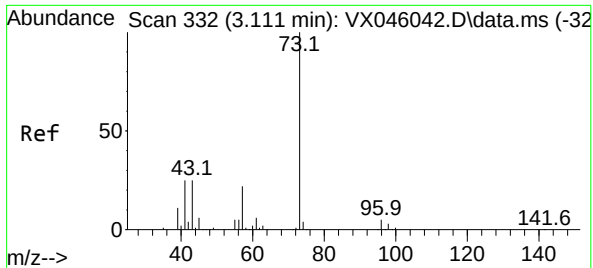
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#18  
Methyl Acetate  
Concen: 27.620 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 43 Resp: 44506  
Ion Ratio Lower Upper  
43 100  
74 21.2 16.7 25.1





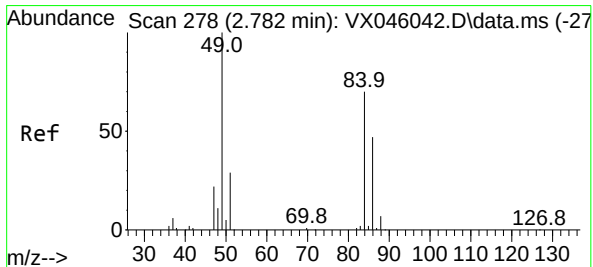
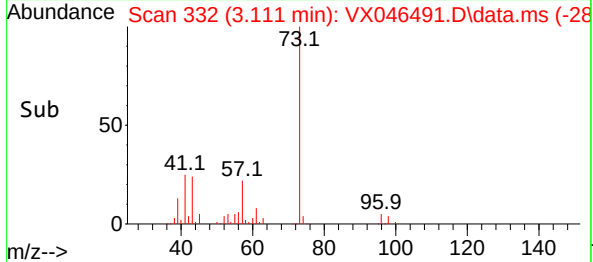
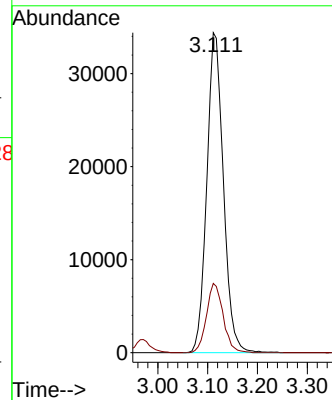
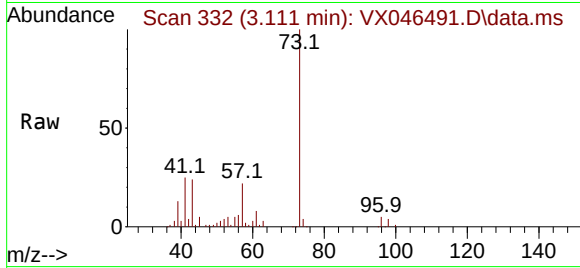
#19  
Methyl tert-butyl Ether  
Concen: 20.568 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 73 Resp: 7943  
Ion Ratio Lower Upper  
73 100  
57 21.6 17.7 26.5

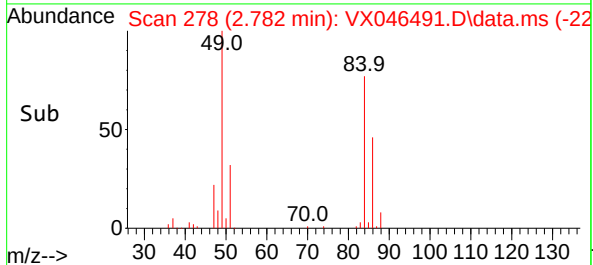
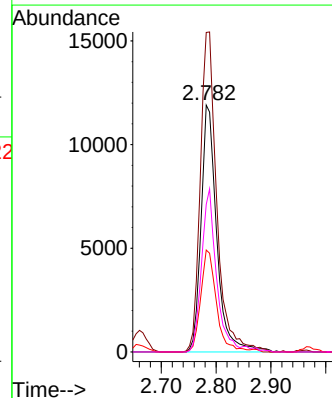
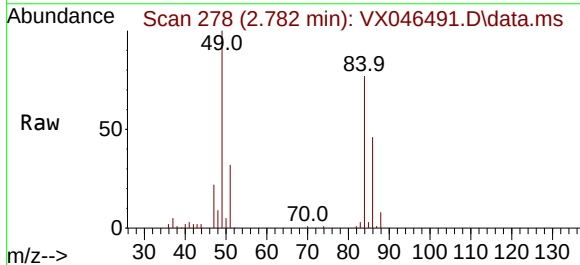
Manual Integrations  
APPROVED

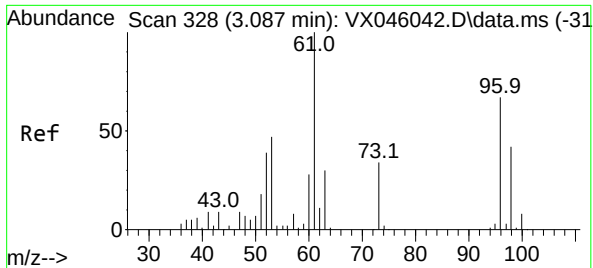
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#20  
Methylene Chloride  
Concen: 17.840 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

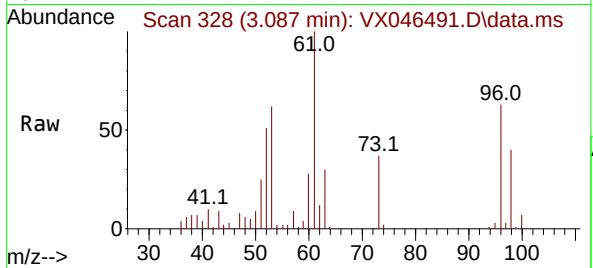
Tgt Ion: 84 Resp: 23740  
Ion Ratio Lower Upper  
84 100  
49 129.4 113.9 170.9  
51 41.3 33.5 50.3  
86 59.8 53.8 80.8





#21  
trans-1,2-Dichloroethene  
Concen: 17.479 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

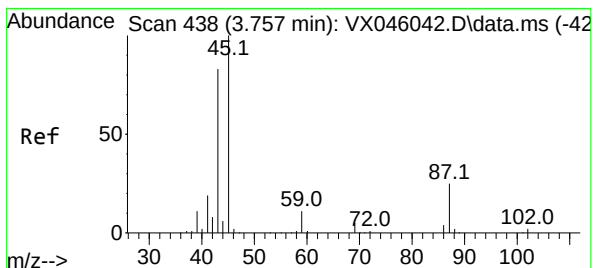
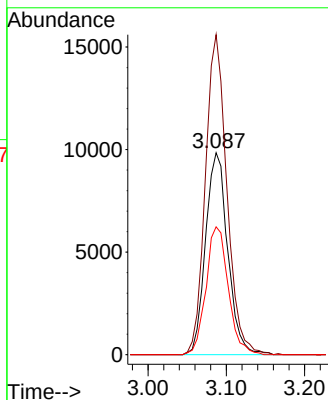
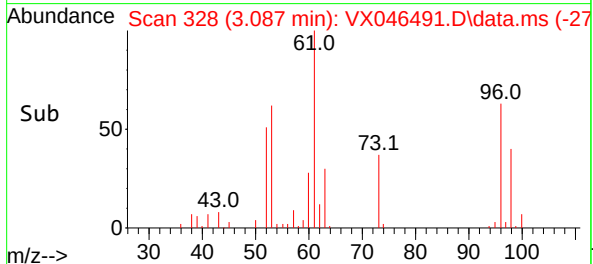
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 96 Resp: 1936  
Ion Ratio Lower Upper  
96 100  
61 158.4 119.5 179.3  
98 63.3 50.0 75.0

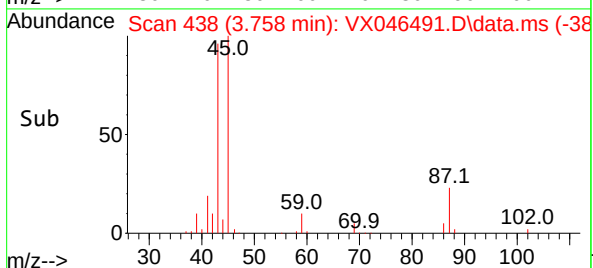
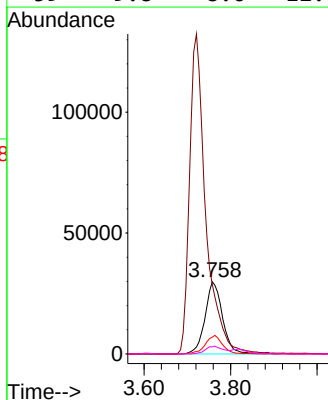
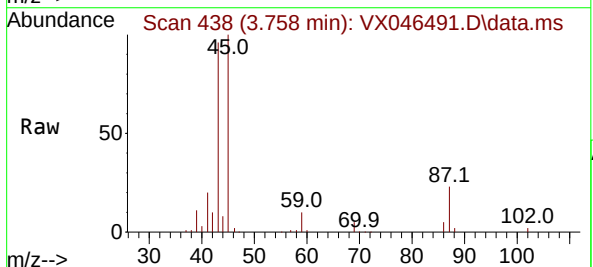
Manual Integrations  
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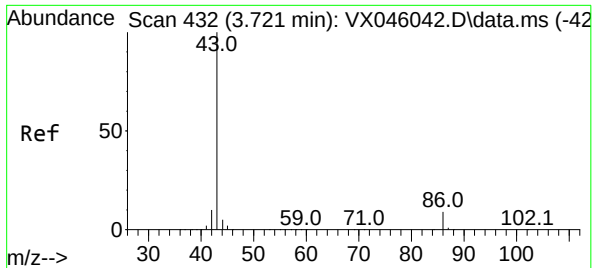
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#22  
Diisopropyl ether  
Concen: 20.604 ug/l  
RT: 3.758 min Scan# 438  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 45 Resp: 83789  
Ion Ratio Lower Upper  
45 100  
43 95.4 66.6 100.0  
87 23.3 19.8 29.6  
59 9.8 8.6 12.8





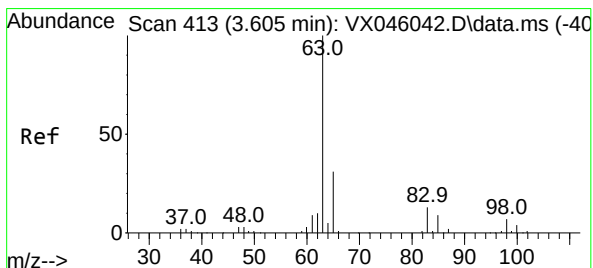
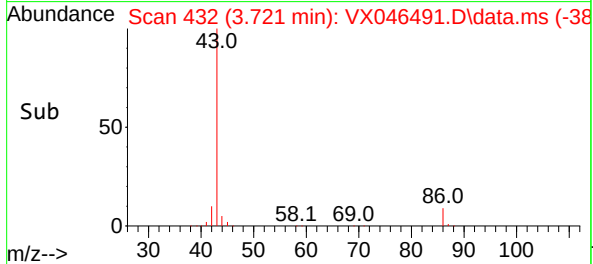
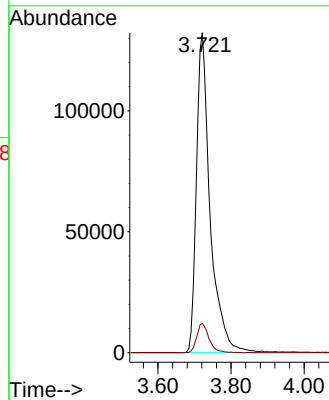
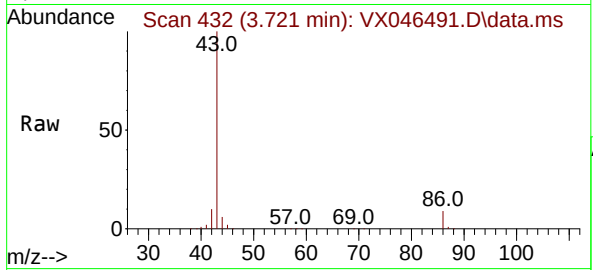
#23  
Vinyl Acetate  
Concen: 96.761 ug/l  
RT: 3.721 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 43 Resp: 34608  
Ion Ratio Lower Upper  
43 100  
86 9.2 7.5 11.3

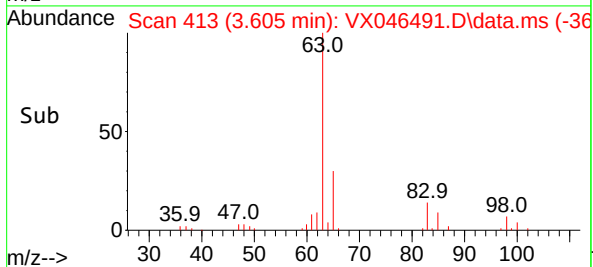
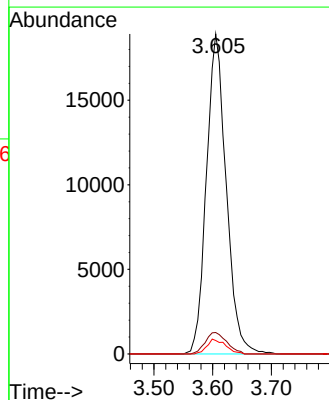
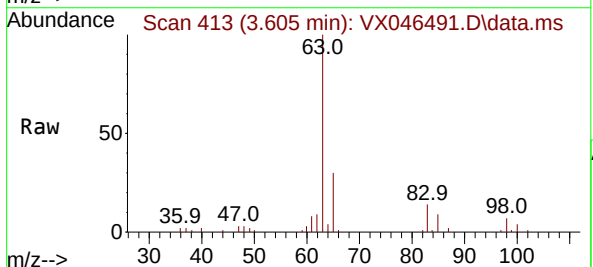
Manual Integrations  
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Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

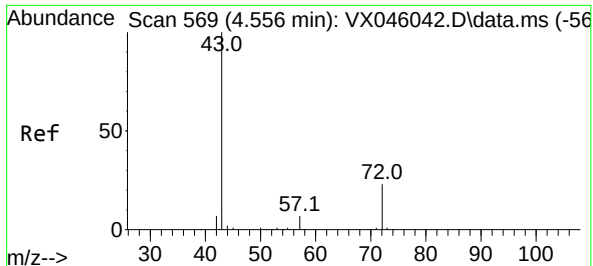


#24  
1,1-Dichloroethane  
Concen: 19.585 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 63 Resp: 44360  
Ion Ratio Lower Upper  
63 100  
98 6.7 3.6 10.8  
100 4.2 2.1 6.3







#25

2-Butanone

Concen: 110.466 ug/l

RT: 4.556 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 43 Resp: 11136

Ion Ratio Lower Upper

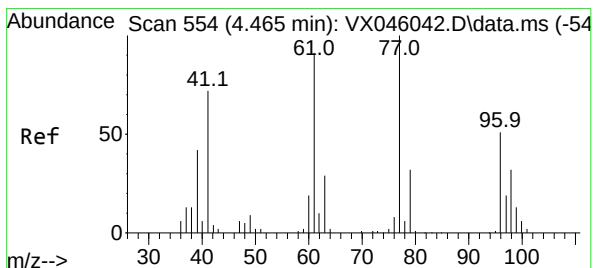
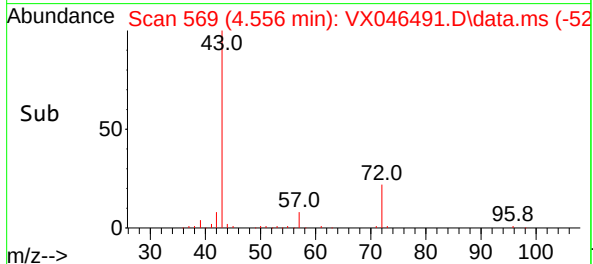
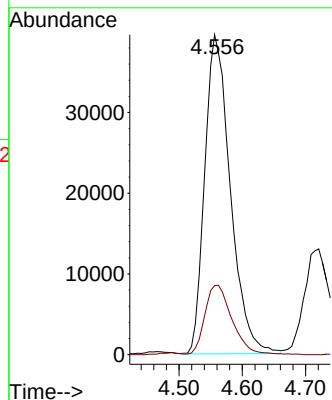
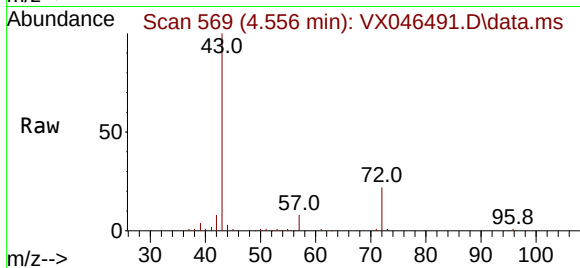
43 100

72 21.4 18.4 27.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#26

2,2-Dichloropropane

Concen: 19.475 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX046491.D

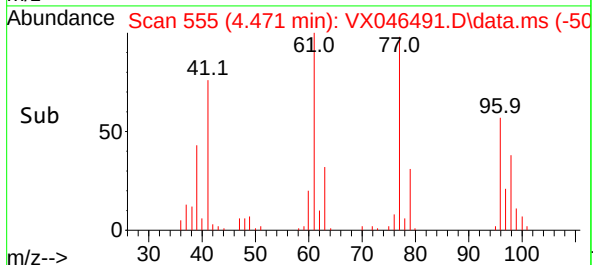
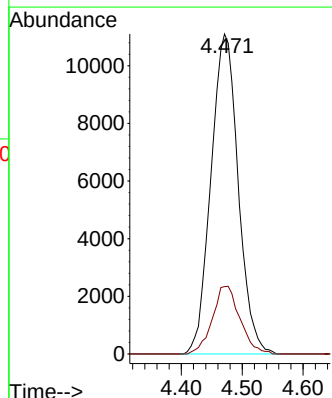
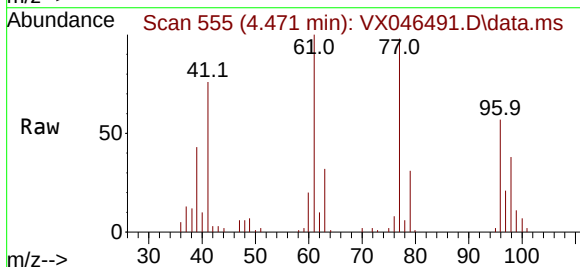
Acq: 04 Jun 2025 11:27

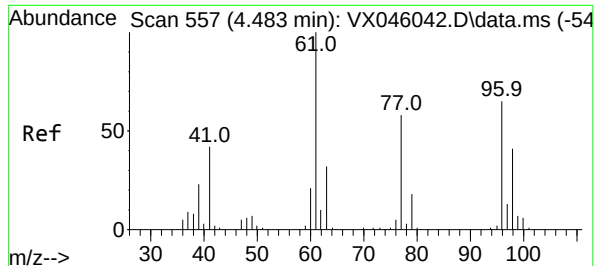
Tgt Ion: 77 Resp: 34526

Ion Ratio Lower Upper

77 100

97 21.4 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 19.605 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 96 Resp: 2614

Ion Ratio Lower Upper

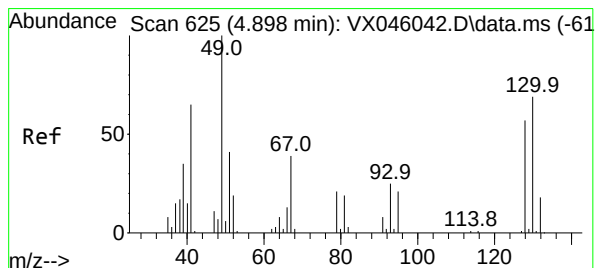
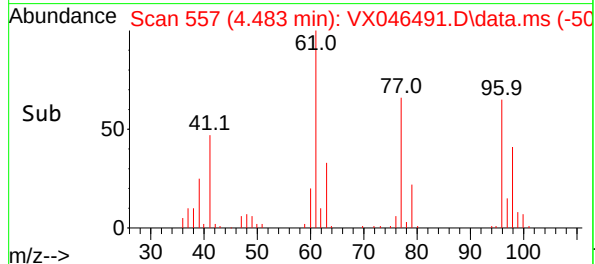
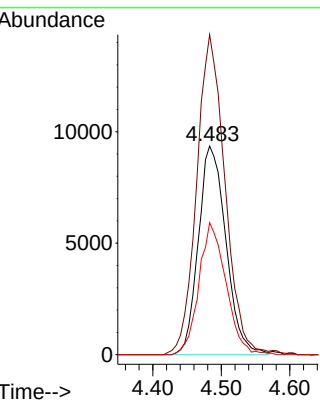
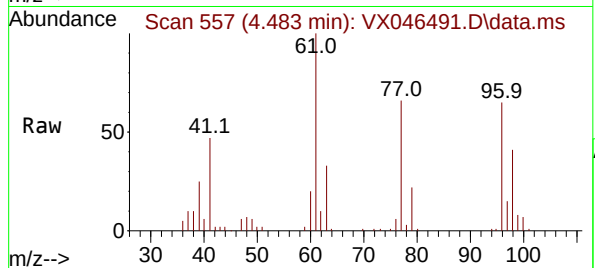
96 100

61 158.2 0.0 322.8

98 62.0 0.0 129.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#28

Bromochloromethane

Concen: 21.860 ug/l

RT: 4.898 min Scan# 625

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

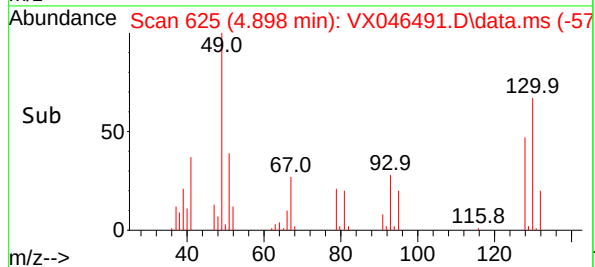
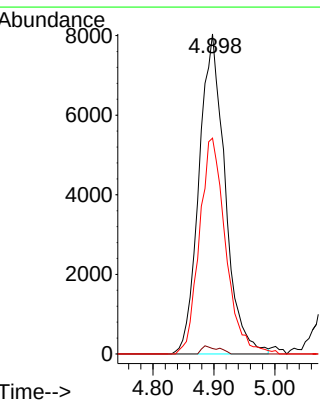
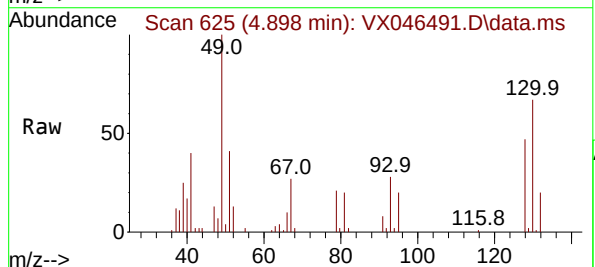
Tgt Ion: 49 Resp: 23833

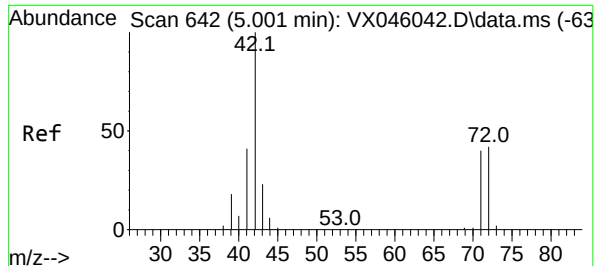
Ion Ratio Lower Upper

49 100

129 1.6 0.0 4.0

130 68.0 56.2 84.2





#29

Tetrahydrofuran

Concen: 110.541 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 42 Resp: 6983

Ion Ratio Lower Upper

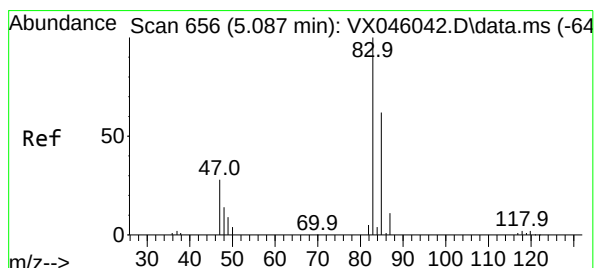
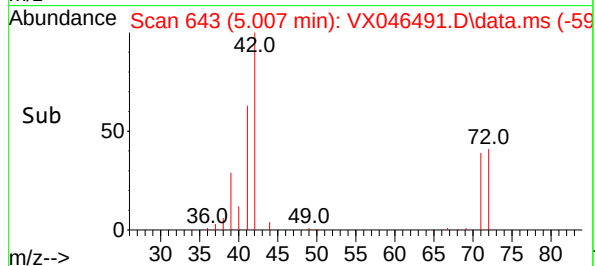
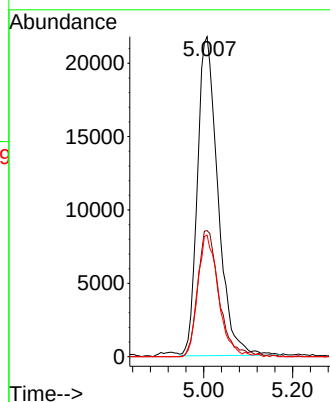
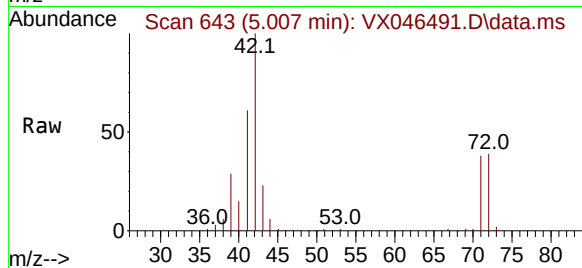
42 100

72 41.4 33.7 50.5

71 38.4 31.4 47.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#30

Chloroform

Concen: 20.005 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX046491.D

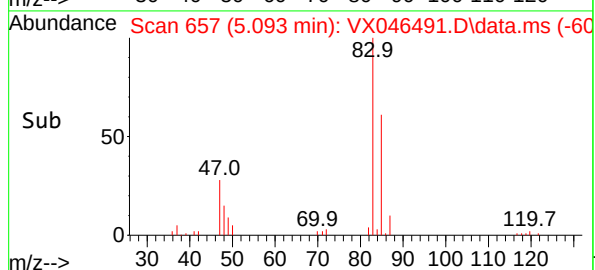
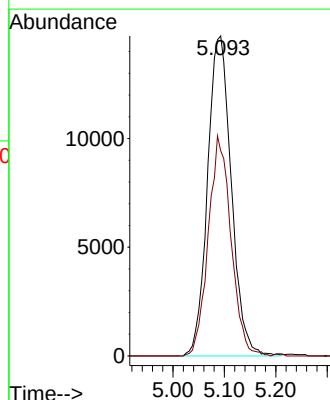
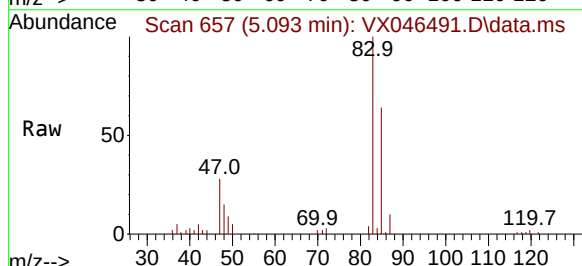
Acq: 04 Jun 2025 11:27

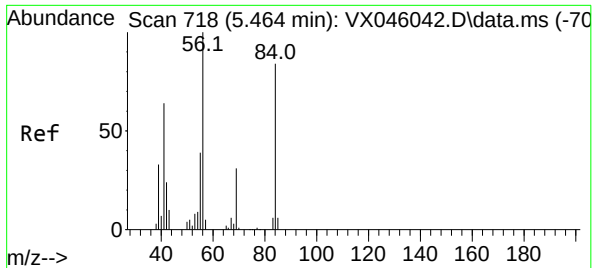
Tgt Ion: 83 Resp: 47227

Ion Ratio Lower Upper

83 100

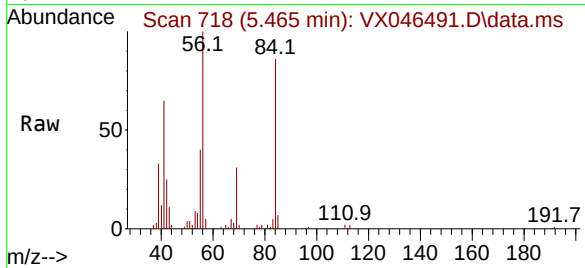
85 64.1 49.3 73.9





#31  
Cyclohexane  
Concen: 16.791 ug/l  
RT: 5.465 min Scan# 718  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

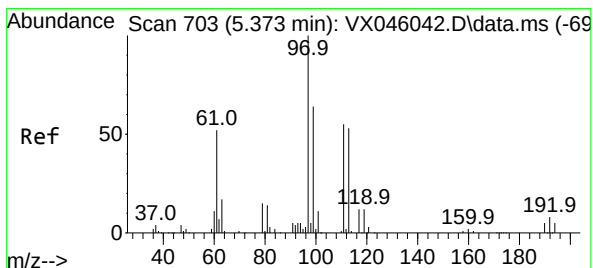
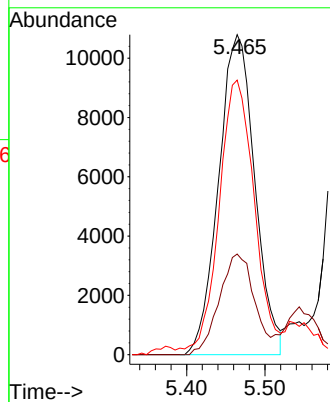
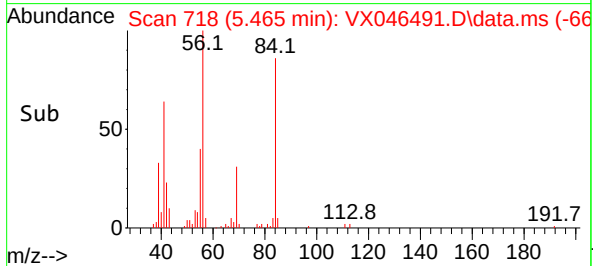
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 56 Resp: 3465  
Ion Ratio Lower Upper  
56 100  
69 31.5 24.4 36.6  
84 83.8 66.9 100.3

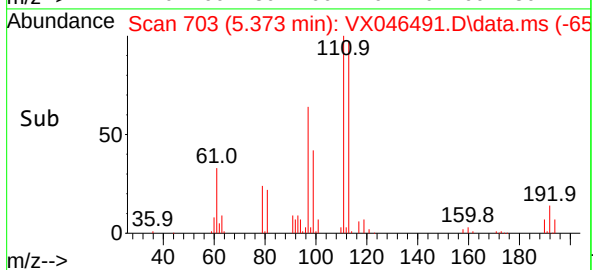
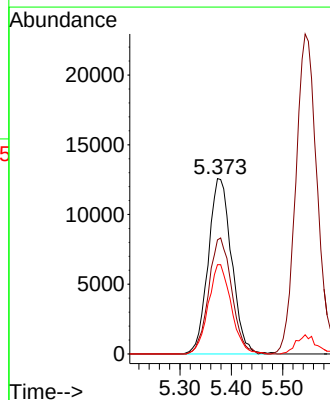
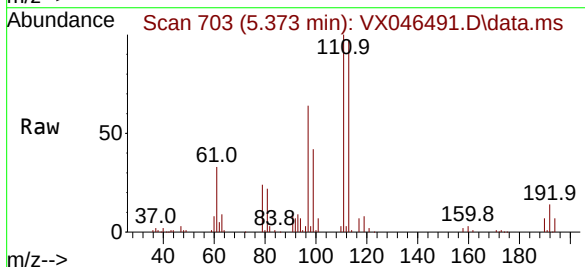
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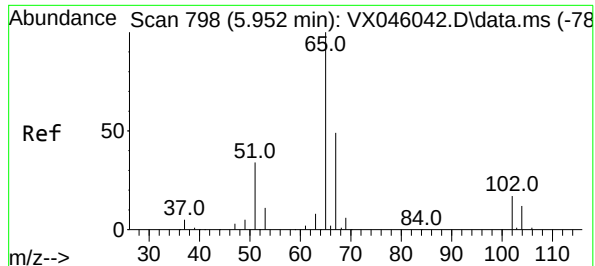
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#32  
1,1,1-Trichloroethane  
Concen: 19.440 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 97 Resp: 39783  
Ion Ratio Lower Upper  
97 100  
99 65.2 51.8 77.6  
61 50.0 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 50.130 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 65 Resp: 86820

Ion Ratio Lower Upper

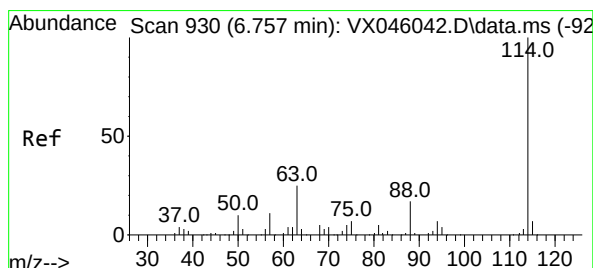
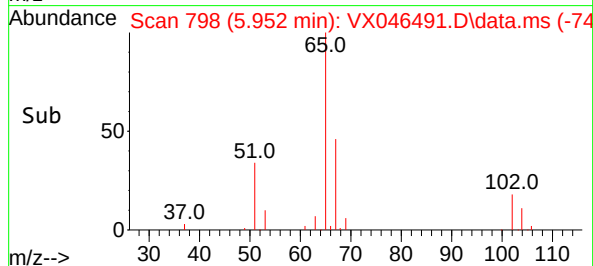
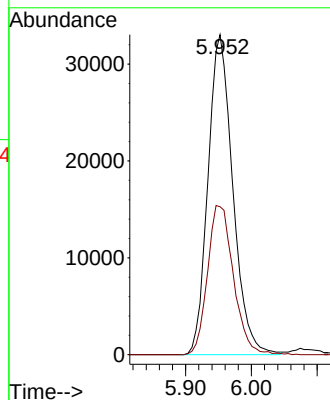
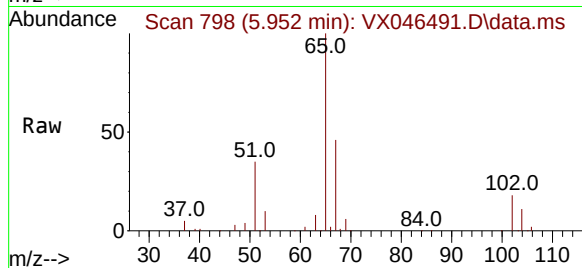
65 100

67 48.8 0.0 99.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

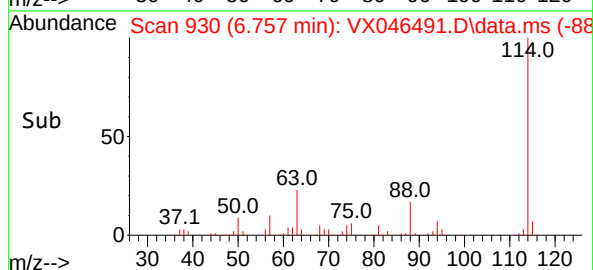
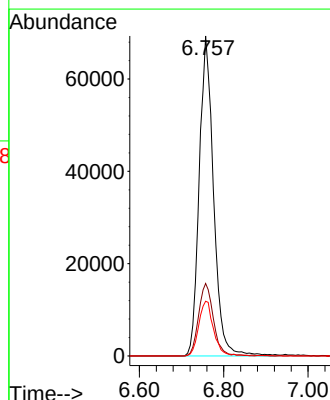
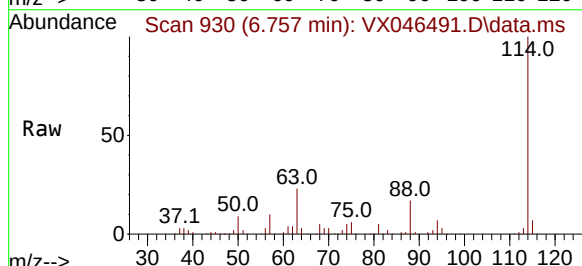
Tgt Ion:114 Resp: 164481

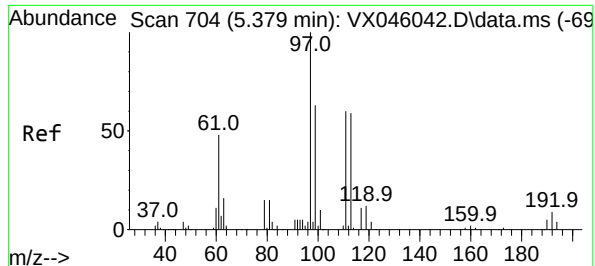
Ion Ratio Lower Upper

114 100

63 22.7 0.0 49.2

88 17.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.267 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046491.D

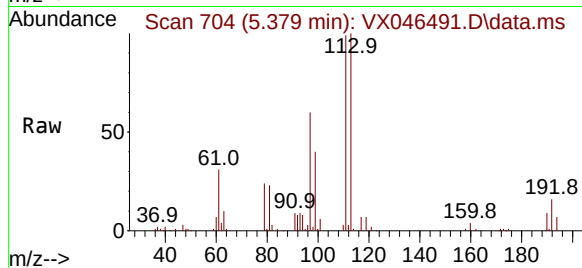
Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01



Tgt Ion:113 Resp: 6072

Ion Ratio Lower Upper

113 100

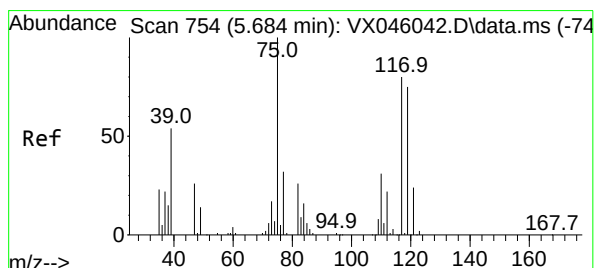
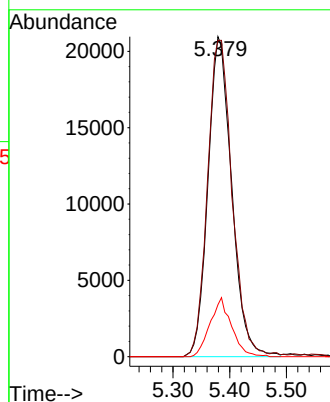
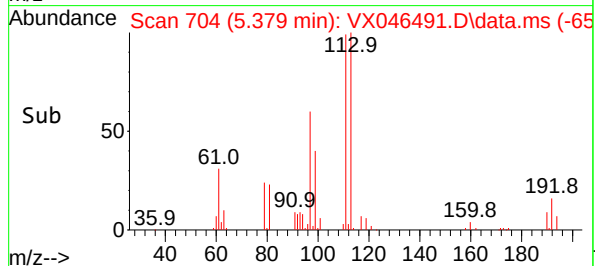
111 102.7 83.1 124.7

192 16.8 13.3 19.9

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#36

1,1-Dichloropropene

Concen: 17.344 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

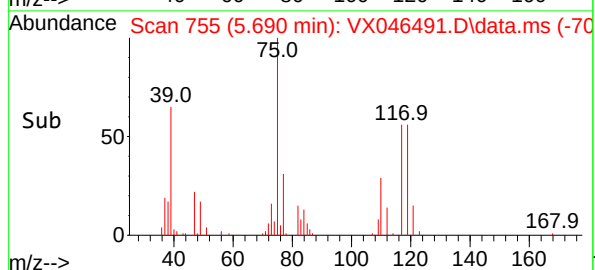
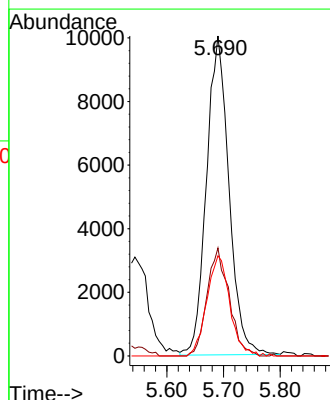
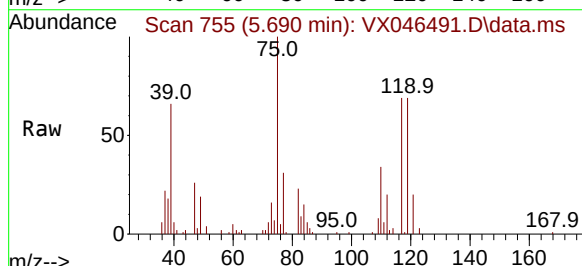
Tgt Ion: 75 Resp: 27602

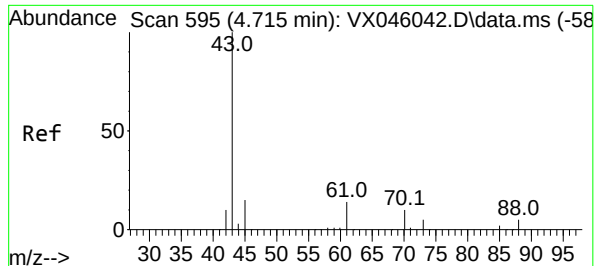
Ion Ratio Lower Upper

75 100

110 33.2 16.3 48.9

77 32.1 24.3 36.5





#37

Ethyl Acetate

Concen: 20.211 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 43 Resp: 39738

Ion Ratio Lower Upper

43 100

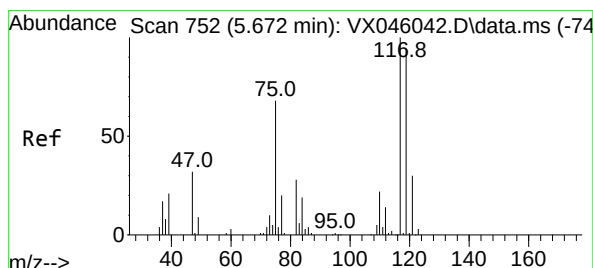
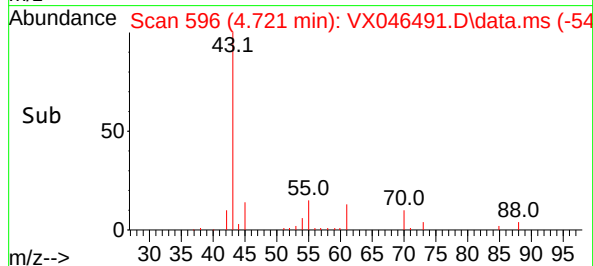
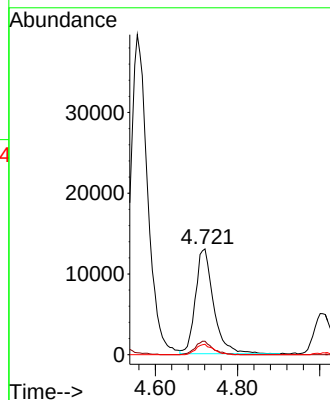
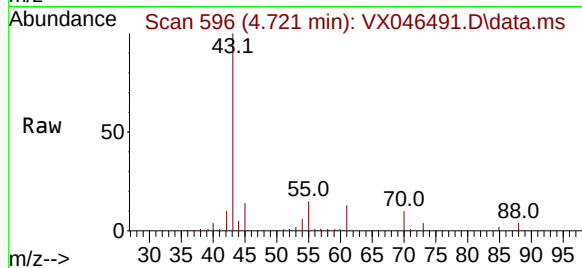
61 12.5 10.3 15.5

70 9.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#38

Carbon Tetrachloride

Concen: 18.402 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

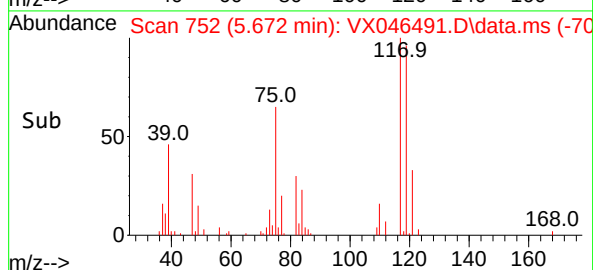
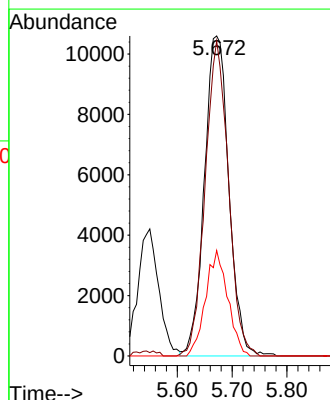
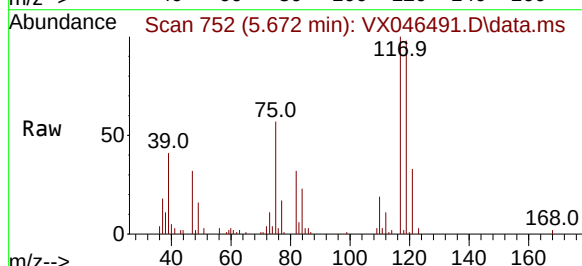
Tgt Ion:117 Resp: 32904

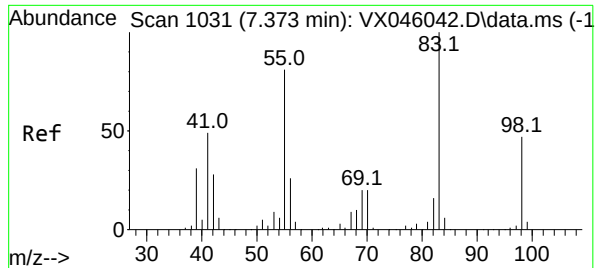
Ion Ratio Lower Upper

117 100

119 98.4 75.2 112.8

121 32.9 24.2 36.4





#39

Methylcyclohexane

Concen: 16.137 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 83 Resp: 3306

Ion Ratio Lower Upper

83 100

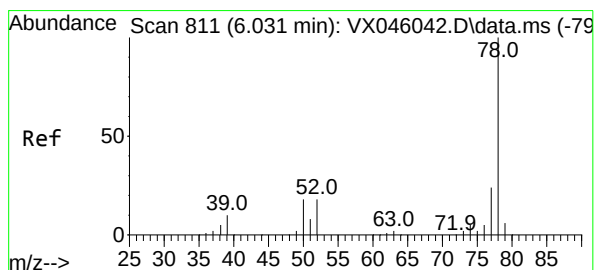
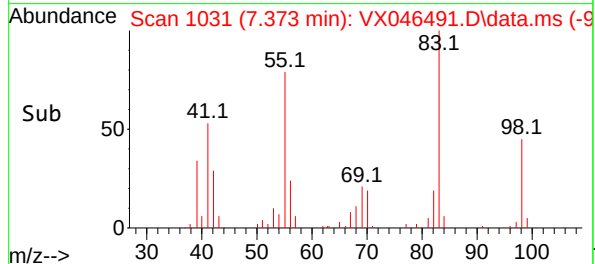
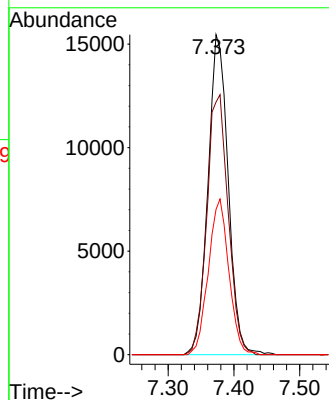
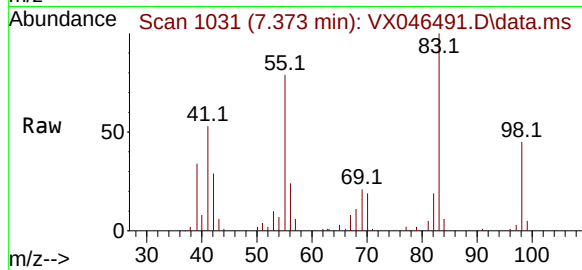
55 78.9 64.7 97.1

98 45.4 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#40

Benzene

Concen: 18.629 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX046491.D

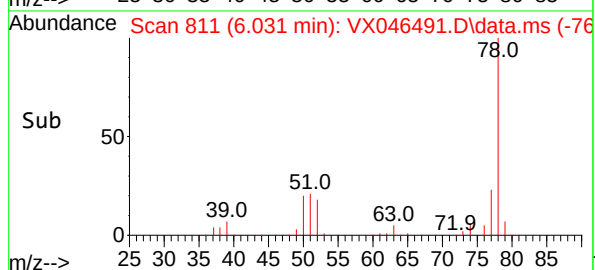
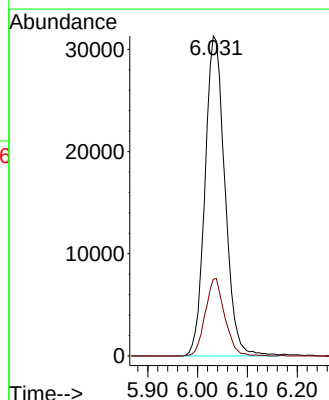
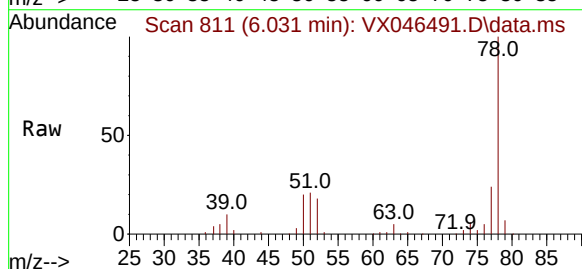
Acq: 04 Jun 2025 11:27

Tgt Ion: 78 Resp: 86835

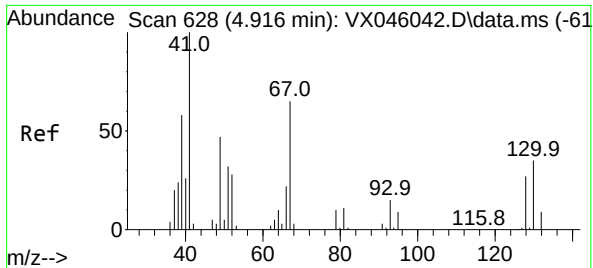
Ion Ratio Lower Upper

78 100

77 24.0 19.0 28.4

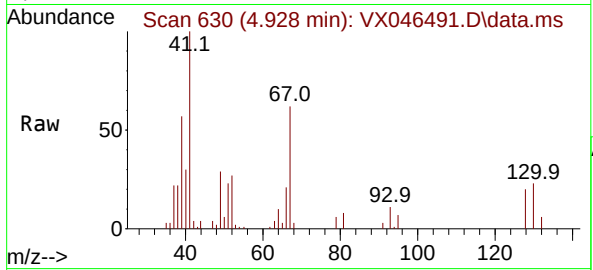






#41  
Methacrylonitrile  
Concen: 22.671 ug/l  
RT: 4.928 min Scan# 61  
Delta R.T. 0.012 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

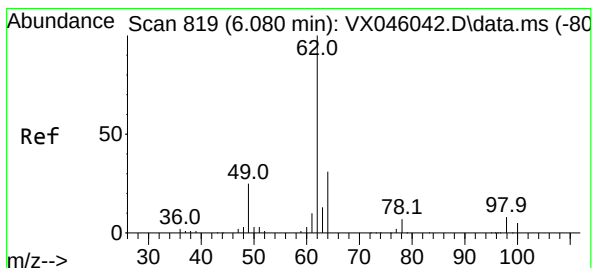
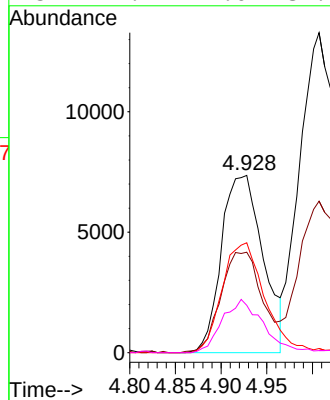
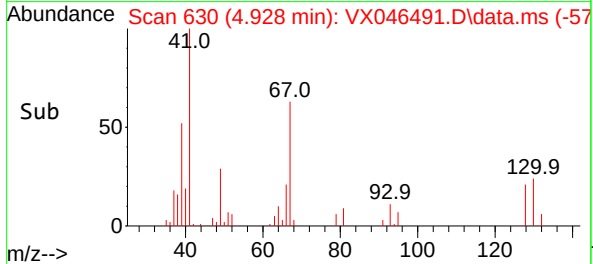
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 41 Resp: 23318  
Ion Ratio Lower Upper  
41 100  
39 55.2 47.2 70.8  
67 63.8 50.7 76.1  
52 29.9 24.6 37.0

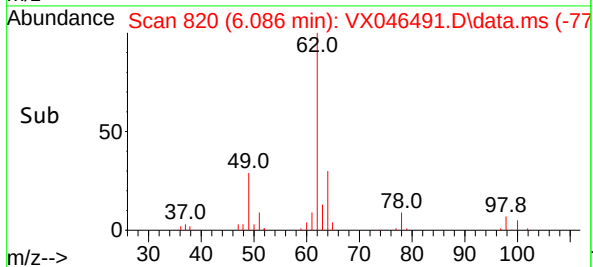
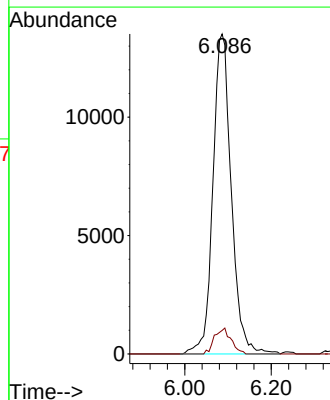
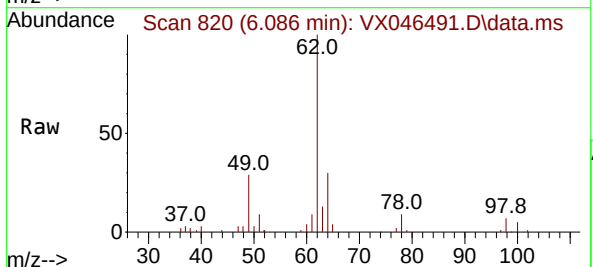
Manual Integrations  
APPROVED

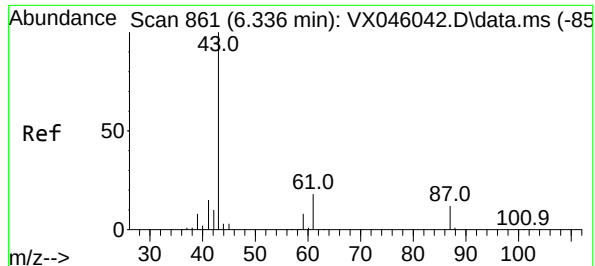
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#42  
1,2-Dichloroethane  
Concen: 19.809 ug/l  
RT: 6.086 min Scan# 820  
Delta R.T. 0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 62 Resp: 39852  
Ion Ratio Lower Upper  
62 100  
98 7.3 0.0 15.2





#43

Isopropyl Acetate

Concen: 21.191 ug/l

RT: 6.342 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 43 Resp: 63564

Ion Ratio Lower Upper

43

100

61

87

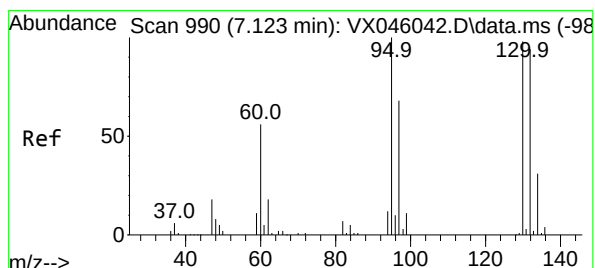
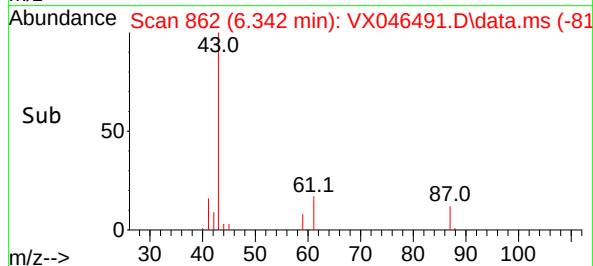
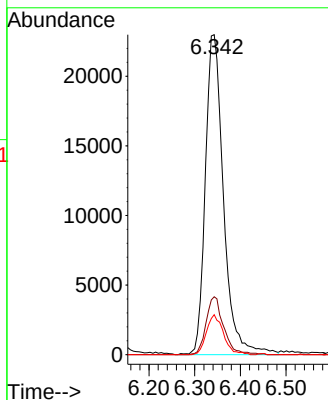
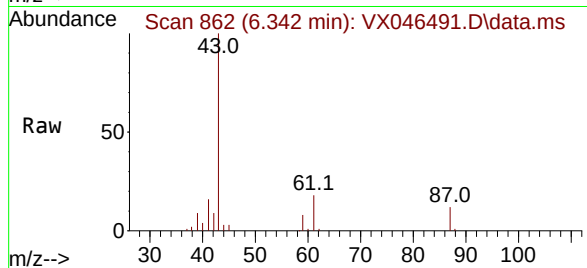
17.5 14.3

21.5

9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#44

Trichloroethene

Concen: 18.361 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Tgt Ion:130 Resp: 20599

Ion Ratio Lower Upper

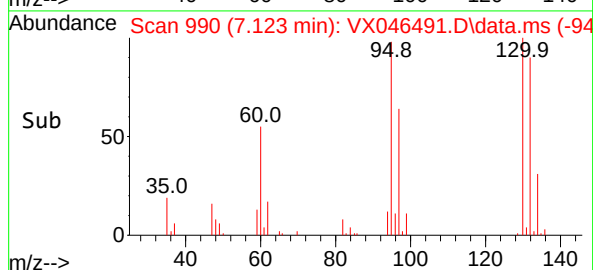
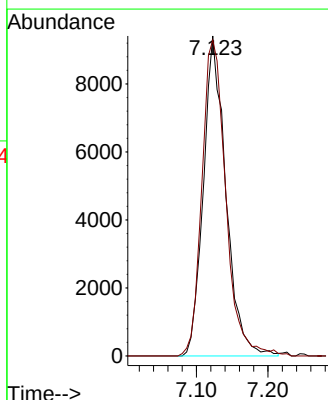
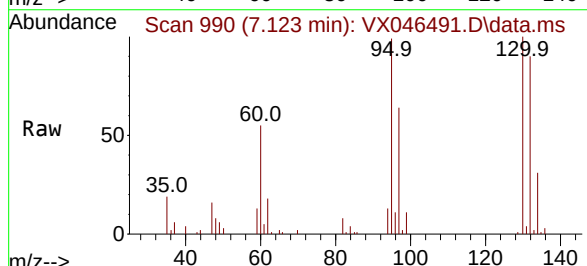
130

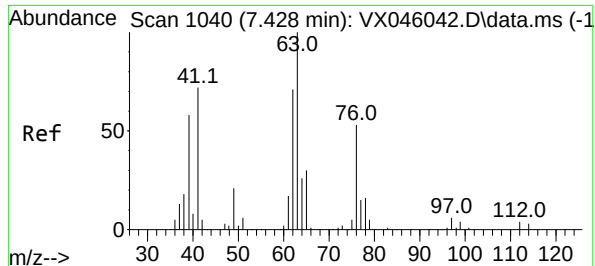
95

100

98.7 0.0

204.2





#45

1,2-Dichloropropane

Concen: 19.810 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 63 Resp: 2296

Ion Ratio Lower Upper

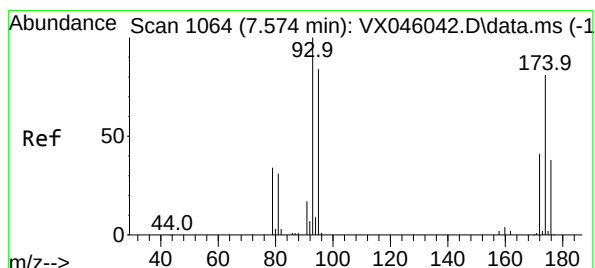
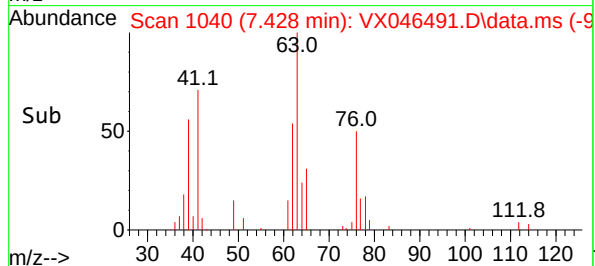
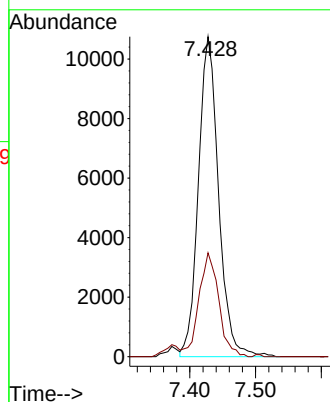
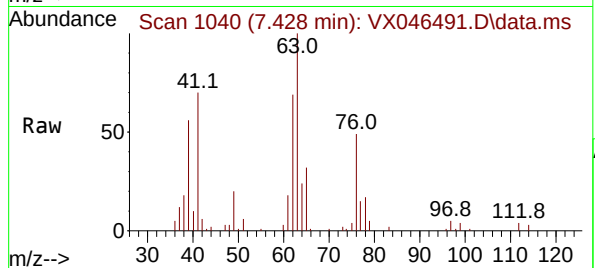
63 100

65 32.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#46

Dibromomethane

Concen: 18.913 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

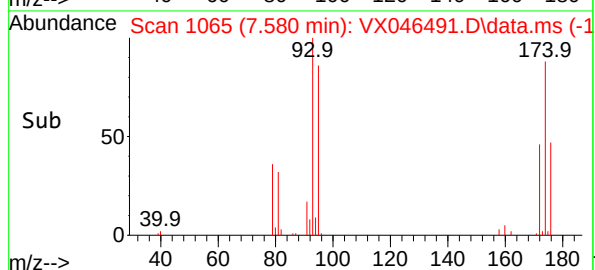
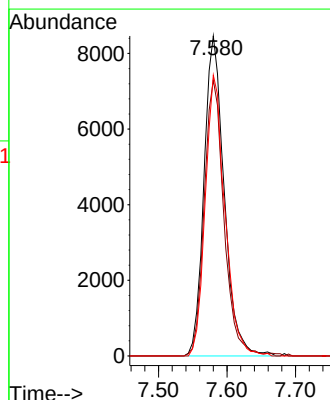
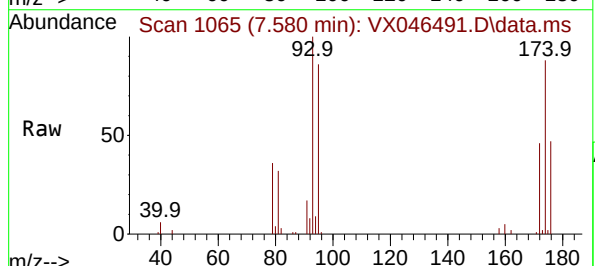
Tgt Ion: 93 Resp: 17290

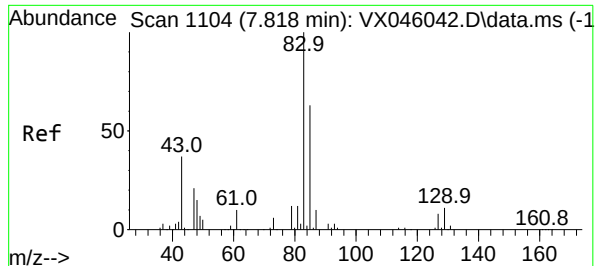
Ion Ratio Lower Upper

93 100

95 84.3 65.6 98.4

174 85.7 68.2 102.2





#47

Bromodichloromethane

Concen: 19.645 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

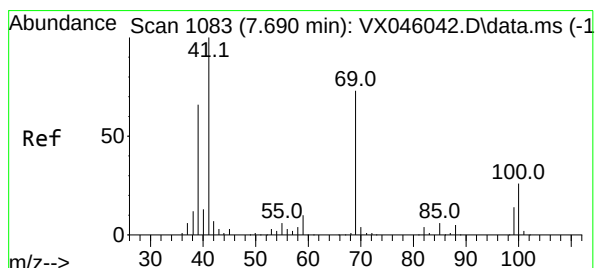
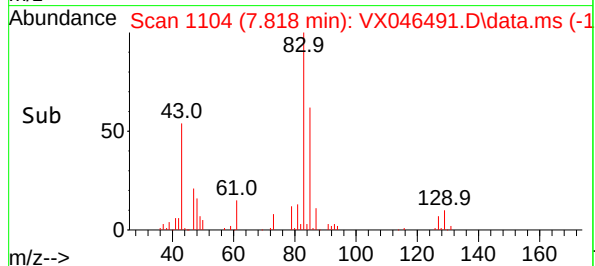
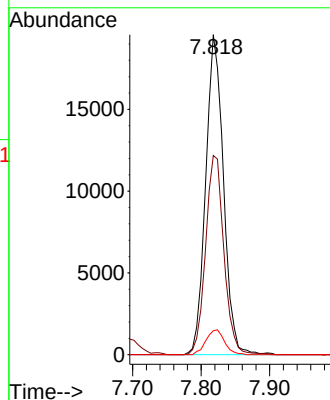
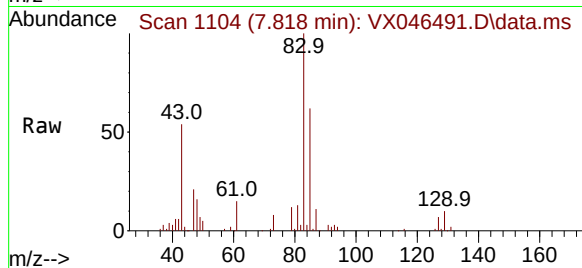
VX0604WBS01

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 3537  |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 62.2     | 50.5 75.7   |
| 127 7.5     | 6.5 9.7     |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#48

Methyl methacrylate

Concen: 21.158 ug/l

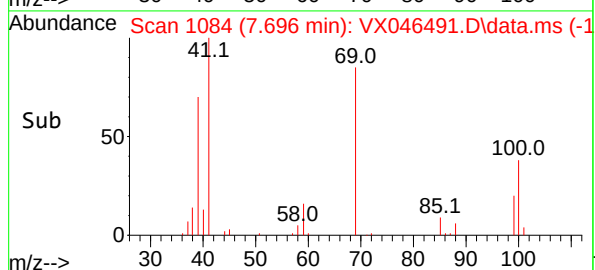
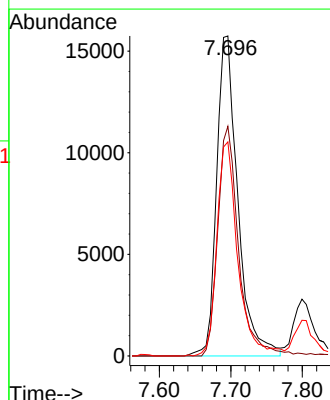
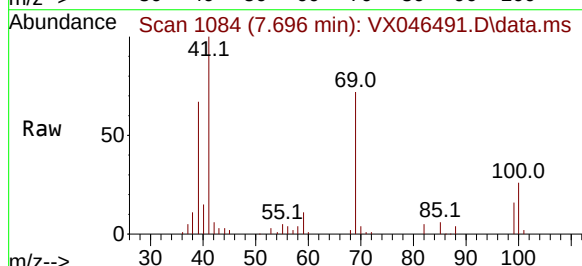
RT: 7.696 min Scan# 1084

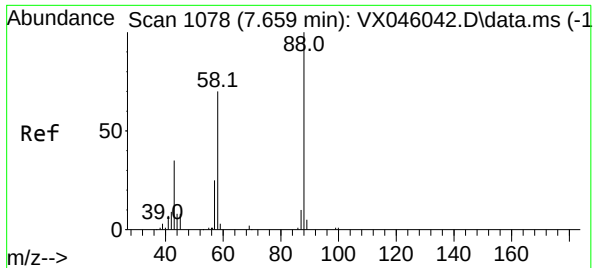
Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 32412 |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 71.1     | 58.5 87.7   |
| 39 66.4     | 51.7 77.5   |





#49

1,4-Dioxane

Concen: 462.828 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 88 Resp: 13462

Ion Ratio Lower Upper

88 100

43 39.1 33.4 50.2

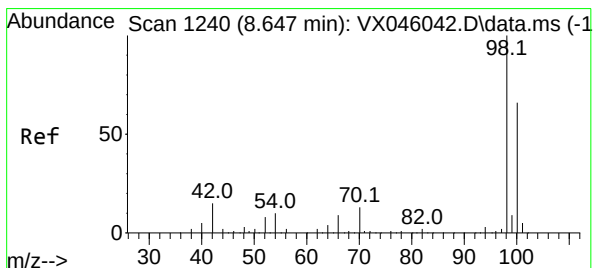
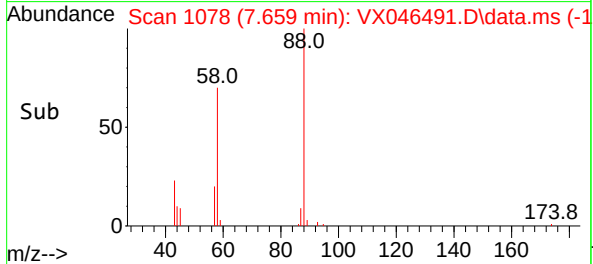
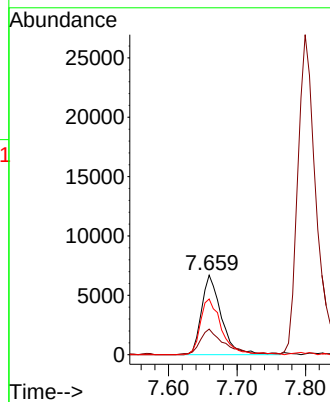
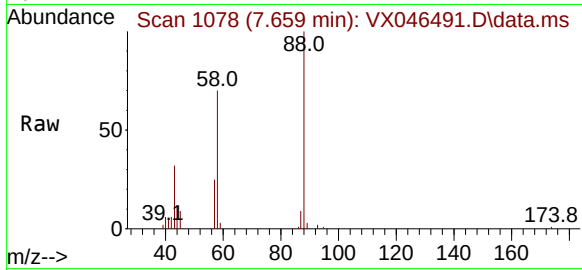
58 73.1 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025

Supervised By :Semsettin Yesilyurt 06/05/2025



#50

Toluene-d8

Concen: 47.253 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX046491.D

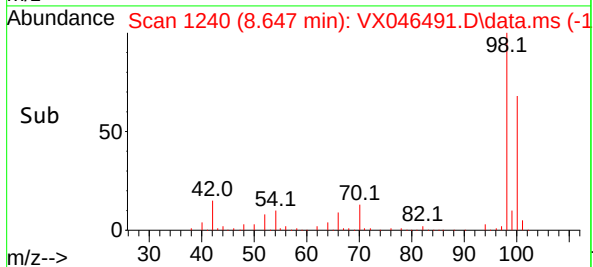
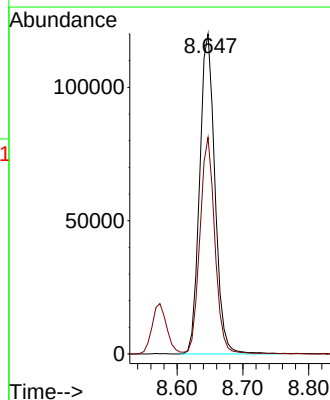
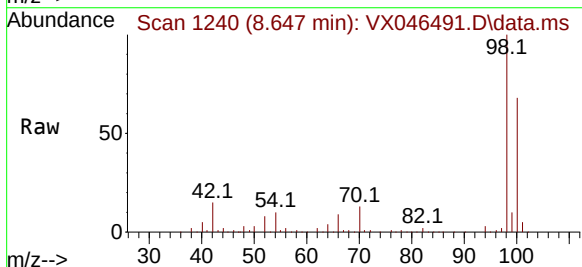
Acq: 04 Jun 2025 11:27

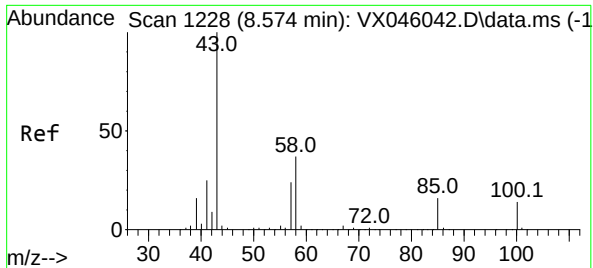
Tgt Ion: 98 Resp: 193713

Ion Ratio Lower Upper

98 100

100 66.1 53.5 80.3





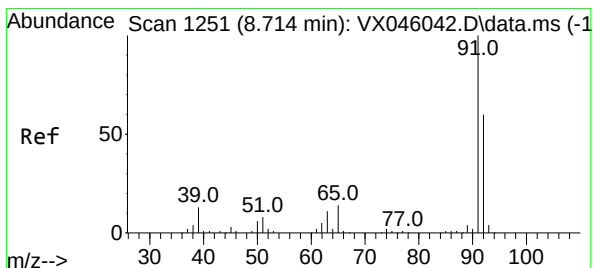
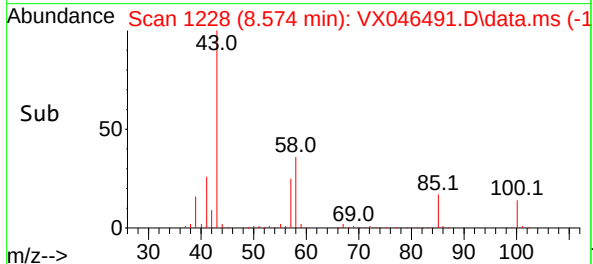
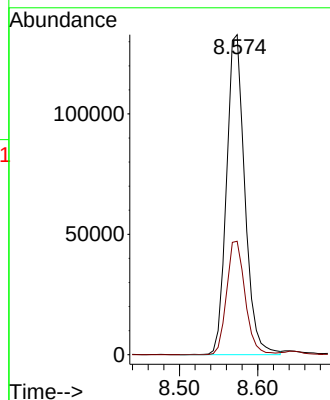
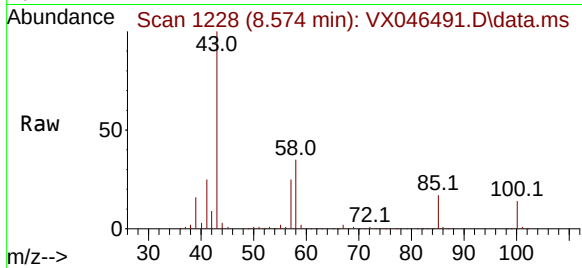
#51  
4-Methyl-2-Pentanone  
Concen: 108.282 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 43 Resp: 215594  
Ion Ratio Lower Upper  
43 100  
58 35.9 28.9 43.3

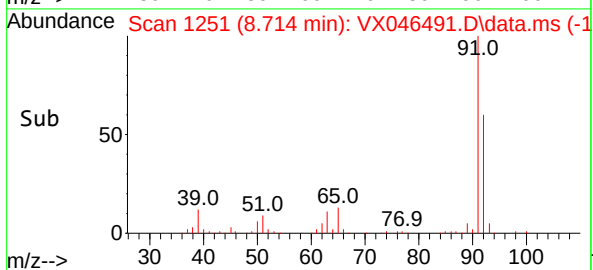
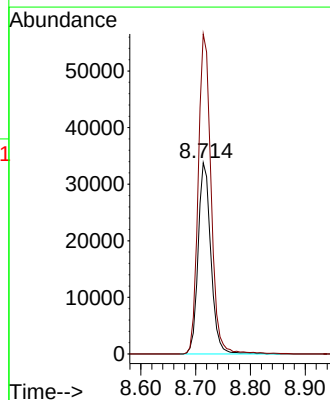
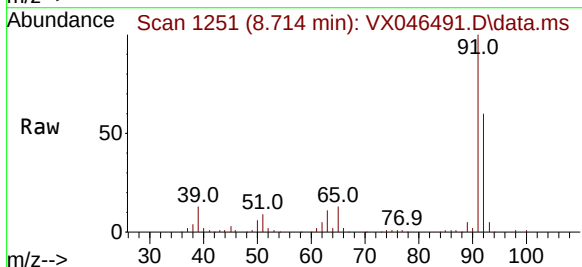
Manual Integrations  
APPROVED

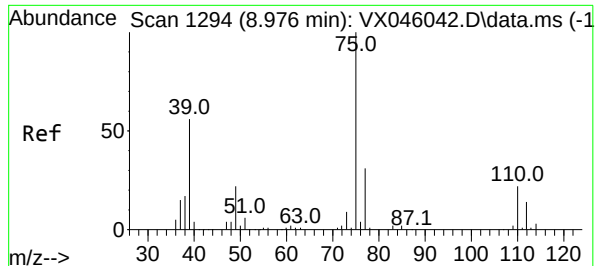
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#52  
Toluene  
Concen: 19.143 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 92 Resp: 54715  
Ion Ratio Lower Upper  
92 100  
91 168.9 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.148 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 75 Resp: 3064

Ion Ratio Lower Upper

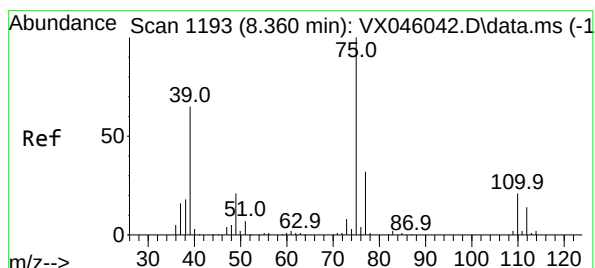
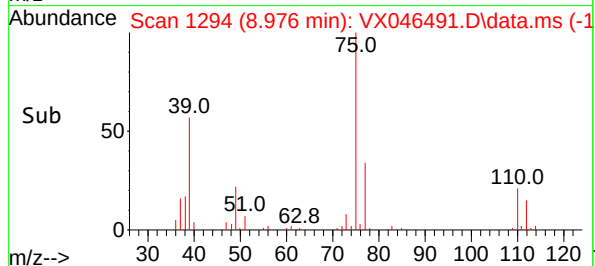
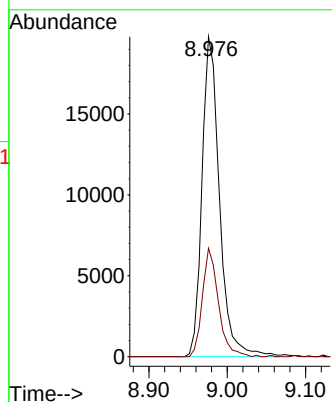
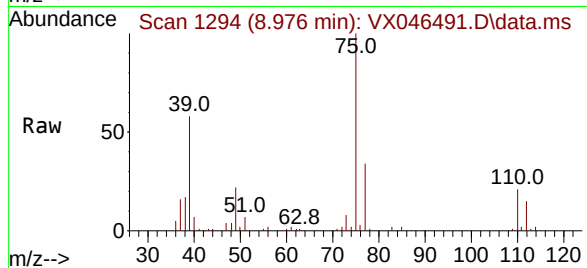
75 100

77 33.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#54

cis-1,3-Dichloropropene

Concen: 19.420 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

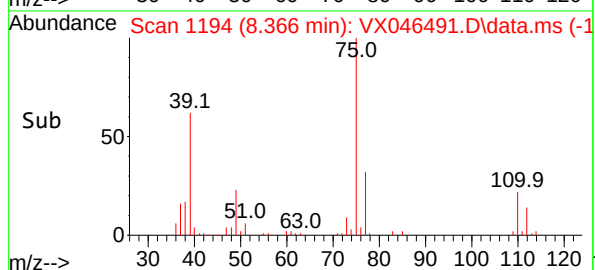
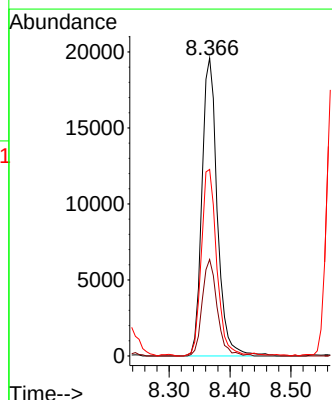
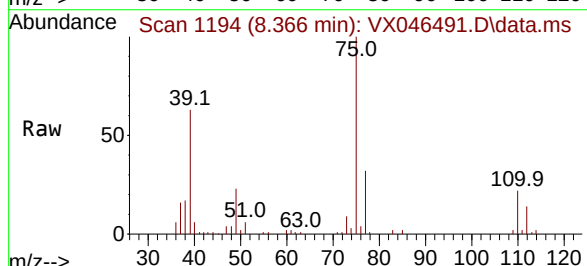
Tgt Ion: 75 Resp: 34352

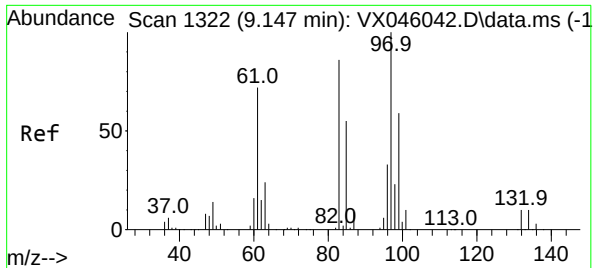
Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.0

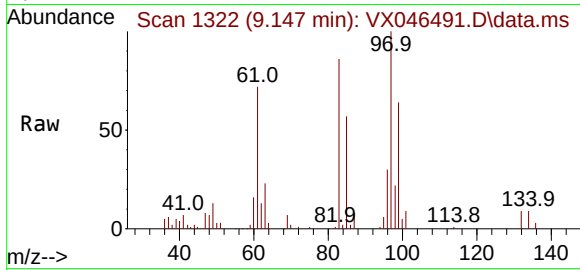
39 62.6 52.2 78.4





#55  
1,1,2-Trichloroethane  
Concen: 20.509 ug/l  
RT: 9.147 min Scan# 1322  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

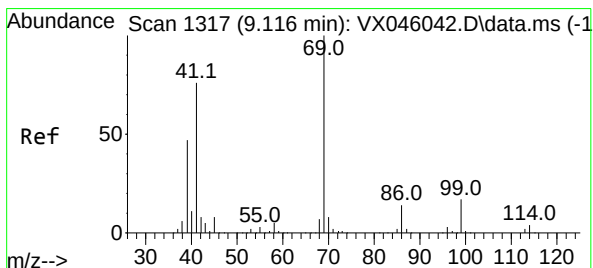
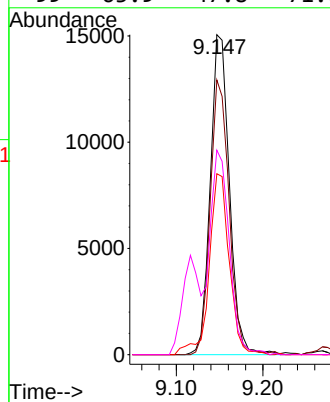
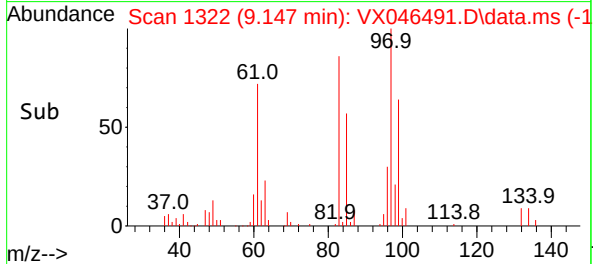
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 97 Resp: 23114  
Ion Ratio Lower Upper  
97 100  
83 85.8 69.0 103.6  
85 56.1 44.3 66.5  
99 63.9 47.8 71.6

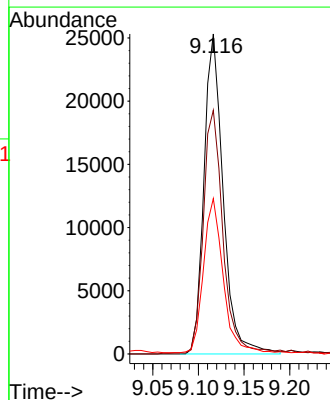
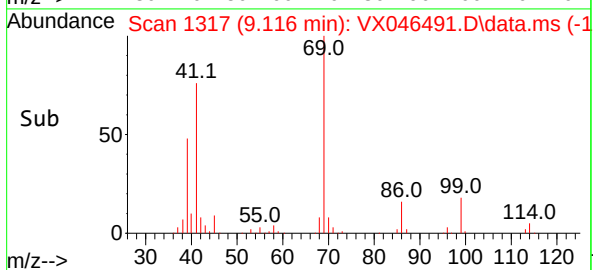
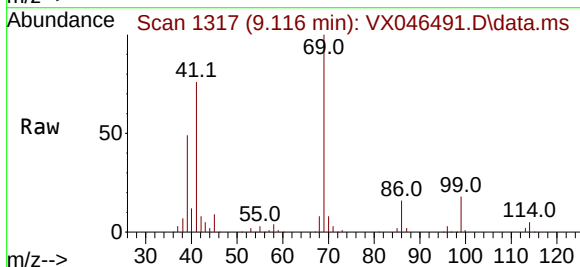
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

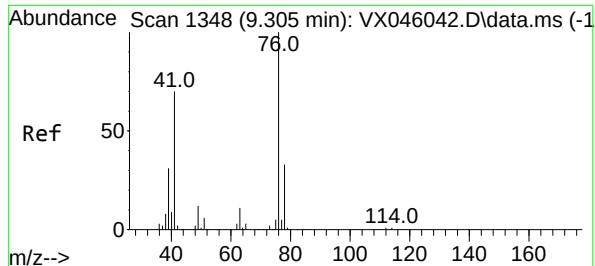


#56  
Ethyl methacrylate  
Concen: 20.636 ug/l  
RT: 9.116 min Scan# 1317  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 69 Resp: 37067  
Ion Ratio Lower Upper  
69 100  
41 79.5 60.8 91.2  
39 49.5 39.0 58.6







#57

1,3-Dichloropropane

Concen: 19.578 ug/l

RT: 9.305 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 76 Resp: 3962

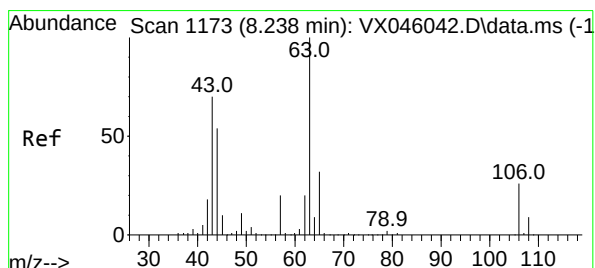
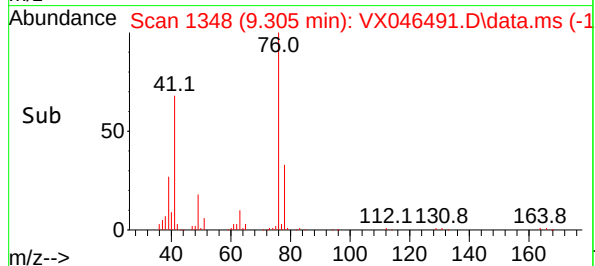
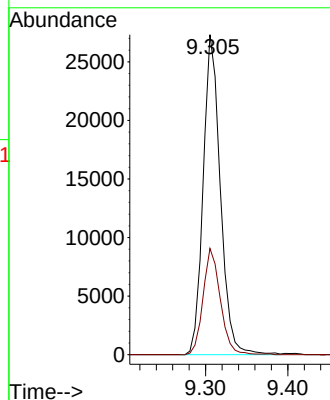
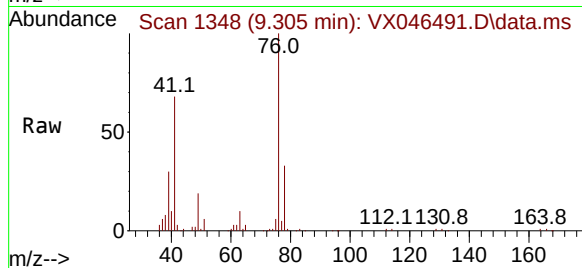
Ion Ratio Lower Upper

76 100

78 33.4 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#58

2-Chloroethyl Vinyl ether

Concen: 106.806 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX046491.D

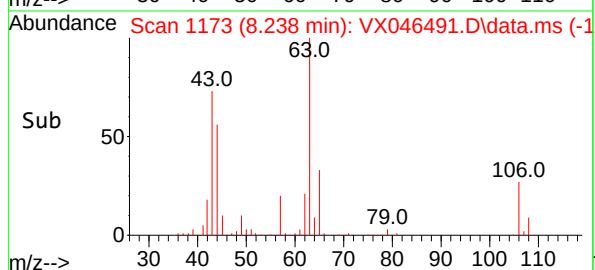
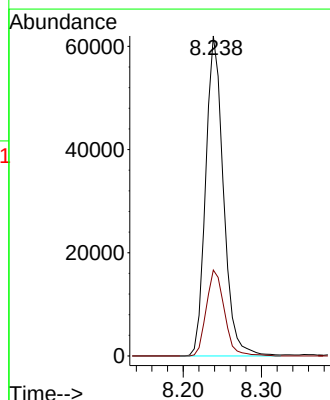
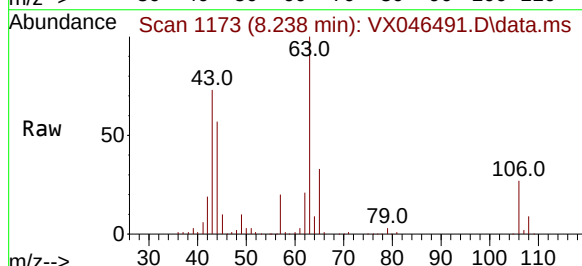
Acq: 04 Jun 2025 11:27

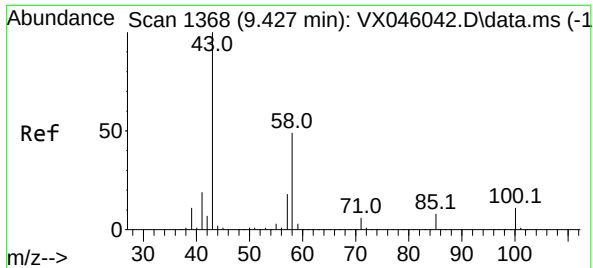
Tgt Ion: 63 Resp: 97808

Ion Ratio Lower Upper

63 100

106 27.2 21.5 32.3





#59

2-Hexanone

Concen: 110.961 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 43 Resp: 16345

Ion Ratio Lower Upper

43 100

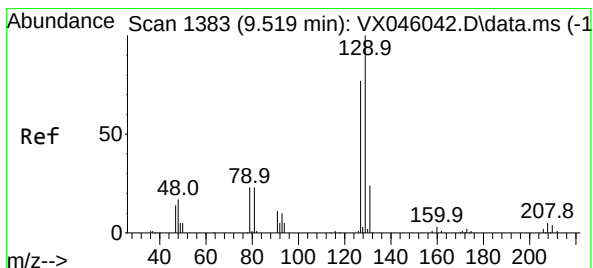
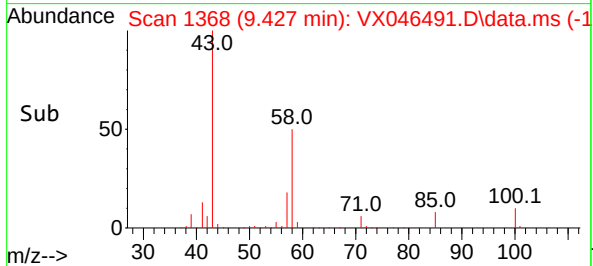
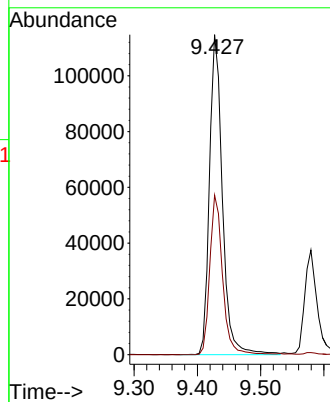
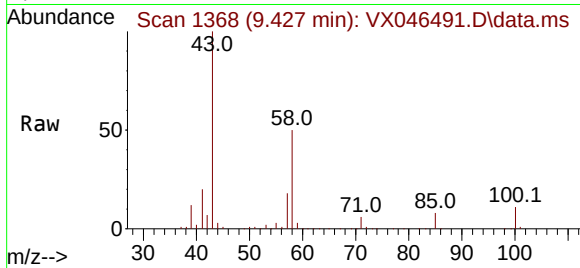
58 49.6 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025

Supervised By :Semsettin Yesilyurt 06/05/2025



#60

Dibromochloromethane

Concen: 20.474 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX046491.D

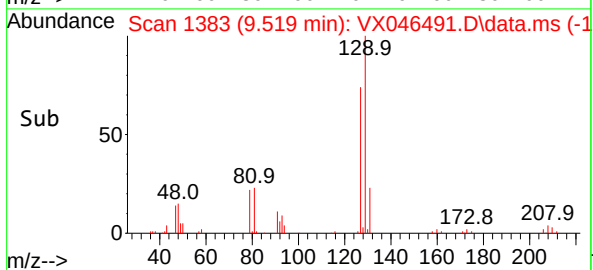
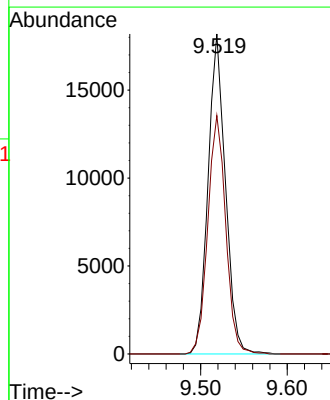
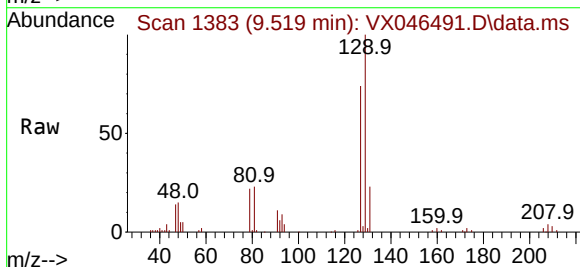
Acq: 04 Jun 2025 11:27

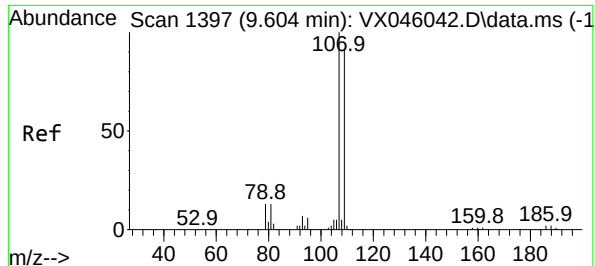
Tgt Ion:129 Resp: 25342

Ion Ratio Lower Upper

129 100

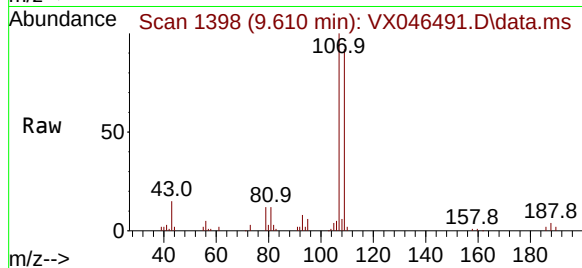
127 76.9 39.3 117.8





#61  
1,2-Dibromoethane  
Concen: 20.086 ug/l  
RT: 9.610 min Scan# 1397  
Delta R.T. 0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

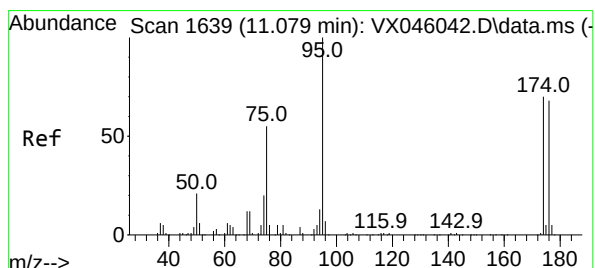
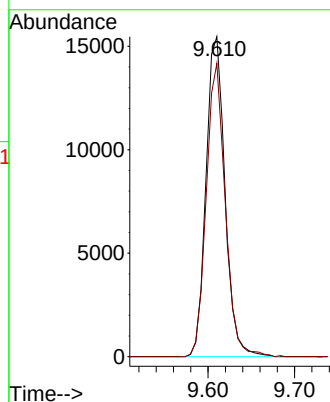
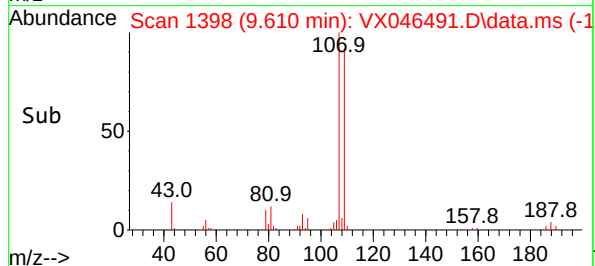
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:107 Resp: 23528  
Ion Ratio Lower Upper  
107 100  
109 91.9 73.3 109.9

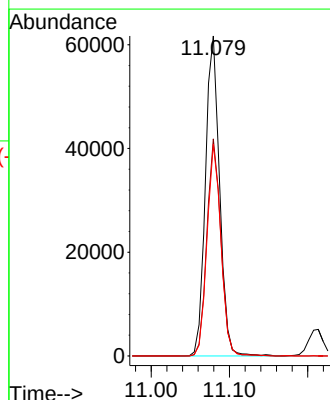
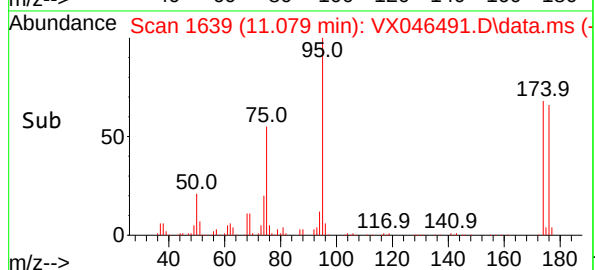
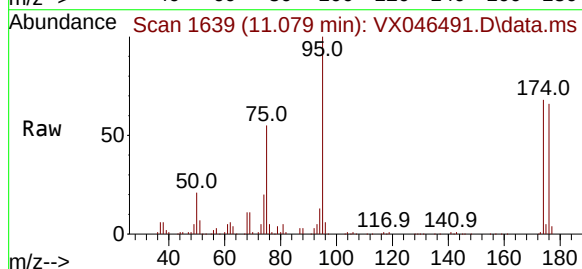
Manual Integrations  
APPROVED

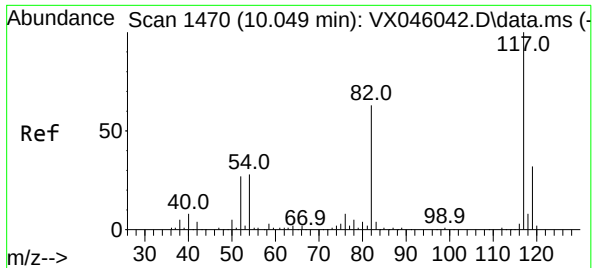
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#62  
4-Bromofluorobenzene  
Concen: 49.102 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

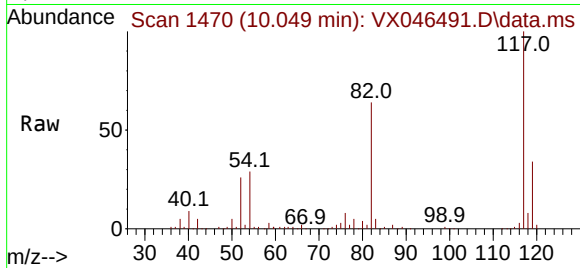
Tgt Ion: 95 Resp: 77214  
Ion Ratio Lower Upper  
95 100  
174 67.0 0.0 135.8  
176 64.9 0.0 131.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

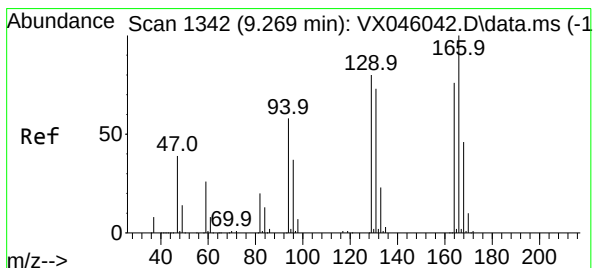
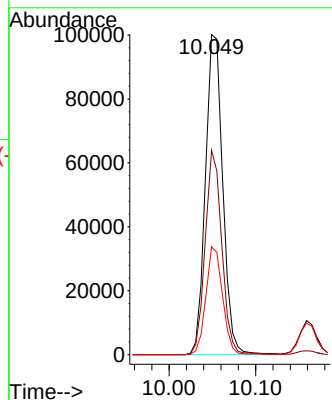
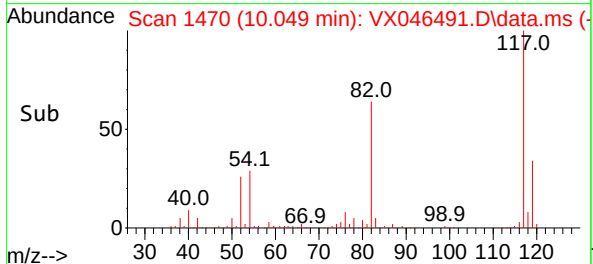
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:117 Resp: 13945  
Ion Ratio Lower Upper  
117 100  
82 63.8 50.6 76.0  
119 33.8 25.8 38.6

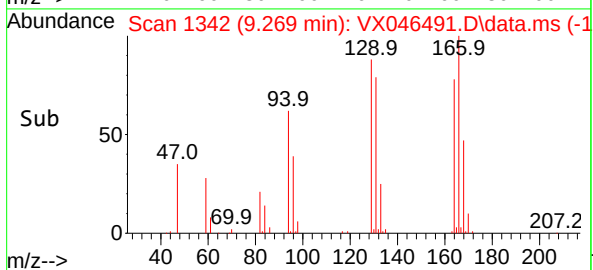
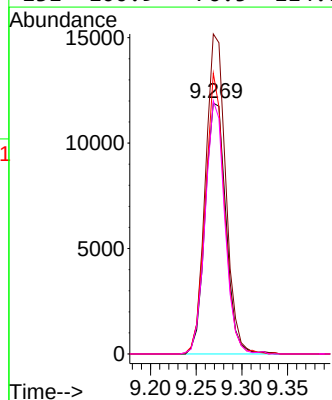
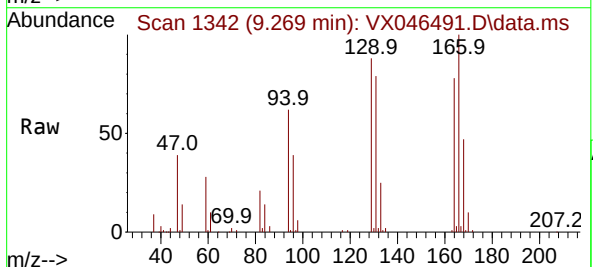
Manual Integrations  
APPROVED

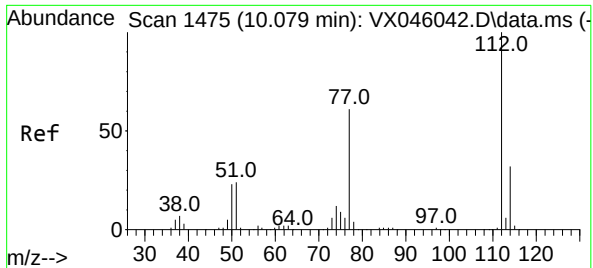
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#64  
Tetrachloroethene  
Concen: 18.968 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

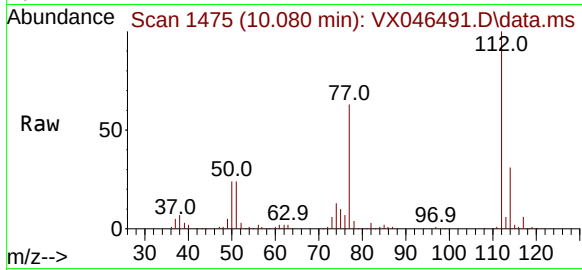
Tgt Ion:164 Resp: 18715  
Ion Ratio Lower Upper  
164 100  
166 127.6 105.0 157.6  
129 111.9 83.5 125.3  
131 100.9 76.5 114.7





#65  
Chlorobenzene  
Concen: 19.461 ug/l  
RT: 10.080 min Scan# 1475  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

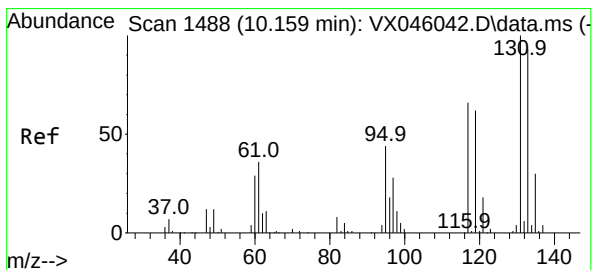
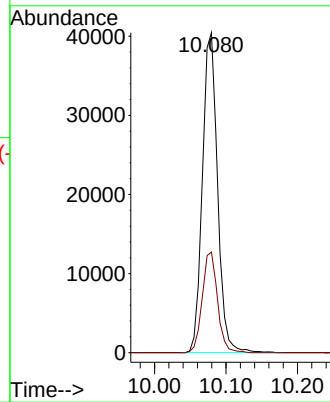
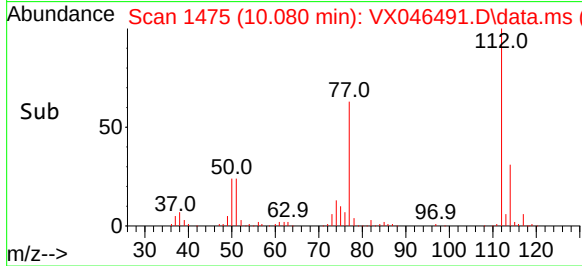
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:112 Resp: 5939  
Ion Ratio Lower Upper  
112 100  
114 31.5 25.4 38.2

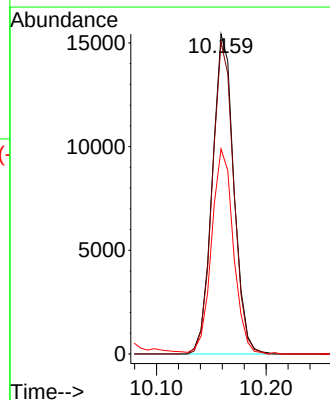
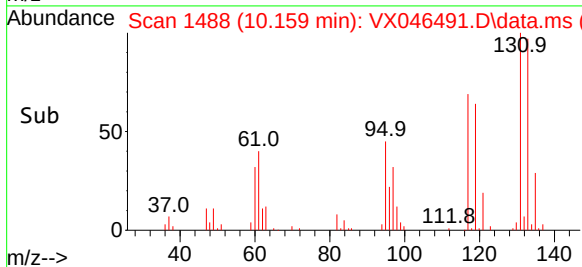
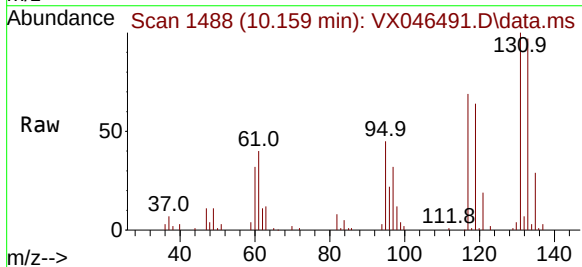
Manual Integrations  
APPROVED

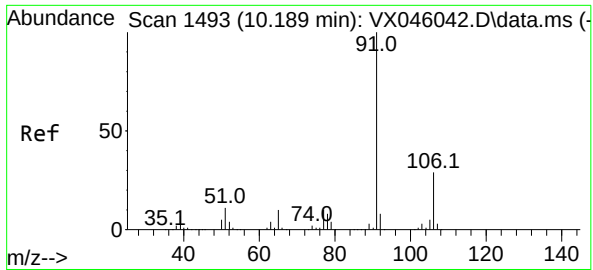
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.209 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

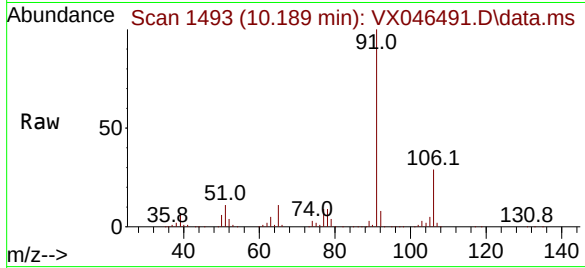
Tgt Ion:131 Resp: 21063  
Ion Ratio Lower Upper  
131 100  
133 96.8 47.3 141.9  
119 64.7 31.6 95.0





#67  
Ethyl Benzene  
Concen: 19.642 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

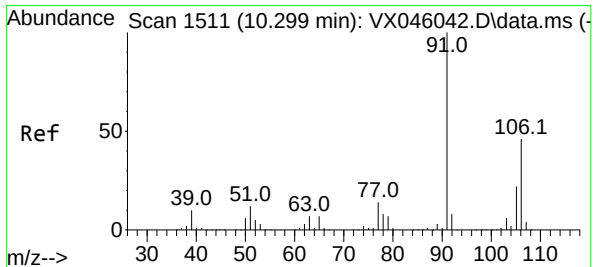
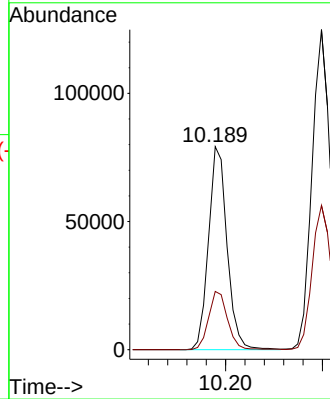
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 91 Resp: 105678  
Ion Ratio Lower Upper  
91 100  
106 28.7 23.4 35.2

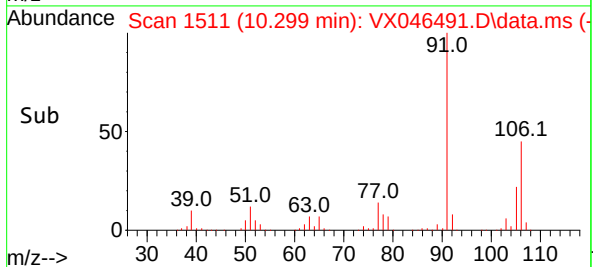
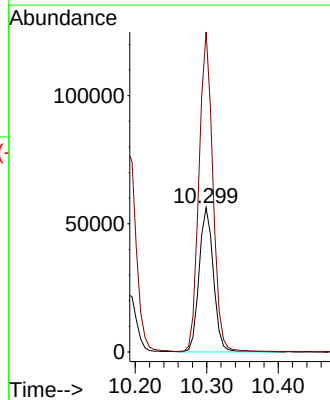
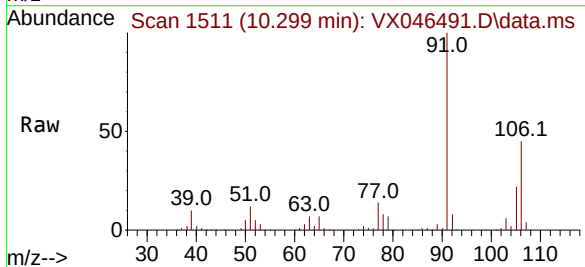
Manual Integrations  
**APPROVED**

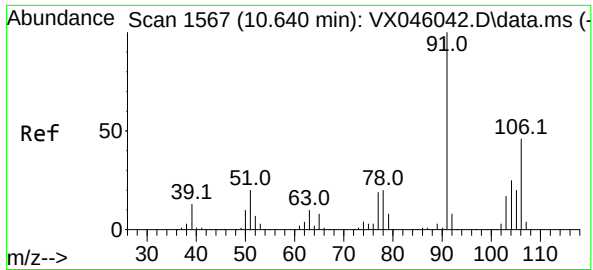
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#68  
m/p-Xylenes  
Concen: 39.802 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion:106 Resp: 78322  
Ion Ratio Lower Upper  
106 100  
91 215.1 171.2 256.8





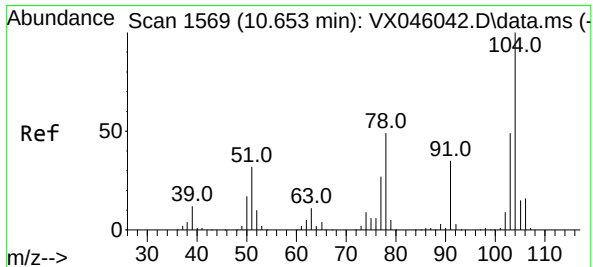
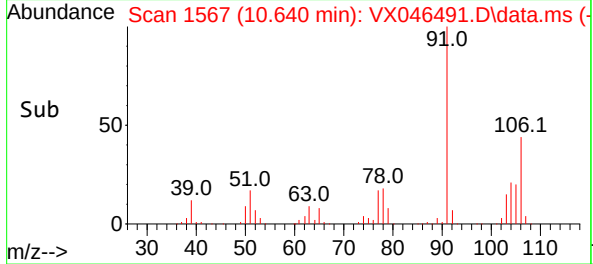
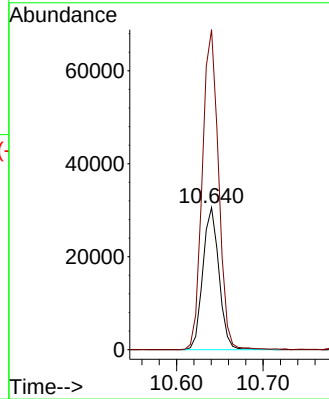
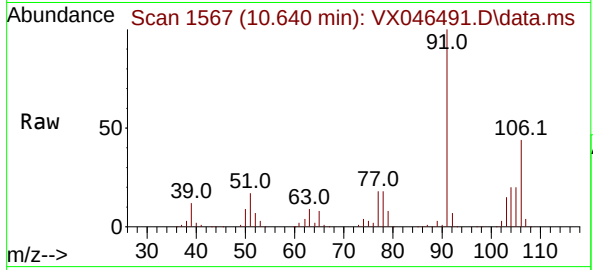
#69  
o-Xylene  
Concen: 20.613 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion:106 Resp: 3954  
Ion Ratio Lower Upper  
106 100  
91 227.1 112.7 338.1

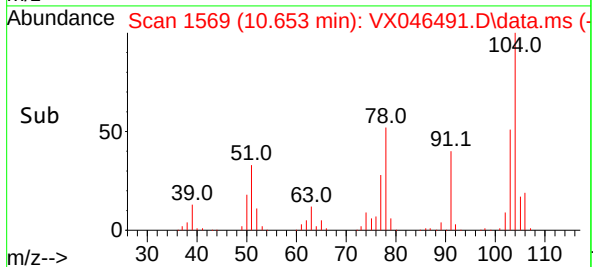
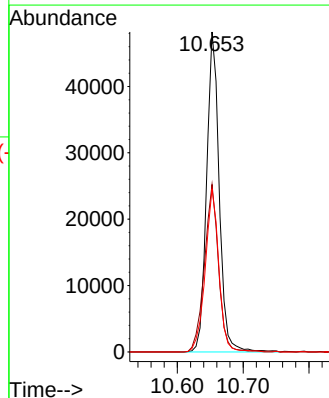
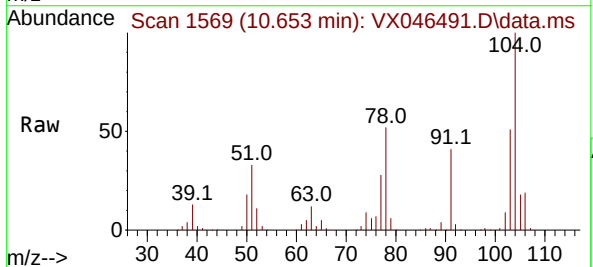
Manual Integrations  
**APPROVED**

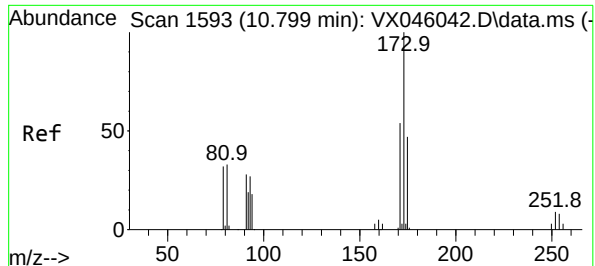
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#70  
Styrene  
Concen: 20.492 ug/l  
RT: 10.653 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion:104 Resp: 64399  
Ion Ratio Lower Upper  
104 100  
78 58.2 45.7 68.5  
103 55.0 43.7 65.5





#71

Bromoform

Concen: 20.047 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion:173 Resp: 1568

Ion Ratio Lower Upper

173 100

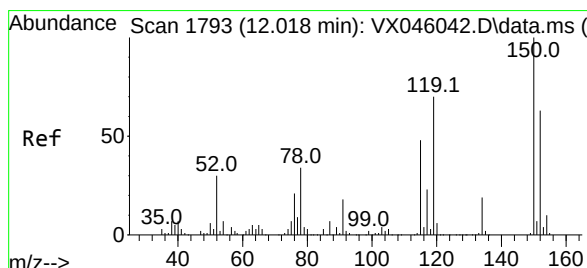
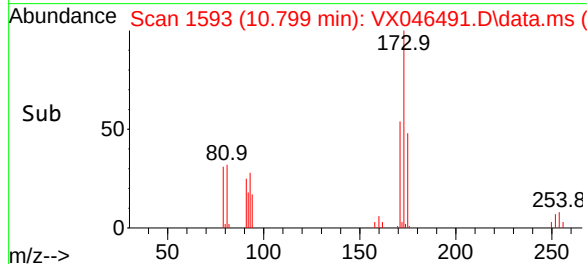
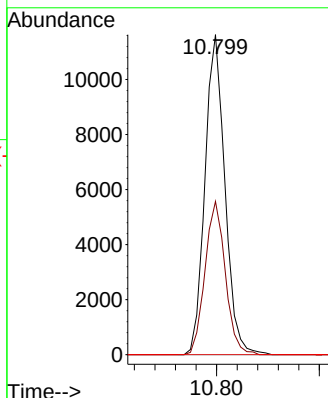
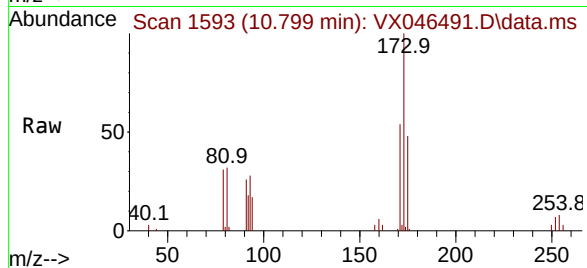
175 48.7 23.4 70.0

254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

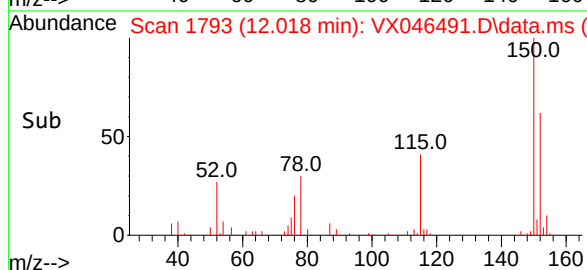
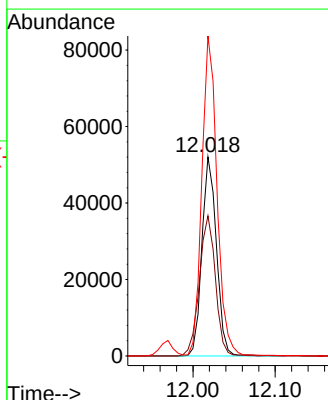
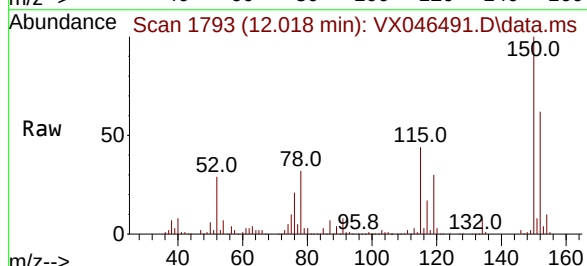
Tgt Ion:152 Resp: 63937

Ion Ratio Lower Upper

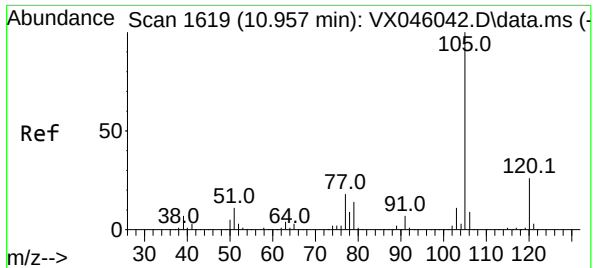
152 100

115 77.5 46.9 140.7

150 167.6 0.0 351.0







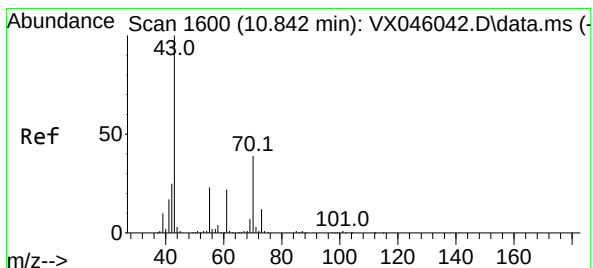
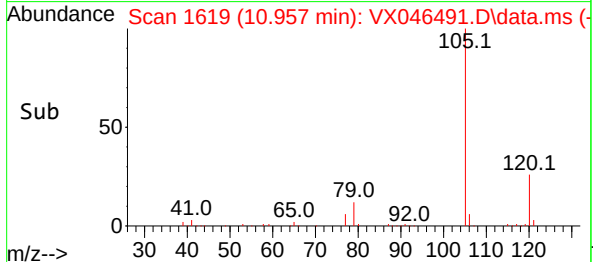
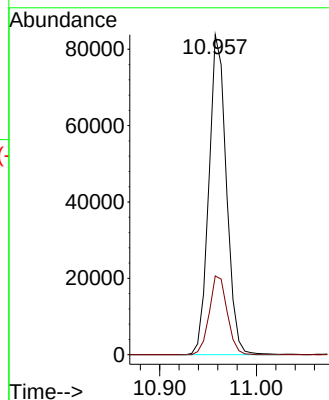
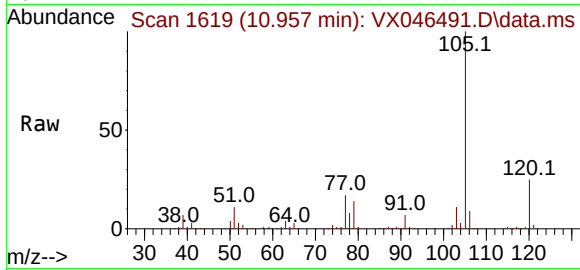
#73  
Isopropylbenzene  
Concen: 21.209 ug/l  
RT: 10.957 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 105 Resp: 10557  
Ion Ratio Lower Upper  
105 100  
120 25.2 12.8 38.4

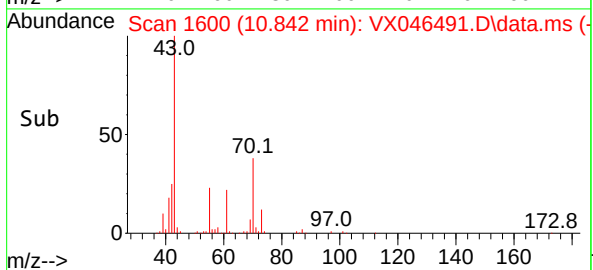
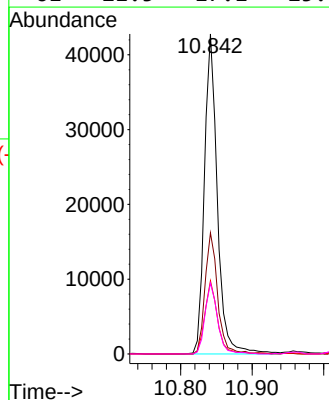
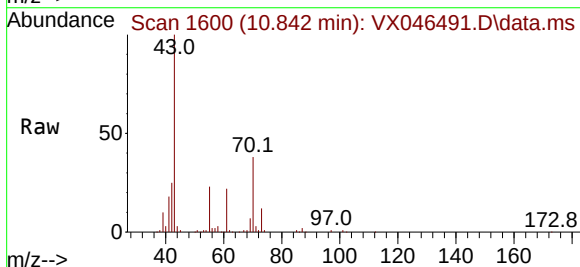
Manual Integrations  
APPROVED

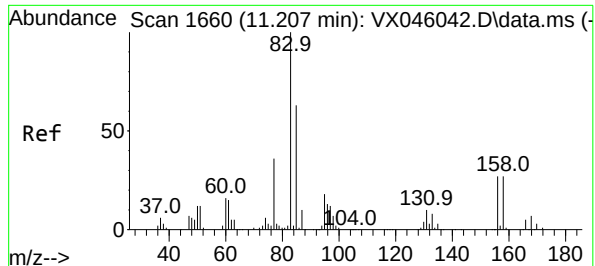
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#74  
N-ethyl acetate  
Concen: 21.810 ug/l  
RT: 10.842 min Scan# 1600  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 43 Resp: 53645  
Ion Ratio Lower Upper  
43 100  
70 37.4 30.9 46.3  
55 22.5 18.7 28.1  
61 21.5 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.336 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 83 Resp: 37218

Ion Ratio Lower Upper

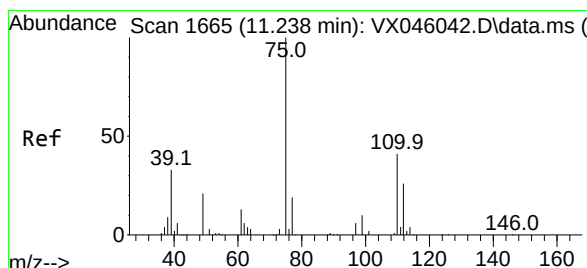
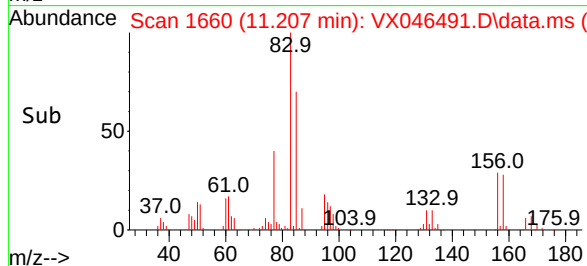
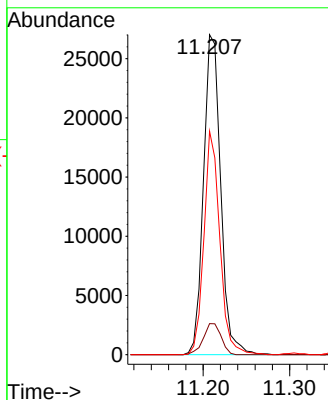
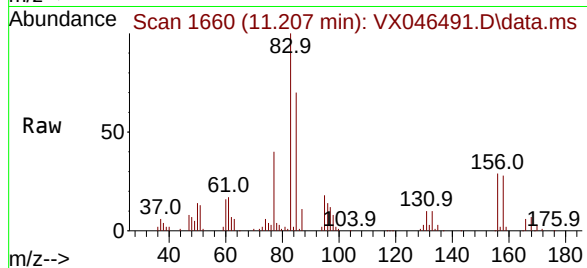
83 100

131 10.1 5.0 14.9

85 64.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#76

1,2,3-Trichloropropane

Concen: 21.162 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX046491.D

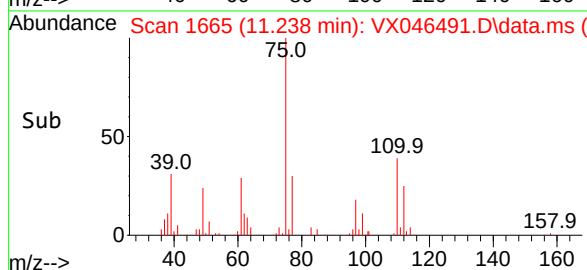
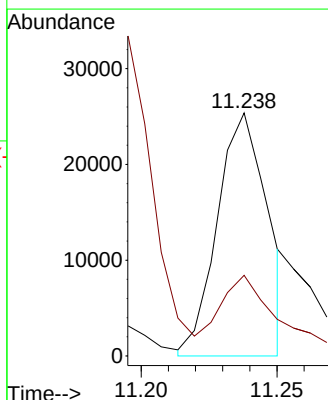
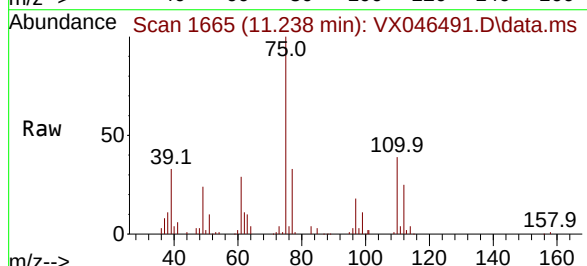
Acq: 04 Jun 2025 11:27

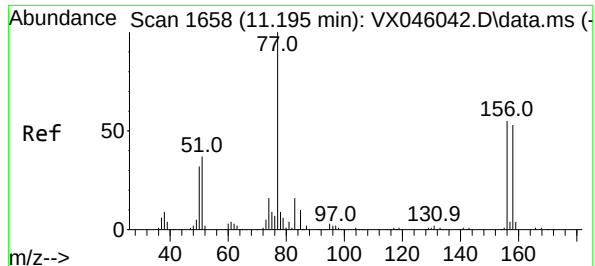
Tgt Ion: 75 Resp: 32568

Ion Ratio Lower Upper

75 100

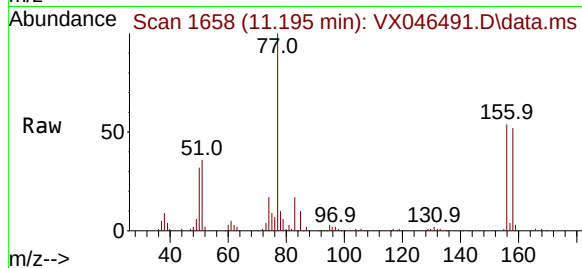
77 39.7 20.5 61.5





#77  
Bromobenzene  
Concen: 20.328 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

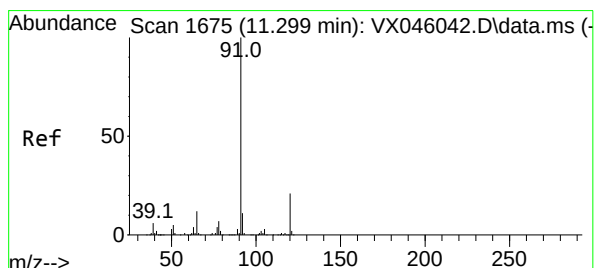
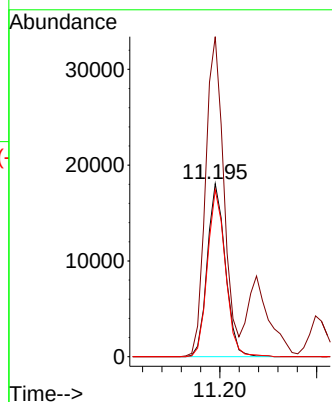
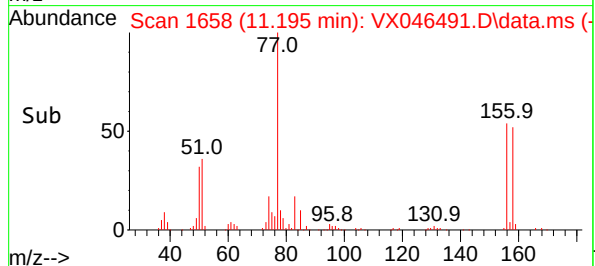
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:156 Resp: 23492  
Ion Ratio Lower Upper  
156 100  
77 187.5 92.8 278.3  
158 95.8 48.8 146.3

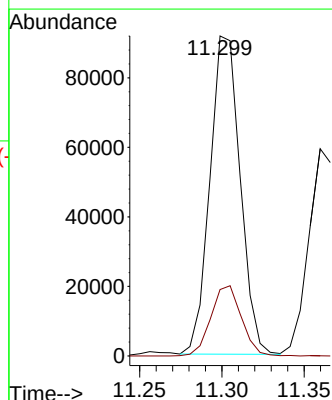
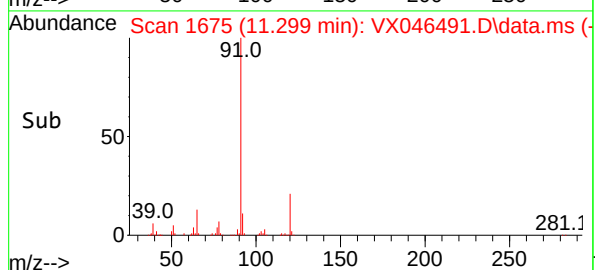
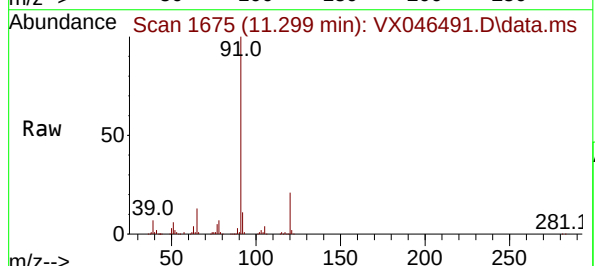
Manual Integrations  
**APPROVED**

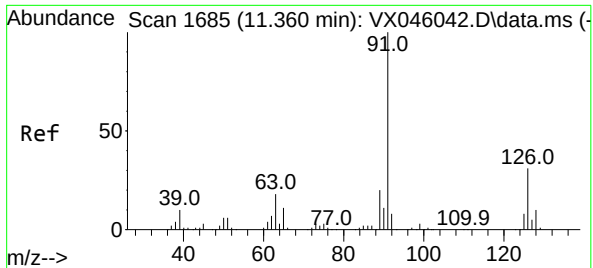
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#78  
n-propylbenzene  
Concen: 20.277 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 91 Resp: 117360  
Ion Ratio Lower Upper  
91 100  
120 22.3 10.8 32.4





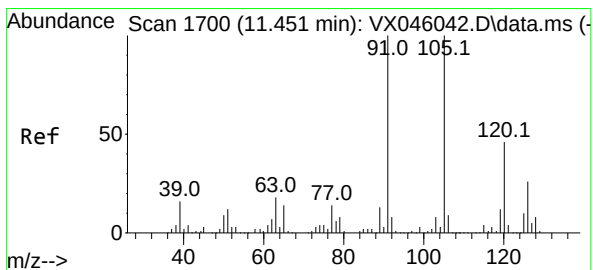
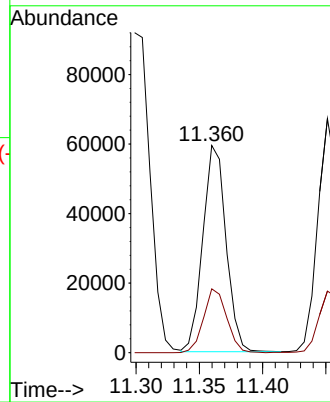
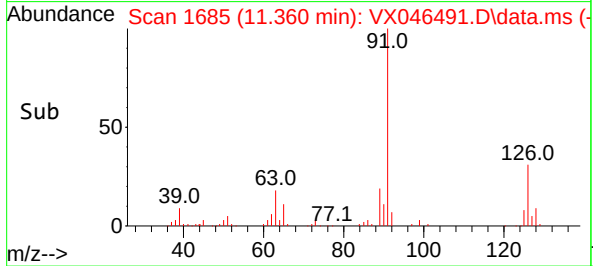
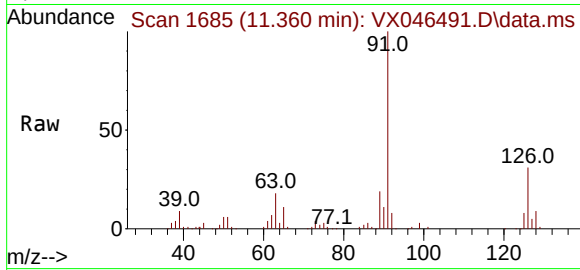
#79  
2-Chlorotoluene  
Concen: 20.296 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01

Tgt Ion: 91 Resp: 75768  
Ion Ratio Lower Upper  
91 100  
126 30.9 15.6 46.7

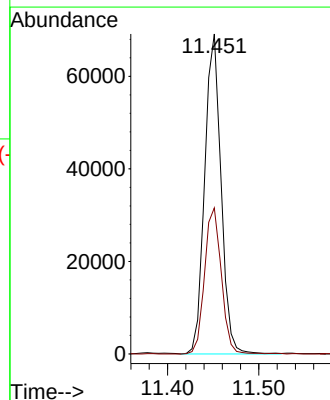
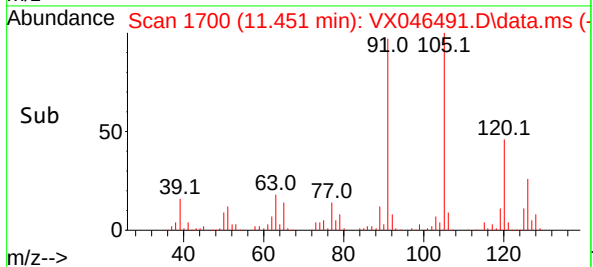
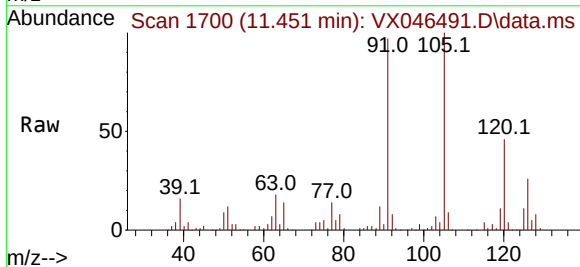
Manual Integrations  
APPROVED

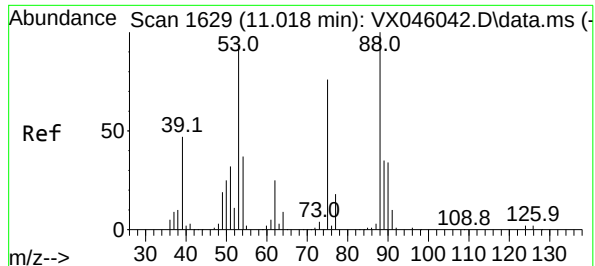
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#80  
1,3,5-Trimethylbenzene  
Concen: 20.642 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

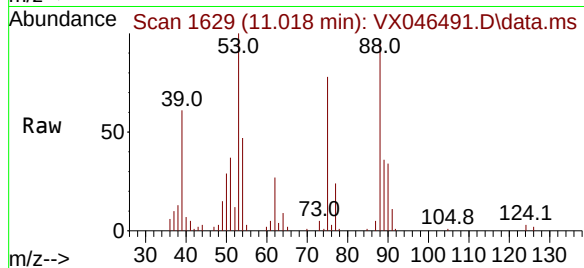
Tgt Ion:105 Resp: 85839  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.1 69.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 20.143 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

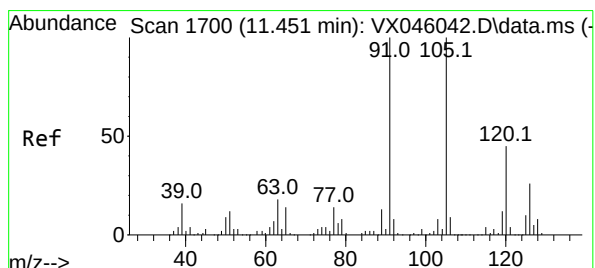
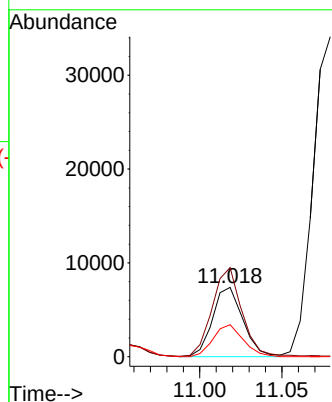
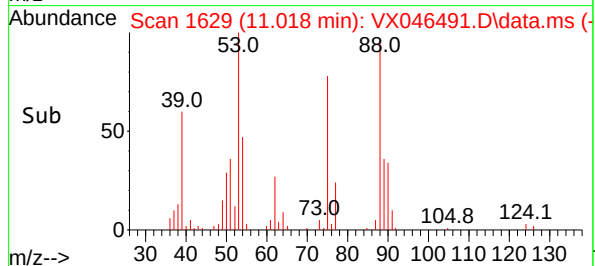
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion: 75 Resp: 952  
Ion Ratio Lower Upper  
75 100  
53 126.6 100.5 150.7  
89 45.6 37.0 55.6

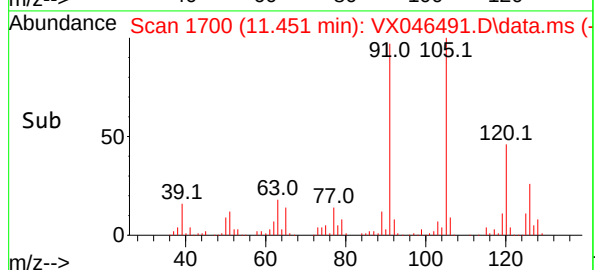
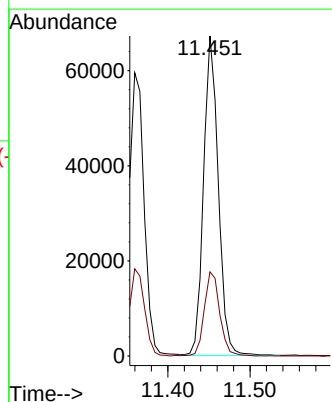
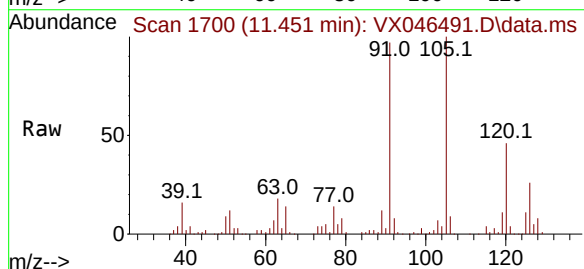
Manual Integrations  
APPROVED

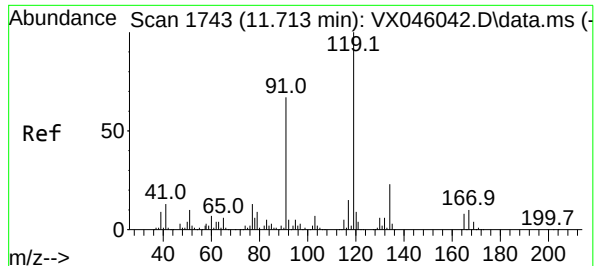
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#82  
4-Chlorotoluene  
Concen: 20.186 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion: 91 Resp: 83569  
Ion Ratio Lower Upper  
91 100  
126 27.7 13.3 39.8





#83

tert-Butylbenzene

Concen: 20.930 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion:119 Resp: 8767

Ion Ratio Lower Upper

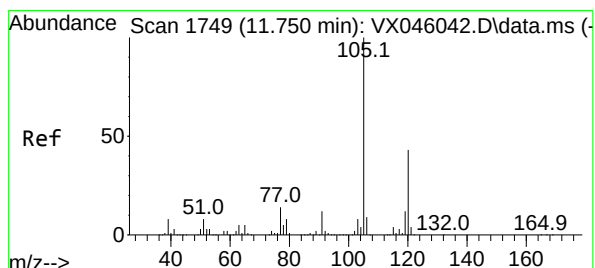
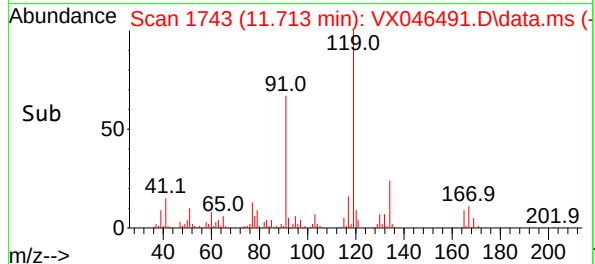
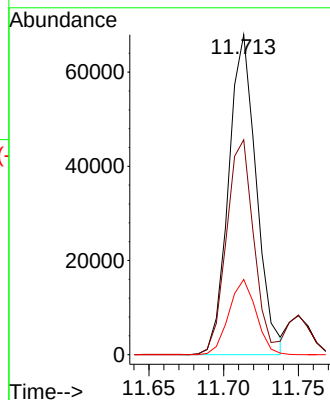
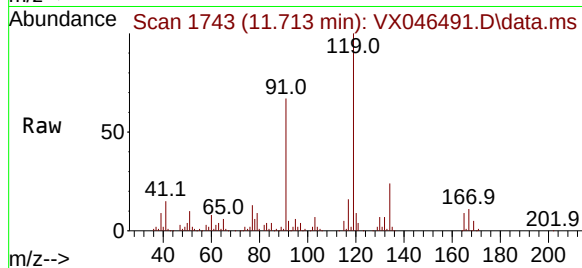
119 100

91 65.8 32.9 98.7

134 23.1 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#84

1,2,4-Trimethylbenzene

Concen: 20.630 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046491.D

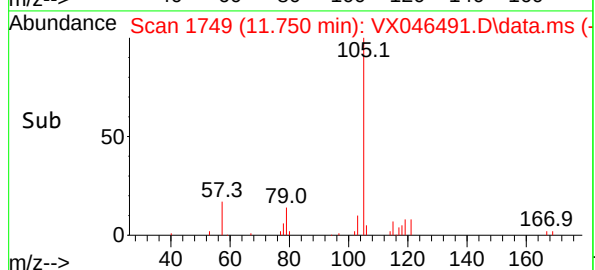
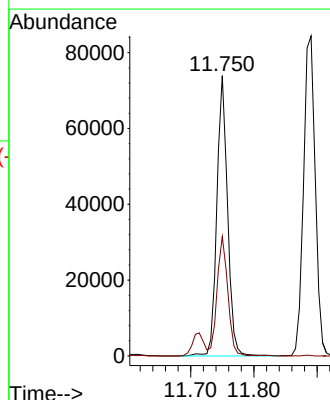
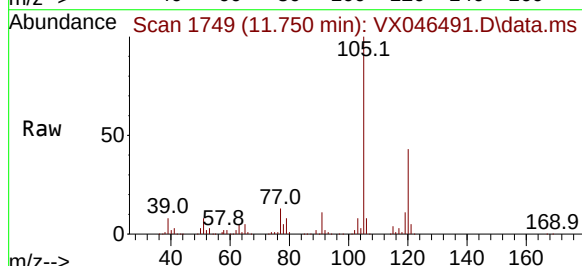
Acq: 04 Jun 2025 11:27

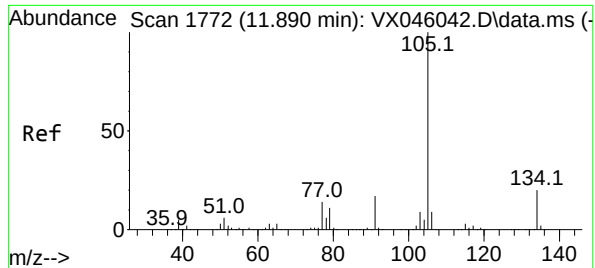
Tgt Ion:105 Resp: 86879

Ion Ratio Lower Upper

105 100

120 42.5 21.2 63.6





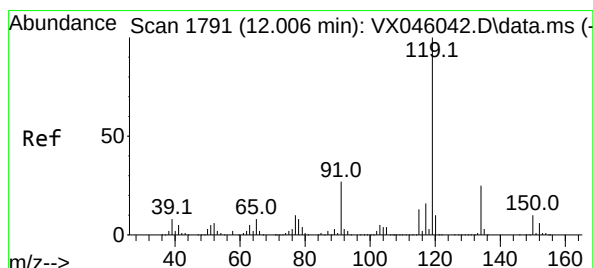
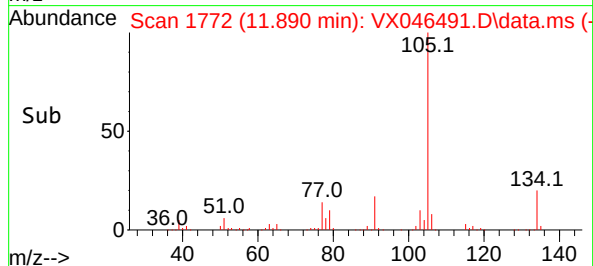
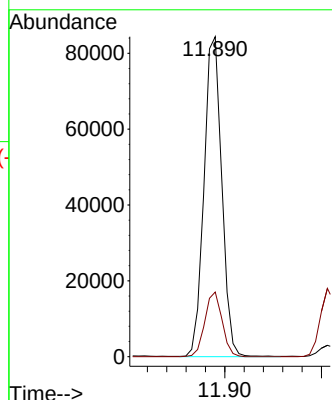
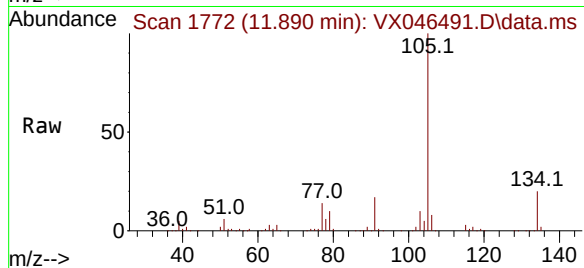
#85  
 sec-Butylbenzene  
 Concen: 21.008 ug/l  
 RT: 11.890 min Scan# 1772  
 Delta R.T. 0.000 min  
 Lab File: VX046491.D  
 Acq: 04 Jun 2025 11:27

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBS01

Tgt Ion:105 Resp: 108045  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 9.7 29.1

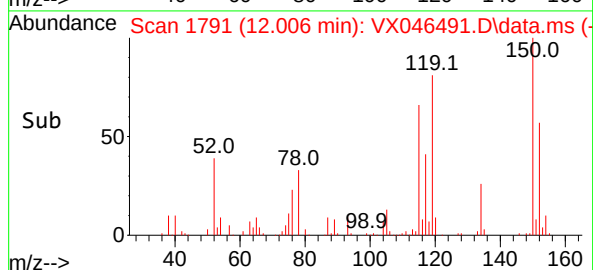
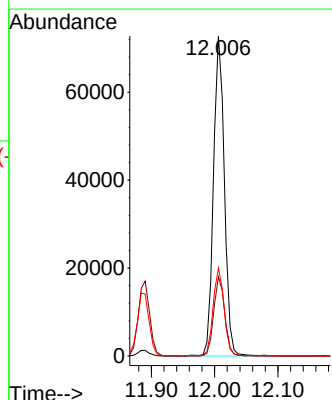
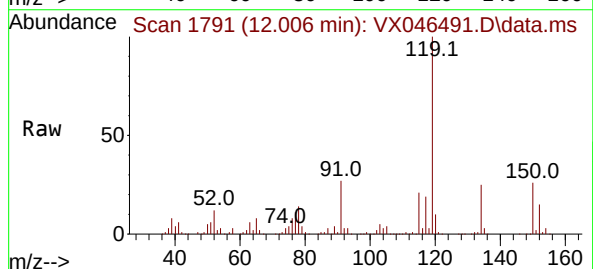
Manual Integrations  
 APPROVED

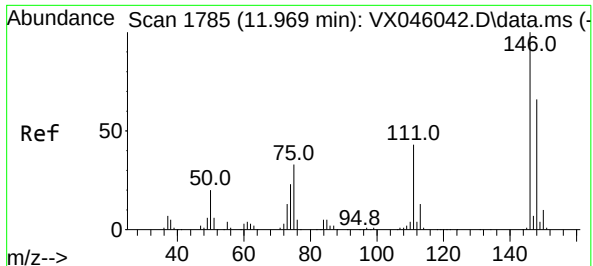
Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#86  
 p-Isopropyltoluene  
 Concen: 20.553 ug/l  
 RT: 12.006 min Scan# 1791  
 Delta R.T. 0.000 min  
 Lab File: VX046491.D  
 Acq: 04 Jun 2025 11:27

Tgt Ion:119 Resp: 87255  
 Ion Ratio Lower Upper  
 119 100  
 134 24.8 12.5 37.5  
 91 27.6 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 19.969 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion:146 Resp: 42110

Ion Ratio Lower Upper

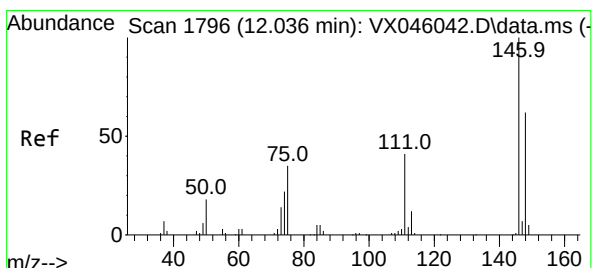
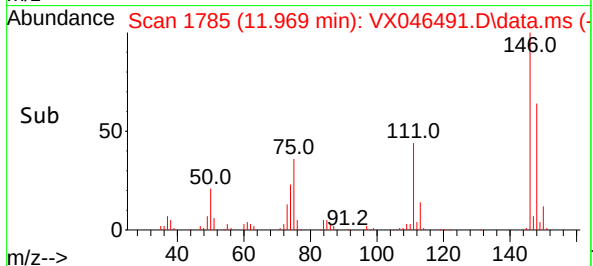
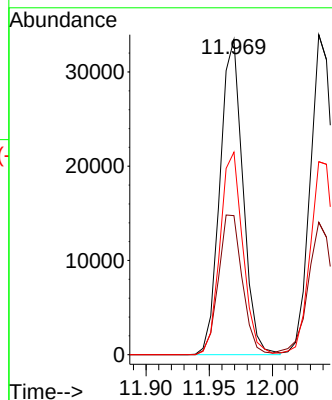
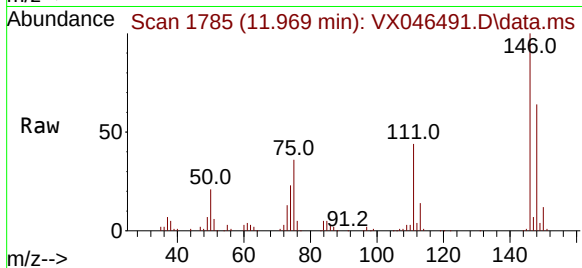
146 100

111 46.1 22.1 66.3

148 63.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#88

1,4-Dichlorobenzene

Concen: 20.518 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

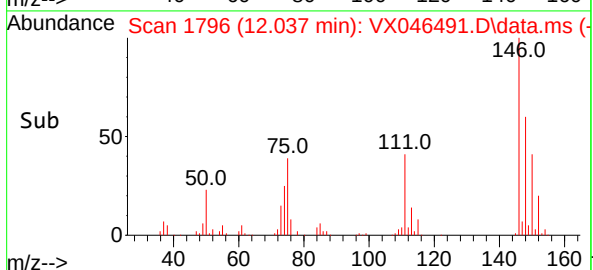
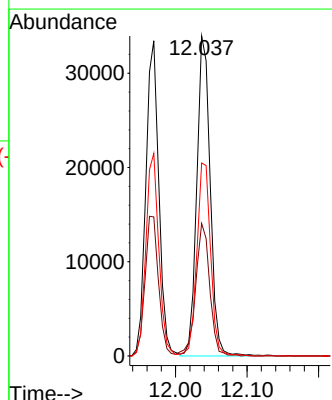
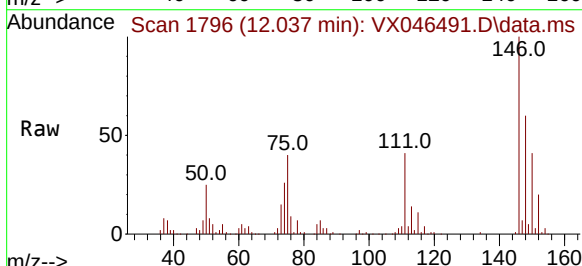
Tgt Ion:146 Resp: 44193

Ion Ratio Lower Upper

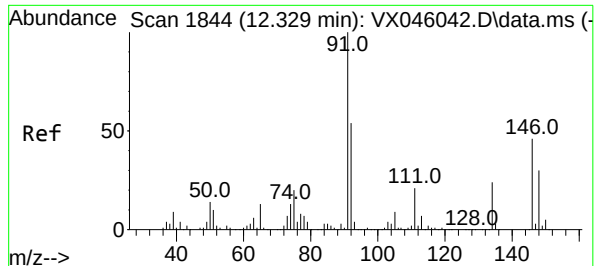
146 100

111 43.5 21.3 63.9

148 62.1 31.9 95.5







#89

n-Butylbenzene

Concen: 20.149 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046491.D

Acq: 04 Jun 2025 11:27

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBS01

Tgt Ion: 91 Resp: 75030

Ion Ratio Lower Upper

91 100

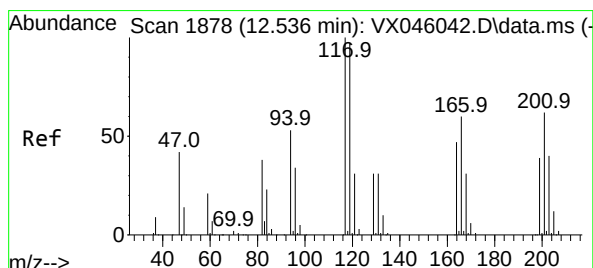
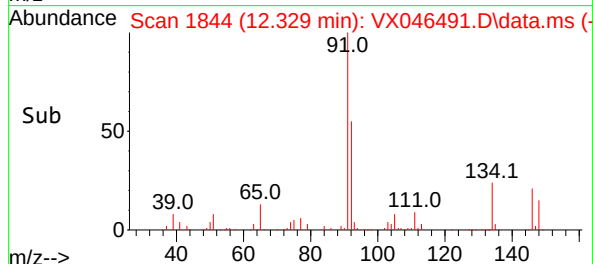
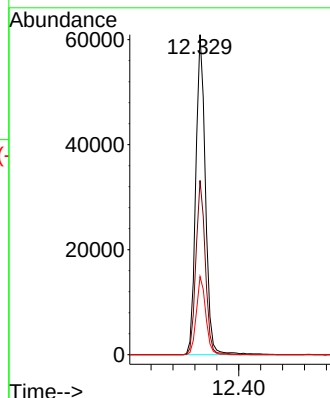
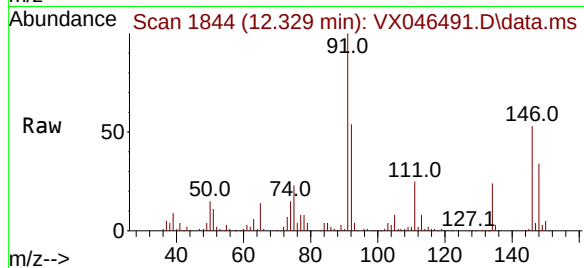
92 53.2 26.9 80.7

134 23.8 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#90

Hexachloroethane

Concen: 19.602 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046491.D

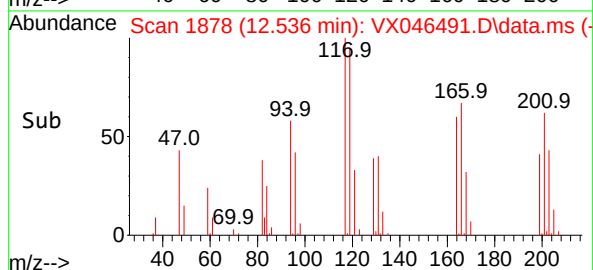
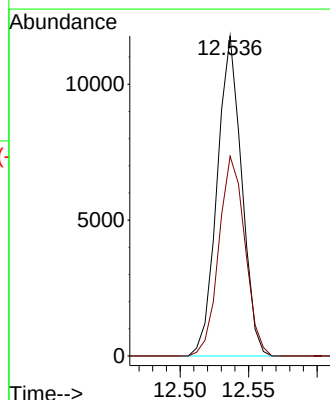
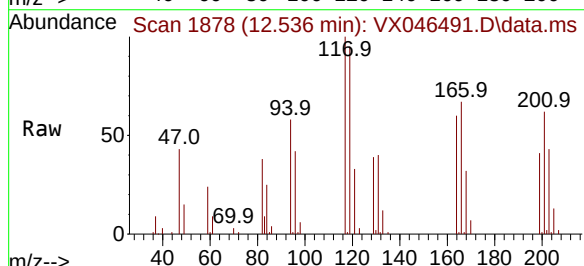
Acq: 04 Jun 2025 11:27

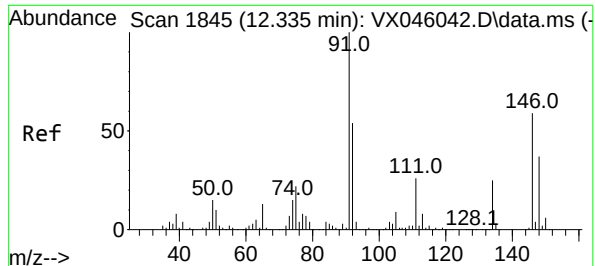
Tgt Ion:117 Resp: 14661

Ion Ratio Lower Upper

117 100

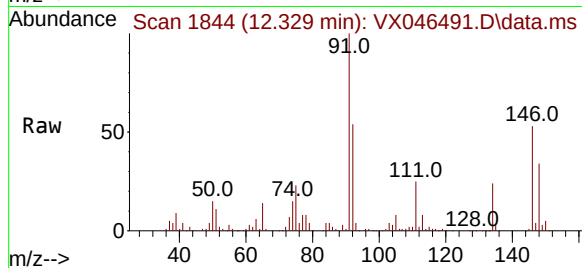
201 66.5 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 20.986 ug/l  
RT: 12.329 min Scan# 1845  
Delta R.T. -0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

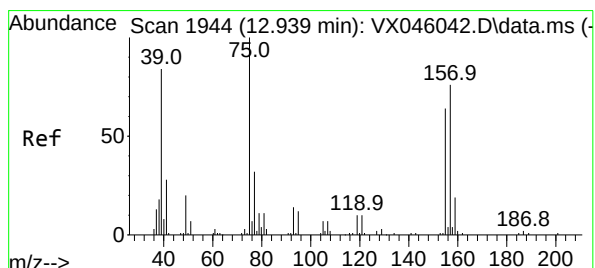
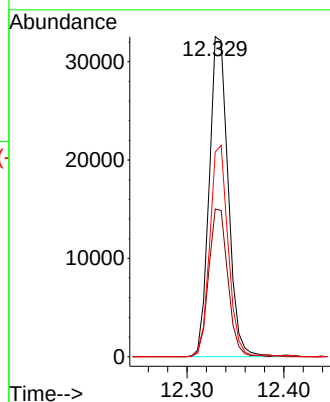
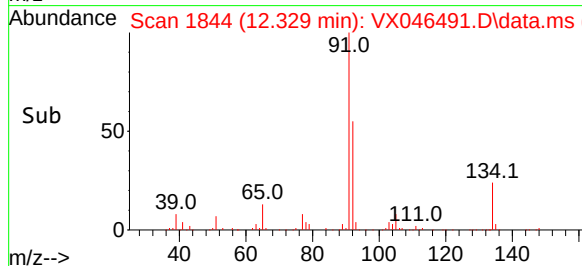
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:146 Resp: 4441  
Ion Ratio Lower Upper  
146 100  
111 46.4 22.4 67.3  
148 64.4 31.6 94.8

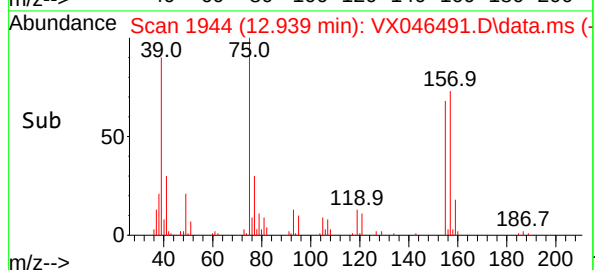
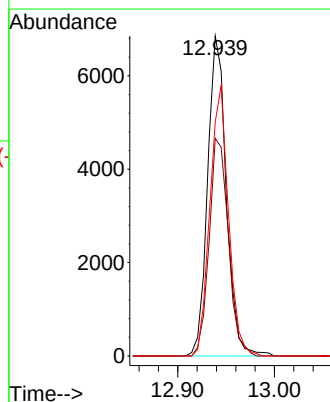
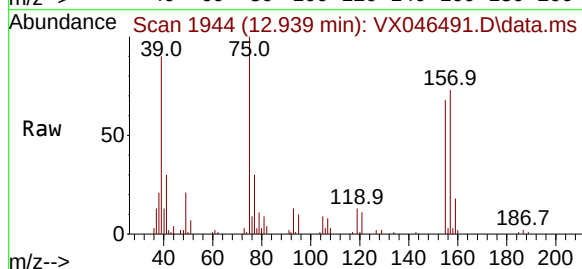
Manual Integrations  
APPROVED

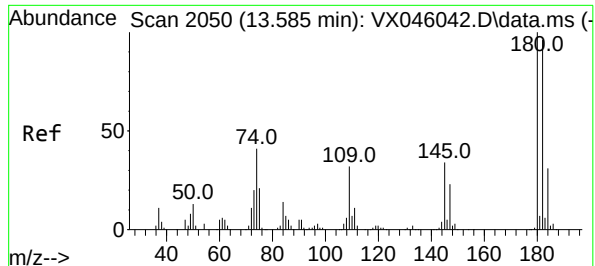
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 23.797 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

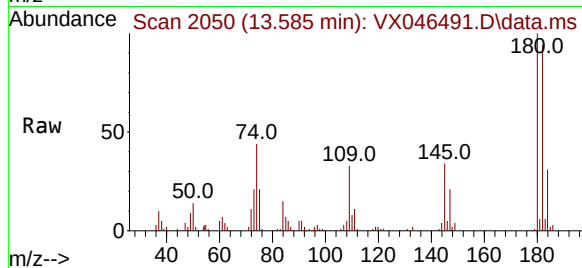
Tgt Ion: 75 Resp: 9196  
Ion Ratio Lower Upper  
75 100  
155 69.7 34.9 104.8  
157 83.7 43.8 131.4





#93  
1,2,4-Trichlorobenzene  
Concen: 20.975 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

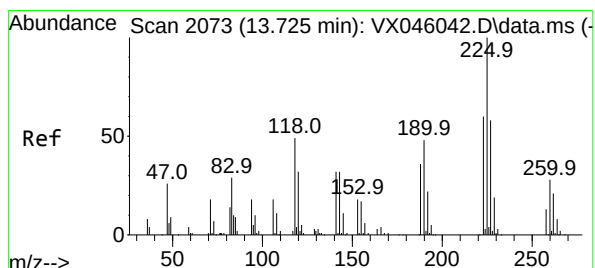
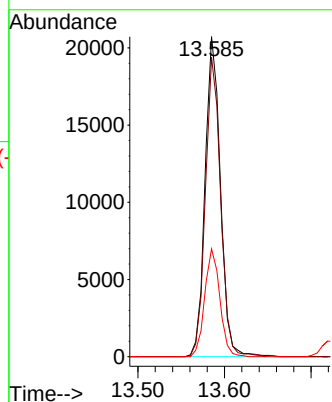
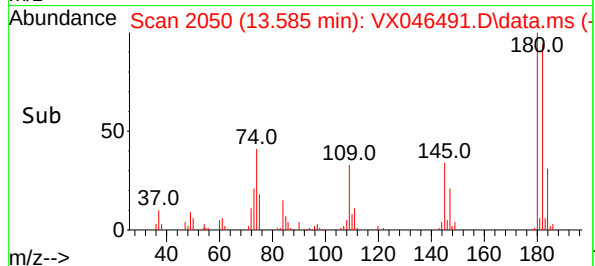
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



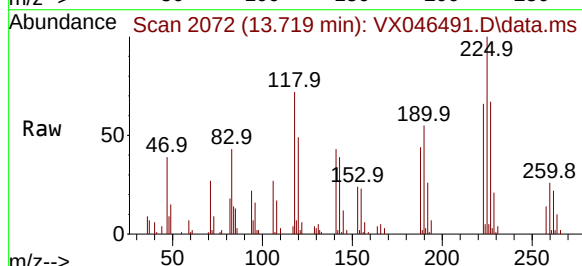
Tgt Ion:180 Resp: 2549  
Ion Ratio Lower Upper  
180 100  
182 92.9 47.9 143.8  
145 33.3 17.1 51.2

Manual Integrations  
APPROVED

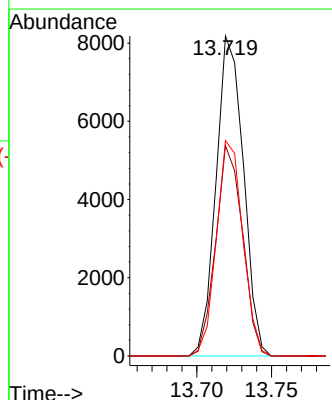
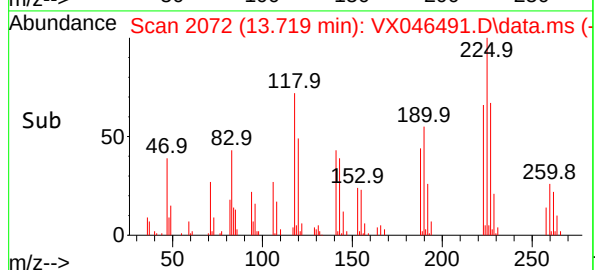
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

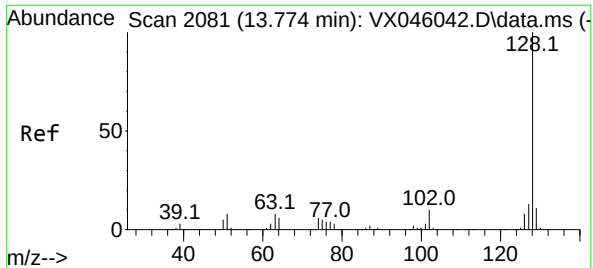


#94  
Hexachlorobutadiene  
Concen: 19.618 ug/l  
RT: 13.719 min Scan# 2072  
Delta R.T. -0.006 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27



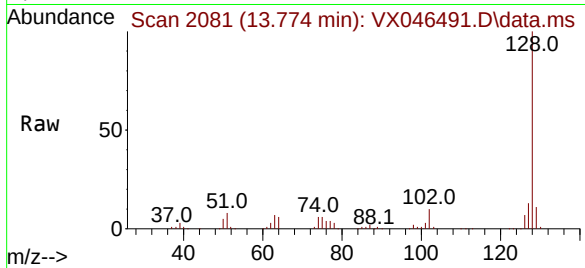
Tgt Ion:225 Resp: 10415  
Ion Ratio Lower Upper  
225 100  
223 64.3 30.8 92.4  
227 64.9 30.9 92.7





#95  
Naphthalene  
Concen: 21.259 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

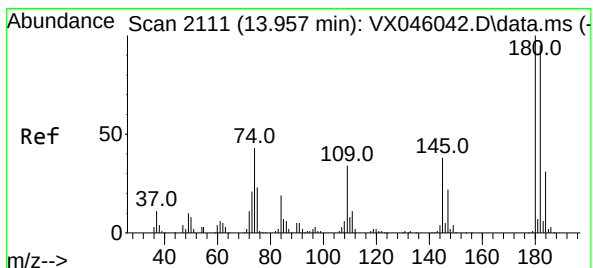
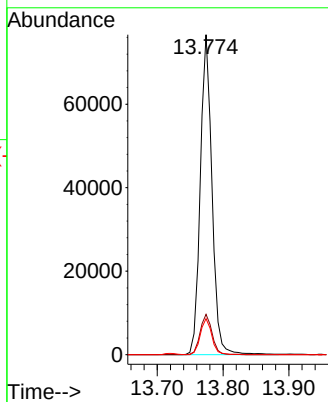
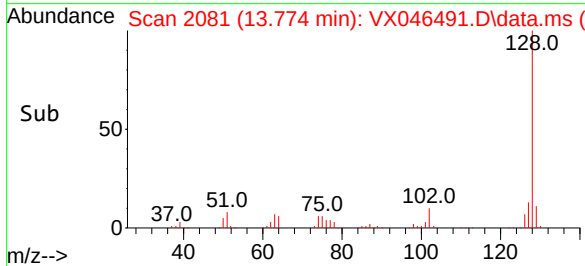
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBS01



Tgt Ion:128 Resp: 94780  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.4 15.6  
129 11.0 8.6 13.0

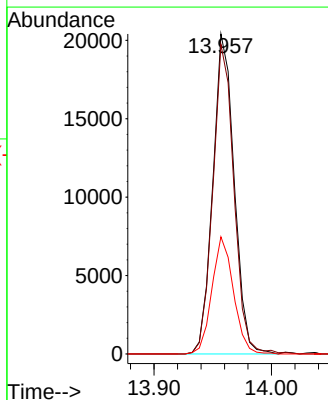
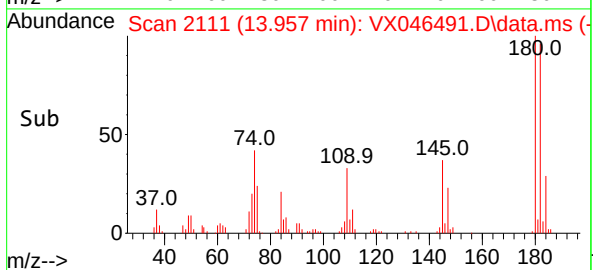
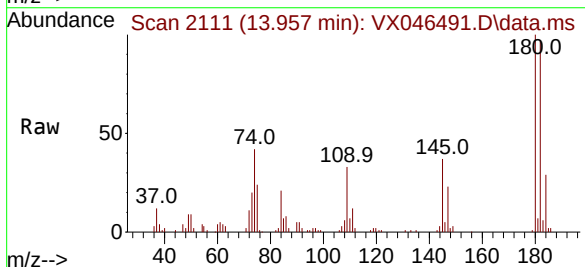
Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 20.522 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VX046491.D  
Acq: 04 Jun 2025 11:27

Tgt Ion:180 Resp: 25741  
Ion Ratio Lower Upper  
180 100  
182 95.8 47.8 143.3  
145 37.0 18.1 54.3



## Report of Analysis

|                    |                                           |                 |              |
|--------------------|-------------------------------------------|-----------------|--------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: |              |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  |              |
| Client Sample ID:  | VX0604WBSD01                              | SDG No.:        | Q2201        |
| Lab Sample ID:     | VX0604WBSD01                              | Matrix:         | Water        |
| Analytical Method: | 8260D                                     | % Solid:        | 0            |
| Sample Wt/Vol:     | 5 Units: mL                               | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  | uL                                        | Test:           | VOCMS Group3 |
| GC Column:         | DB-624UI ID : 0.18                        | Level :         | LOW          |
| Prep Method :      |                                           |                 |              |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX046497.D        | 1         |           | 06/04/25 13:52 | VX060425      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 18.8   |           | 0.26                | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 20.3   |           | 0.23                | 1.00       | ug/L    |
| 75-34-3                   | 1,1-Dichloroethane     | 22.2   |           | 0.23                | 1.00       | ug/L    |
| 156-59-2                  | cis-1,2-Dichloroethene | 22.0   |           | 0.19                | 1.00       | ug/L    |
| 71-55-6                   | 1,1,1-Trichloroethane  | 22.5   |           | 0.20                | 1.00       | ug/L    |
| 71-43-2                   | Benzene                | 21.4   |           | 0.15                | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 21.6   |           | 0.22                | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 21.3   |           | 0.090               | 1.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane  | 22.2   |           | 0.21                | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 20.6   |           | 0.23                | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 51.7   |           | 70 (74) - 130 (125) | 103%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 52.1   |           | 70 (75) - 130 (124) | 104%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 49.0   |           | 70 (86) - 130 (113) | 98%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 51.3   |           | 70 (77) - 130 (121) | 103%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 84500  | 5.55      |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 153000 | 6.757     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 133000 | 10.055    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 62800  | 12.018    |                     |            |         |

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\_X\Data\VX060425\  
 Data File : VX046497.D  
 Acq On : 04 Jun 2025 13:52  
 Operator : JC/MD  
 Sample : VX0604WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBSD01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:51:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 84483               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 152834              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 133225              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 62838               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 81368               | 51.661  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 103.320% |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 57316               | 52.079  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.160% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 186769              | 49.031  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 98.060%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 75026               | 51.347  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 102.700% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 24632               | 19.049  | ug/l   | 99       |
| 3) Chloromethane             | 1.307          | 50   | 23757               | 18.946  | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374          | 62   | 21918               | 18.781  | ug/l   | 98       |
| 5) Bromomethane              | 1.593          | 94   | 9220                | 17.033  | ug/l   | 98       |
| 6) Chloroethane              | 1.672          | 64   | 15446               | 24.792  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 35809               | 20.761  | ug/l   | 97       |
| 8) Diethyl Ether             | 2.136          | 74   | 12725               | 21.673  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 21610               | 20.246  | ug/l   | 97       |
| 10) Methyl Iodide            | 2.447          | 142  | 24073               | 19.060  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 2.971          | 59   | 27971               | 126.516 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.312          | 96   | 20333               | 20.297  | ug/l   | 100      |
| 13) Acrolein                 | 2.233          | 56   | 25349               | 100.678 | ug/l   | 97       |
| 14) Allyl chloride           | 2.660          | 41   | 42621               | 22.262  | ug/l   | 95       |
| 15) Acrylonitrile            | 3.062          | 53   | 73994               | 117.045 | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 72770               | 115.231 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.501          | 76   | 39956               | 16.824  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.703          | 43   | 45782               | 31.241  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 82120               | 23.382  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.782          | 84   | 24899               | 20.575  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 20553               | 20.402  | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.763          | 45   | 85964               | 23.245  | ug/l   | 98       |
| 23) Vinyl Acetate            | 3.721          | 43   | 352257              | 108.297 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 45805               | 22.237  | ug/l   | 98       |
| 25) 2-Butanone               | 4.562          | 43   | 110519              | 120.545 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 32995               | 20.465  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 26678               | 21.998  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.897          | 49   | 22848               | 23.044  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 69743               | 121.397 | ug/l   | 99       |
| 30) Chloroform               | 5.092          | 83   | 48458               | 22.570  | ug/l   | 97       |
| 31) Cyclohexane              | 5.458          | 56   | 39649               | 21.123  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 41875               | 22.500  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 30800               | 20.829  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.721          | 43   | 40135               | 21.968  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 33893               | 20.399  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.379          | 83   | 37949               | 19.934  | ug/l   | 92       |
| 40) Benzene                  | 6.031          | 78   | 92846               | 21.436  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060425\  
 Data File : VX046497.D  
 Acq On : 04 Jun 2025 13:52  
 Operator : JC/MD  
 Sample : VX0604WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBSD01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:51:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 24996    | 26.155  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 40404    | 21.614  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 64639    | 23.192  | ug/l   | 99       |
| 44) Trichloroethene           | 7.123  | 130  | 22185    | 21.281  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 23770    | 22.070  | ug/l   | 98       |
| 46) Dibromomethane            | 7.580  | 93   | 18288    | 21.529  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.818  | 83   | 36336    | 21.718  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 33430    | 23.486  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 12861    | 475.862 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 220370   | 119.115 | ug/l   | 99       |
| 52) Toluene                   | 8.714  | 92   | 57666    | 21.713  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 30745    | 20.675  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 35234    | 21.437  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 23253    | 22.204  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 39616    | 23.736  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 41148    | 21.879  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 98765    | 116.070 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 168301   | 122.961 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.518  | 129  | 24794    | 21.558  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 23687    | 21.762  | ug/l   | 96       |
| 64) Tetrachloroethene         | 9.269  | 164  | 19397    | 20.578  | ug/l   | 94       |
| 65) Chlorobenzene             | 10.079 | 112  | 62199    | 21.331  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 21656    | 21.749  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 113326   | 22.048  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 80924    | 43.046  | ug/l   | 94       |
| 69) o-Xylene                  | 10.640 | 106  | 41048    | 22.397  | ug/l   | 97       |
| 70) Styrene                   | 10.652 | 104  | 67392    | 22.447  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 15427    | 20.636  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 110318   | 22.550  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 55422    | 22.926  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 38648    | 22.544  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 32723m   | 21.634  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 24841    | 21.872  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 124223   | 21.838  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 78907    | 21.507  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 92894    | 22.729  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 9297     | 20.011  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 88804    | 21.826  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 92557    | 22.483  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 92688    | 22.395  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 111854   | 22.129  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 93040    | 22.299  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 44995    | 21.707  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 44540    | 21.040  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.329 | 91   | 79526    | 21.729  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 15772    | 21.457  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 46207    | 22.214  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 9047     | 23.821  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 25914    | 21.691  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 11422    | 21.891  | ug/l   | 100      |
| 95) Naphthalene               | 13.774 | 128  | 102748   | 23.449  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 26637    | 21.608  | ug/l   | 99       |

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Data File : VX046497.D  
Acq On : 04 Jun 2025 13:52  
Operator : JC/MD  
Sample : VX0604WBSD01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:51:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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



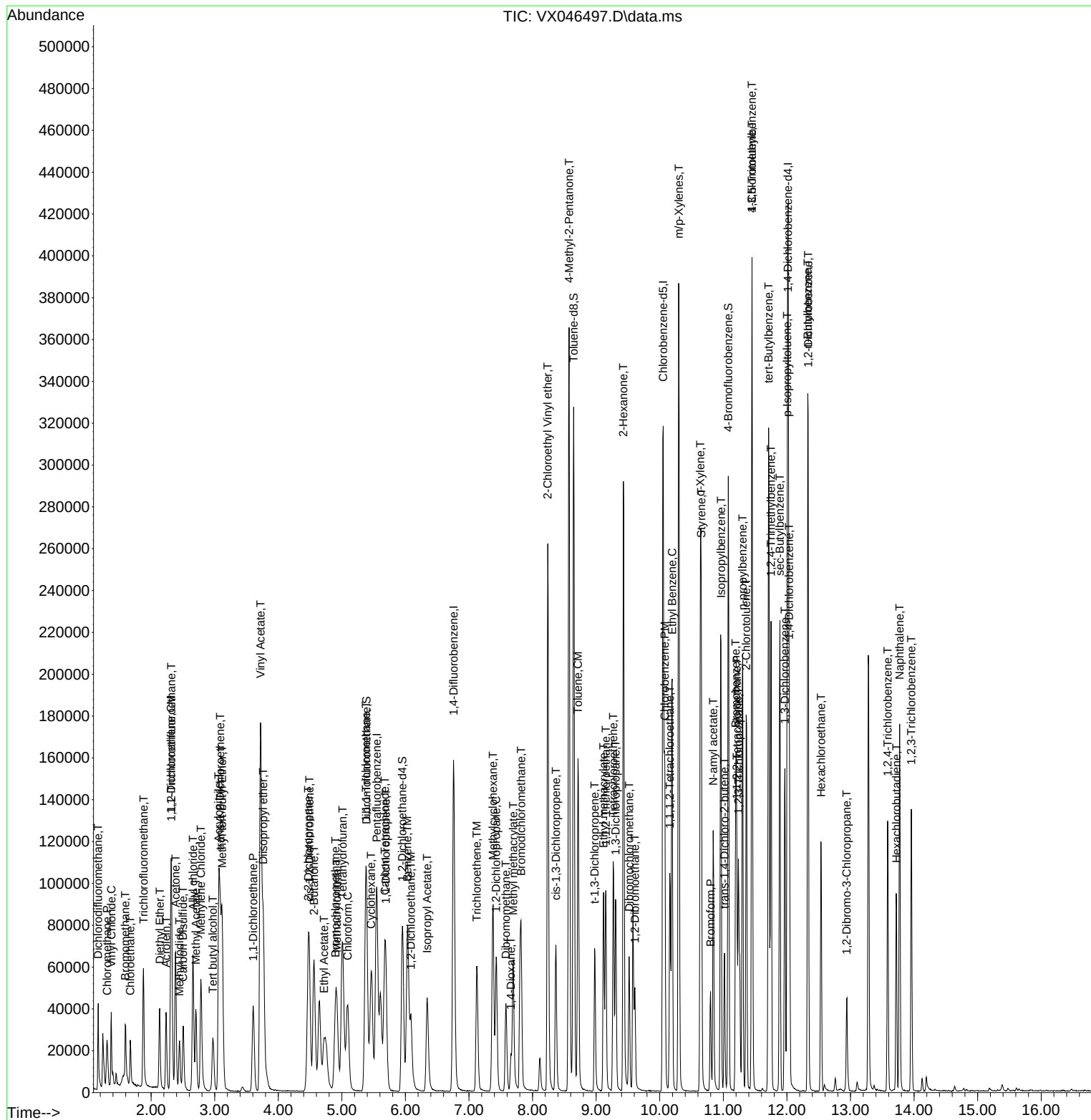
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Data File : VX046497.D
Acq On    : 04 Jun 2025 13:52
Operator  : JC/MD
Sample    : VX0604WBSD01
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 11 Sample Multiplier: 1
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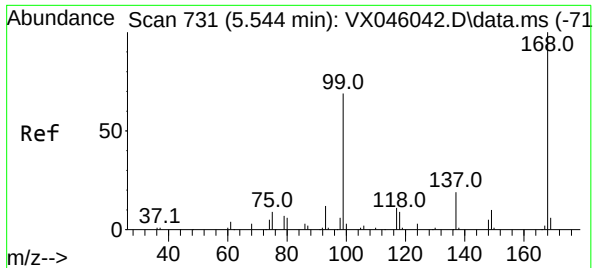
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VX0604WBSD01

## Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

Quant Time: Jun 05 01:51:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration





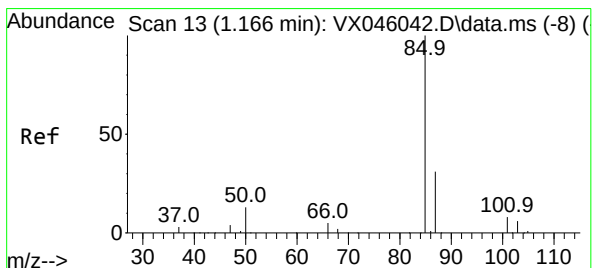
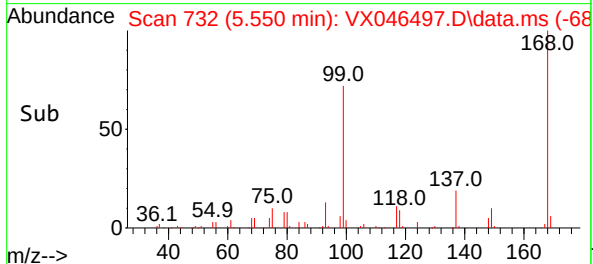
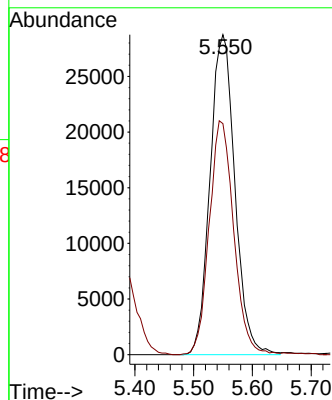
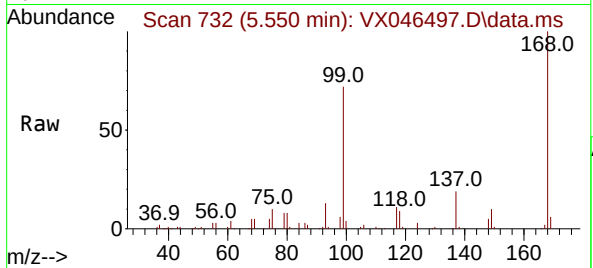
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Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion:168 Resp: 8448  
Ion Ratio Lower Upper  
168 100  
99 72.2 54.9 82.3

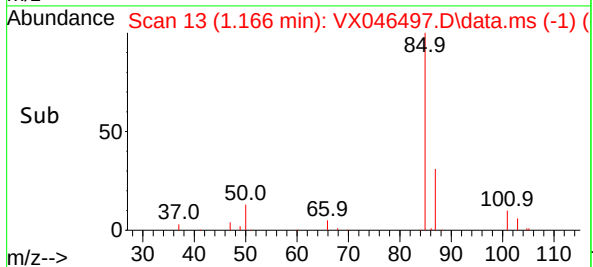
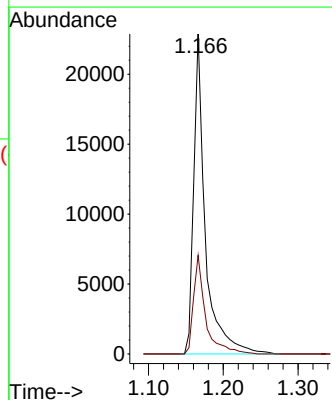
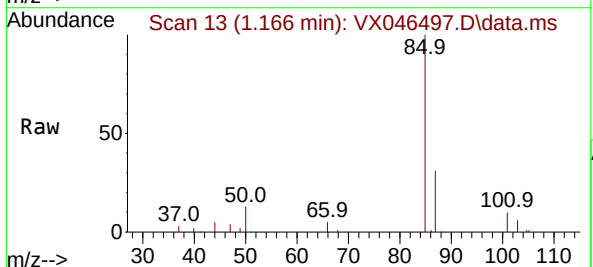
Manual Integrations  
APPROVED

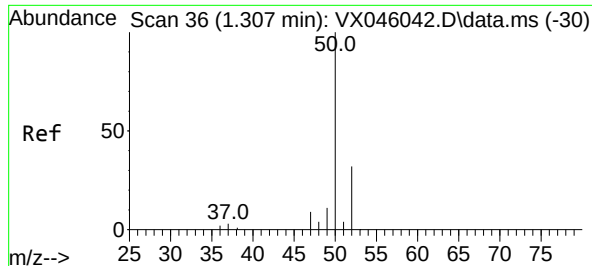
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#2  
Dichlorodifluoromethane  
Concen: 19.049 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 85 Resp: 24632  
Ion Ratio Lower Upper  
85 100  
87 30.8 15.7 47.1





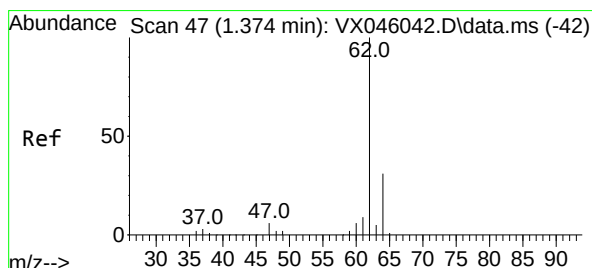
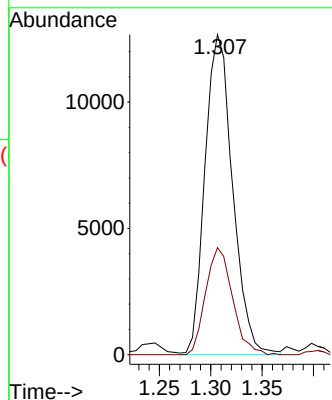
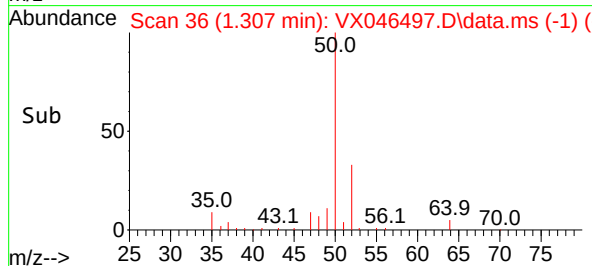
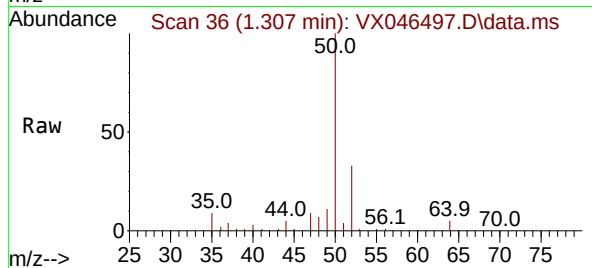
#3  
Chloromethane  
Concen: 18.946 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 50 Resp: 2375  
Ion Ratio Lower Upper  
50 100  
52 33.6 25.4 38.2

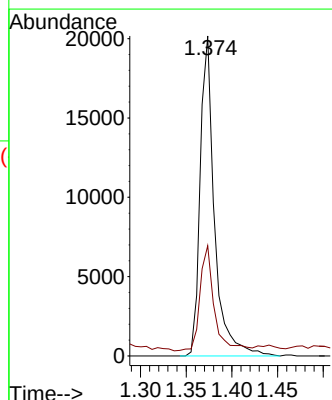
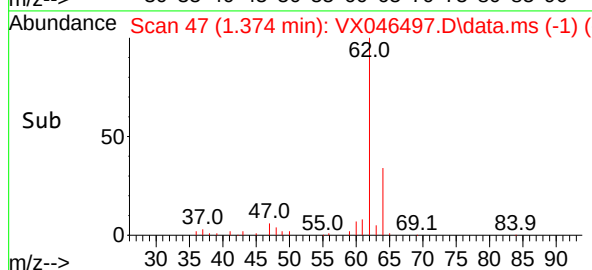
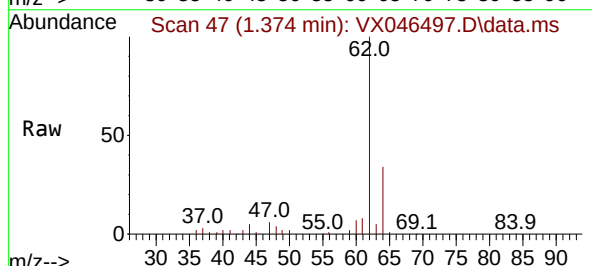
Manual Integrations  
APPROVED

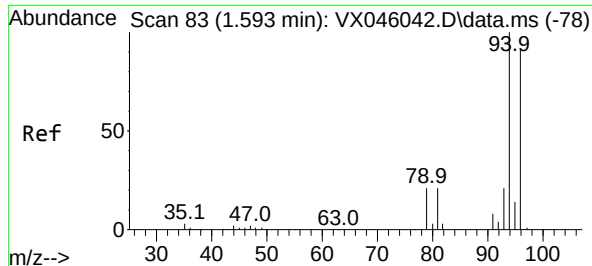
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#4  
Vinyl Chloride  
Concen: 18.781 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 62 Resp: 21918  
Ion Ratio Lower Upper  
62 100  
64 32.7 25.2 37.8





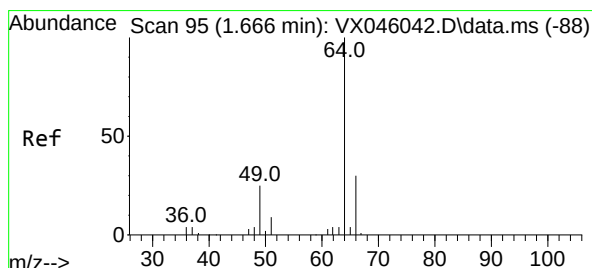
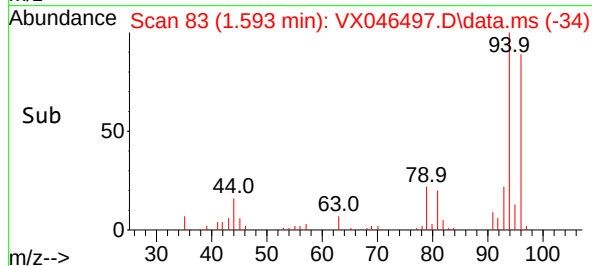
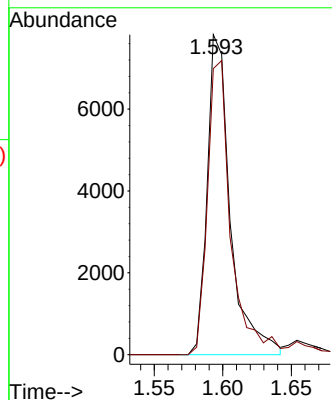
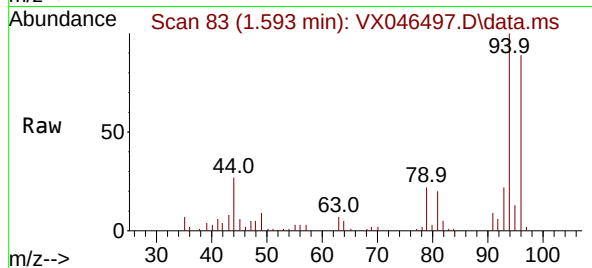
#5  
Bromomethane  
Concen: 17.033 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 94 Resp: 9220  
Ion Ratio Lower Upper  
94 100  
96 89.4 72.8 109.2

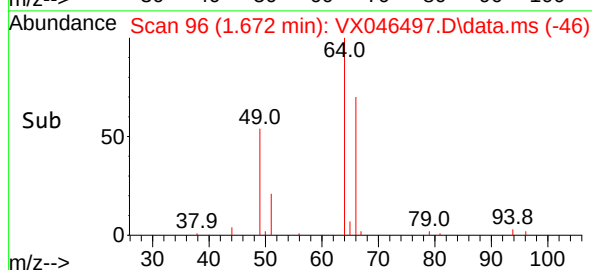
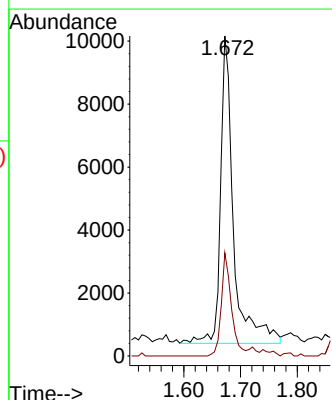
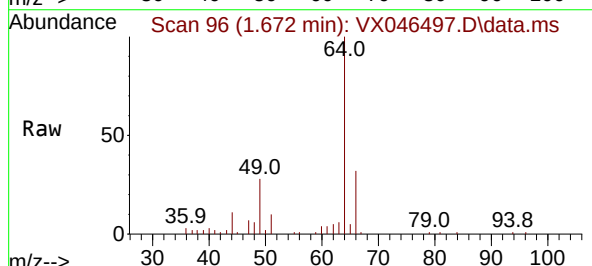
Manual Integrations  
APPROVED

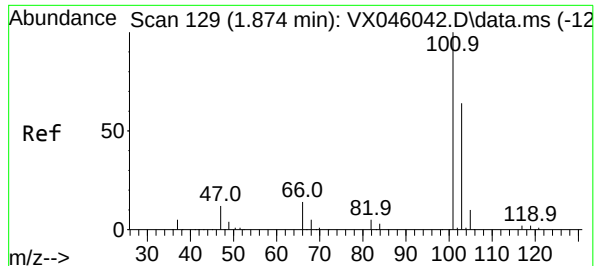
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#6  
Chloroethane  
Concen: 24.792 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

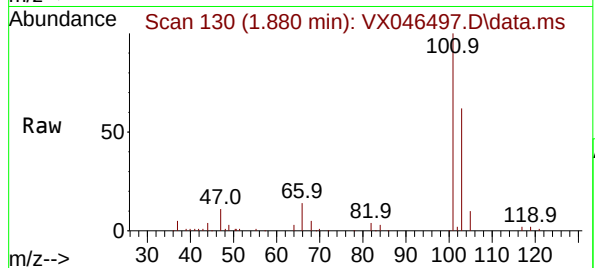
Tgt Ion: 64 Resp: 15446  
Ion Ratio Lower Upper  
64 100  
66 33.6 24.3 36.5





#7  
Trichlorofluoromethane  
Concen: 20.761 ug/l  
RT: 1.880 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

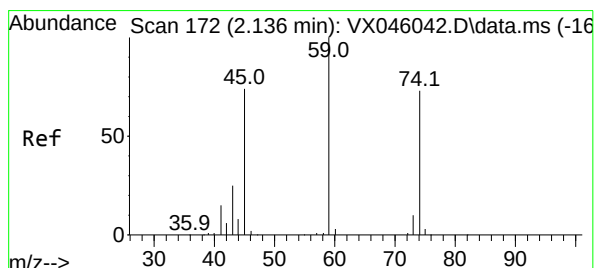
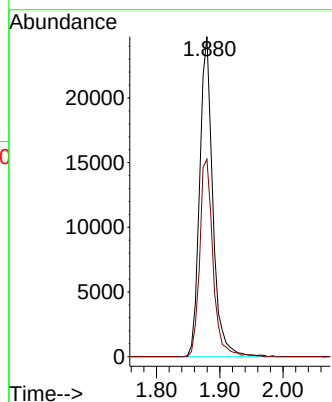
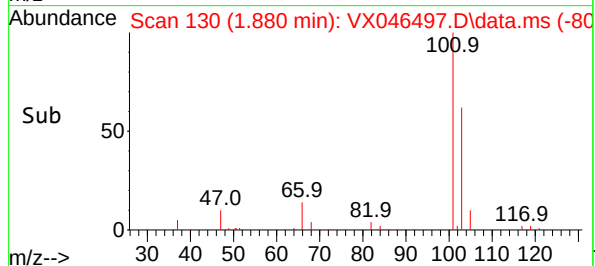
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:101 Resp: 35809  
Ion Ratio Lower Upper  
101 100  
103 61.6 51.0 76.4

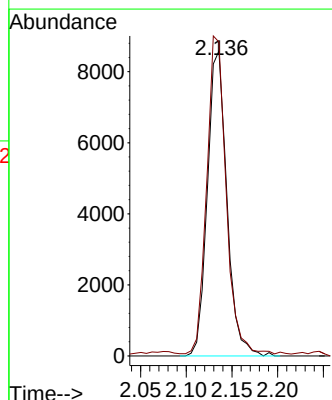
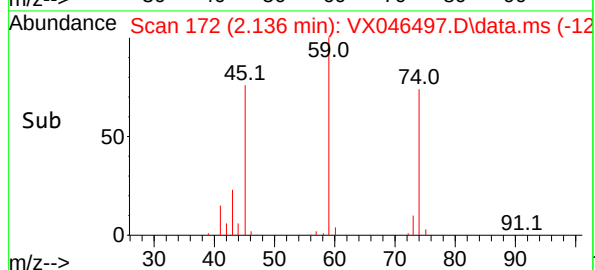
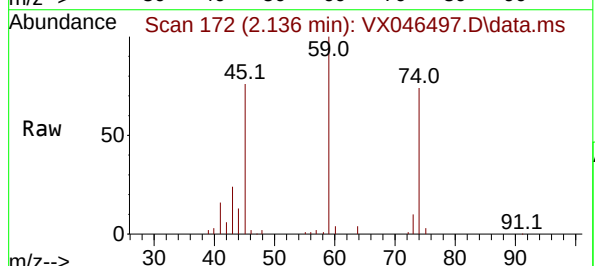
Manual Integrations  
**APPROVED**

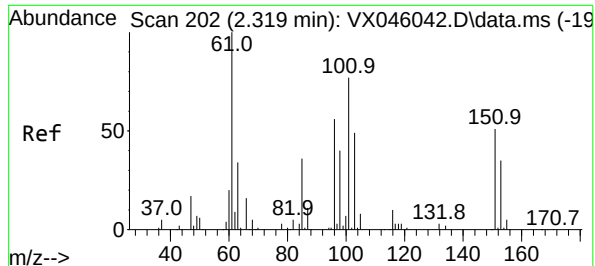
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#8  
Diethyl Ether  
Concen: 21.673 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 74 Resp: 12725  
Ion Ratio Lower Upper  
74 100  
45 104.6 54.9 164.8





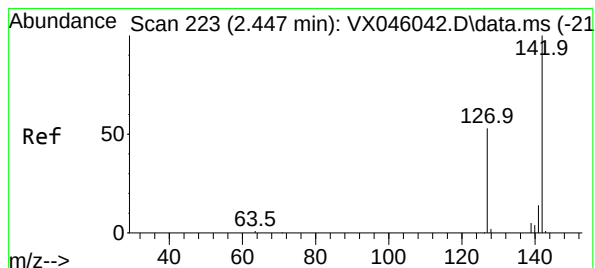
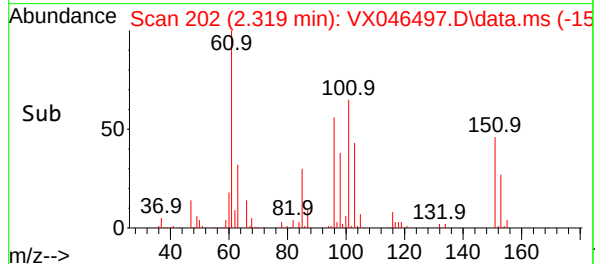
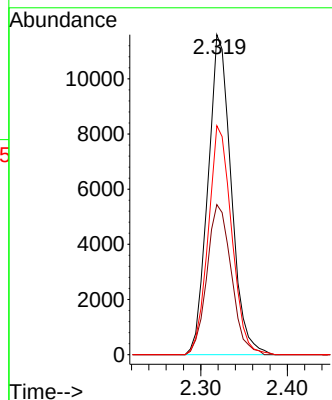
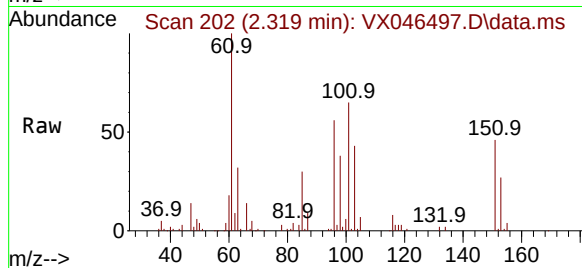
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 20.246 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion:101 Resp: 21610  
Ion Ratio Lower Upper  
101 100  
85 49.2 38.6 58.0  
151 72.2 55.2 82.8

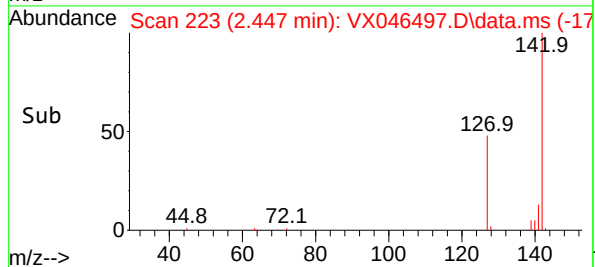
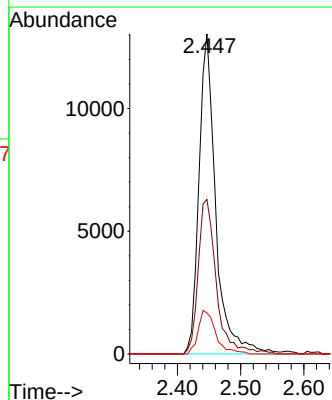
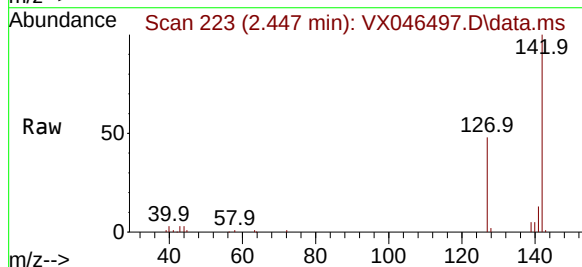
Manual Integrations  
APPROVED

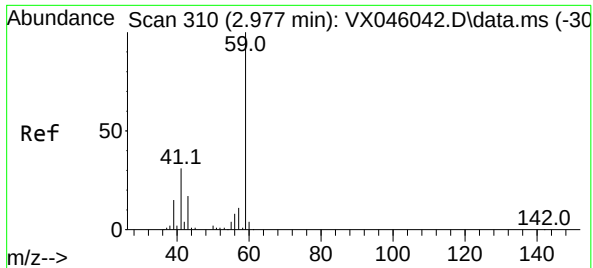
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#10  
Methyl Iodide  
Concen: 19.060 ug/l  
RT: 2.447 min Scan# 223  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:142 Resp: 24073  
Ion Ratio Lower Upper  
142 100  
127 52.3 41.7 62.5  
141 14.2 11.5 17.3





#11

Tert butyl alcohol

Concen: 126.516 ug/l

RT: 2.971 min Scan# 310

Delta R.T. -0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 59 Resp: 2797

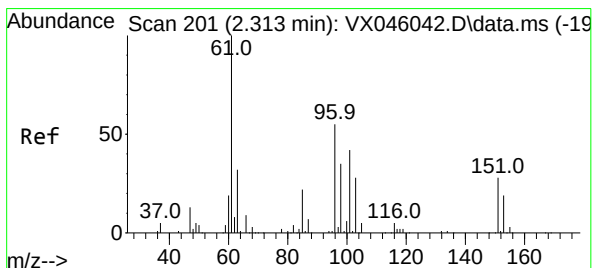
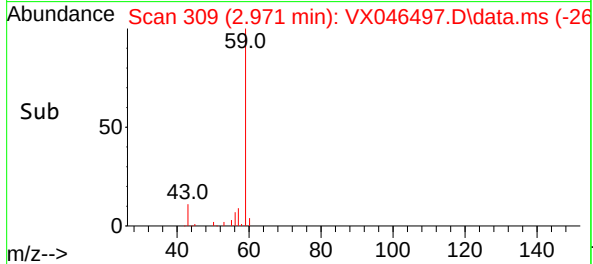
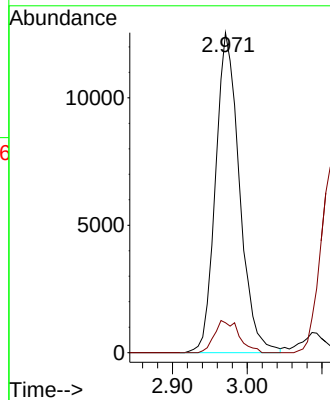
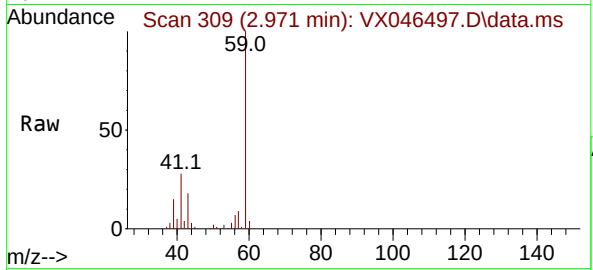
Ion Ratio Lower Upper

59 100

57 10.3 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#12

1,1-Dichloroethene

Concen: 20.297 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

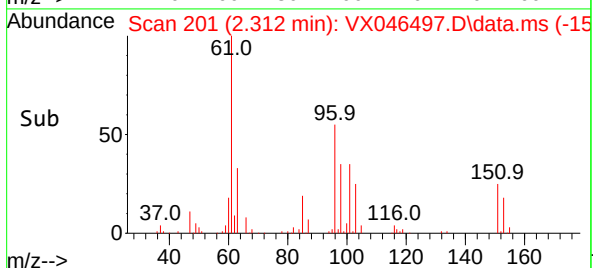
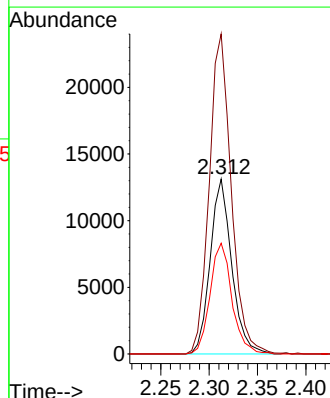
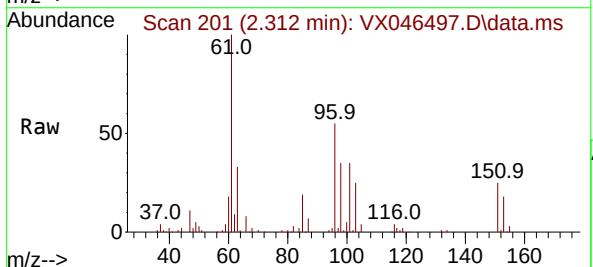
Tgt Ion: 96 Resp: 20333

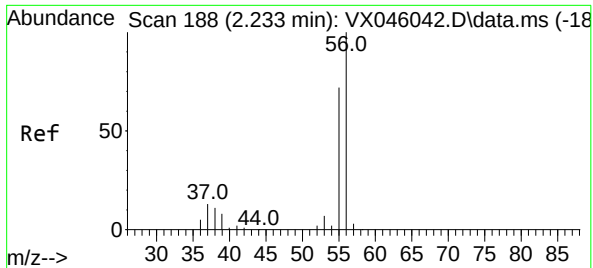
Ion Ratio Lower Upper

96 100

61 183.0 146.2 219.2

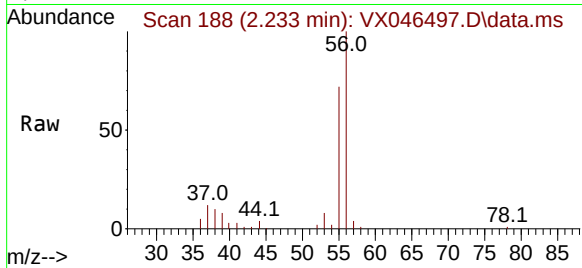
98 63.3 51.0 76.6





#13  
Acrolein  
Concen: 100.678 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

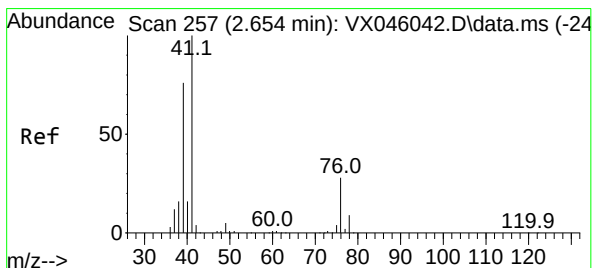
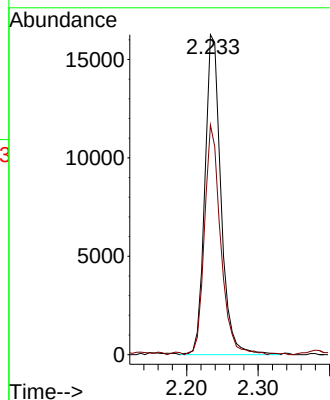
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion: 56 Resp: 25349  
Ion Ratio Lower Upper  
56 100  
55 72.4 56.2 84.4

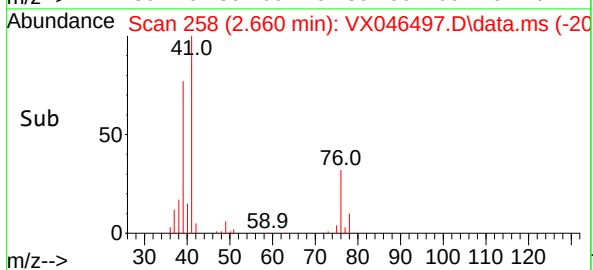
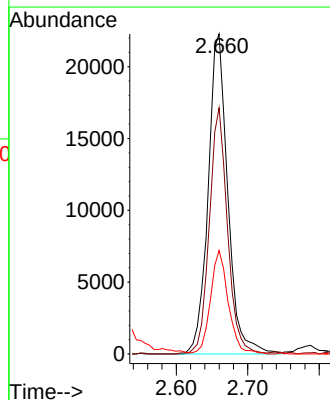
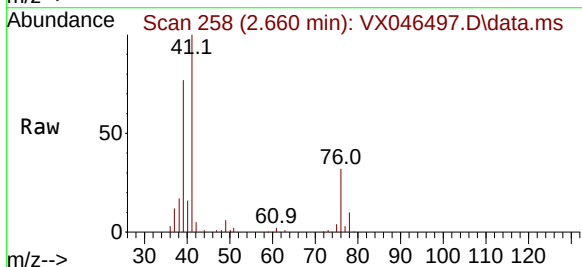
Manual Integrations  
**APPROVED**

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

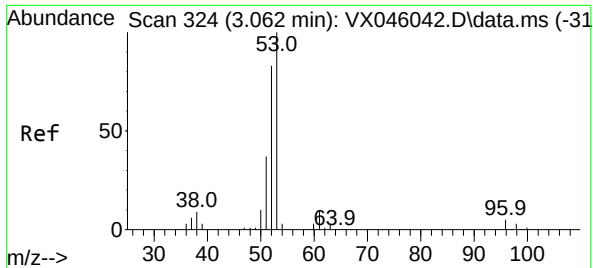


#14  
Allyl chloride  
Concen: 22.262 ug/l  
RT: 2.660 min Scan# 258  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 41 Resp: 42621  
Ion Ratio Lower Upper  
41 100  
39 70.8 60.6 90.8  
76 29.2 24.9 37.3







#15

Acrylonitrile

Concen: 117.045 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

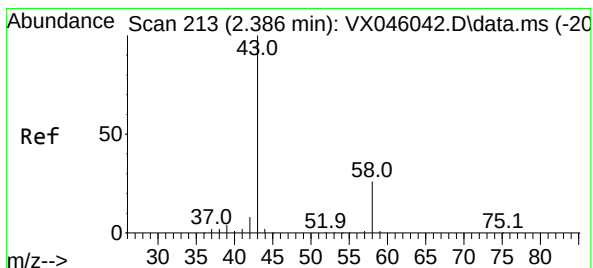
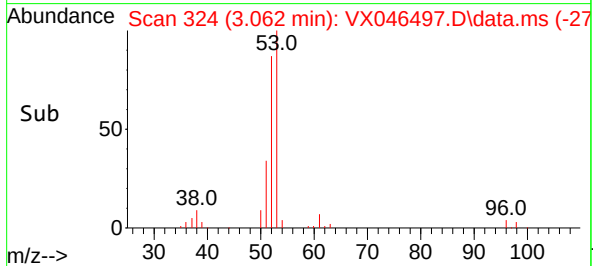
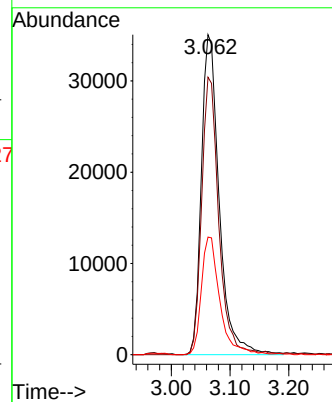
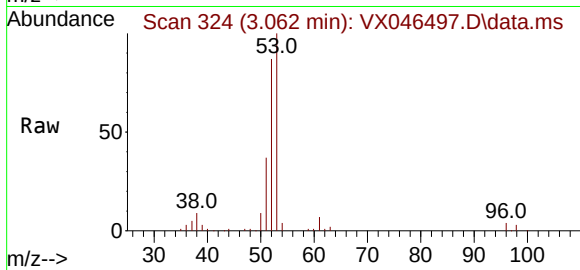
VX0604WBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 53    | Resp: | 73994 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 82.9  | 65.3  | 97.9  |
| 51       | 38.0  | 29.8  | 44.8  |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#16

Acetone

Concen: 115.231 ug/l

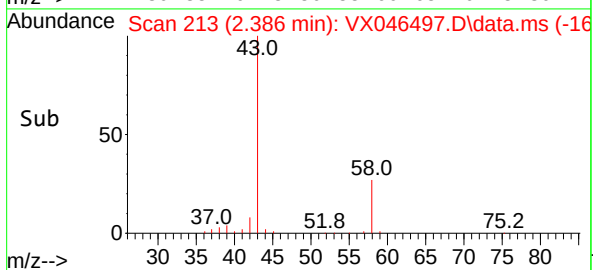
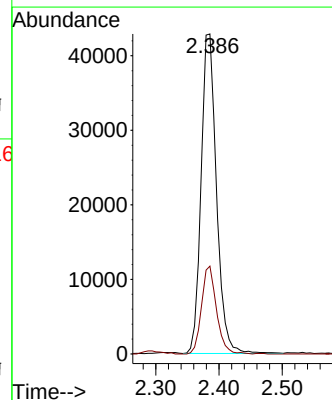
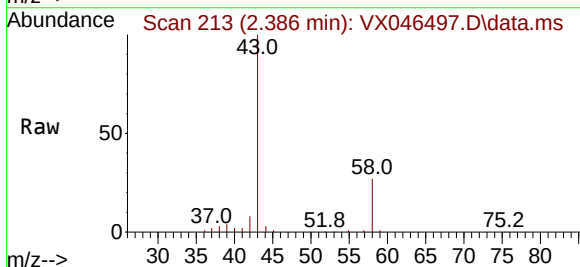
RT: 2.386 min Scan# 213

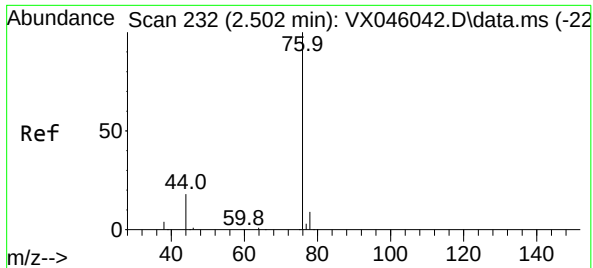
Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 72770 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 27.5  | 21.2  | 31.8  |





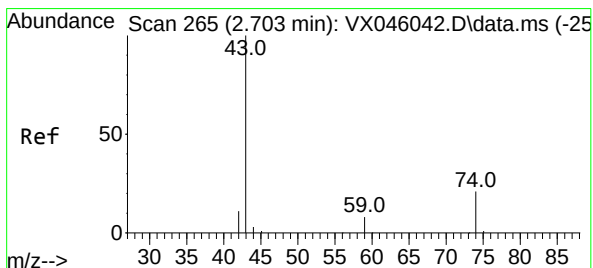
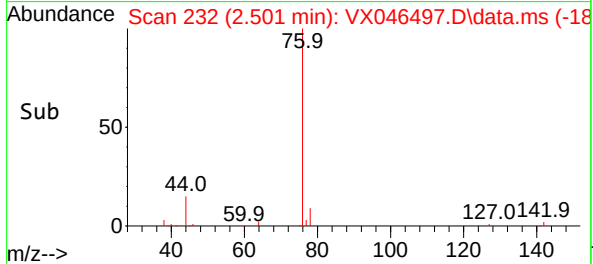
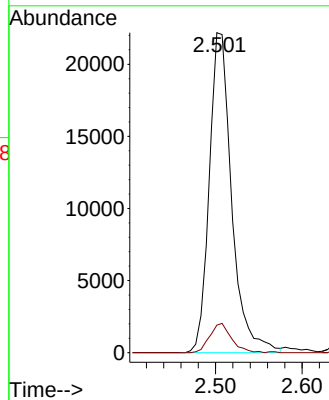
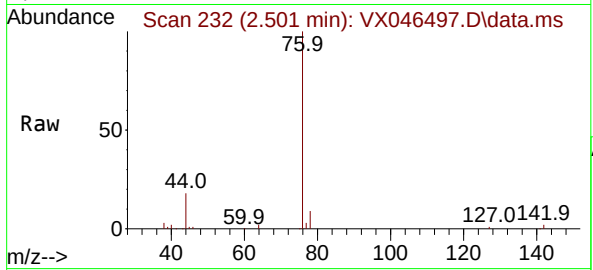
#17  
Carbon Disulfide  
Concen: 16.824 ug/l  
RT: 2.501 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 76 Resp: 39950  
Ion Ratio Lower Upper  
76 100  
78 8.6 7.0 10.4

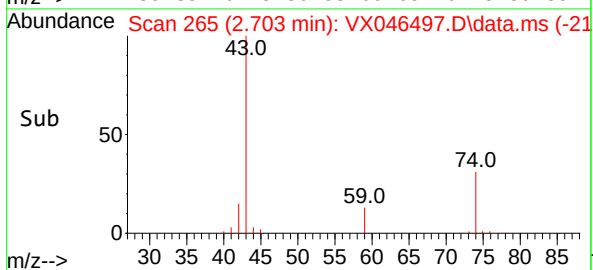
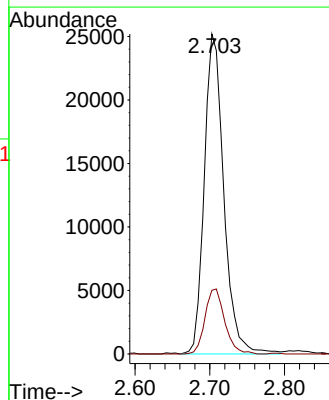
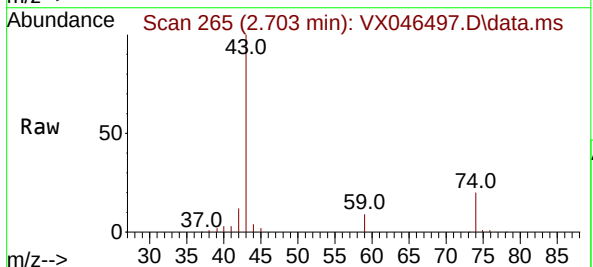
Manual Integrations  
APPROVED

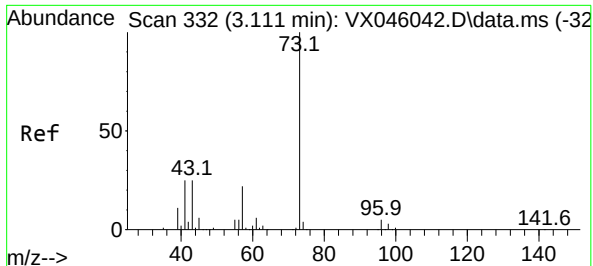
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#18  
Methyl Acetate  
Concen: 31.241 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 43 Resp: 45782  
Ion Ratio Lower Upper  
43 100  
74 20.5 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 23.382 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 73 Resp: 82120

Ion Ratio Lower Upper

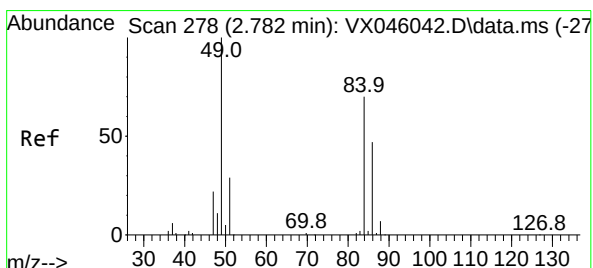
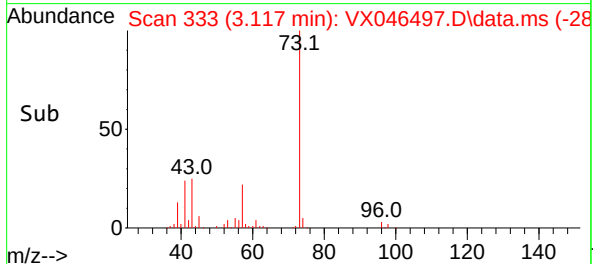
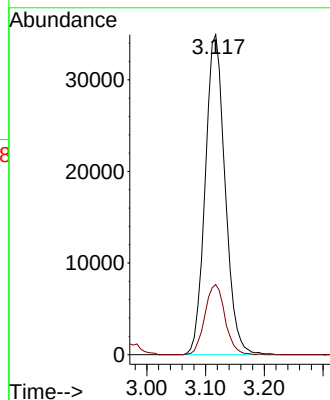
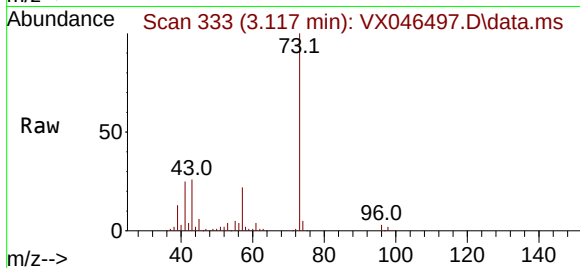
73 100

57 21.9 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#20

Methylene Chloride

Concen: 20.575 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Tgt Ion: 84 Resp: 24899

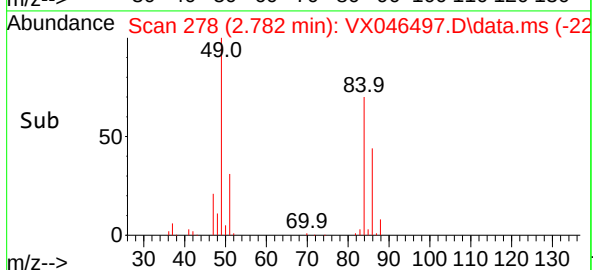
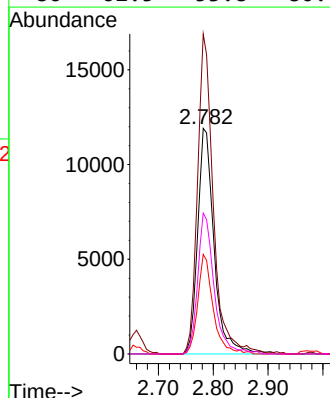
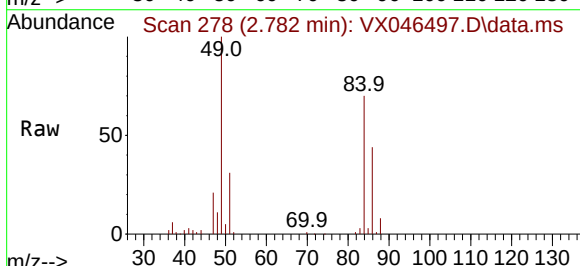
Ion Ratio Lower Upper

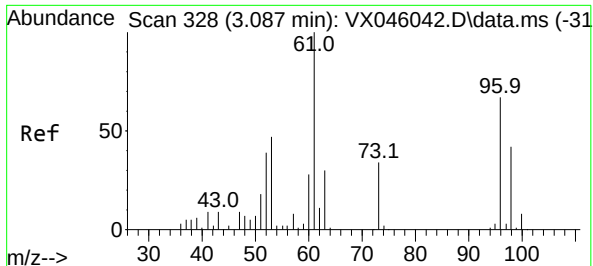
84 100

49 141.9 113.9 170.9

51 44.1 33.5 50.3

86 62.5 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 20.402 ug/l

RT: 3.087 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 96 Resp: 2055

Ion Ratio Lower Upper

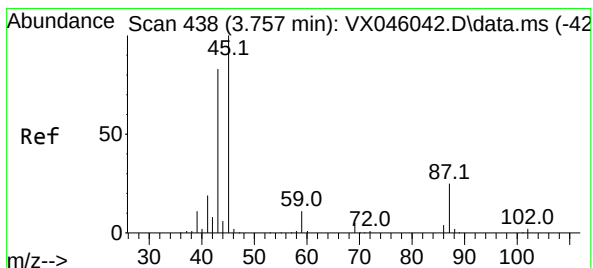
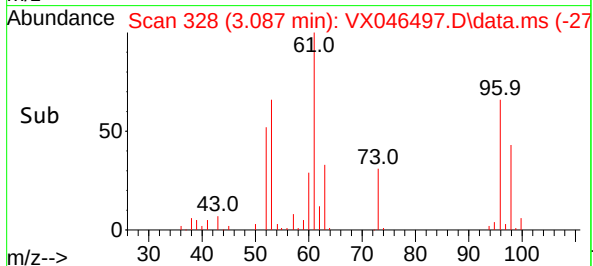
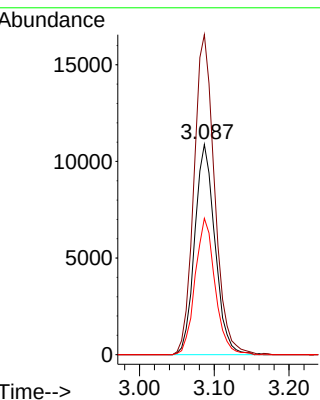
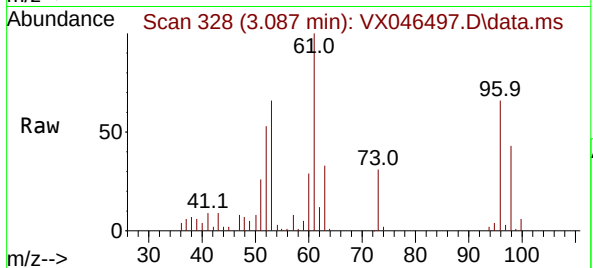
96 100

61 152.2 119.5 179.3

98 64.9 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#22

Diisopropyl ether

Concen: 23.245 ug/l

RT: 3.763 min Scan# 439

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Tgt Ion: 45 Resp: 85964

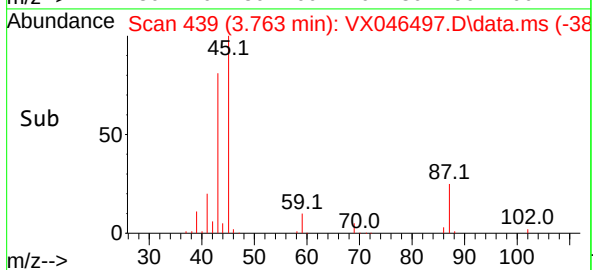
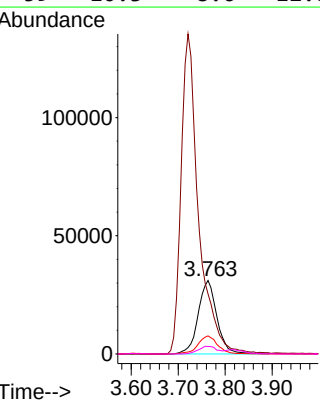
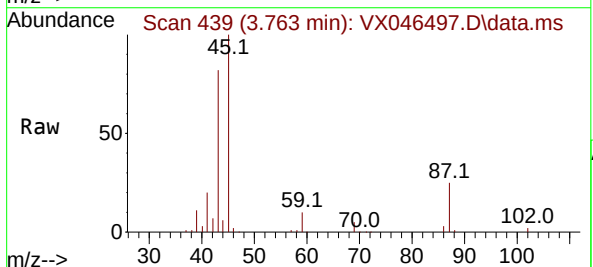
Ion Ratio Lower Upper

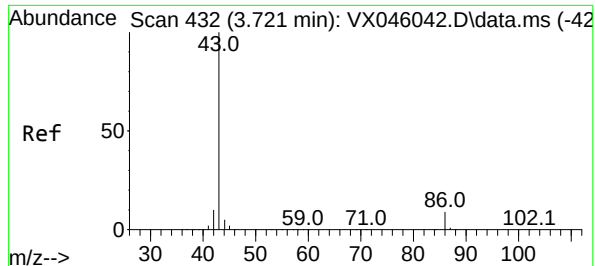
45 100

43 80.9 66.6 100.0

87 24.7 19.8 29.6

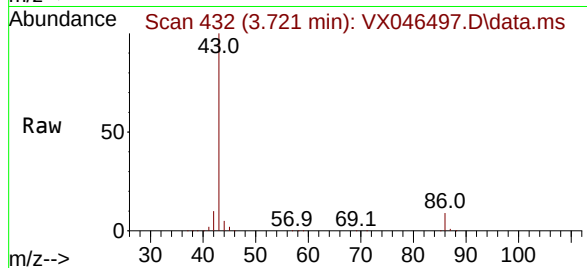
59 10.3 8.6 12.8





#23  
 Vinyl Acetate  
 Concen: 108.297 ug/l  
 RT: 3.721 min Scan# 413  
 Delta R.T. -0.000 min  
 Lab File: VX046497.D  
 Acq: 04 Jun 2025 13:52

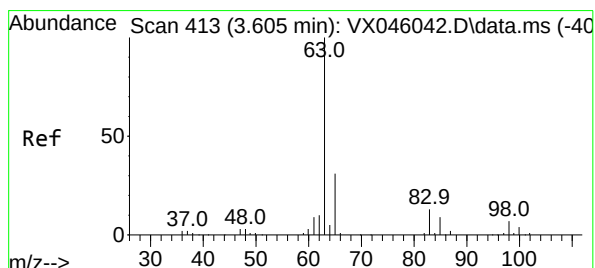
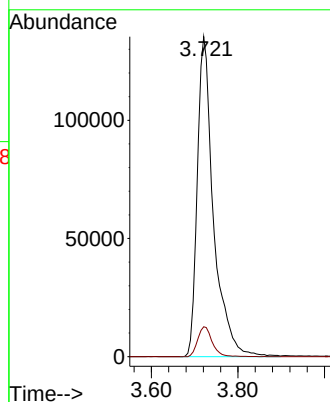
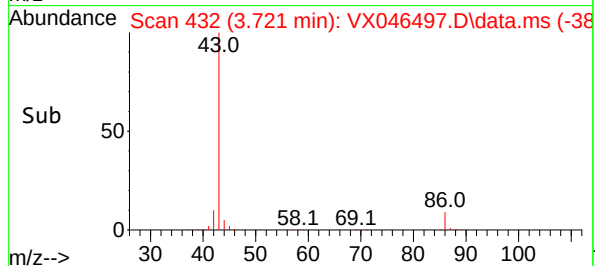
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBSD01



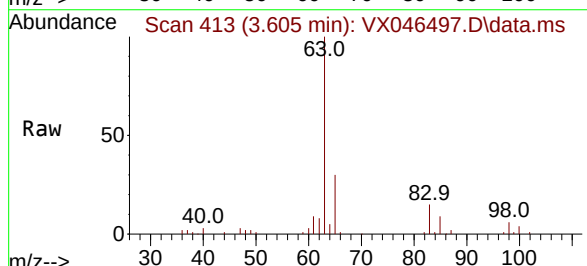
Tgt Ion: 43 Resp: 35225  
 Ion Ratio Lower Upper  
 43 100  
 86 9.3 7.5 11.3

Manual Integrations  
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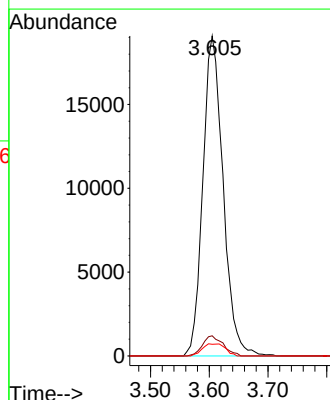
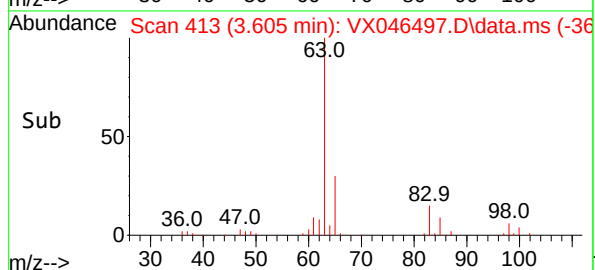
Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

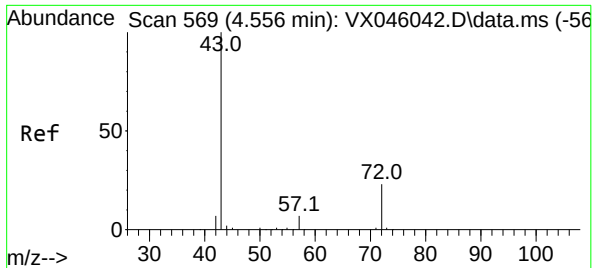


#24  
 1,1-Dichloroethane  
 Concen: 22.237 ug/l  
 RT: 3.605 min Scan# 413  
 Delta R.T. -0.000 min  
 Lab File: VX046497.D  
 Acq: 04 Jun 2025 13:52



Tgt Ion: 63 Resp: 45805  
 Ion Ratio Lower Upper  
 63 100  
 98 6.3 3.6 10.8  
 100 3.7 2.1 6.3





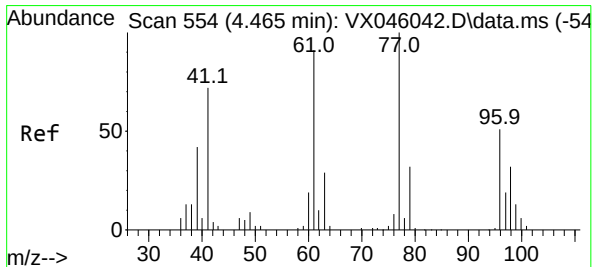
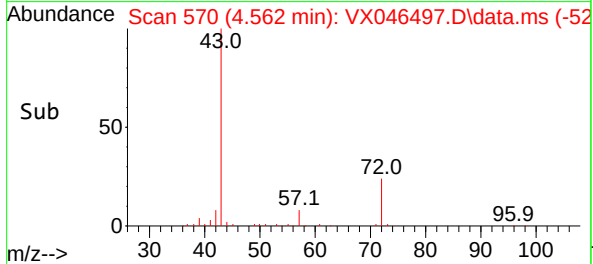
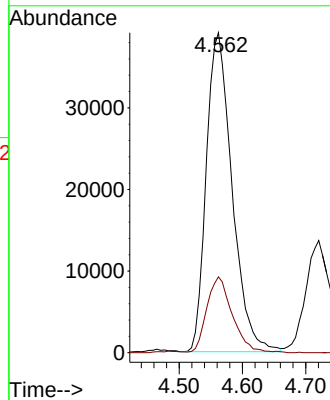
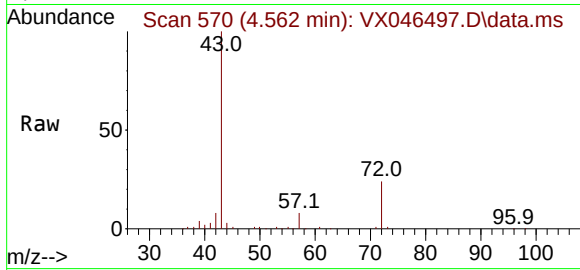
#25  
2-Butanone  
Concen: 120.545 ug/l  
RT: 4.562 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 43 Resp: 110519  
Ion Ratio Lower Upper  
43 100  
72 23.5 18.4 27.6

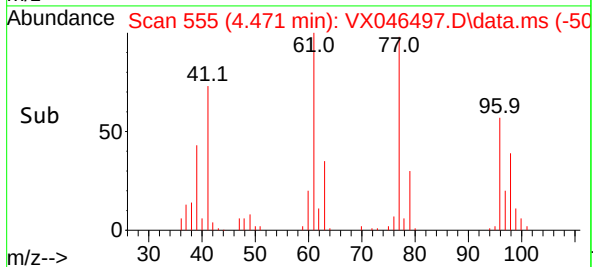
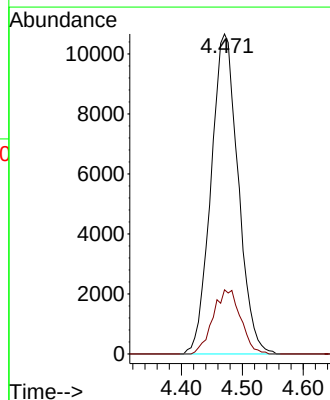
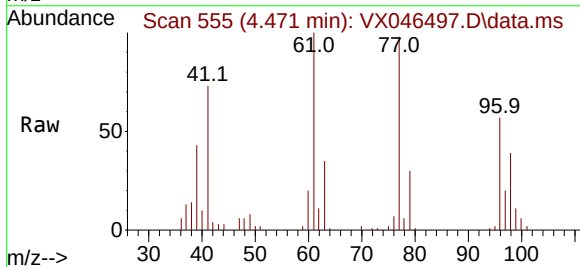
Manual Integrations  
APPROVED

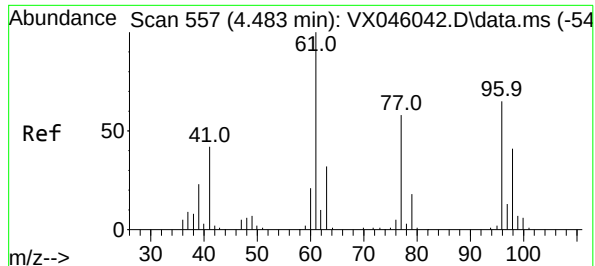
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#26  
2,2-Dichloropropane  
Concen: 20.465 ug/l  
RT: 4.471 min Scan# 555  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 77 Resp: 32995  
Ion Ratio Lower Upper  
77 100  
97 20.4 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 21.998 ug/l

RT: 4.489 min Scan# 557

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 96 Resp: 26678

Ion Ratio Lower Upper

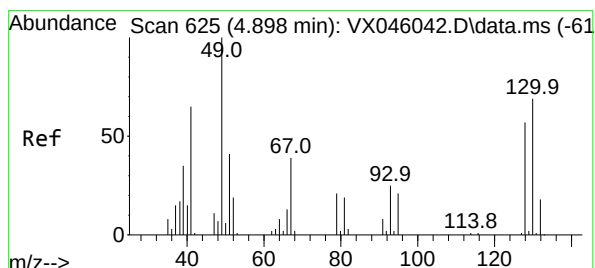
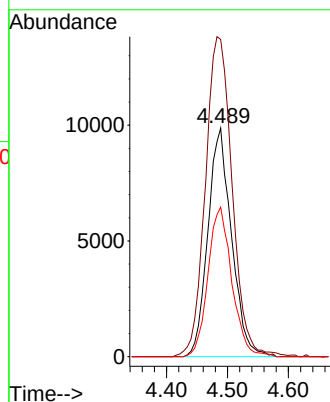
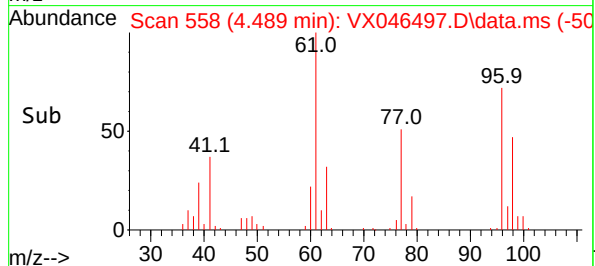
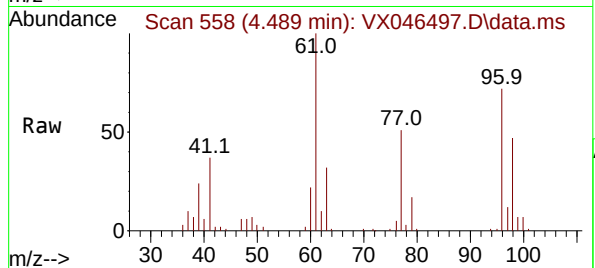
96 100

61 158.5 0.0 322.8

98 65.9 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#28

Bromochloromethane

Concen: 23.044 ug/l

RT: 4.897 min Scan# 625

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

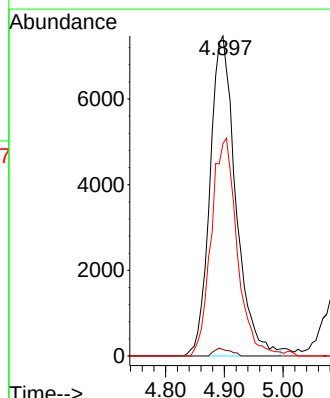
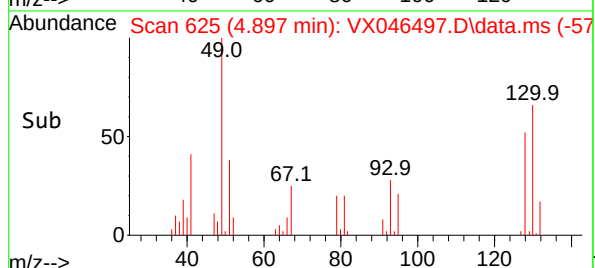
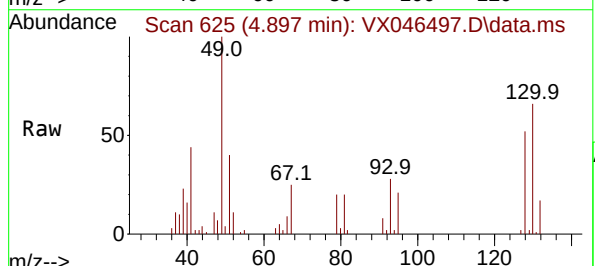
Tgt Ion: 49 Resp: 22848

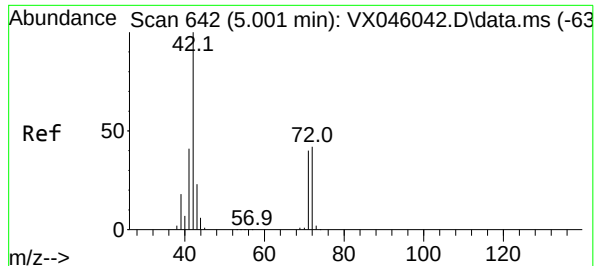
Ion Ratio Lower Upper

49 100

129 1.5 0.0 4.0

130 68.2 56.2 84.2





#29

Tetrahydrofuran

Concen: 121.397 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 42 Resp: 6974

Ion Ratio Lower Upper

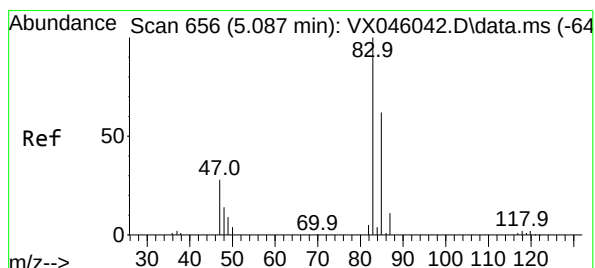
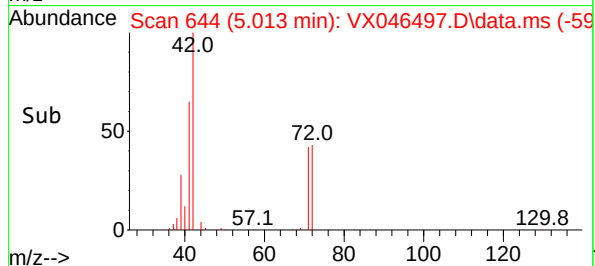
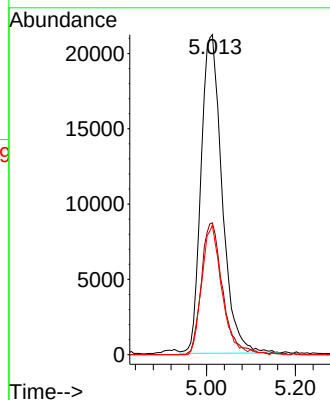
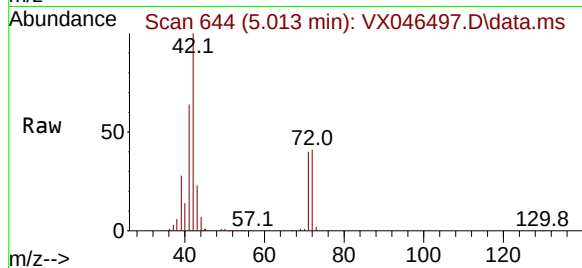
42 100

72 41.9 33.7 50.5

71 38.4 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#30

Chloroform

Concen: 22.570 ug/l

RT: 5.092 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX046497.D

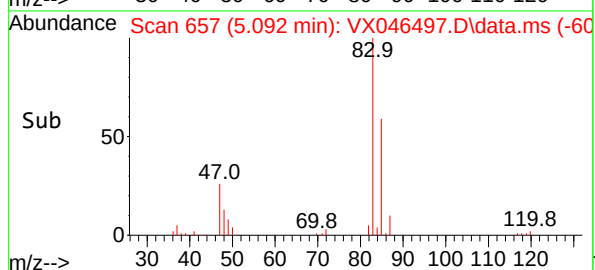
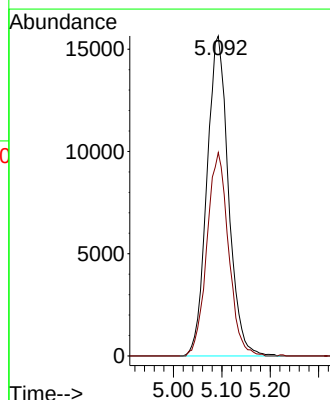
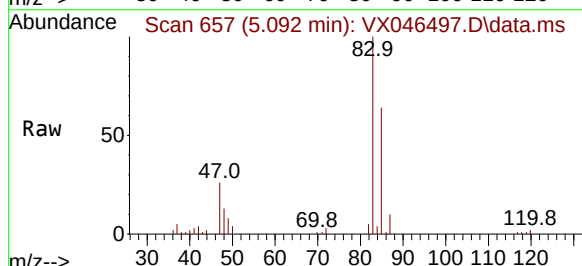
Acq: 04 Jun 2025 13:52

Tgt Ion: 83 Resp: 48458

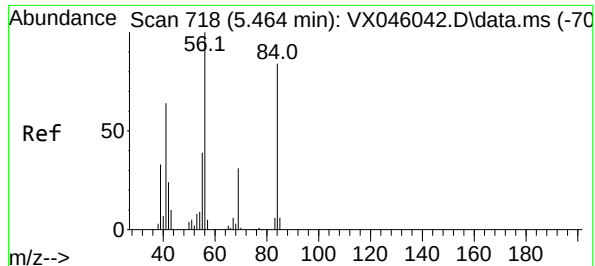
Ion Ratio Lower Upper

83 100

85 63.6 49.3 73.9







#31

Cyclohexane

Concen: 21.123 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX046497.D

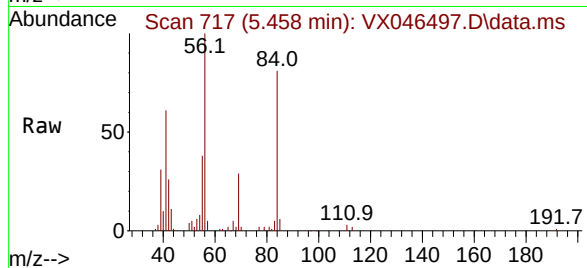
Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01



Tgt Ion: 56 Resp: 39649

Ion Ratio Lower Upper

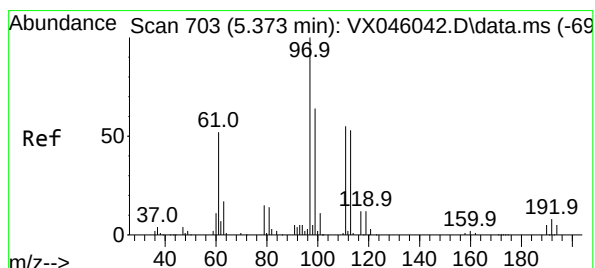
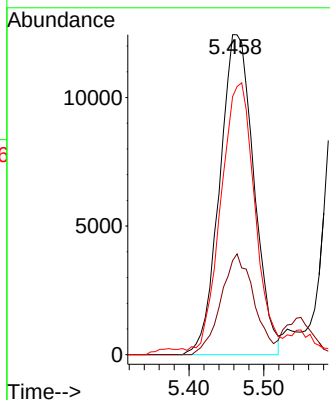
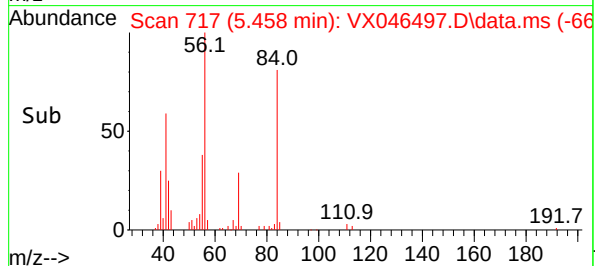
56 100

69 29.4 24.4 36.6

84 79.0 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#32

1,1,1-Trichloroethane

Concen: 22.500 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

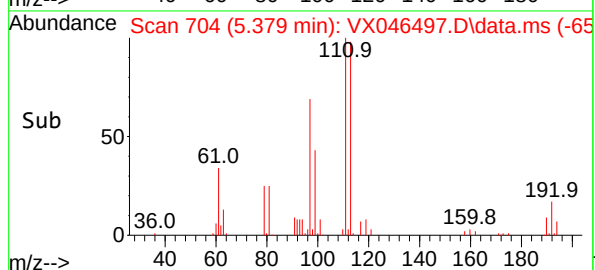
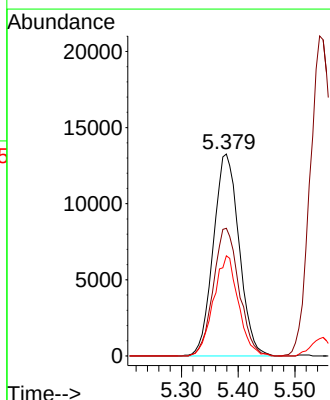
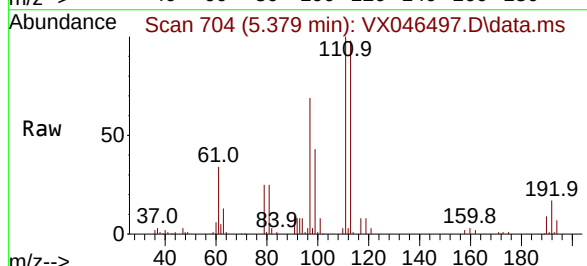
Tgt Ion: 97 Resp: 41875

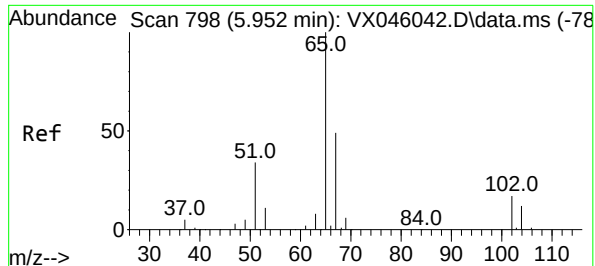
Ion Ratio Lower Upper

97 100

99 63.1 51.8 77.6

61 47.9 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 51.661 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 65 Resp: 8136

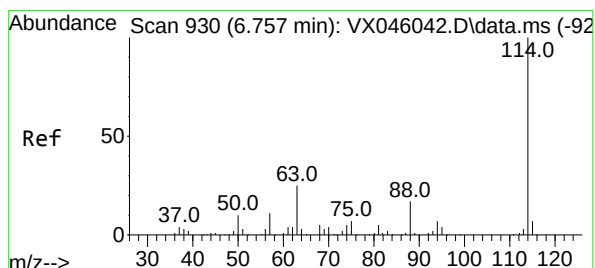
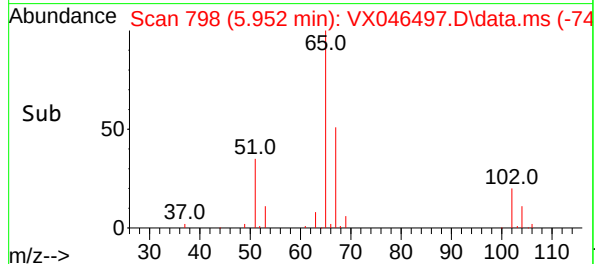
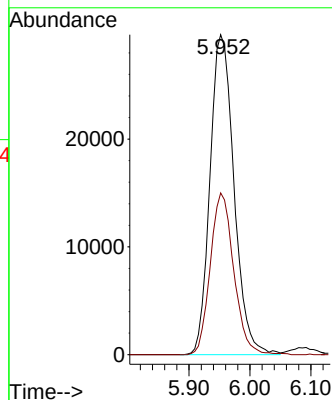
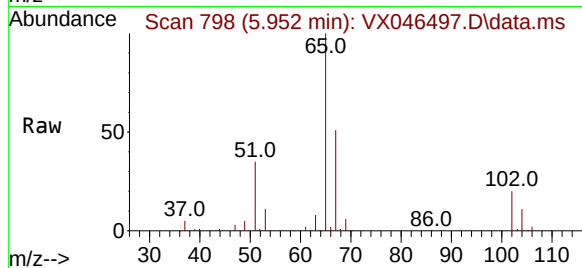
Ion Ratio Lower Upper

65 100

67 49.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

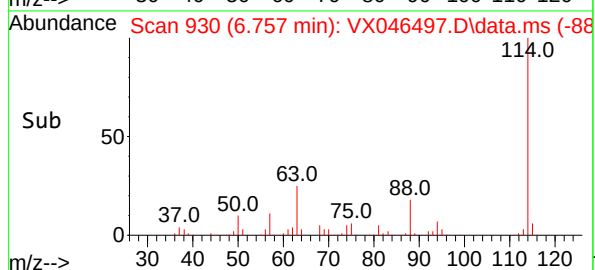
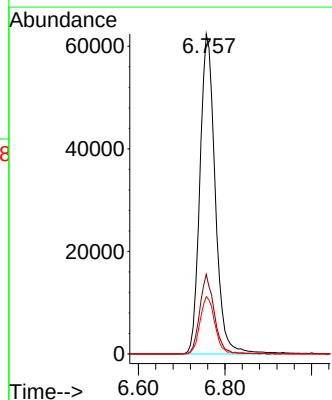
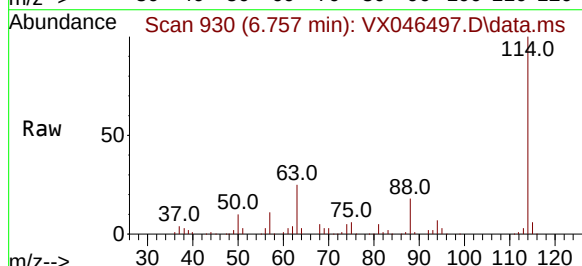
Tgt Ion:114 Resp: 152834

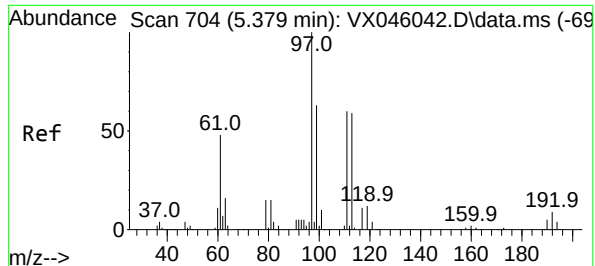
Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

88 17.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.079 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion:113 Resp: 57310

Ion Ratio Lower Upper

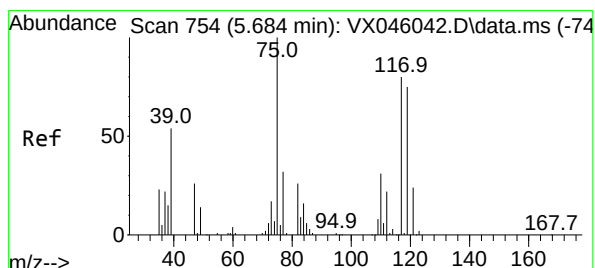
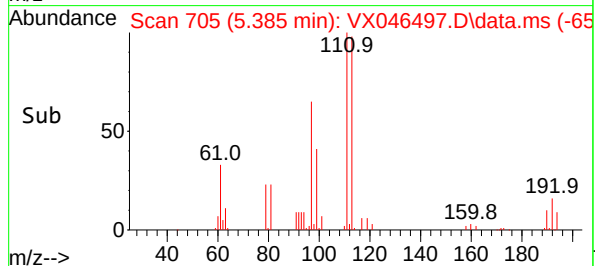
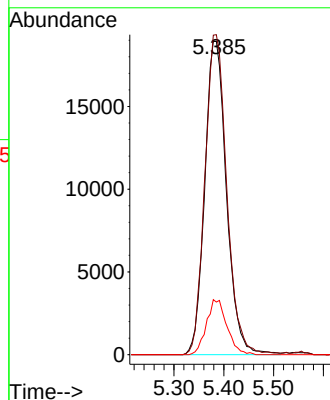
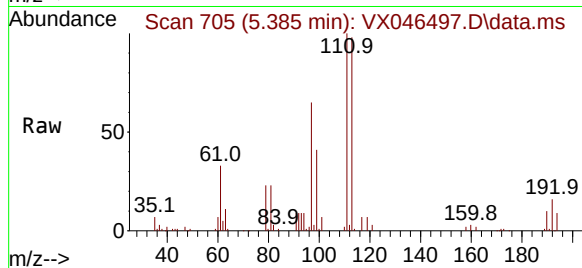
113 100

111 102.9 83.1 124.7

192 16.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#36

1,1-Dichloropropene

Concen: 20.829 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

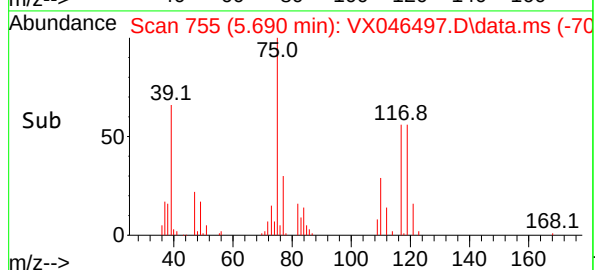
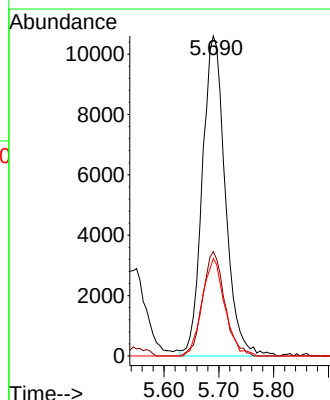
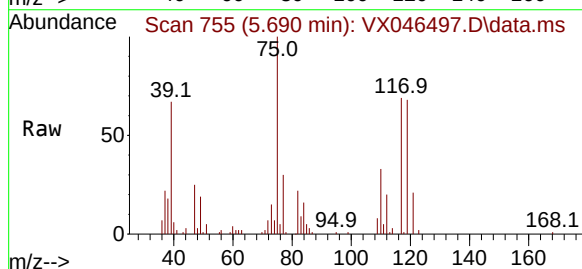
Tgt Ion: 75 Resp: 30800

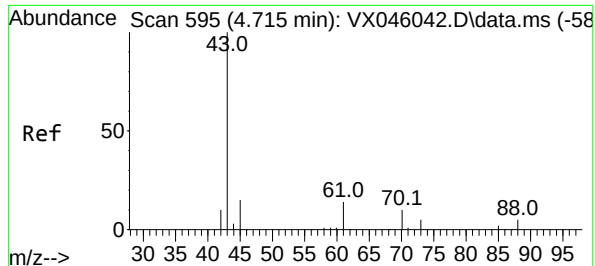
Ion Ratio Lower Upper

75 100

110 31.5 16.3 48.9

77 30.0 24.3 36.5





#37

Ethyl Acetate

Concen: 21.968 ug/l

RT: 4.721 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

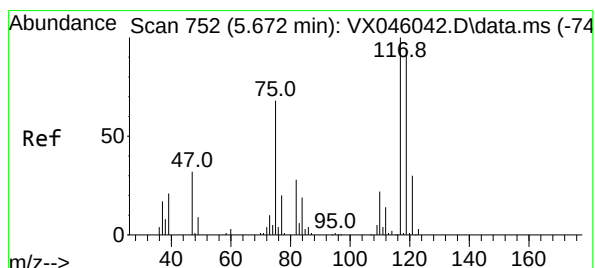
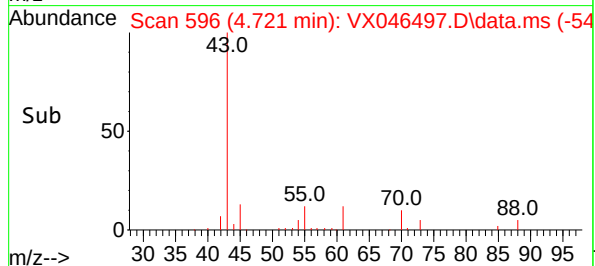
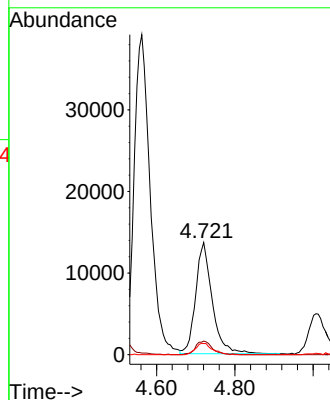
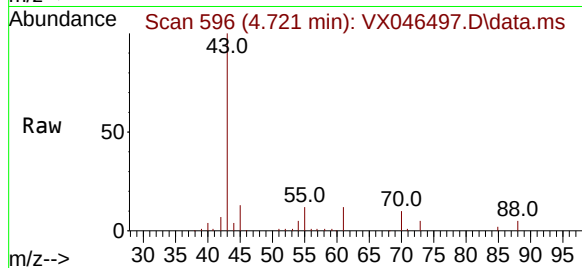
Tgt Ion: 43 Resp: 4013

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 12.1  | 10.3  | 15.5  |
| 70  | 10.4  | 7.9   | 11.9  |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#38

Carbon Tetrachloride

Concen: 20.399 ug/l

RT: 5.678 min Scan# 753

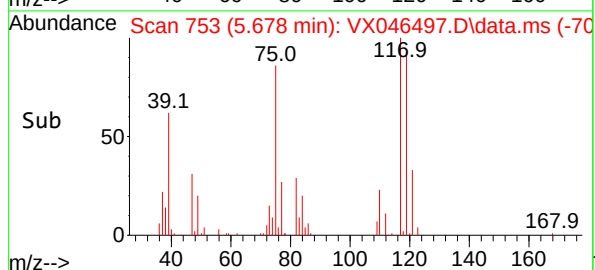
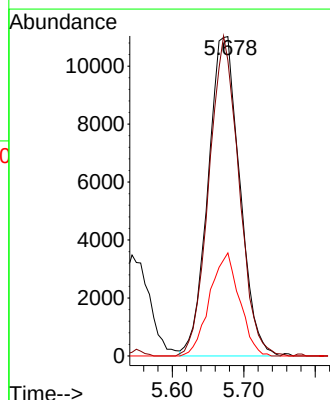
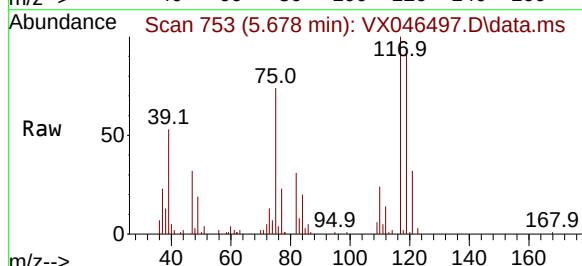
Delta R.T. 0.006 min

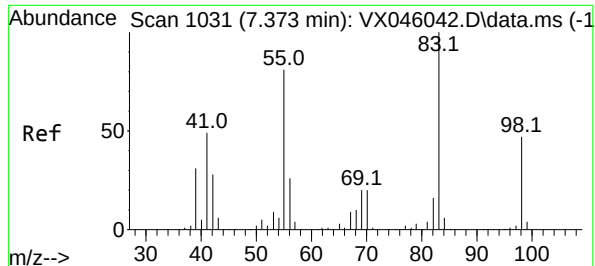
Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Tgt Ion:117 Resp: 33893

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 91.9  | 75.2  | 112.8 |
| 121 | 32.2  | 24.2  | 36.4  |





#39

Methylcyclohexane

Concen: 19.934 ug/l

RT: 7.379 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 83 Resp: 37949

Ion Ratio Lower Upper

83 100

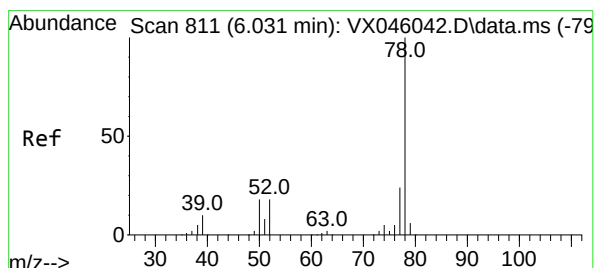
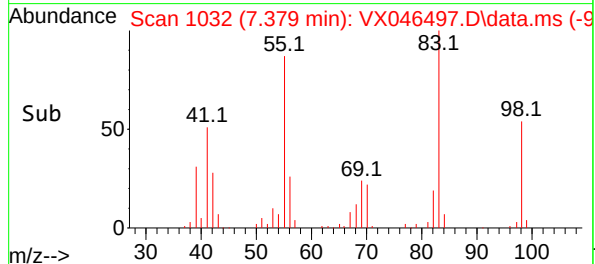
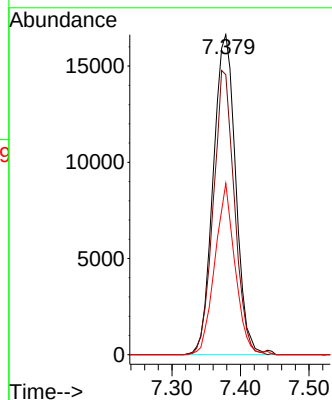
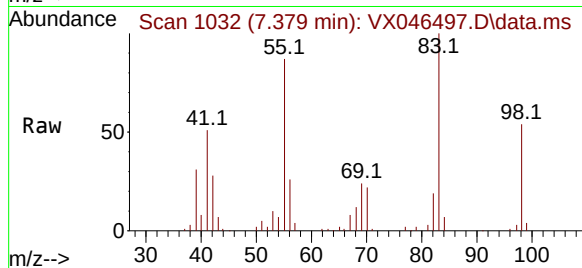
55 87.5 64.7 97.1

98 53.5 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#40

Benzene

Concen: 21.436 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX046497.D

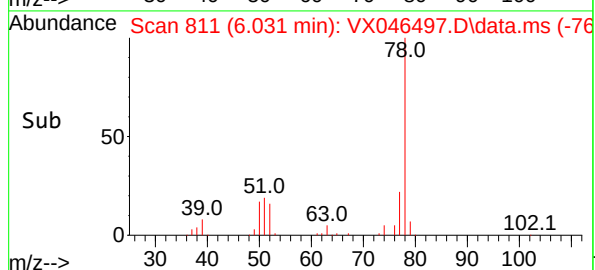
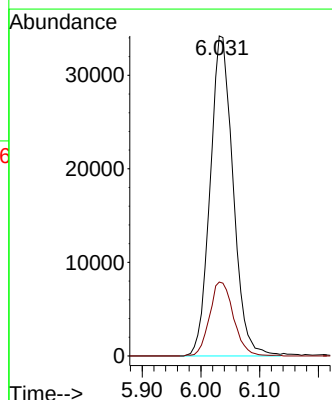
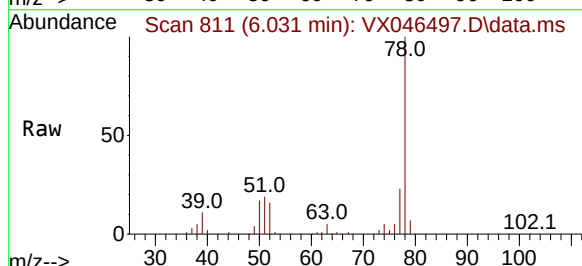
Acq: 04 Jun 2025 13:52

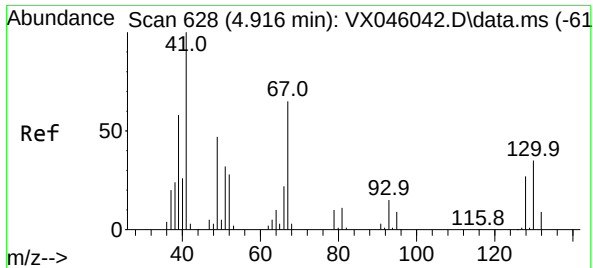
Tgt Ion: 78 Resp: 92846

Ion Ratio Lower Upper

78 100

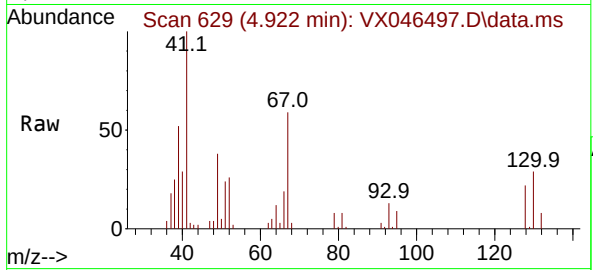
77 23.1 19.0 28.4





#41  
Methacrylonitrile  
Concen: 26.155 ug/l  
RT: 4.922 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

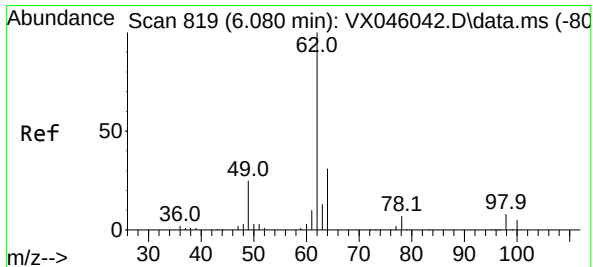
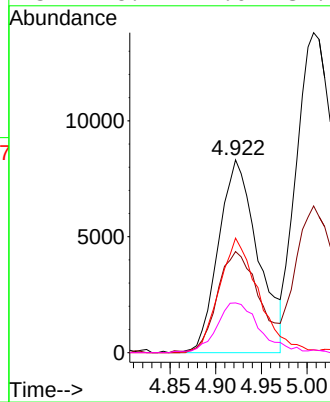
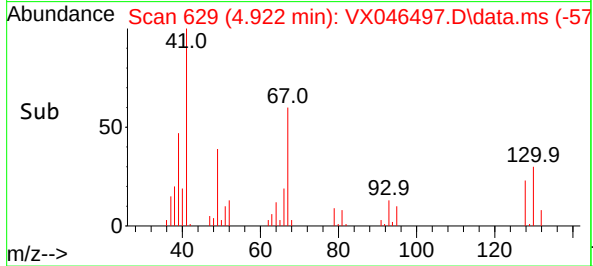
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion: 41 Resp: 24990  
Ion Ratio Lower Upper  
41 100  
39 56.0 47.2 70.8  
67 59.5 50.7 76.1  
52 28.1 24.6 37.0

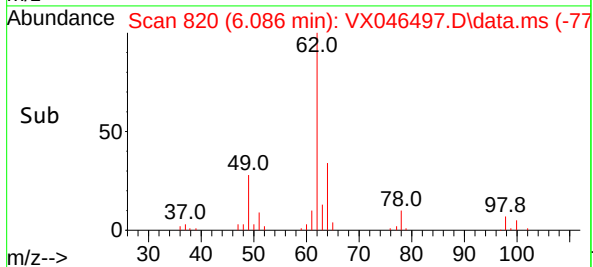
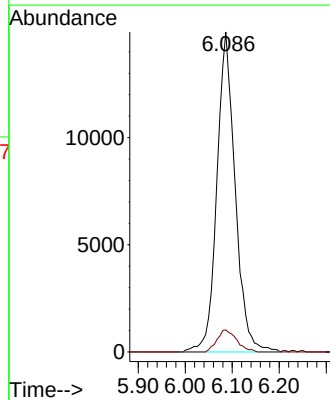
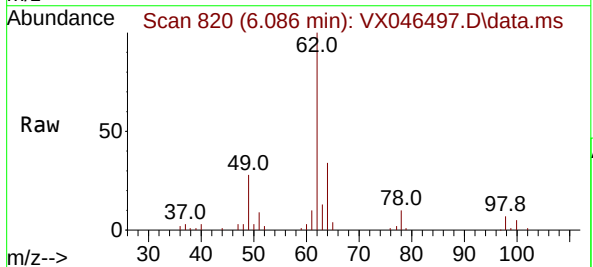
Manual Integrations  
APPROVED

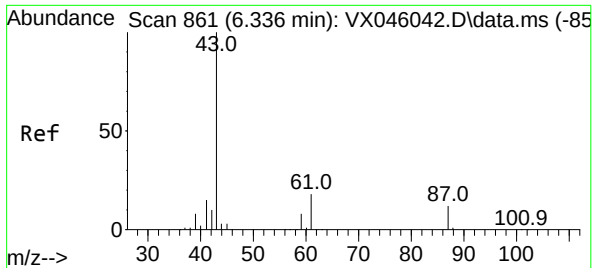
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#42  
1,2-Dichloroethane  
Concen: 21.614 ug/l  
RT: 6.086 min Scan# 820  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

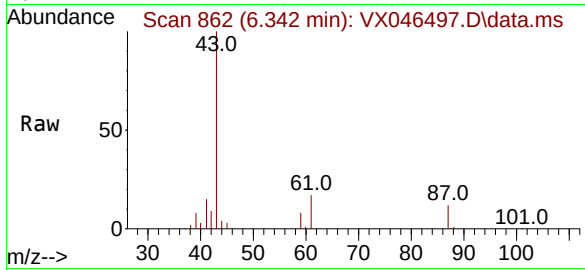
Tgt Ion: 62 Resp: 40404  
Ion Ratio Lower Upper  
62 100  
98 7.4 0.0 15.2





#43  
Isopropyl Acetate  
Concen: 23.192 ug/l  
RT: 6.342 min Scan# 861  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

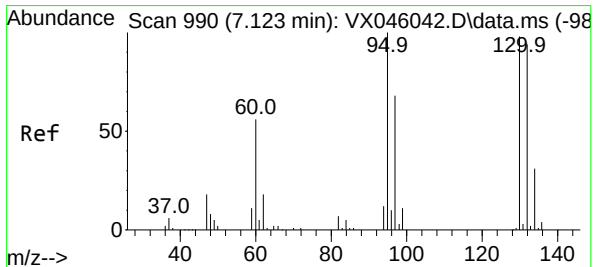
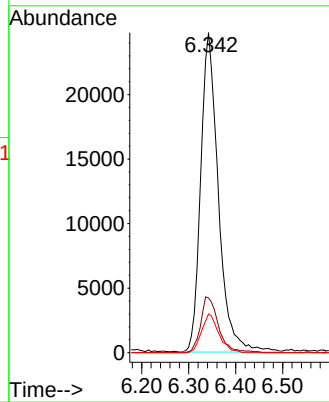
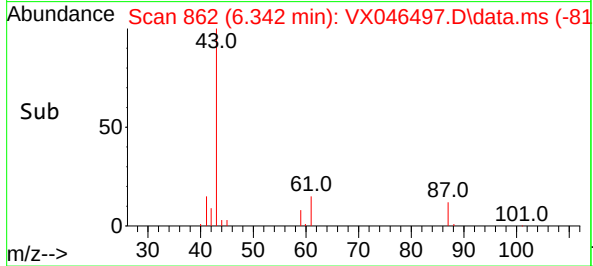
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion: 43 Resp: 64639  
Ion Ratio Lower Upper  
43 100  
61 17.6 14.3 21.5  
87 11.7 9.5 14.3

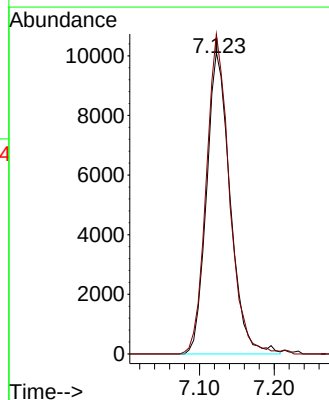
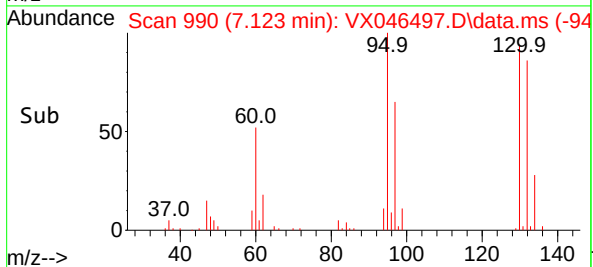
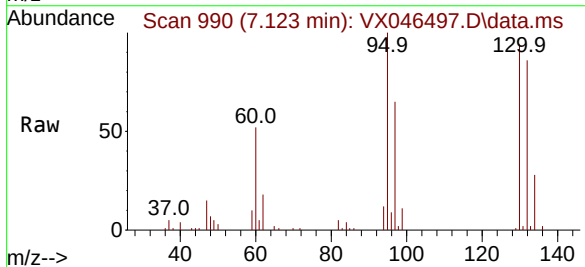
Manual Integrations  
APPROVED

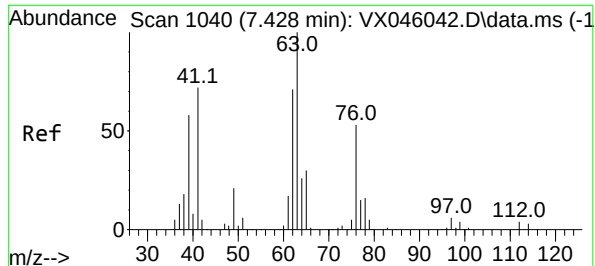
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#44  
Trichloroethene  
Concen: 21.281 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:130 Resp: 22185  
Ion Ratio Lower Upper  
130 100  
95 106.1 0.0 204.2





#45

1,2-Dichloropropane

Concen: 22.070 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 63 Resp: 23770

Ion Ratio Lower Upper

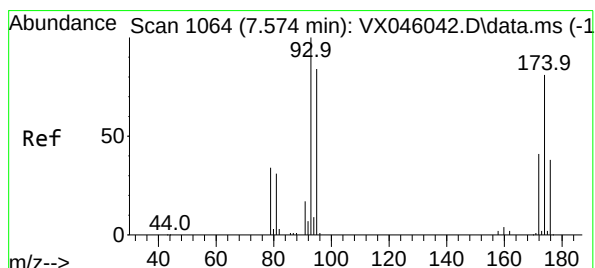
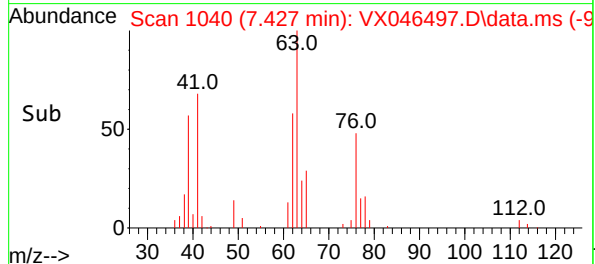
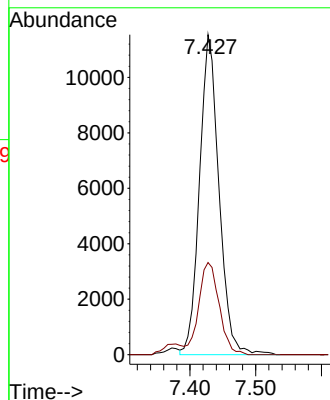
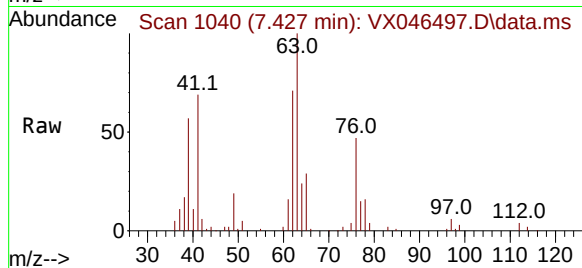
63 100

65 28.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#46

Dibromomethane

Concen: 21.529 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

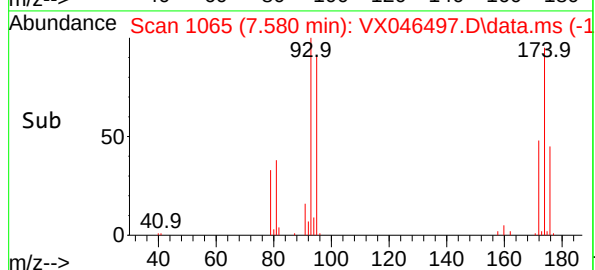
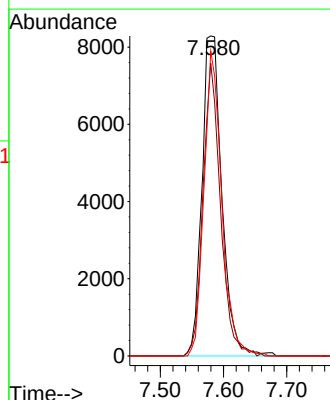
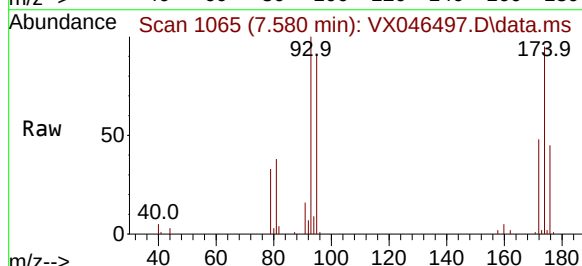
Tgt Ion: 93 Resp: 18288

Ion Ratio Lower Upper

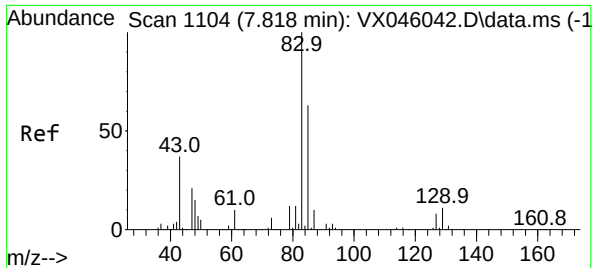
93 100

95 80.1 65.6 98.4

174 84.8 68.2 102.2







#47

Bromodichloromethane

Concen: 21.718 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

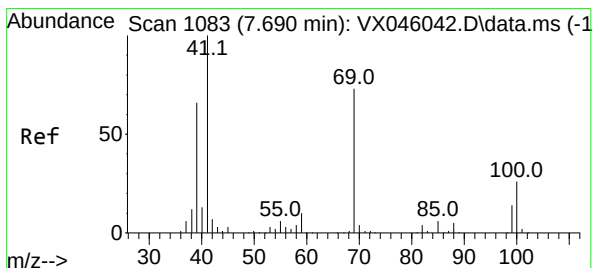
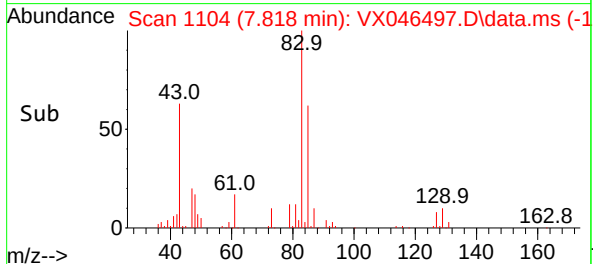
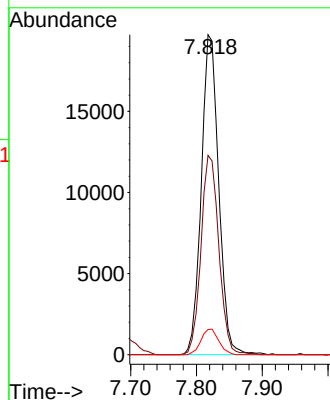
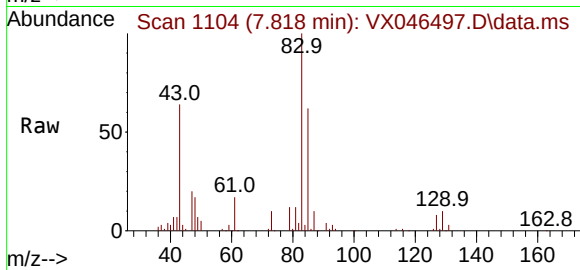
VX0604WBSD01

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 36330 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 62.2     | 50.5 75.7   |
| 127 7.8     | 6.5 9.7     |

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#48

Methyl methacrylate

Concen: 23.486 ug/l

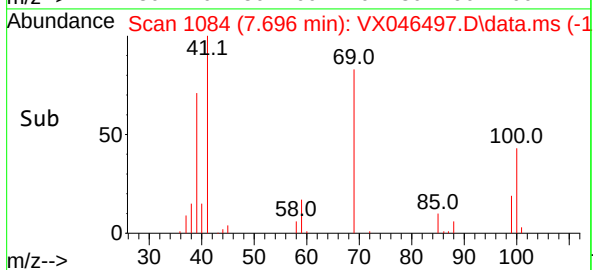
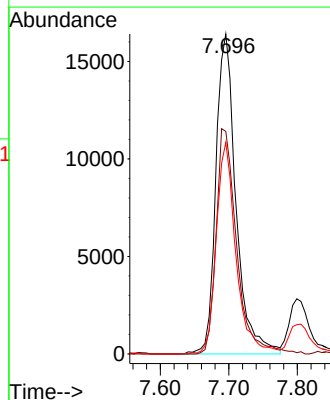
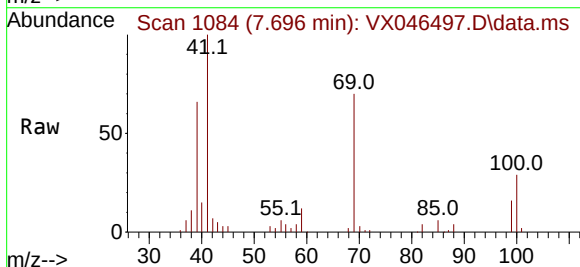
RT: 7.696 min Scan# 1084

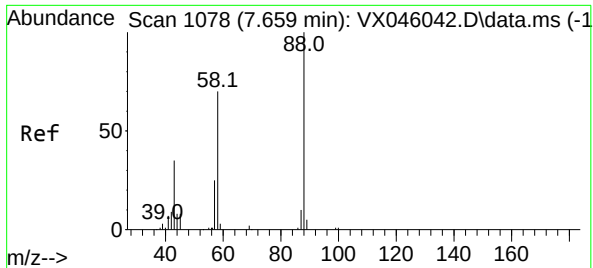
Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

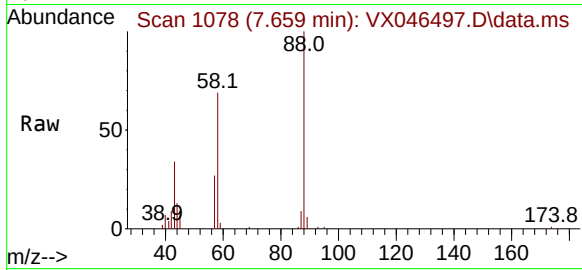
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 33430 |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 72.0     | 58.5 87.7   |
| 39 64.7     | 51.7 77.5   |





#49  
1,4-Dioxane  
Concen: 475.862 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

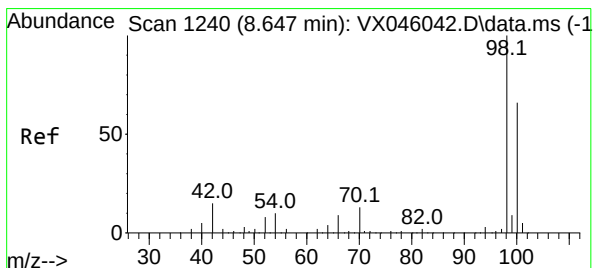
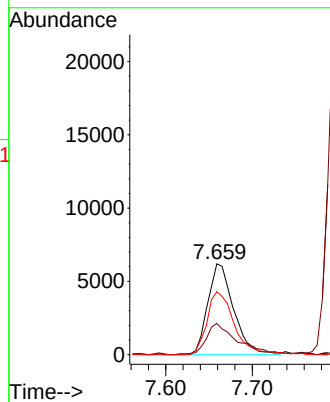
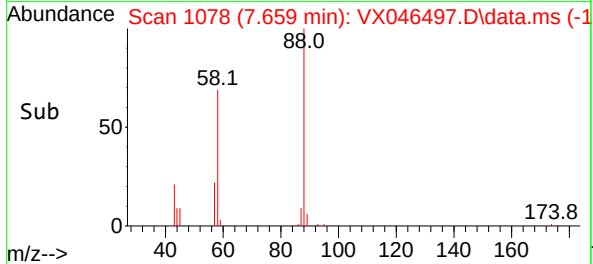
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion: 88 Resp: 1286  
Ion Ratio Lower Upper  
88 100  
43 41.5 33.4 50.2  
58 72.9 58.6 88.0

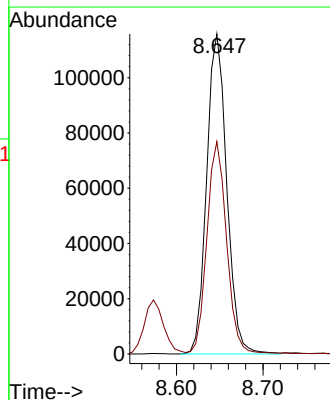
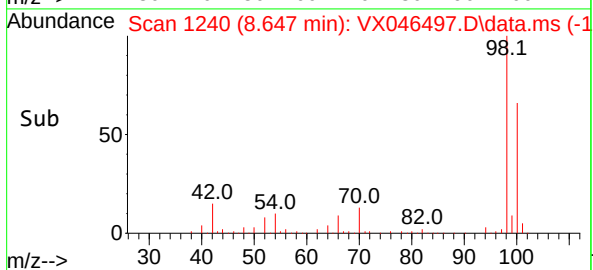
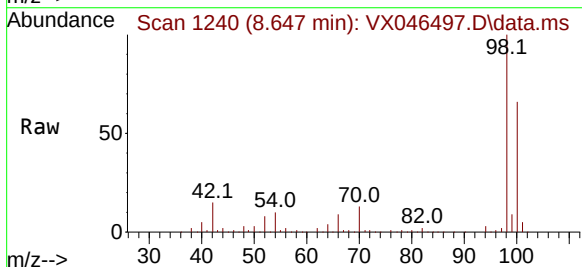
Manual Integrations  
APPROVED

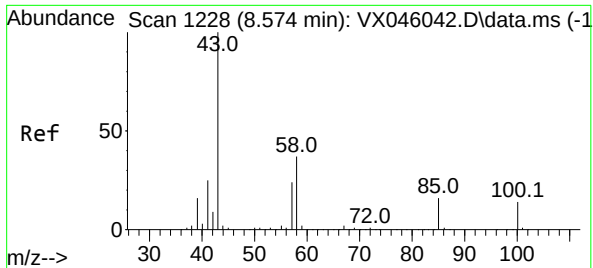
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#50  
Toluene-d8  
Concen: 49.031 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 98 Resp: 186769  
Ion Ratio Lower Upper  
98 100  
100 64.9 53.5 80.3





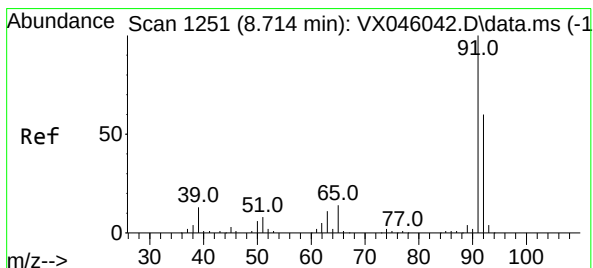
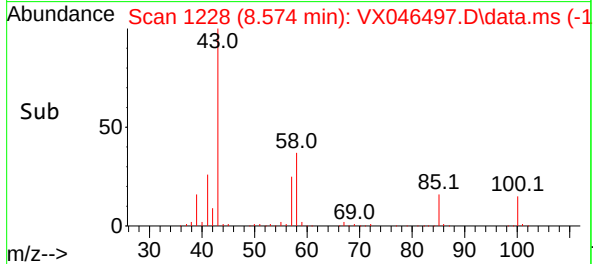
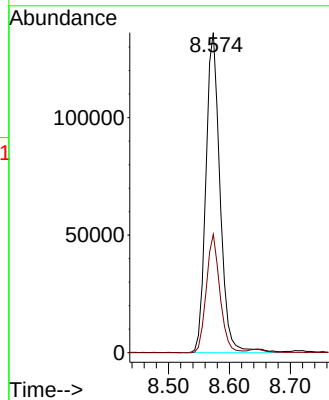
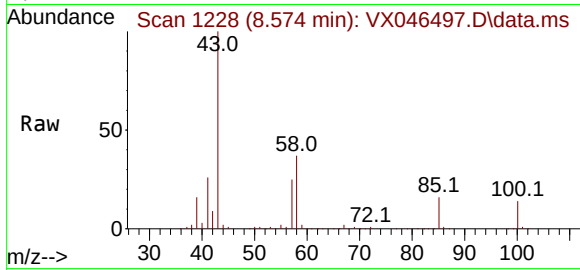
#51  
4-Methyl-2-Pentanone  
Concen: 119.115 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 43 Resp: 220370  
Ion Ratio Lower Upper  
43 100  
58 35.4 28.9 43.3

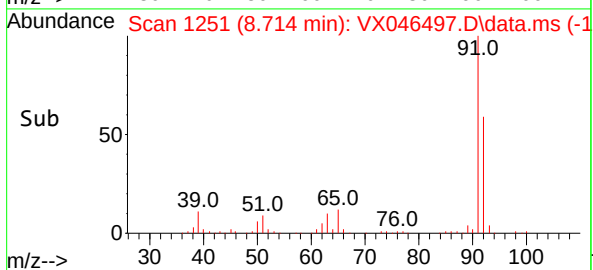
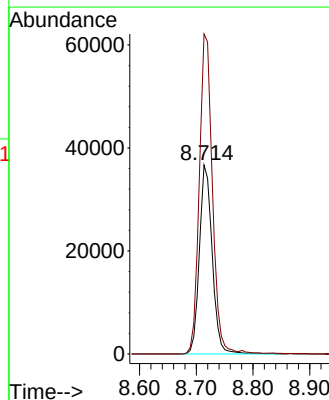
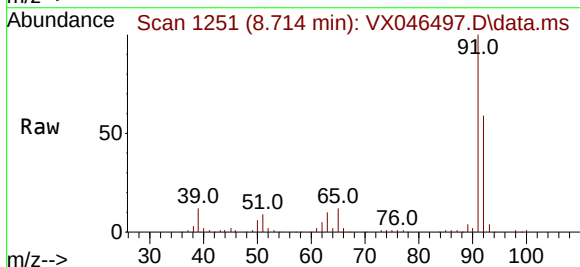
Manual Integrations  
APPROVED

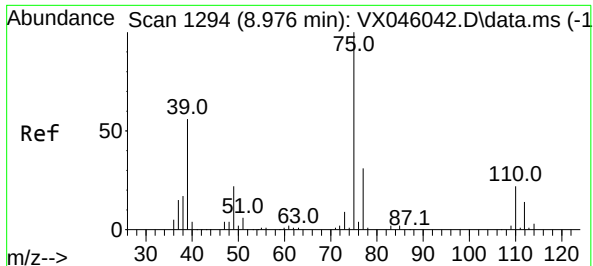
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#52  
Toluene  
Concen: 21.713 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 92 Resp: 57666  
Ion Ratio Lower Upper  
92 100  
91 173.6 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 20.675 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 75 Resp: 3074

Ion Ratio Lower Upper

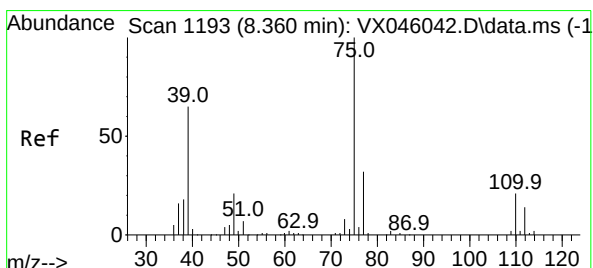
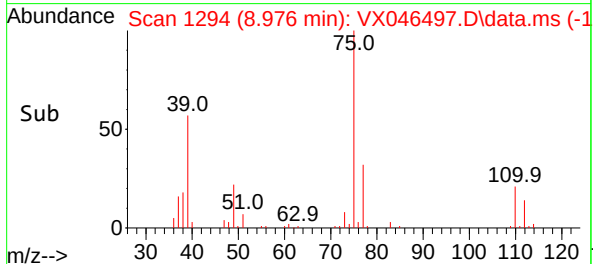
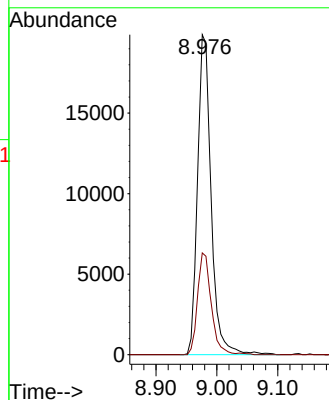
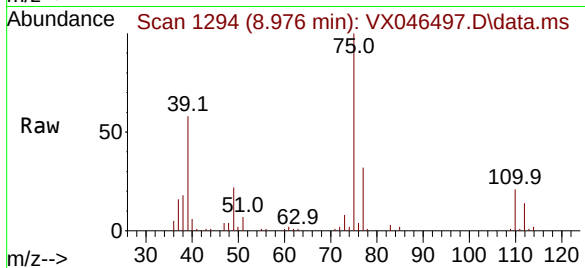
75 100

77 31.8 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#54

cis-1,3-Dichloropropene

Concen: 21.437 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

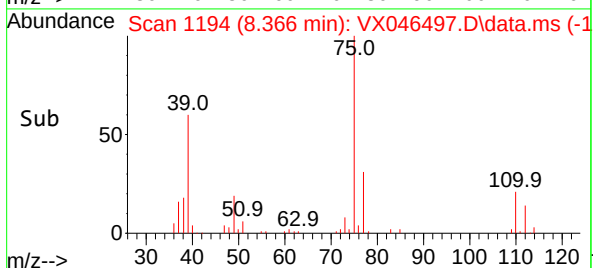
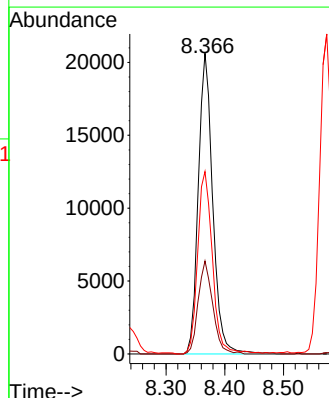
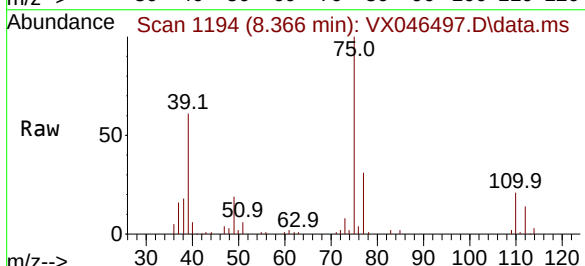
Tgt Ion: 75 Resp: 35234

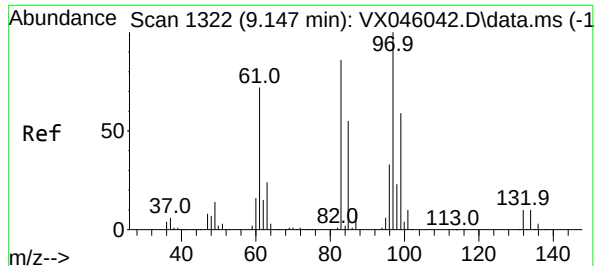
Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.0

39 60.6 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 22.204 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 97 Resp: 2325

Ion Ratio Lower Upper

97 100

83 89.2 69.0 103.6

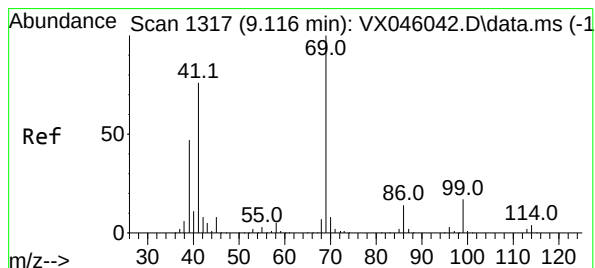
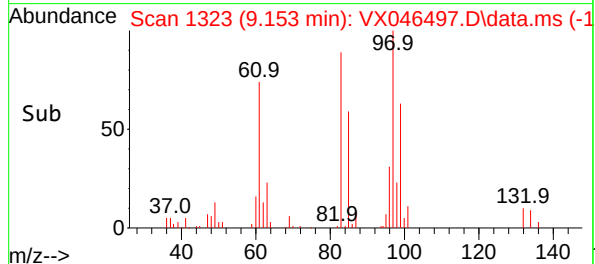
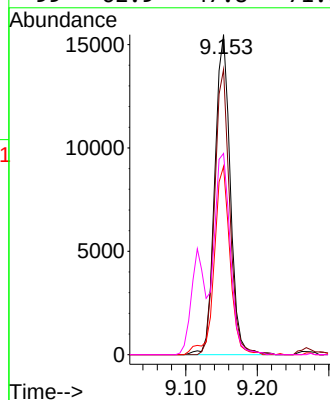
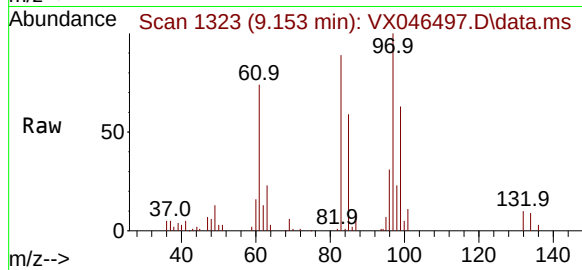
85 58.8 44.3 66.5

99 62.9 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#56

Ethyl methacrylate

Concen: 23.736 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

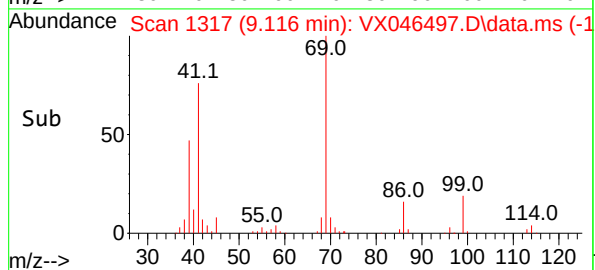
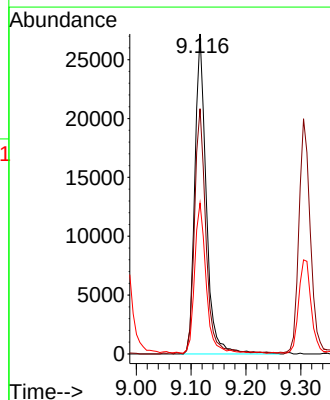
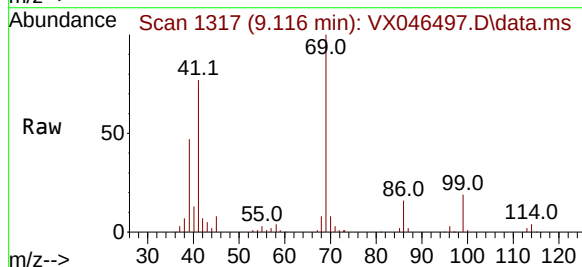
Tgt Ion: 69 Resp: 39616

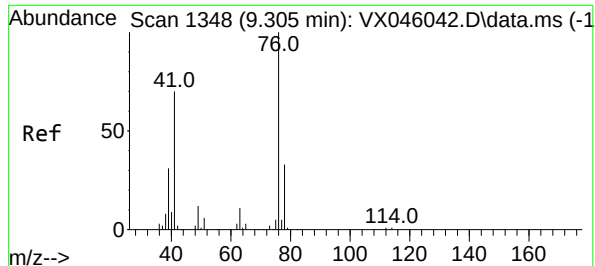
Ion Ratio Lower Upper

69 100

41 75.9 60.8 91.2

39 47.0 39.0 58.6





#57

1,3-Dichloropropane

Concen: 21.879 ug/l

RT: 9.305 min Scan# 1114

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 76 Resp: 4114

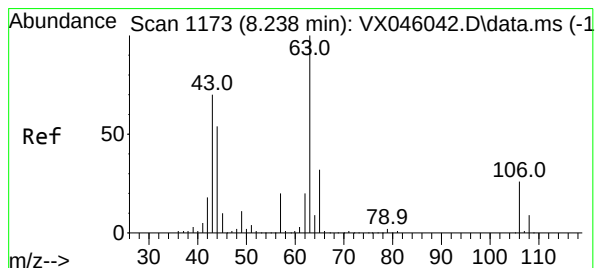
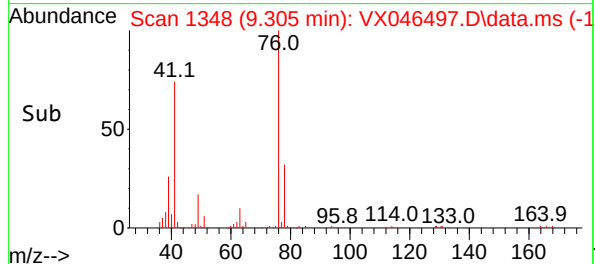
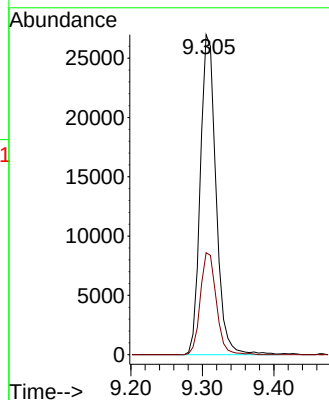
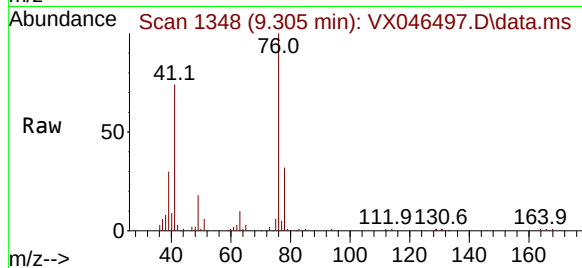
Ion Ratio Lower Upper

76 100

78 32.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

#58

2-Chloroethyl Vinyl ether

Concen: 116.070 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046497.D

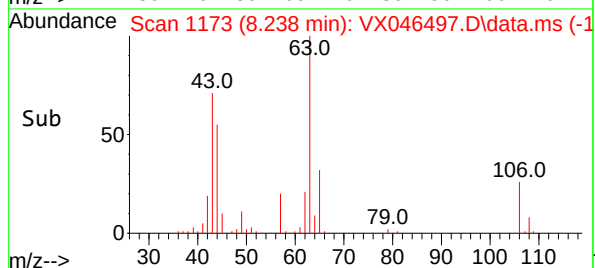
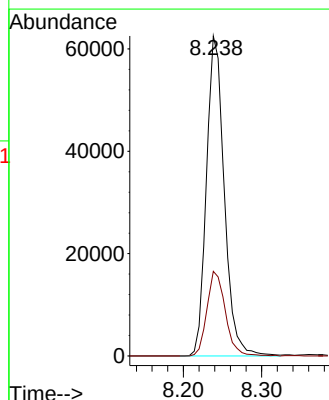
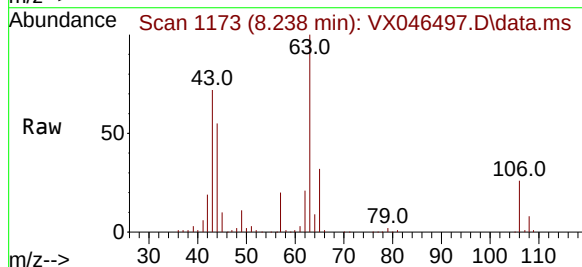
Acq: 04 Jun 2025 13:52

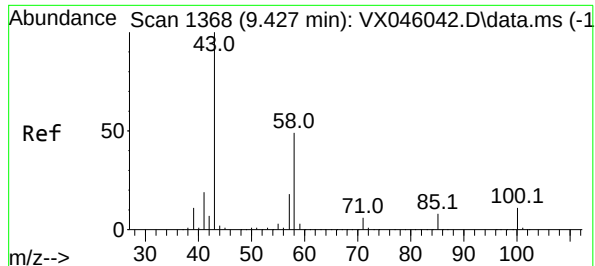
Tgt Ion: 63 Resp: 98765

Ion Ratio Lower Upper

63 100

106 27.3 21.5 32.3





#59

2-Hexanone

Concen: 122.961 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 43 Resp: 16830

Ion Ratio Lower Upper

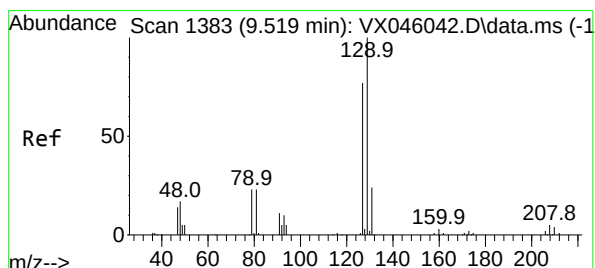
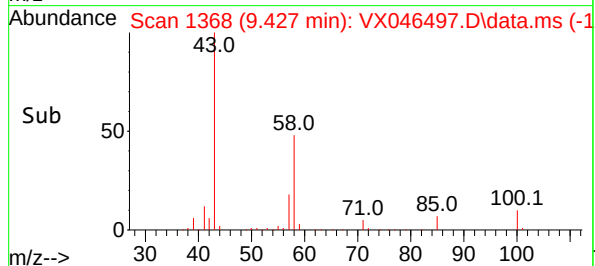
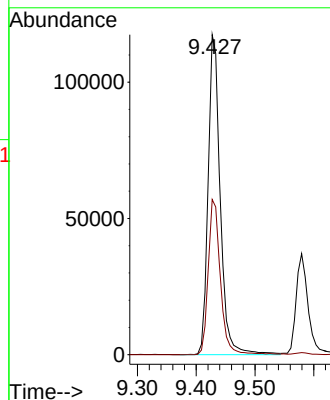
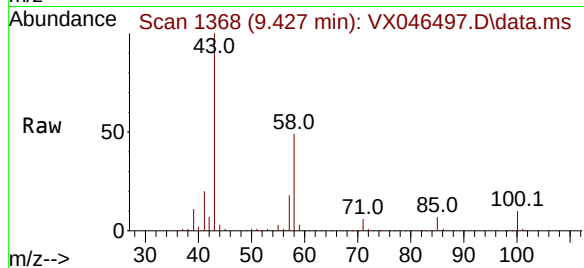
43 100

58 48.9 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#60

Dibromochloromethane

Concen: 21.558 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046497.D

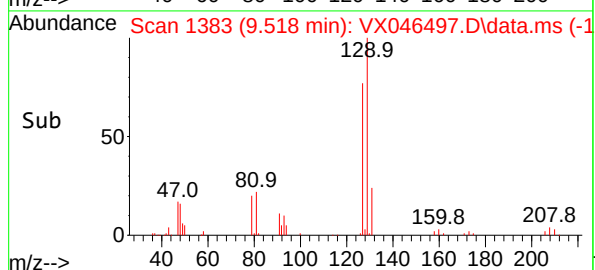
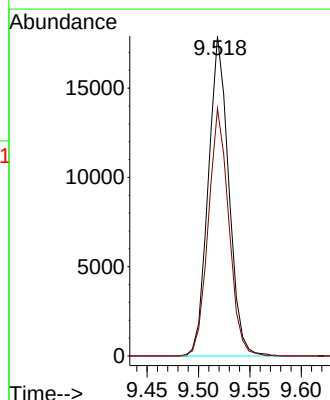
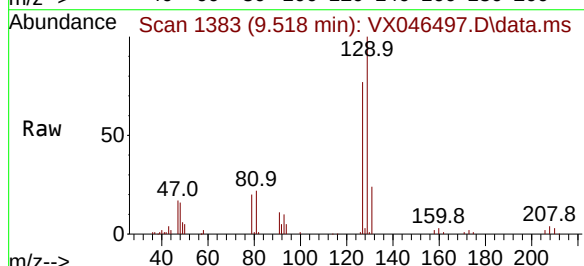
Acq: 04 Jun 2025 13:52

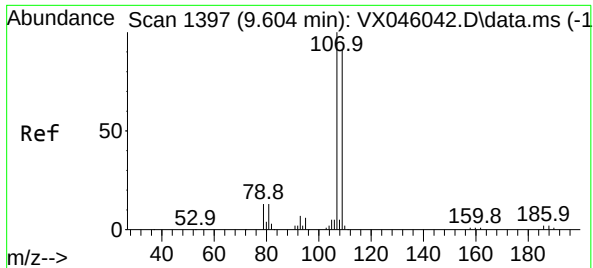
Tgt Ion:129 Resp: 24794

Ion Ratio Lower Upper

129 100

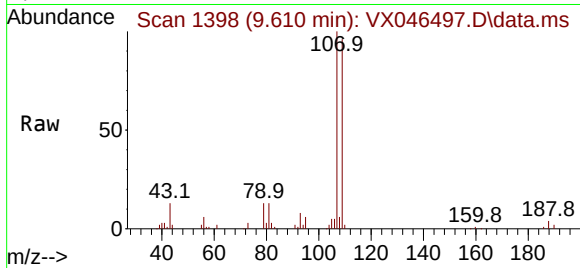
127 77.3 39.3 117.8





#61  
1,2-Dibromoethane  
Concen: 21.762 ug/l  
RT: 9.610 min Scan# 1398  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

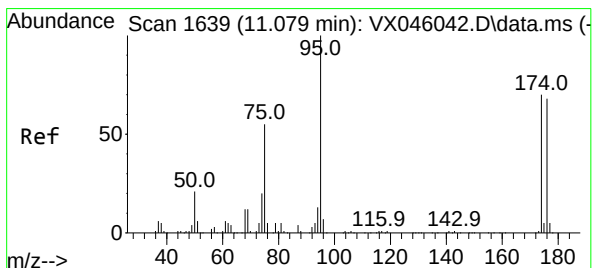
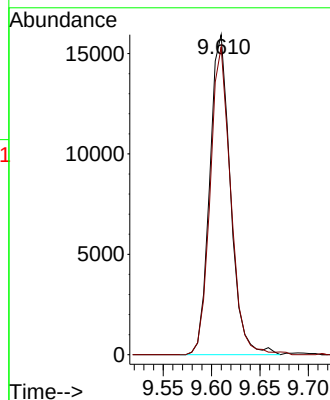
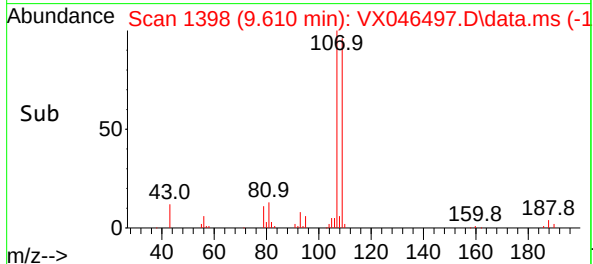
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:107 Resp: 2368  
Ion Ratio Lower Upper  
107 100  
109 95.6 73.3 109.9

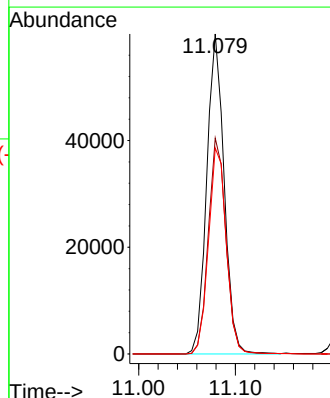
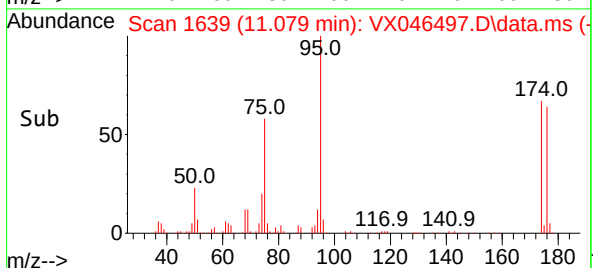
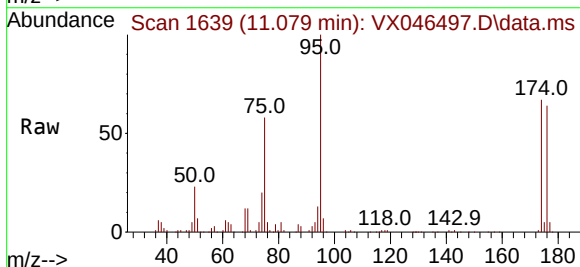
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

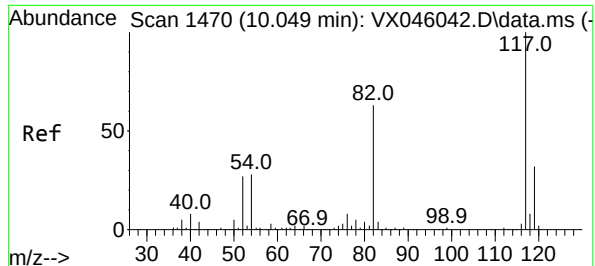


#62  
4-Bromofluorobenzene  
Concen: 51.347 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 95 Resp: 75026  
Ion Ratio Lower Upper  
95 100  
174 68.2 0.0 135.8  
176 66.1 0.0 131.4

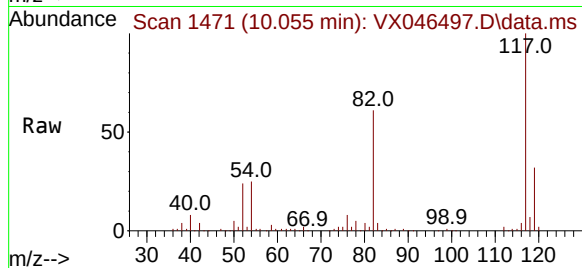






#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

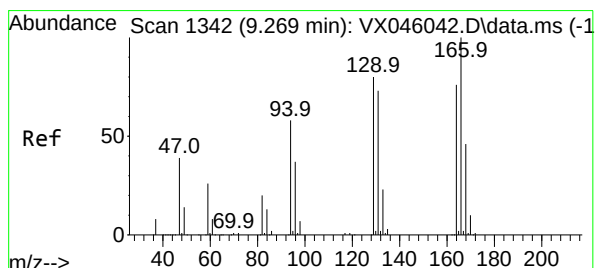
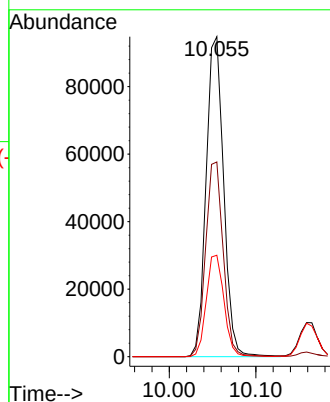
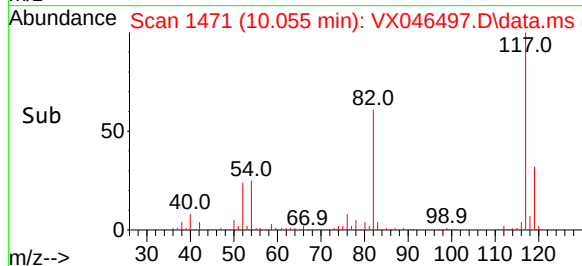
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:117 Resp: 133225  
Ion Ratio Lower Upper  
117 100  
82 60.8 50.6 76.0  
119 31.7 25.8 38.6

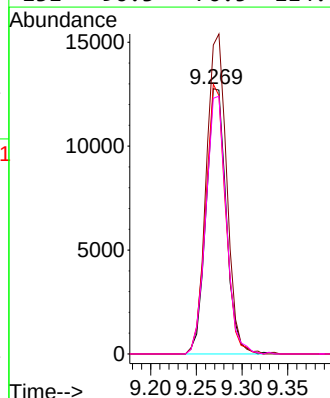
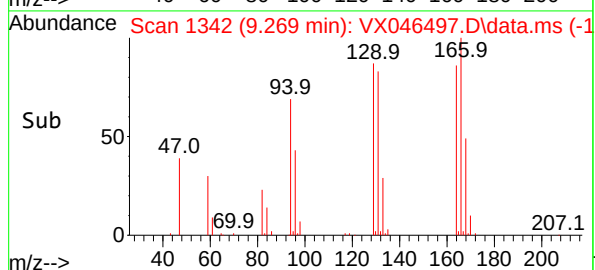
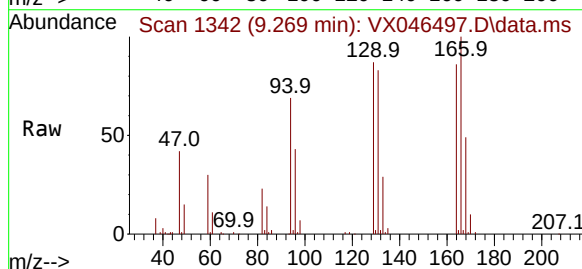
Manual Integrations  
APPROVED

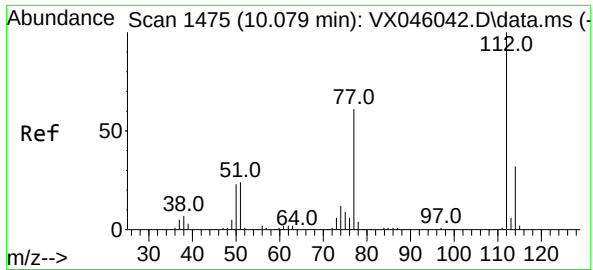
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#64  
Tetrachloroethene  
Concen: 20.578 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:164 Resp: 19397  
Ion Ratio Lower Upper  
164 100  
166 116.4 105.0 157.6  
129 101.6 83.5 125.3  
131 96.3 76.5 114.7





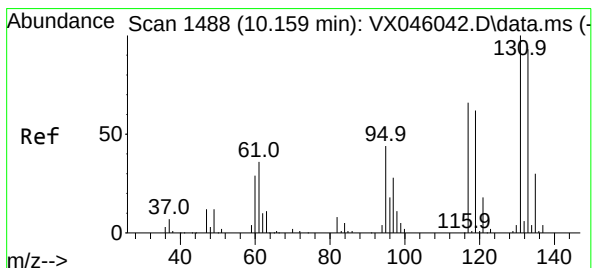
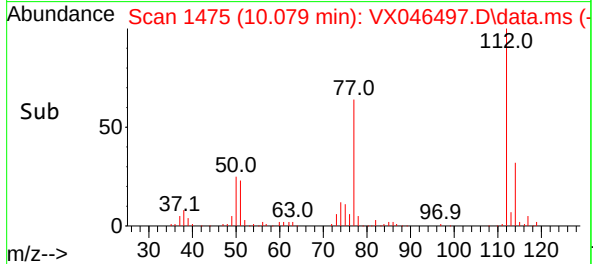
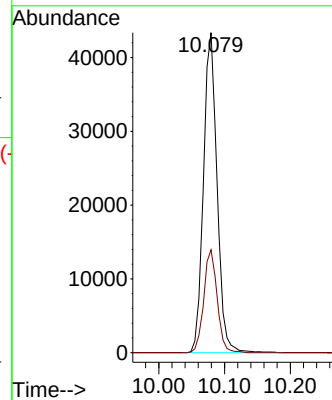
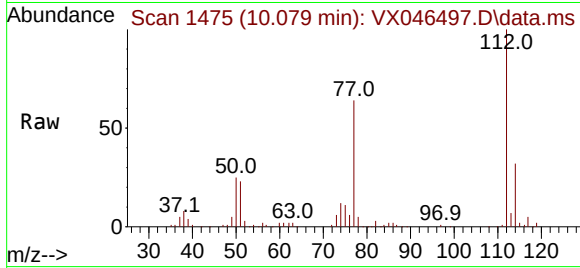
#65  
Chlorobenzene  
Concen: 21.331 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion:112 Resp: 62199  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.4 38.2

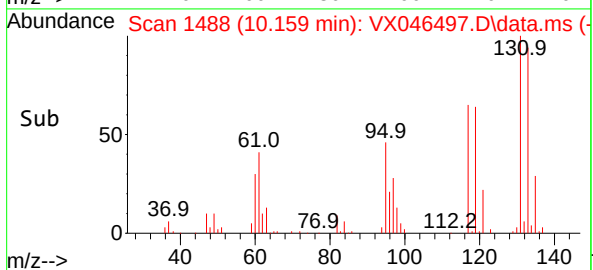
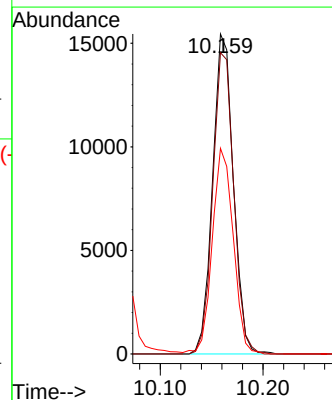
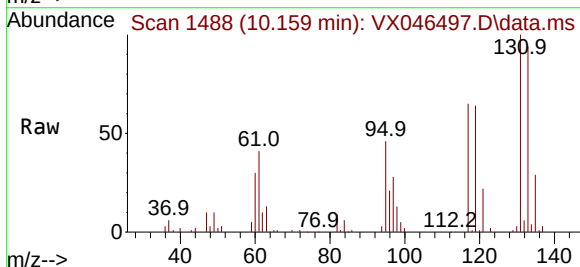
Manual Integrations  
APPROVED

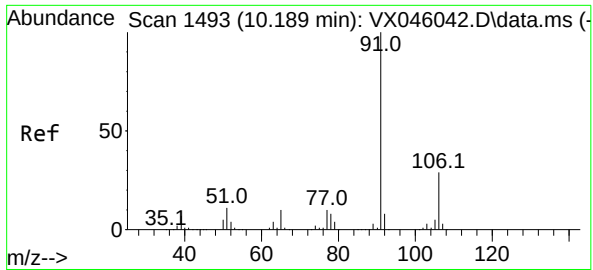
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 21.749 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:131 Resp: 21656  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.3 141.9  
119 64.9 31.6 95.0





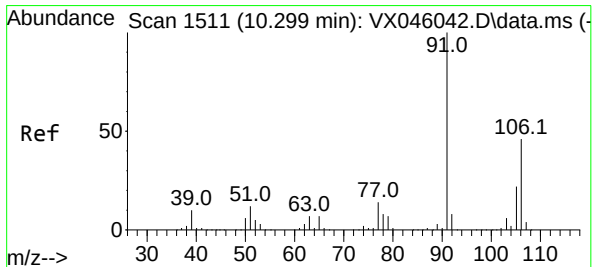
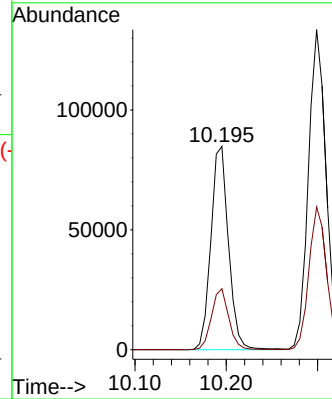
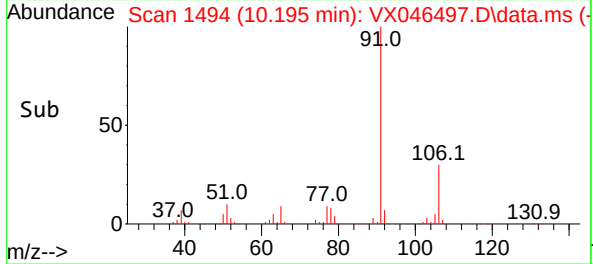
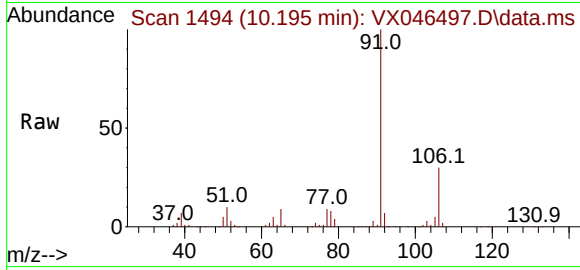
#67  
Ethyl Benzene  
Concen: 22.048 ug/l  
RT: 10.195 min Scan# 1493  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 91 Resp: 113320  
Ion Ratio Lower Upper  
91 100  
106 30.0 23.4 35.2

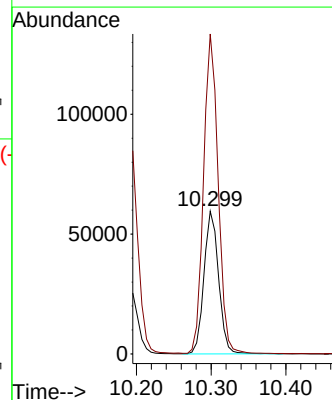
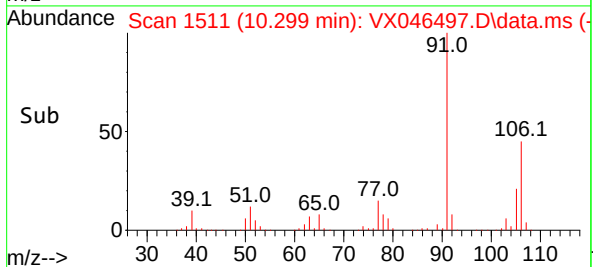
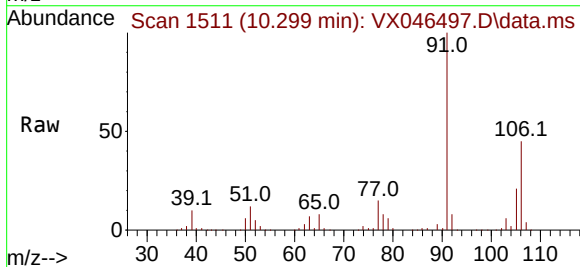
Manual Integrations  
APPROVED

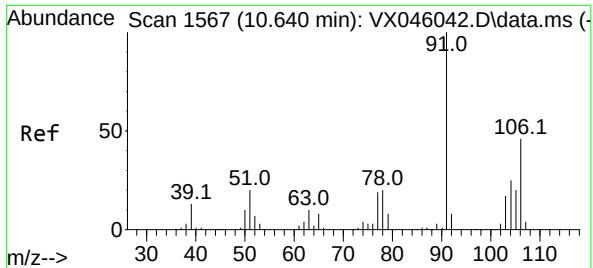
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#68  
m/p-Xylenes  
Concen: 43.046 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:106 Resp: 80924  
Ion Ratio Lower Upper  
106 100  
91 223.3 171.2 256.8





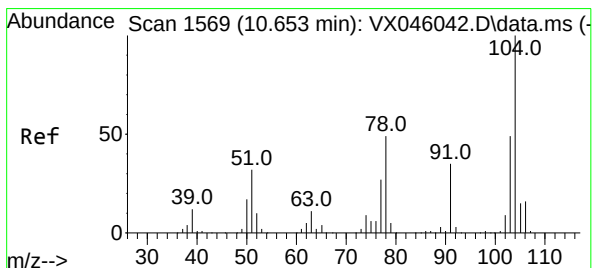
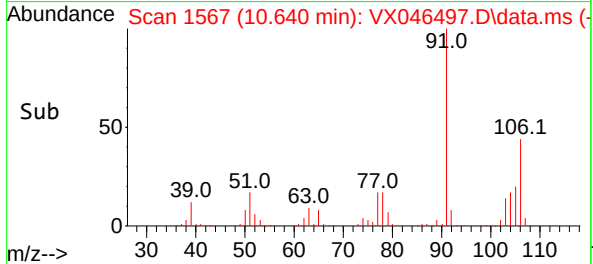
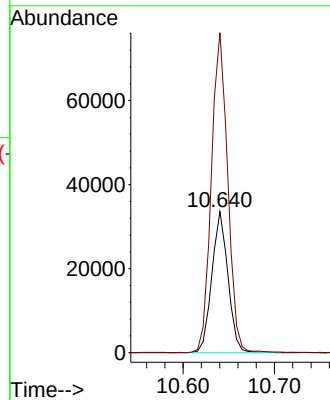
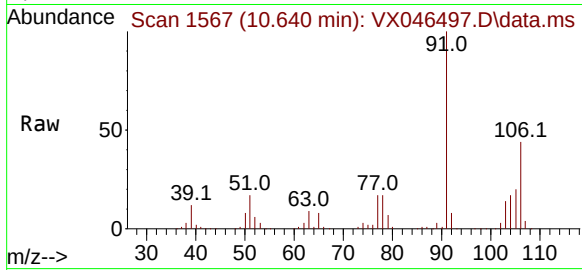
#69  
o-Xylene  
Concen: 22.397 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion:106 Resp: 41048  
Ion Ratio Lower Upper  
106 100  
91 230.6 112.7 338.1

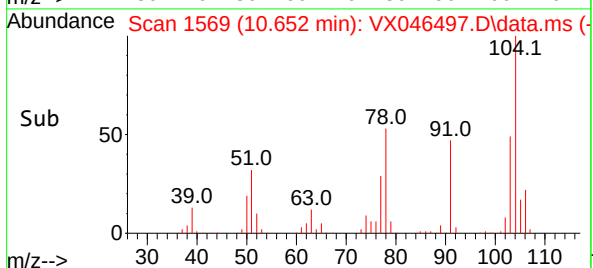
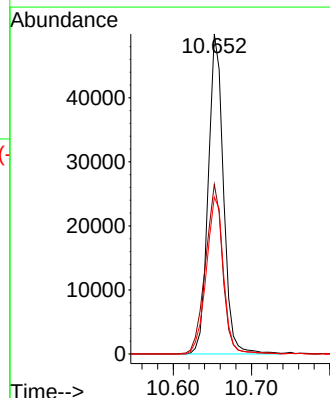
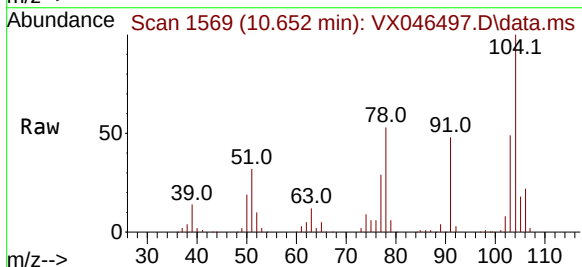
Manual Integrations  
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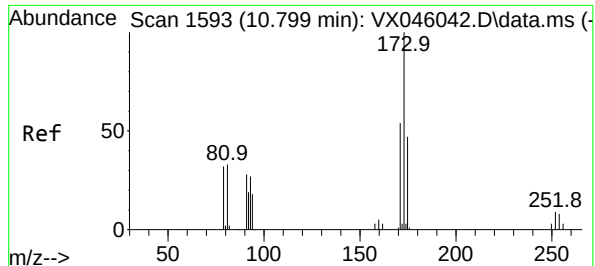
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#70  
Styrene  
Concen: 22.447 ug/l  
RT: 10.652 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

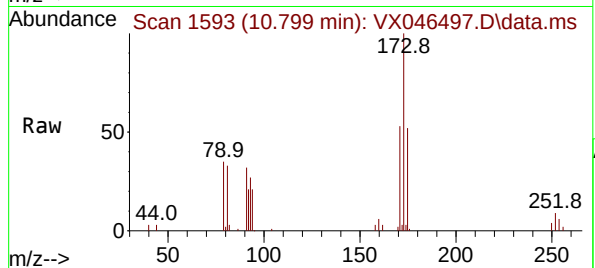
Tgt Ion:104 Resp: 67392  
Ion Ratio Lower Upper  
104 100  
78 59.9 45.7 68.5  
103 55.7 43.7 65.5





#71  
Bromoform  
Concen: 20.636 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

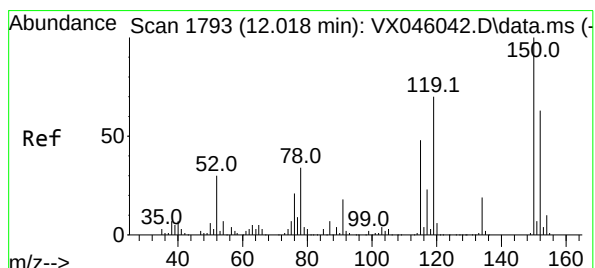
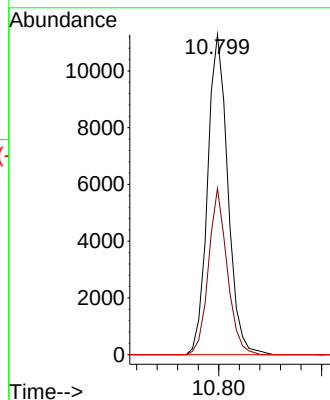
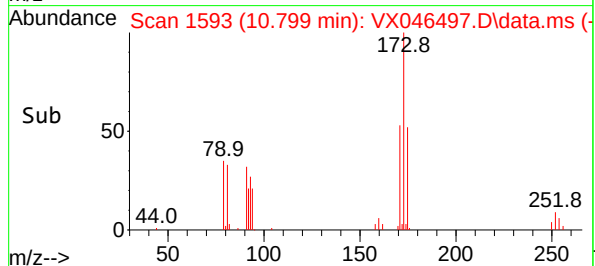
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:173 Resp: 1542  
Ion Ratio Lower Upper  
173 100  
175 48.1 23.4 70.0  
254 0.0 0.0 0.0

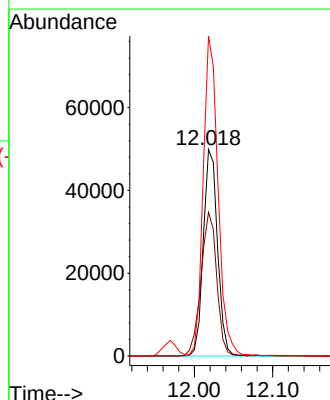
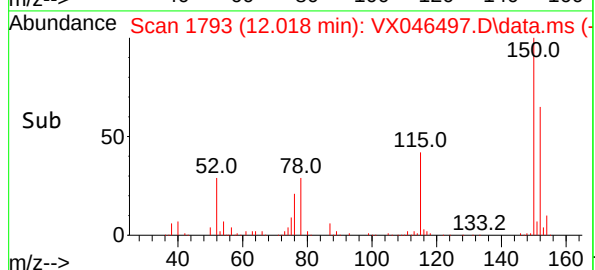
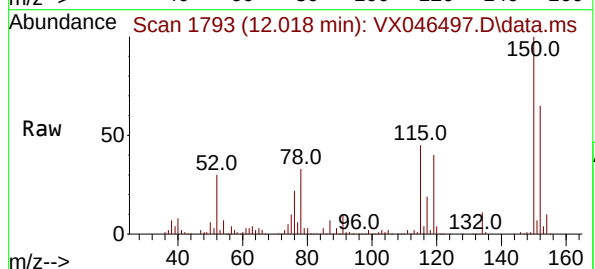
Manual Integrations  
APPROVED

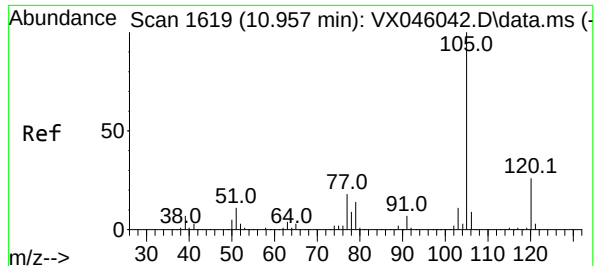
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:152 Resp: 62838  
Ion Ratio Lower Upper  
152 100  
115 76.8 46.9 140.7  
150 160.6 0.0 351.0





#73

Isopropylbenzene

Concen: 22.550 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion:105 Resp: 110318

Ion Ratio Lower Upper

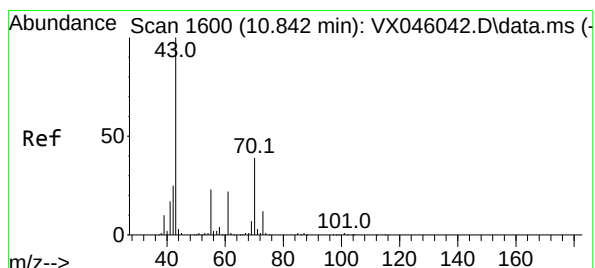
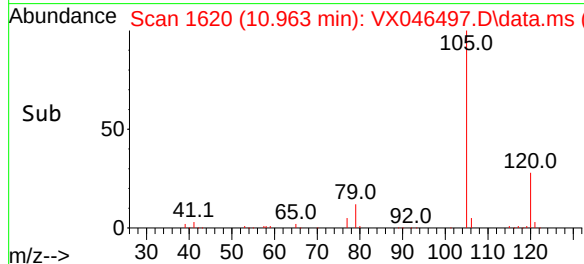
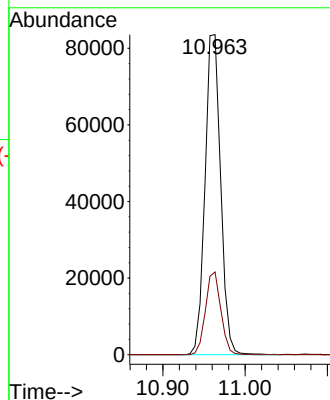
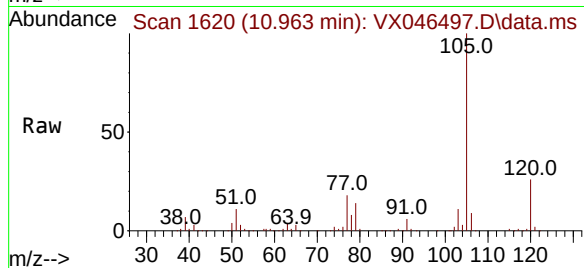
105 100

120 25.4 12.8 38.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#74

N-ethyl acetate

Concen: 22.926 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Tgt Ion: 43 Resp: 55422

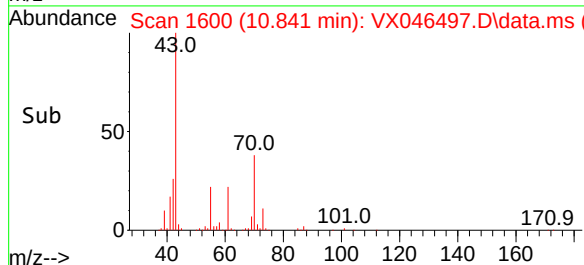
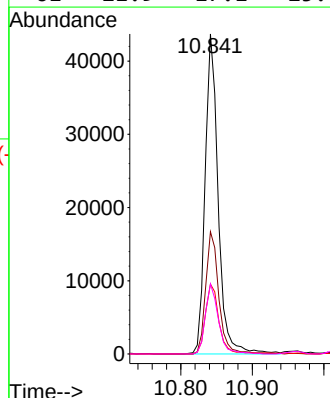
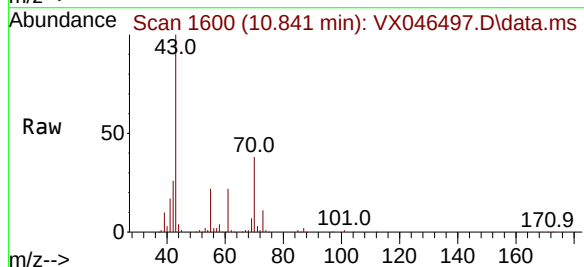
Ion Ratio Lower Upper

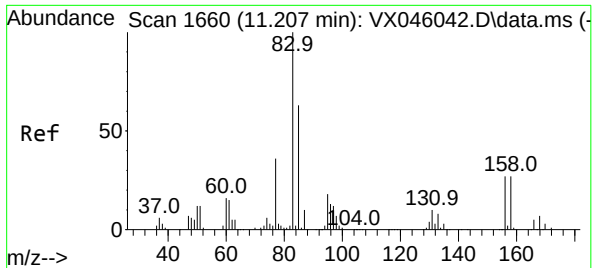
43 100

70 38.5 30.9 46.3

55 22.7 18.7 28.1

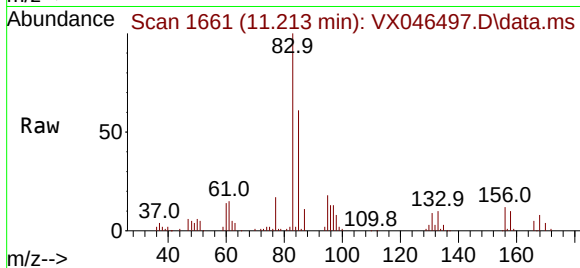
61 21.9 17.1 25.7





#75  
1,1,2,2-Tetrachloroethane  
Concen: 22.544 ug/l  
RT: 11.213 min Scan# 1661  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

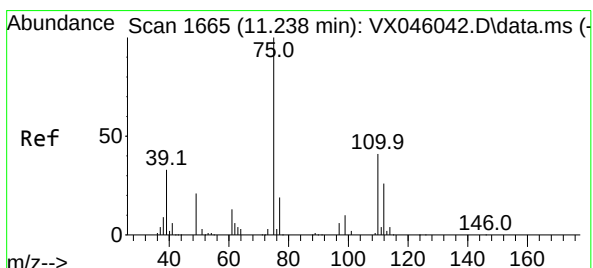
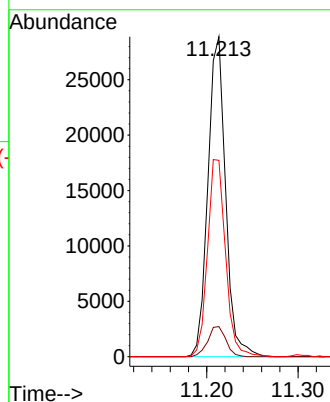
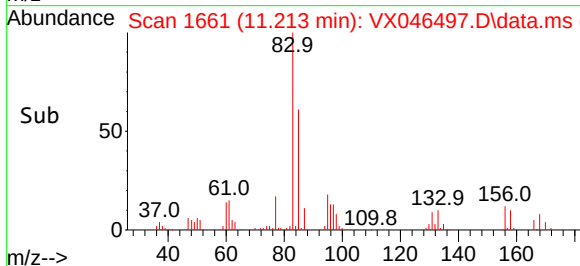
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



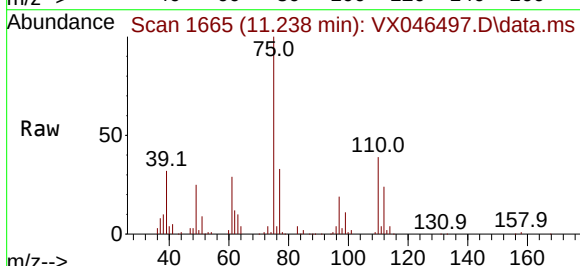
Tgt Ion: 83 Resp: 38648  
Ion Ratio Lower Upper  
83 100  
131 9.7 5.0 14.9  
85 62.8 31.9 95.7

Manual Integrations  
APPROVED

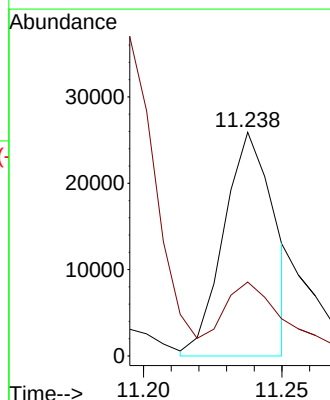
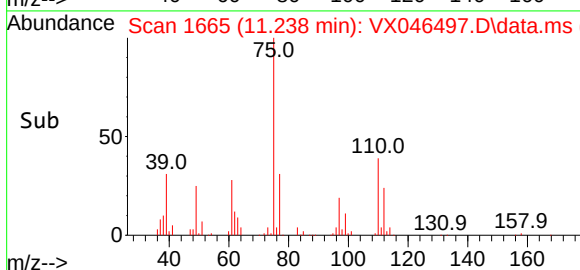
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

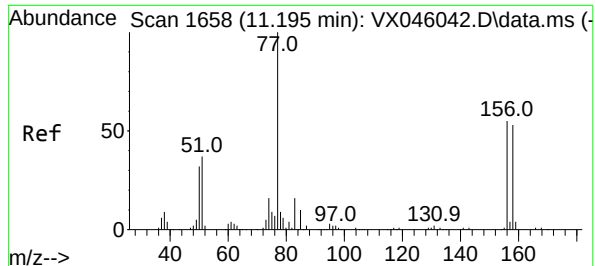


#76  
1,2,3-Trichloropropane  
Concen: 21.634 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52



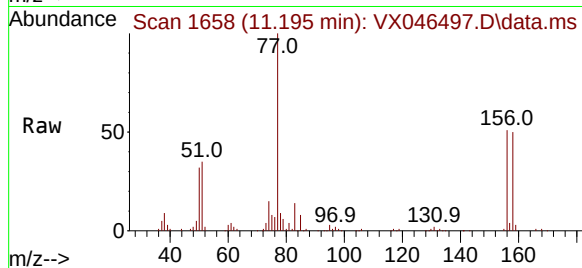
Tgt Ion: 75 Resp: 32723  
Ion Ratio Lower Upper  
75 100  
77 41.8 20.5 61.5





#77  
Bromobenzene  
Concen: 21.872 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

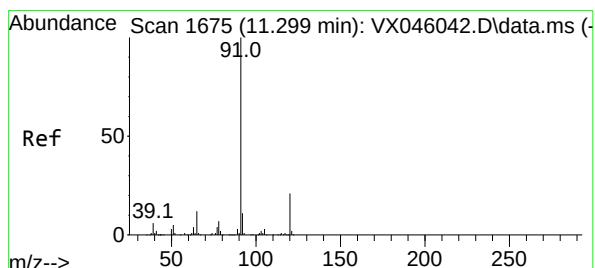
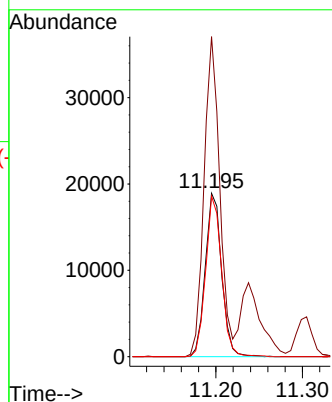
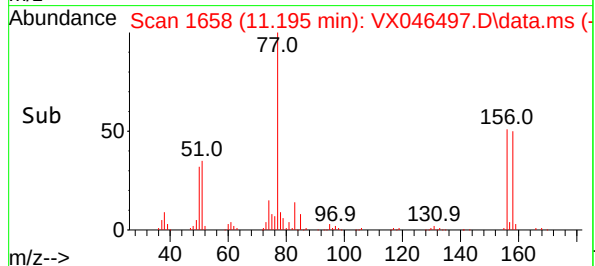
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:156 Resp: 2484  
Ion Ratio Lower Upper  
156 100  
77 186.9 92.8 278.3  
158 96.0 48.8 146.3

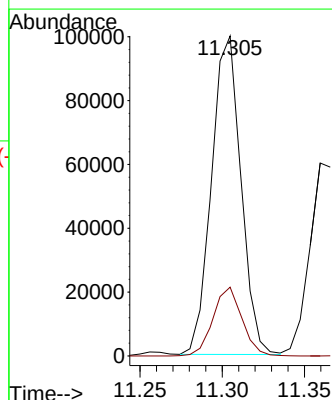
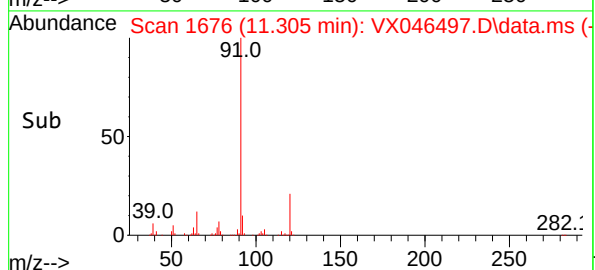
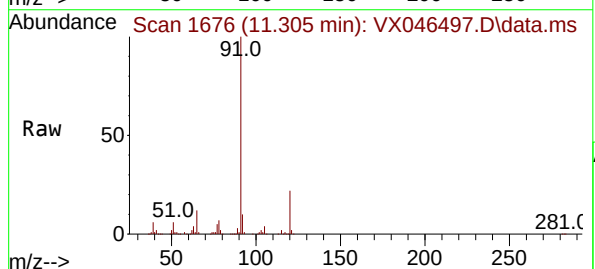
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025

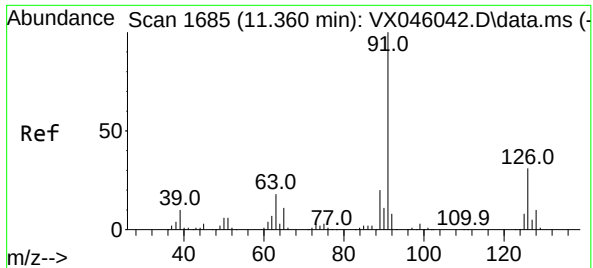


#78  
n-propylbenzene  
Concen: 21.838 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. 0.006 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion: 91 Resp: 124223  
Ion Ratio Lower Upper  
91 100  
120 21.3 10.8 32.4







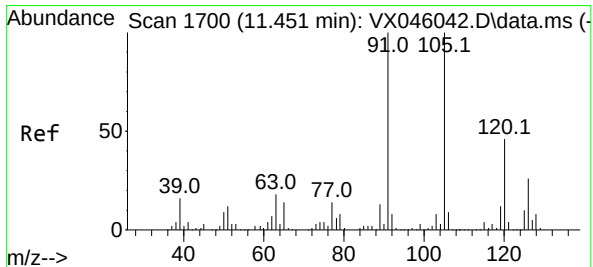
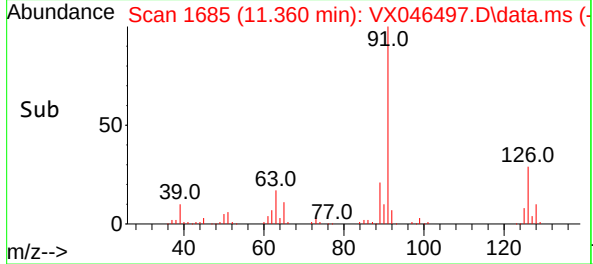
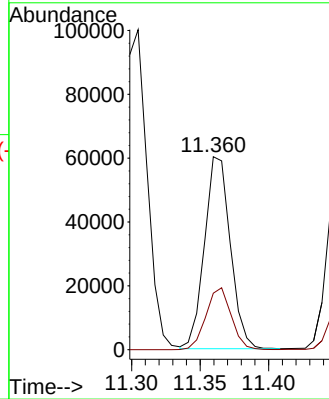
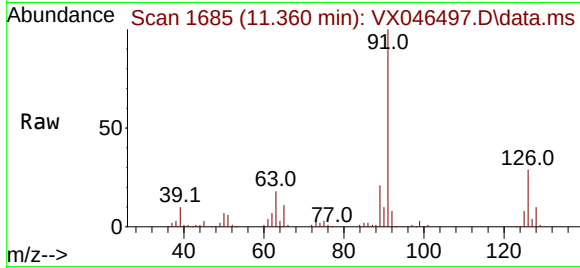
#79  
2-Chlorotoluene  
Concen: 21.507 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01

Tgt Ion: 91 Resp: 7890  
Ion Ratio Lower Upper  
91 100  
126 31.6 15.6 46.7

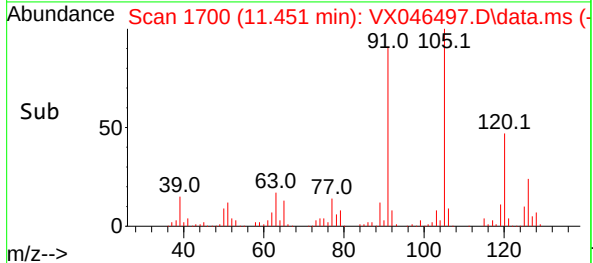
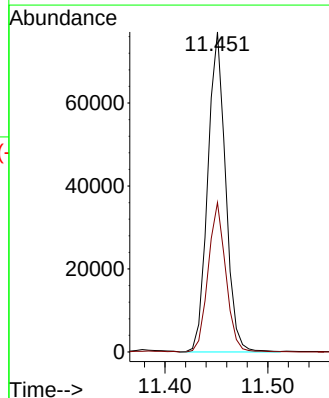
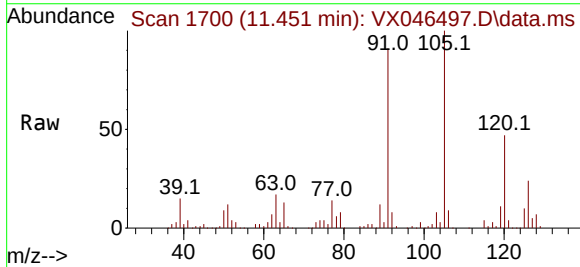
Manual Integrations  
APPROVED

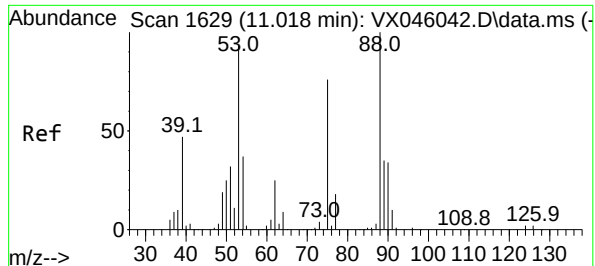
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#80  
1,3,5-Trimethylbenzene  
Concen: 22.729 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

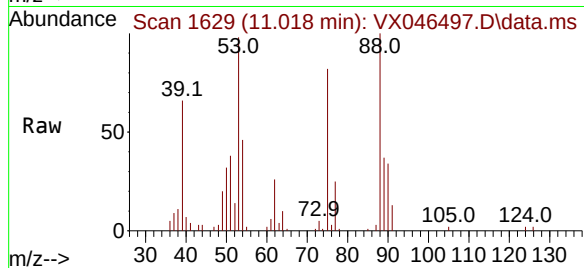
Tgt Ion:105 Resp: 92894  
Ion Ratio Lower Upper  
105 100  
120 46.2 23.1 69.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 20.011 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

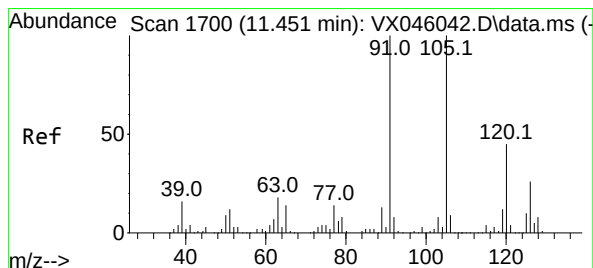
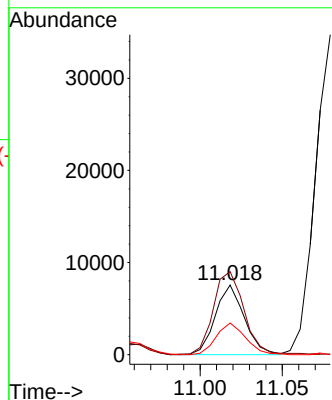
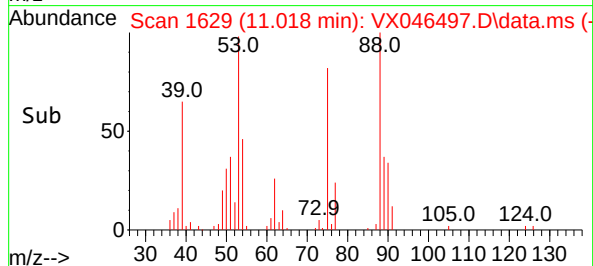
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion: 75 Resp: 929  
Ion Ratio Lower Upper  
75 100  
53 127.5 100.5 150.7  
89 45.7 37.0 55.6

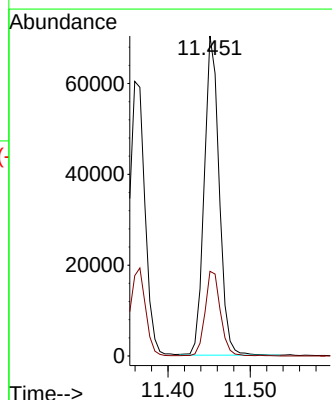
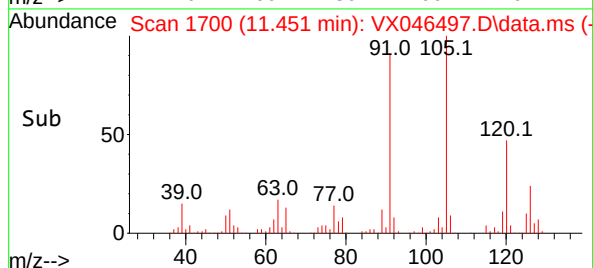
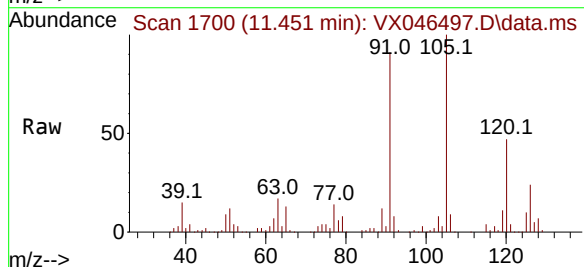
Manual Integrations  
APPROVED

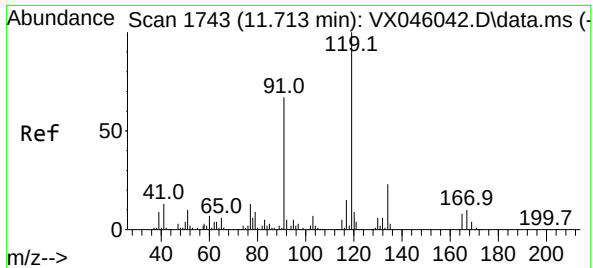
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#82  
4-Chlorotoluene  
Concen: 21.826 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

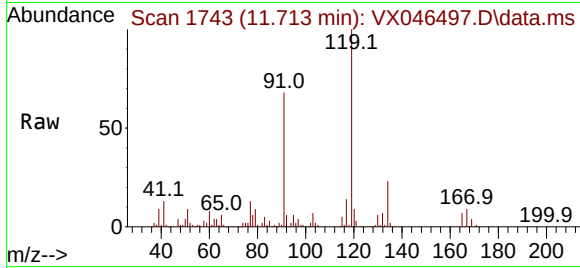
Tgt Ion: 91 Resp: 88804  
Ion Ratio Lower Upper  
91 100  
126 27.0 13.3 39.8





#83  
tert-Butylbenzene  
Concen: 22.483 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

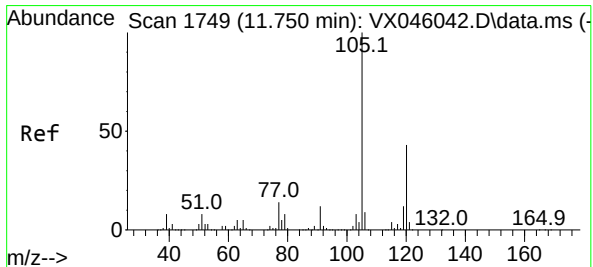
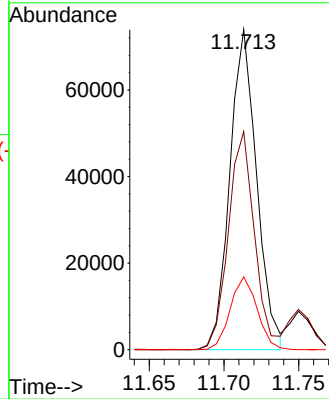
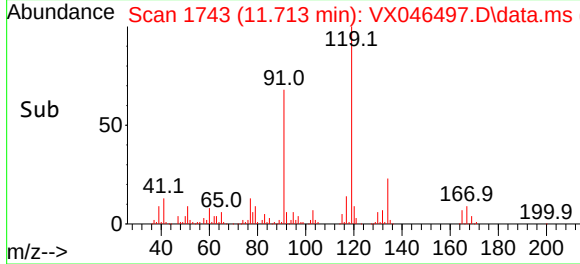
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:119 Resp: 9255  
Ion Ratio Lower Upper  
119 100  
91 66.6 32.9 98.7  
134 22.8 11.4 34.1

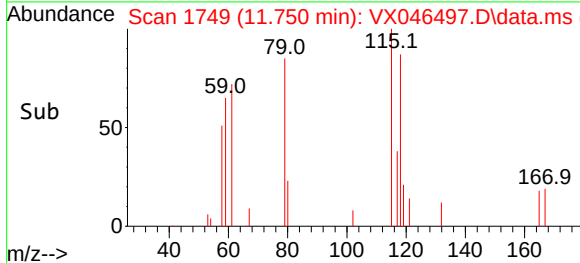
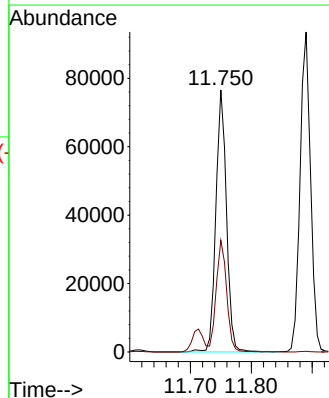
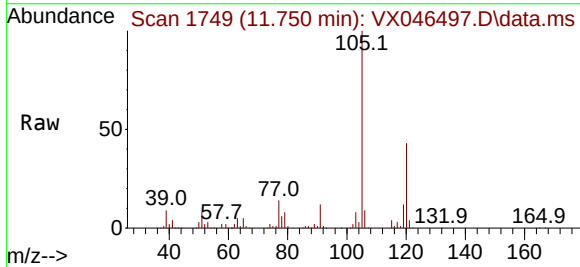
Manual Integrations  
APPROVED

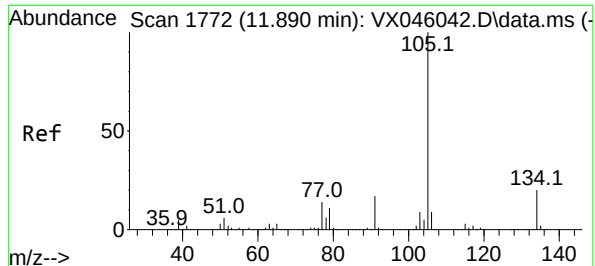
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 22.395 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

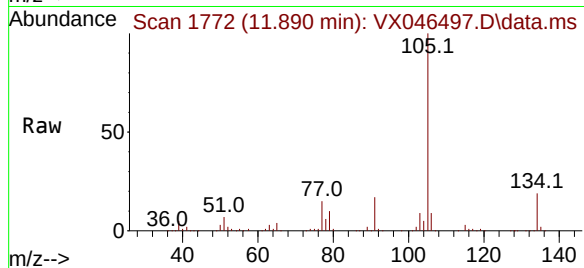
Tgt Ion:105 Resp: 92688  
Ion Ratio Lower Upper  
105 100  
120 41.7 21.2 63.6





#85  
 sec-Butylbenzene  
 Concen: 22.129 ug/l  
 RT: 11.890 min Scan# 1772  
 Delta R.T. -0.000 min  
 Lab File: VX046497.D  
 Acq: 04 Jun 2025 13:52

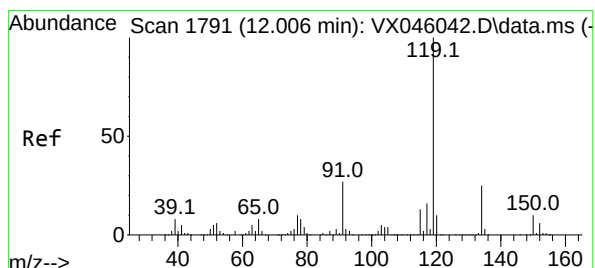
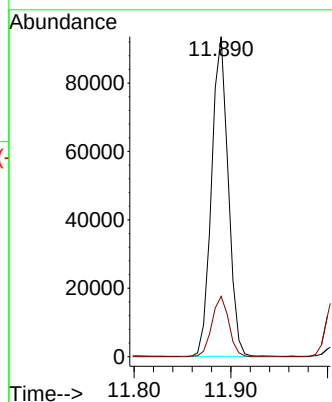
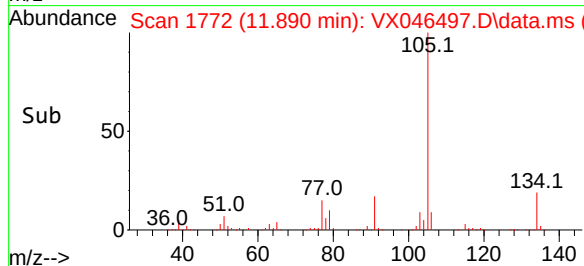
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0604WBSD01



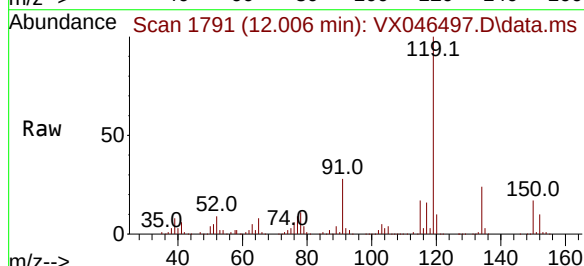
Tgt Ion:105 Resp: 111854  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 9.7 29.1

Manual Integrations  
 APPROVED

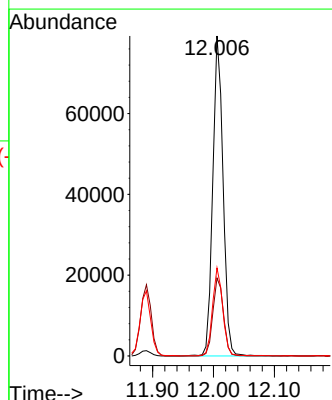
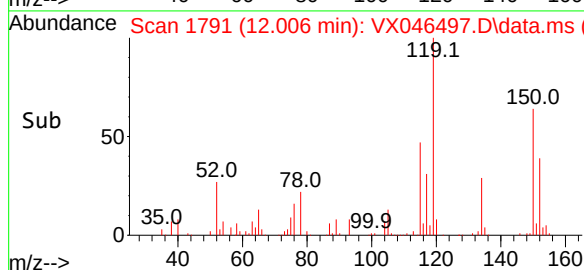
Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025

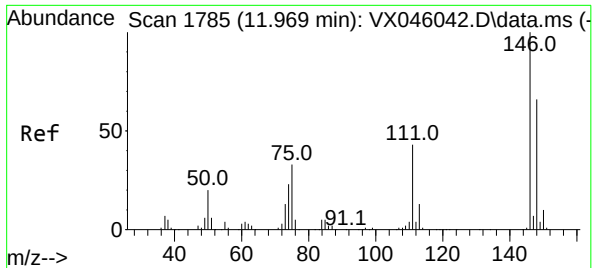


#86  
 p-Isopropyltoluene  
 Concen: 22.299 ug/l  
 RT: 12.006 min Scan# 1791  
 Delta R.T. -0.000 min  
 Lab File: VX046497.D  
 Acq: 04 Jun 2025 13:52



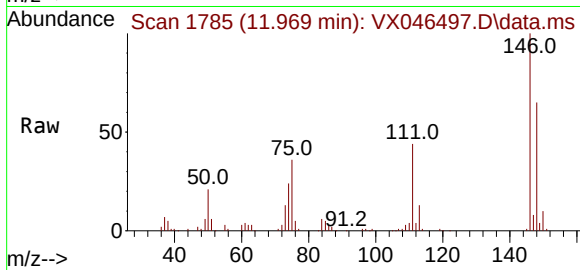
Tgt Ion:119 Resp: 93040  
 Ion Ratio Lower Upper  
 119 100  
 134 24.9 12.5 37.5  
 91 27.6 13.8 41.4





#87  
1,3-Dichlorobenzene  
Concen: 21.707 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

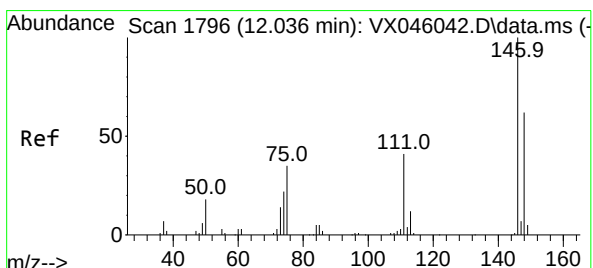
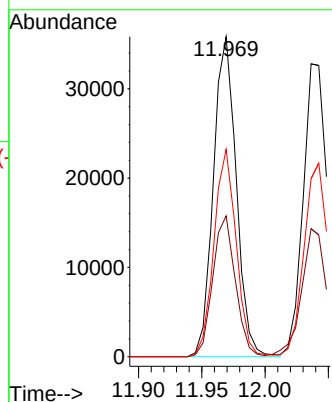
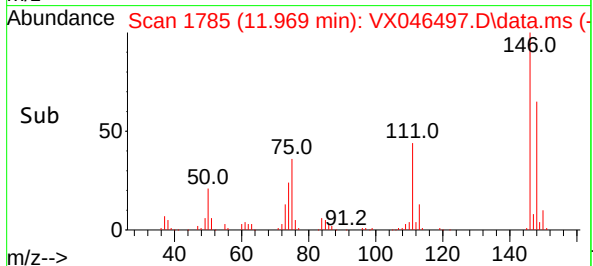
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:146 Resp: 44998  
Ion Ratio Lower Upper  
146 100  
111 43.5 22.1 66.3  
148 63.1 32.1 96.5

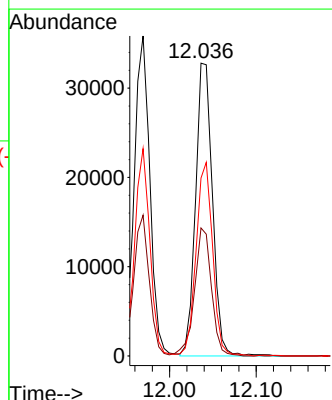
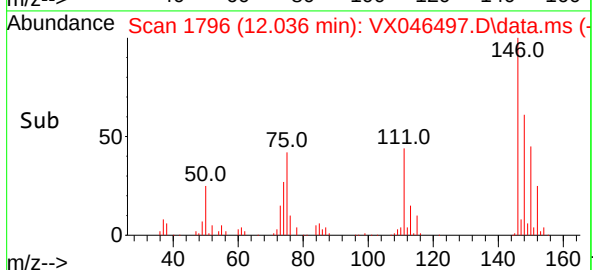
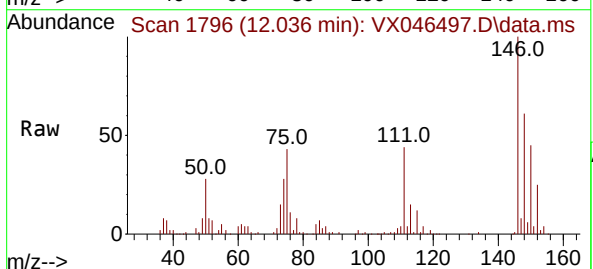
Manual Integrations  
APPROVED

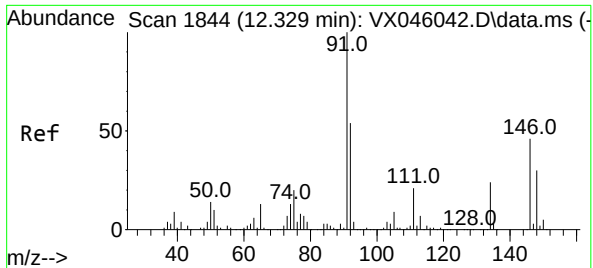
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#88  
1,4-Dichlorobenzene  
Concen: 21.040 ug/l  
RT: 12.036 min Scan# 1796  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:146 Resp: 44540  
Ion Ratio Lower Upper  
146 100  
111 44.0 21.3 63.9  
148 64.9 31.9 95.5





#89

n-Butylbenzene

Concen: 21.729 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046497.D

Acq: 04 Jun 2025 13:52

Instrument :

MSVOA\_X

ClientSampleId :

VX0604WBSD01

Tgt Ion: 91 Resp: 79520

Ion Ratio Lower Upper

91 100

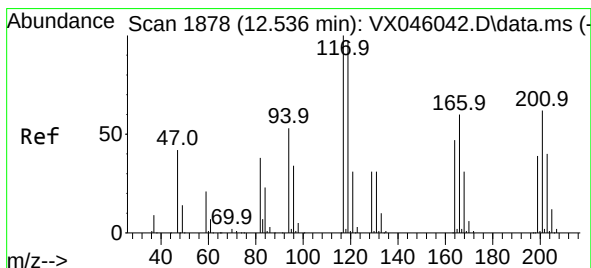
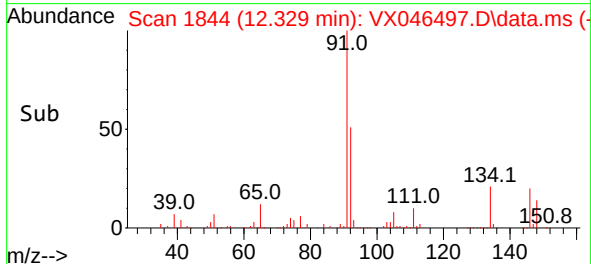
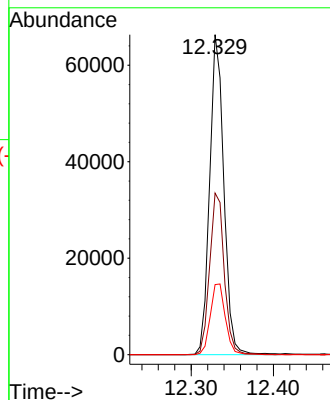
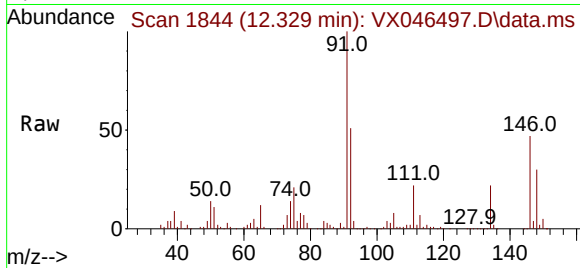
92 52.2 26.9 80.7

134 23.5 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
 Supervised By :Semsettin Yesilyurt 06/05/2025



#90

Hexachloroethane

Concen: 21.457 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046497.D

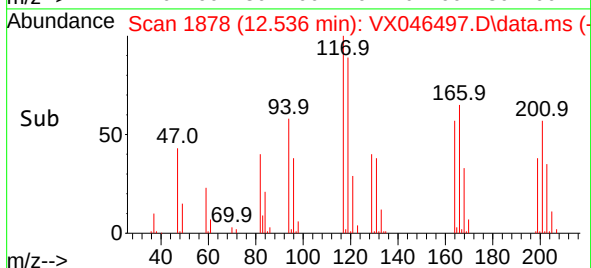
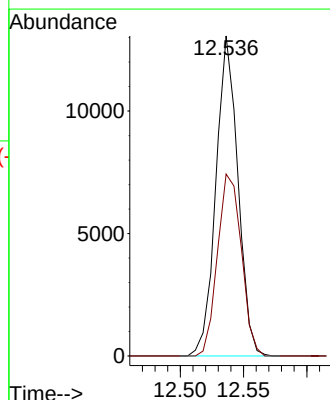
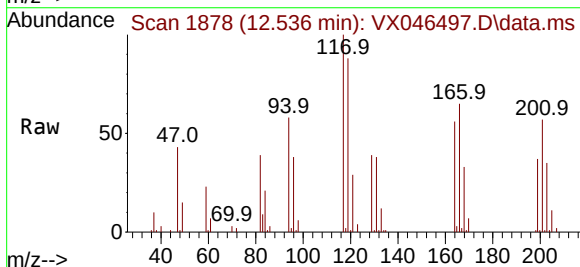
Acq: 04 Jun 2025 13:52

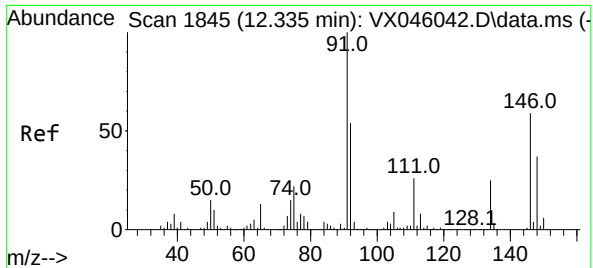
Tgt Ion:117 Resp: 15772

Ion Ratio Lower Upper

117 100

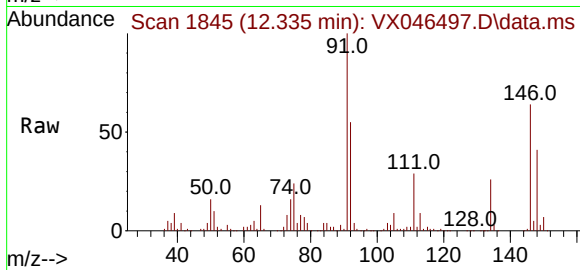
201 61.7 31.6 94.7





#91  
1,2-Dichlorobenzene  
Concen: 22.214 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

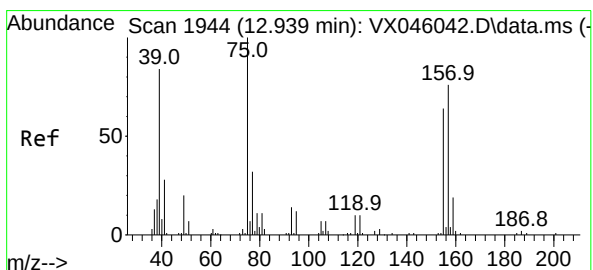
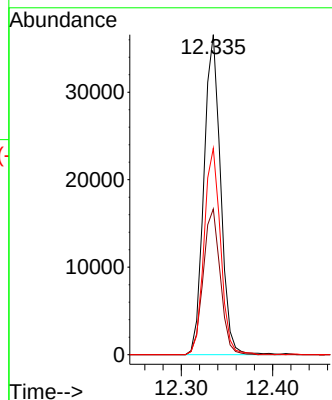
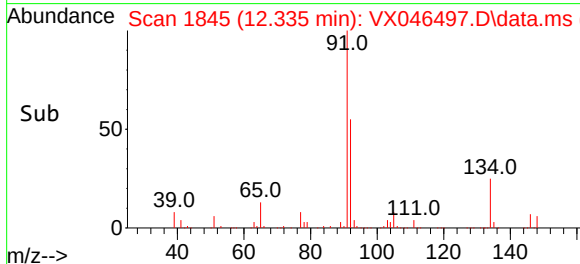
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:146 Resp: 4620  
Ion Ratio Lower Upper  
146 100  
111 46.5 22.4 67.3  
148 63.6 31.6 94.8

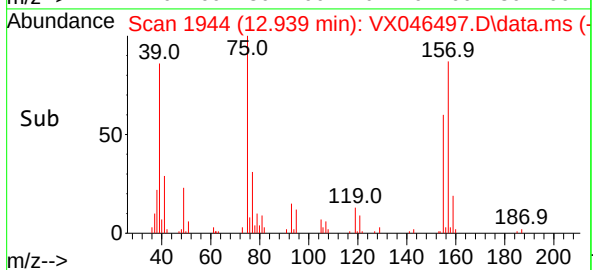
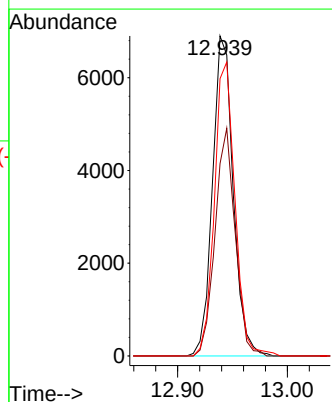
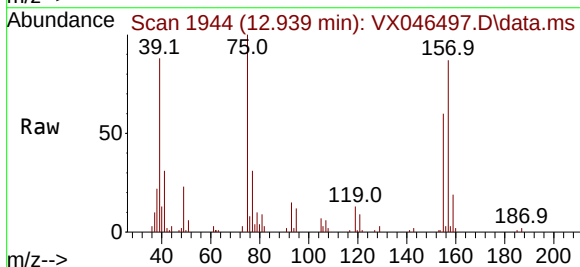
Manual Integrations  
APPROVED

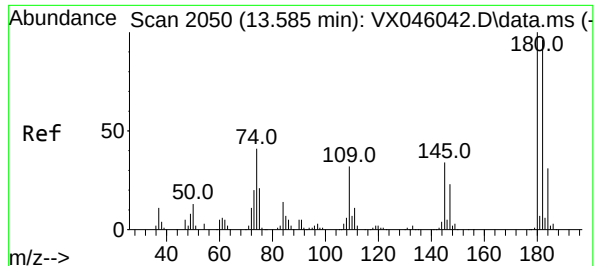
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 23.821 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

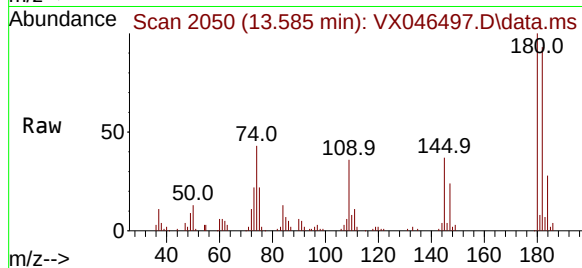
Tgt Ion: 75 Resp: 9047  
Ion Ratio Lower Upper  
75 100  
155 69.4 34.9 104.8  
157 91.2 43.8 131.4





#93  
1,2,4-Trichlorobenzene  
Concen: 21.691 ug/l  
RT: 13.585 min Scan# 2050  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

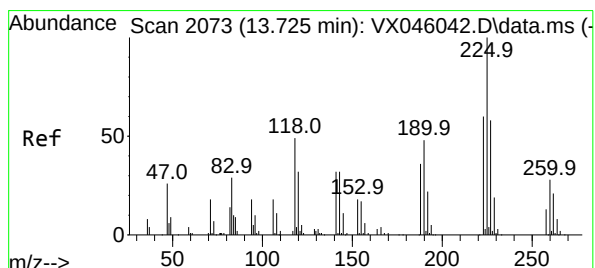
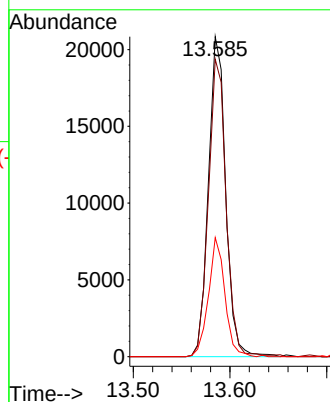
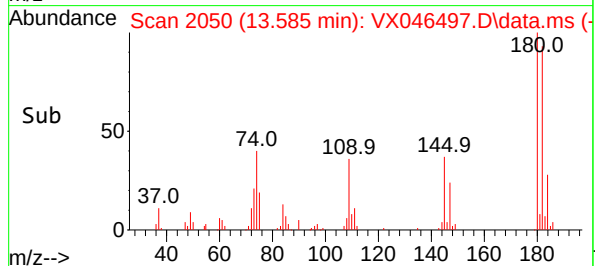
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



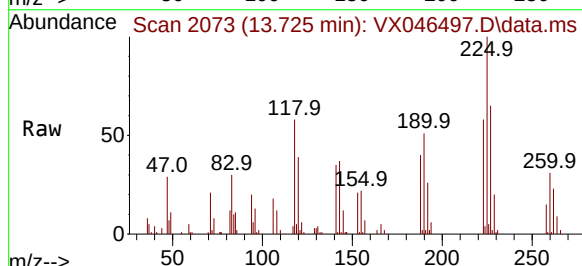
Tgt Ion:180 Resp: 25914  
Ion Ratio Lower Upper  
180 100  
182 95.2 47.9 143.8  
145 35.5 17.1 51.2

Manual Integrations  
APPROVED

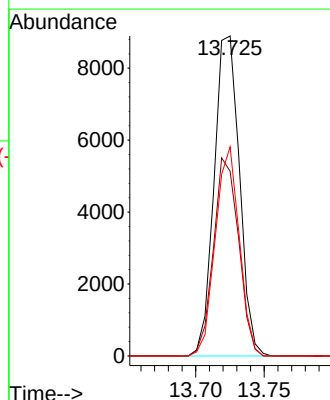
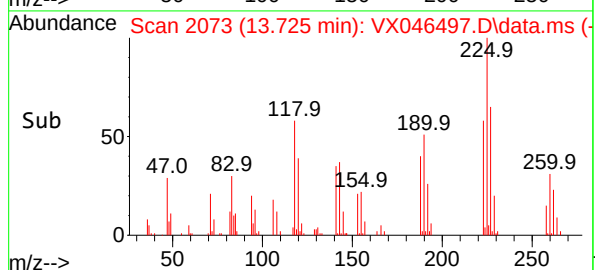
Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



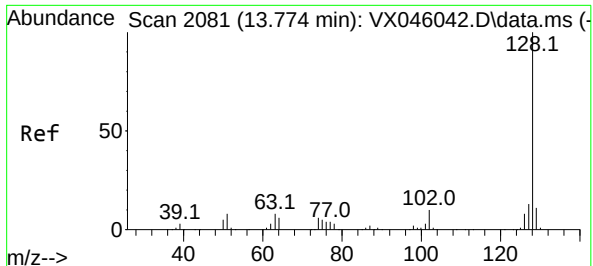
#94  
Hexachlorobutadiene  
Concen: 21.891 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52



Tgt Ion:225 Resp: 11422  
Ion Ratio Lower Upper  
225 100  
223 61.4 30.8 92.4  
227 61.7 30.9 92.7

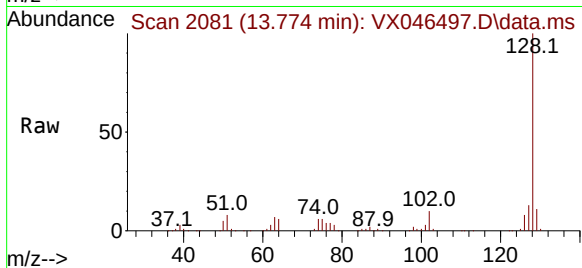






#95  
Naphthalene  
Concen: 23.449 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

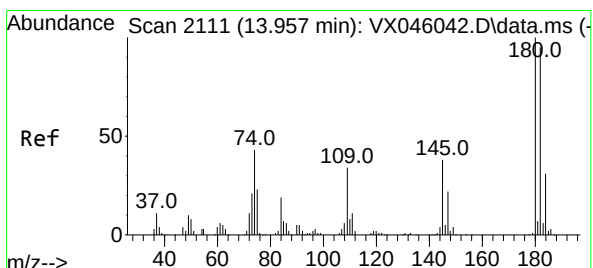
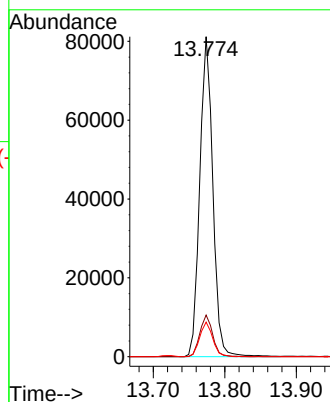
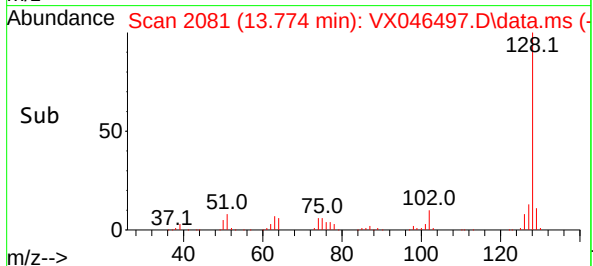
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0604WBSD01



Tgt Ion:128 Resp: 102748  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.4 15.6  
129 10.7 8.6 13.0

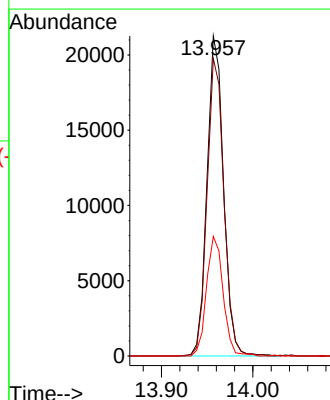
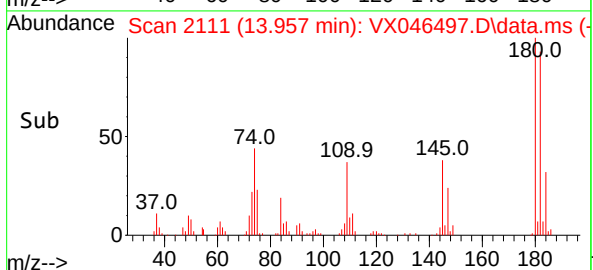
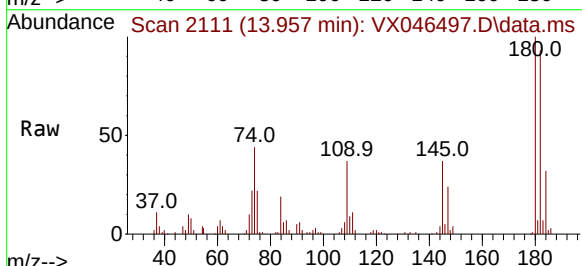
Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025  
Supervised By :Semsettin Yesilyurt 06/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 21.608 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX046497.D  
Acq: 04 Jun 2025 13:52

Tgt Ion:180 Resp: 26637  
Ion Ratio Lower Upper  
180 100  
182 94.6 47.8 143.3  
145 37.5 18.1 54.3



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VX050525 | Instrument | MSVOA_x |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On           | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------|-----------|---------------------|---------------|----------------------|-----------------------------|
| VSTDICC020  | VX046041.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:13 AM | MMDadoda      | 5/6/2025 12:42:46 PM | Peak Integrated by Software |
| VSTDICCC050 | VX046042.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:18 AM | MMDadoda      | 5/6/2025 12:42:48 PM | Peak Integrated by Software |
| VSTDICC100  | VX046043.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:22 AM | MMDadoda      | 5/6/2025 12:42:50 PM | Peak Integrated by Software |
| VSTDICC150  | VX046044.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:27 AM | MMDadoda      | 5/6/2025 12:42:53 PM | Peak Integrated by Software |
| VSTDICC005  | VX046046.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:32 AM | MMDadoda      | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC005  | VX046046.D | Ethyl Acetate          | JOHN      | 5/6/2025 9:53:32 AM | MMDadoda      | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC001  | VX046047.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:38 AM | MMDadoda      | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001  | VX046047.D | 1,4-Dichlorobenzene    | JOHN      | 5/6/2025 9:53:38 AM | MMDadoda      | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001  | VX046047.D | Bromochloromethane     | JOHN      | 5/6/2025 9:53:38 AM | MMDadoda      | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001  | VX046047.D | Ethyl Acetate          | JOHN      | 5/6/2025 9:53:38 AM | MMDadoda      | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001  | VX046047.D | Methyl methacrylate    | JOHN      | 5/6/2025 9:53:38 AM | MMDadoda      | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICV050  | VX046048.D | 1,2,3-Trichloropropane | JOHN      | 5/6/2025 9:53:45 AM | MMDadoda      | 5/6/2025 12:41:37 PM | Peak Integrated by Software |



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

## Manual Integration Report

Sequence:

VX050525

Instrument

MSVOA\_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VX060425 | Instrument | MSVOA_x |
|-----------|----------|------------|---------|

| Sample ID    | File ID    | Parameter              | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|--------------|------------|------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDCCC050   | VX046488.D | 1,2,3-Trichloropropane | MMDadoda  | 6/5/2025 4:44:18 PM | SAM           | 6/5/2025 4:47:19 PM | Peak Integrated by Software |
| VSTDCCC050   | VX046488.D | Methacrylonitrile      | MMDadoda  | 6/5/2025 4:44:18 PM | SAM           | 6/5/2025 4:47:19 PM | Peak Integrated by Software |
| VX0604WBS01  | VX046491.D | 1,2,3-Trichloropropane | MMDadoda  | 6/5/2025 4:44:20 PM | SAM           | 6/5/2025 4:47:20 PM | Peak Integrated by Software |
| VX0604WBSD01 | VX046497.D | 1,2,3-Trichloropropane | MMDadoda  | 6/5/2025 4:44:23 PM | SAM           | 6/5/2025 4:47:24 PM | Peak Integrated by Software |
| VSTDCCC050   | VX046515.D | 1,2,3-Trichloropropane | SAM       | 6/5/2025 4:47:29 PM | MMdadoda      | 6/6/2025 1:00:26 AM | Peak Integrated by Software |

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX050525**

|                          |                                                       |                   |                                   |
|--------------------------|-------------------------------------------------------|-------------------|-----------------------------------|
| Review By                | John Carlone                                          | Review On         | 5/6/2025 9:53:58 AM               |
| Supervise By             | Maresh Dadoda                                         | Supervise On      | 5/6/2025 12:43:00 PM              |
| SubDirectory             | VX050525                                              | HP Acquire Method | HP Processing Method 82X050525W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                      |                   |                                   |
| Tune/Reschk              | VP133811                                              |                   |                                   |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |                   |                                   |
| CCC                      |                                                       |                   |                                   |
| Internal Standard/PEM    |                                                       |                   |                                   |
| ICV/I.BLK                | VP133838                                              |                   |                                   |
| Surrogate Standard       |                                                       |                   |                                   |
| MS/MSD Standard          |                                                       |                   |                                   |
| LCS Standard             |                                                       |                   |                                   |

| Sr# | SampleId   | Data File Name | Date-Time         | Operator | Status |
|-----|------------|----------------|-------------------|----------|--------|
| 1   | BFB        | VX046038.D     | 05 May 2025 09:37 | JC/MD    | Ok     |
| 2   | VSTDIC001  | VX046039.D     | 05 May 2025 10:49 | JC/MD    | Not Ok |
| 3   | VSTDIC005  | VX046040.D     | 05 May 2025 11:12 | JC/MD    | Not Ok |
| 4   | VSTDIC020  | VX046041.D     | 05 May 2025 11:35 | JC/MD    | Ok,M   |
| 5   | VSTDIC050  | VX046042.D     | 05 May 2025 11:58 | JC/MD    | Ok,M   |
| 6   | VSTDIC100  | VX046043.D     | 05 May 2025 12:21 | JC/MD    | Ok,M   |
| 7   | VSTDIC150  | VX046044.D     | 05 May 2025 12:45 | JC/MD    | Ok,M   |
| 8   | IBLK       | VX046045.D     | 05 May 2025 13:08 | JC/MD    | Ok     |
| 9   | VSTDIC005  | VX046046.D     | 05 May 2025 16:04 | JC/MD    | Ok,M   |
| 10  | VSTDIC001  | VX046047.D     | 05 May 2025 16:27 | JC/MD    | Ok,M   |
| 11  | VSTDICV050 | VX046048.D     | 05 May 2025 16:50 | JC/MD    | Ok,M   |

M : Manual Integration

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX060425**

|                                                                                                    |                     |                   |                                   |
|----------------------------------------------------------------------------------------------------|---------------------|-------------------|-----------------------------------|
| Review By                                                                                          | Mahesh Dadoda       | Review On         | 6/5/2025 4:44:40 PM               |
| Supervise By                                                                                       | Semsettin Yesilyurt | Supervise On      | 6/5/2025 4:48:33 PM               |
| SubDirectory                                                                                       | VX060425            | HP Acquire Method | HP Processing Method 82X050525W.M |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>    |                   |                                   |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP134124            |                   |                                   |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP134125,VP134126   |                   |                                   |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | BFB          | VX046487.D     | 04 Jun 2025 09:43 | JC/MD    | Ok       |
| 2   | VSTDCCC050   | VX046488.D     | 04 Jun 2025 10:12 | JC/MD    | Ok,M     |
| 3   | VX0604MBL01  | VX046489.D     | 04 Jun 2025 10:40 | JC/MD    | Ok       |
| 4   | VX0604WBL01  | VX046490.D     | 04 Jun 2025 11:04 | JC/MD    | Ok       |
| 5   | VX0604WBS01  | VX046491.D     | 04 Jun 2025 11:27 | JC/MD    | Ok,M     |
| 6   | Q2169-03DL   | VX046492.D     | 04 Jun 2025 11:55 | JC/MD    | Ok       |
| 7   | Q2168-08DL   | VX046493.D     | 04 Jun 2025 12:18 | JC/MD    | Ok       |
| 8   | Q2168-12DL   | VX046494.D     | 04 Jun 2025 12:41 | JC/MD    | Ok       |
| 9   | Q2169-01     | VX046495.D     | 04 Jun 2025 13:05 | JC/MD    | Not Ok   |
| 10  | Q2175-05     | VX046496.D     | 04 Jun 2025 13:28 | JC/MD    | Ok       |
| 11  | VX0604WBSD01 | VX046497.D     | 04 Jun 2025 13:52 | JC/MD    | Ok,M     |
| 12  | Q2200-01DL   | VX046498.D     | 04 Jun 2025 14:15 | JC/MD    | Ok       |
| 13  | Q2200-02     | VX046499.D     | 04 Jun 2025 14:39 | JC/MD    | Ok       |
| 14  | Q2200-05     | VX046500.D     | 04 Jun 2025 15:02 | JC/MD    | Dilution |
| 15  | Q2175-06     | VX046501.D     | 04 Jun 2025 15:26 | JC/MD    | Dilution |
| 16  | IBLK         | VX046502.D     | 04 Jun 2025 15:50 | JC/MD    | Ok       |
| 17  | IBLK         | VX046503.D     | 04 Jun 2025 16:13 | JC/MD    | Ok       |
| 18  | Q2200-03     | VX046504.D     | 04 Jun 2025 16:37 | JC/MD    | Ok       |
| 19  | Q2201-01     | VX046505.D     | 04 Jun 2025 17:01 | JC/MD    | Ok       |
| 20  | Q2198-05     | VX046506.D     | 04 Jun 2025 17:25 | JC/MD    | ReRun    |
| 21  | IBLK         | VX046507.D     | 04 Jun 2025 17:49 | JC/MD    | Ok       |

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX060425**

| Review By                                                                                          | Mahesh Dadoda       | Review On         | 6/5/2025 4:44:40 PM               |
|----------------------------------------------------------------------------------------------------|---------------------|-------------------|-----------------------------------|
| Supervise By                                                                                       | Semsettin Yesilyurt | Supervise On      | 6/5/2025 4:48:33 PM               |
| SubDirectory                                                                                       | VX060425            | HP Acquire Method | HP Processing Method 82X050525W.M |
| STD. NAME                                                                                          | STD REF.#           |                   |                                   |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP134124            |                   |                                   |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP134125,VP134126   |                   |                                   |

|    |             |            |                   |       |          |
|----|-------------|------------|-------------------|-------|----------|
| 22 | Q2200-01    | VX046508.D | 04 Jun 2025 18:12 | JC/MD | Dilution |
| 23 | Q2200-05DL  | VX046509.D | 04 Jun 2025 18:36 | JC/MD | Ok       |
| 24 | Q2200-06    | VX046510.D | 04 Jun 2025 19:00 | JC/MD | Ok       |
| 25 | Q2175-06DL  | VX046511.D | 04 Jun 2025 19:24 | JC/MD | Ok,M     |
| 26 | VX0604MBS01 | VX046512.D | 04 Jun 2025 19:47 | JC/MD | Ok,M     |
| 27 | Q2168-11ME  | VX046513.D | 04 Jun 2025 20:11 | JC/MD | Dilution |
| 28 | Q2168-07ME  | VX046514.D | 04 Jun 2025 20:35 | JC/MD | Ok       |
| 29 | VSTDCCC050  | VX046515.D | 04 Jun 2025 20:59 | JC/MD | Ok,M     |

M : Manual Integration

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX050525**

|              |               |                   |                                   |
|--------------|---------------|-------------------|-----------------------------------|
| Review By    | John Carlone  | Review On         | 5/6/2025 9:53:58 AM               |
| Supervise By | Mahesh Dadoda | Supervise On      | 5/6/2025 12:43:00 PM              |
| SubDirectory | VX050525      | HP Acquire Method | HP Processing Method 82X050525W.M |

| STD. NAME                | STD REF.#                                             |
|--------------------------|-------------------------------------------------------|
| Tune/Reschk              | VP133811                                              |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC                      |                                                       |
| Internal Standard/PEM    |                                                       |
| ICV/I.BLK                | VP133838                                              |
| Surrogate Standard       |                                                       |
| MS/MSD Standard          |                                                       |
| LCS Standard             |                                                       |

| Sr# | Sampled    | ClientID    | Data File Name | Date-Time         | Comment  | Operator | Status |
|-----|------------|-------------|----------------|-------------------|----------|----------|--------|
| 1   | BFB        | BFB         | VX046038.D     | 05 May 2025 09:37 |          | JC/MD    | Ok     |
| 2   | VSTDIC001  | VSTDIC001   | VX046039.D     | 05 May 2025 10:49 | Not used | JC/MD    | Not Ok |
| 3   | VSTDIC005  | VSTDIC005   | VX046040.D     | 05 May 2025 11:12 | Not used | JC/MD    | Not Ok |
| 4   | VSTDIC020  | VSTDIC020   | VX046041.D     | 05 May 2025 11:35 |          | JC/MD    | Ok,M   |
| 5   | VSTDIC050  | VSTDIC050   | VX046042.D     | 05 May 2025 11:58 |          | JC/MD    | Ok,M   |
| 6   | VSTDIC100  | VSTDIC100   | VX046043.D     | 05 May 2025 12:21 |          | JC/MD    | Ok,M   |
| 7   | VSTDIC150  | VSTDIC150   | VX046044.D     | 05 May 2025 12:45 |          | JC/MD    | Ok,M   |
| 8   | IBLK       | IBLK        | VX046045.D     | 05 May 2025 13:08 |          | JC/MD    | Ok     |
| 9   | VSTDIC005  | VSTDIC005   | VX046046.D     | 05 May 2025 16:04 |          | JC/MD    | Ok,M   |
| 10  | VSTDIC001  | VSTDIC001   | VX046047.D     | 05 May 2025 16:27 |          | JC/MD    | Ok,M   |
| 11  | VSTDICV050 | ICVVX050525 | VX046048.D     | 05 May 2025 16:50 |          | JC/MD    | Ok,M   |

M : Manual Integration



Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX060425**

|              |                     |                   |                                   |
|--------------|---------------------|-------------------|-----------------------------------|
| Review By    | Mahesh Dadoda       | Review On         | 6/5/2025 4:44:40 PM               |
| Supervise By | Semsettin Yesilyurt | Supervise On      | 6/5/2025 4:48:33 PM               |
| SubDirectory | VX060425            | HP Acquire Method | HP Processing Method 82X050525W.M |

| STD. NAME                                                                                          | STD REF.#         |
|----------------------------------------------------------------------------------------------------|-------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP134124          |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP134125,VP134126 |

| Sr# | SampleID     | ClientID           | Data File Name | Date-Time         | Comment                     | Operator | Status   |
|-----|--------------|--------------------|----------------|-------------------|-----------------------------|----------|----------|
| 1   | BFB          | BFB                | VX046487.D     | 04 Jun 2025 09:43 |                             | JC/MD    | Ok       |
| 2   | VSTDCCC050   | VSTDCCC050         | VX046488.D     | 04 Jun 2025 10:12 | pH#Lot#V12668               | JC/MD    | Ok,M     |
| 3   | VX0604MBL01  | VX0604MBL01        | VX046489.D     | 04 Jun 2025 10:40 |                             | JC/MD    | Ok       |
| 4   | VX0604WBL01  | VX0604WBL01        | VX046490.D     | 04 Jun 2025 11:04 |                             | JC/MD    | Ok       |
| 5   | VX0604WBS01  | VX0604WBS01        | VX046491.D     | 04 Jun 2025 11:27 | BS failed low for comp. #17 | JC/MD    | Ok,M     |
| 6   | Q2169-03DL   | 303-PPR-2DL        | VX046492.D     | 04 Jun 2025 11:55 | vial B pH<2                 | JC/MD    | Ok       |
| 7   | Q2168-08DL   | B3DL               | VX046493.D     | 04 Jun 2025 12:18 | vial B pH#5.0               | JC/MD    | Ok       |
| 8   | Q2168-12DL   | C2DL               | VX046494.D     | 04 Jun 2025 12:41 | vial B pH#5.0               | JC/MD    | Ok       |
| 9   | Q2169-01     | 303-PPR-1          | VX046495.D     | 04 Jun 2025 13:05 | vial B pH<2;not req         | JC/MD    | Not Ok   |
| 10  | Q2175-05     | 52525-B            | VX046496.D     | 04 Jun 2025 13:28 | vial A pH<2 foamy sample    | JC/MD    | Ok       |
| 11  | VX0604WBSD01 | VX0604WBSD01       | VX046497.D     | 04 Jun 2025 13:52 |                             | JC/MD    | Ok,M     |
| 12  | Q2200-01DL   | RMW-02B-66-060325D | VX046498.D     | 04 Jun 2025 14:15 | vial A pH<2                 | JC/MD    | Ok       |
| 13  | Q2200-02     | RMW-03B-90-060325  | VX046499.D     | 04 Jun 2025 14:39 | vial A pH<2                 | JC/MD    | Ok       |
| 14  | Q2200-05     | MW-11B-37.5-060325 | VX046500.D     | 04 Jun 2025 15:02 | vial A pH<2 Need 200X       | JC/MD    | Dilution |
| 15  | Q2175-06     | EGR-LIQUID         | VX046501.D     | 04 Jun 2025 15:26 | vial A pH<2 Need 2000X      | JC/MD    | Dilution |
| 16  | IBLK         | IBLK               | VX046502.D     | 04 Jun 2025 15:50 |                             | JC/MD    | Ok       |
| 17  | IBLK         | IBLK               | VX046503.D     | 04 Jun 2025 16:13 |                             | JC/MD    | Ok       |
| 18  | Q2200-03     | EB01-060325        | VX046504.D     | 04 Jun 2025 16:37 | vial A pH<2 EB              | JC/MD    | Ok       |

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX060425**

| Review By                                                                                          | Maresh Dadoda       | Review On         | 6/5/2025 4:44:40 PM               |
|----------------------------------------------------------------------------------------------------|---------------------|-------------------|-----------------------------------|
| Supervise By                                                                                       | Semsettin Yesilyurt | Supervise On      | 6/5/2025 4:48:33 PM               |
| SubDirectory                                                                                       | VX060425            | HP Acquire Method | HP Processing Method 82X050525W.M |
| STD. NAME                                                                                          | STD REF.#           |                   |                                   |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP134124            |                   |                                   |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP134125,VP134126   |                   |                                   |

|    |             |                     |            |                   |                                         |       |          |
|----|-------------|---------------------|------------|-------------------|-----------------------------------------|-------|----------|
| 19 | Q2201-01    | MW-01-6.5-060325    | VX046505.D | 04 Jun 2025 17:01 | vial A pH<2                             | JC/MD | Ok       |
| 20 | Q2198-05    | B-202-GW01          | VX046506.D | 04 Jun 2025 17:25 | vial A pH<2 BS failed low for comp. #17 | JC/MD | ReRun    |
| 21 | IBLK        | IBLK                | VX046507.D | 04 Jun 2025 17:49 |                                         | JC/MD | Ok       |
| 22 | Q2200-01    | RMW-02B-66-060325   | VX046508.D | 04 Jun 2025 18:12 | vial B pH<2 Need 100X                   | JC/MD | Dilution |
| 23 | Q2200-05DL  | MW-11B-37.5-060325D | VX046509.D | 04 Jun 2025 18:36 | vial B pH<2                             | JC/MD | Ok       |
| 24 | Q2200-06    | TB-01-060325        | VX046510.D | 04 Jun 2025 19:00 | vial A pH<2 TB                          | JC/MD | Ok       |
| 25 | Q2175-06DL  | EGR-LIQUIDDL        | VX046511.D | 04 Jun 2025 19:24 | vial B pH<2                             | JC/MD | Ok,M     |
| 26 | VX0604MBS01 | VX0604MBS01         | VX046512.D | 04 Jun 2025 19:47 |                                         | JC/MD | Ok,M     |
| 27 | Q2168-11ME  | C2ME                | VX046513.D | 04 Jun 2025 20:11 | Need 5X                                 | JC/MD | Dilution |
| 28 | Q2168-07ME  | B3ME                | VX046514.D | 04 Jun 2025 20:35 |                                         | JC/MD | Ok       |
| 29 | VSTDCCC050  | VSTDCCC050EC        | VX046515.D | 04 Jun 2025 20:59 |                                         | JC/MD | Ok,M     |

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** Q2201

**Test :** VOCMS Group3

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VX060425,

**Standard ID :**

VP132035,VP132096,VP133174,VP133887,VP133935,VP133953,VP133991,VP134124,VP134125,VP134126,

**Chemical ID :**

V13391,V13457,V13460,V13465,V13466,V13706,V14290,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V  
14614,V14620,V14626,V14630,V14631,V14632,V14633,V14711,V14717,V14718,V14721,V14749,V14750,V14811,V14  
812,V14843,V14921,V14944,V14945,V14946,V14947,W3112,



| <u>Recipe ID</u>                                                                                                                                               | <u>NAME</u>                    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 1810                                                                                                                                                           | 8260 Working Std(2-CVE)-800ppm | <a href="#">VP132035</a> | 12/10/2024       | 06/10/2025             | Semsettin Yesilyurt | None           | None             | Mahesh Dadoda<br>12/12/2024 |
| <b><u>FROM</u></b> 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final<br>Quantity: 50.000 ml |                                |                          |                  |                        |                     |                |                  |                             |

| <u>Recipe ID</u>                                                                                                                                               | <u>NAME</u>                                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 719                                                                                                                                                            | 8260 Working STD (BCM)-First source, 400PPM | <a href="#">VP132096</a> | 12/12/2024       | 06/10/2025             | Semsettin Yesilyurt | None           | None             | Mahesh Dadoda<br>12/19/2024 |
| <b><u>FROM</u></b> 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final<br>Quantity: 25.000 ml |                                             |                          |                  |                        |                     |                |                  |                             |

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 617              | 8260 Surrogate, 400PPM | <a href="#">VP133174</a> | 02/27/2025       | 08/27/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                        |                          |                  |                        |                     |                |                  | 03/04/2025           |

**FROM** 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 257              | 8260 Calibration Working STD Mix-First source, 160PPM | <a href="#">VP133887</a> | 05/12/2025       | 06/23/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                       |                          |                  |                        |                     |                |                  | 05/14/2025           |

**FROM** 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = Final Quantity: 25.000 ml

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 247              | 8260 Internal Standard, 250PPM | <a href="#">VP133935</a> | 05/16/2025       | 11/12/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                |                          |                  |                        |                     |                |                  | 05/21/2025           |

**FROM** 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 218              | BFB, 25PPM  | <a href="#">VP133953</a> | 05/19/2025       | 11/09/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |             |                          |                  |                        |                     |                |                  | 05/21/2025           |

**FROM** 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml



## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>                           |
|------------------|---------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|------------------------------------------------|
| 51               | 8260 Working STD (Acrolein) -first source, 800PPM | <a href="#">VP133991</a> | 05/22/2025       | 06/19/2025             | Semsettin Yesilyurt | None           | None             | <div>Mahesh Dadoda</div> <div>05/24/2025</div> |

**FROM** 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = Final  
Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>                           |
|------------------|----------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------------------------|
| 589              | BFB TUNE CHECK | <a href="#">VP134124</a> | 06/04/2025       | 06/05/2025             | John Carlone       | None           | None             | <div>Mahesh Dadoda</div> <div>06/06/2025</div> |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

[illegible]

| <u>Recipe ID</u>                                                                                                                                                                                                   | <u>NAME</u>            | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 620                                                                                                                                                                                                                | 50 PPB CCC, 8260-Water | <a href="#">VP134126</a> | 06/04/2025       | 06/05/2025             | John Carlone       | None           | None             | Mahesh Dadoda<br>06/06/2025 |
| <b><u>FROM</u></b> 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133887 + 0.01250ml of VP133991 = Final Quantity: 40.000 ml |                        |                          |                  |                        |                    |                |                  |                             |



## 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   | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025      | 12/12/2024 / SAM        | 01/27/2023 / SAM            | V13457         |

| 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 | A0193071 | 06/12/2025      | 12/12/2024 / SAM        | 01/27/2023 / SAM            | V13460         |

| 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 | A0193071 | 06/12/2025      | 12/12/2024 / SAM        | 01/27/2023 / SAM            | V13465         |

| 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 | A0193071 | 06/12/2025      | 12/12/2024 / SAM        | 01/27/2023 / SAM            | V13466         |

| 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] | A0196865 | 02/27/2026      | 02/27/2025 / SAM        | 04/12/2023 / SAM            | V13706         |

## CHEMICAL RECEIPT LOG BOOK

| 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 # |
|----------|------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/30/2025      | 05/12/2025 / SAM        | 08/15/2024 / SAM            | V14432         |

| 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 | A0209618 | 09/20/2025      | 03/20/2025 / SAM        | 08/15/2024 / SAM            | V14435         |

| 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 | 11/12/2025      | 05/12/2025 / SAM        | 09/17/2024 / SAM            | V14503         |

| 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 | 11/12/2025      | 05/12/2025 / SAM        | 09/17/2024 / SAM            | V14504         |

| 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 | 11/12/2025      | 05/12/2025 / SAM        | 09/18/2024 / SAM            | V14525         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 11/12/2025      | 05/12/2025 / SAM        | 09/18/2024 / SAM            | V14526         |

| 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) | 22L0562016 | 08/27/2025      | 02/27/2025 / SAM        | 11/26/2024 / SAM            | V14613         |

| 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) | 22L0562016 | 06/10/2025      | 12/10/2024 / SAM        | 11/26/2024 / SAM            | V14614         |

| 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) | 22L0562016 | 10/25/2025      | 05/09/2025 / SAM        | 11/26/2024 / SAM            | V14620         |

| 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 | 06/10/2025      | 12/10/2024 / SAM        | 12/06/2024 / SAM            | V14630         |

## 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 | 06/10/2025      | 12/10/2024 / SAM        | 12/06/2024 / SAM            | V14631         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025      | 12/10/2024 / SAM        | 12/06/2024 / SAM            | V14632         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025      | 12/10/2024 / SAM        | 12/06/2024 / SAM            | V14633         |

| 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 | A02110618 | 11/12/2025      | 05/12/2025 / SAM        | 12/17/2024 / SAM            | V14711         |

| 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 | A02110618 | 11/12/2025      | 05/12/2025 / SAM        | 12/17/2024 / SAM            | V14717         |

| 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 | A02110618 | 11/12/2025      | 05/12/2025 / SAM        | 12/17/2024 / SAM            | V14718         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | A02110618 | 11/12/2025      | 05/12/2025 / SAM        | 12/17/2024 / SAM            | V14721         |

| 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 | 11/13/2025      | 05/12/2025 / SAM        | 12/17/2024 / SAM            | V14749         |

| 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 | 11/12/2025      | 05/12/2025 / SAM        | 12/17/2024 / SAM            | V14750         |

| 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 | A0220471 | 11/12/2025      | 05/12/2025 / SAM        | 01/08/2025 / SAM            | V14811         |

LOTS

| 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 | A0220471 | 06/30/2026      | 05/12/2025 / SAM        | 01/08/2025 / SAM            | V14812         |

LOTS

| 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 | 11/12/2025      | 05/12/2025 / SAM        | 01/21/2025 / SAM            | V14843         |

## CHEMICAL RECEIPT LOG BOOK

| 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 # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025      | 05/22/2025 / SAM        | 05/21/2025 / SAM            | V14944         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025      | 05/22/2025 / SAM        | 05/21/2025 / SAM            | V14945         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025      | 05/22/2025 / SAM        | 05/21/2025 / SAM            | V14946         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 051925 | 06/19/2025      | 05/22/2025 / SAM        | 05/21/2025 / SAM            | V14947         |

| 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 / lwona      | 07/03/2024 / lwona          | W3112          |

Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis



Material No.: 9077-02  
Batch No.: 23I0762004  
Manufactured Date: 2023-08-11  
Expiration Date: 2026-08-10  
Revision No.: 0

## Certificate of Analysis

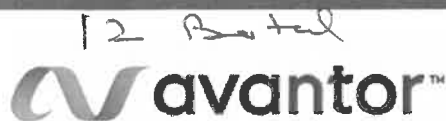
| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.5 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.2      |
| Titration 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



Material No.: 9077-02  
Batch No.: 22L0562016  
Manufactured Date: 2022-10-26  
Expiration Date: 2025-10-25  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.2 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.2      |
| Titration 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 |

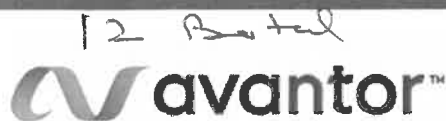
For Laboratory, Research, or Manufacturing Use  
Performance Tested for Use in EPA Methods  
500 Series for Drinking Water  
600 Series for Wastewater  
846 for Solid Waste

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier  
Vice President Global Quality



Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis



Material No.: 9077-02  
Batch No.: 22L0562016  
Manufactured Date: 2022-10-26  
Expiration Date: 2025-10-25  
Revision No.: 0

## Certificate of Analysis

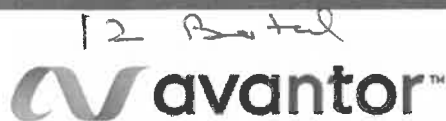
| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.2 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.2      |
| Titration 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  
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Ree 03117/24

## 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#: BUTB

Solvent(s): Lot#  
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty  
Flask Uncertainty

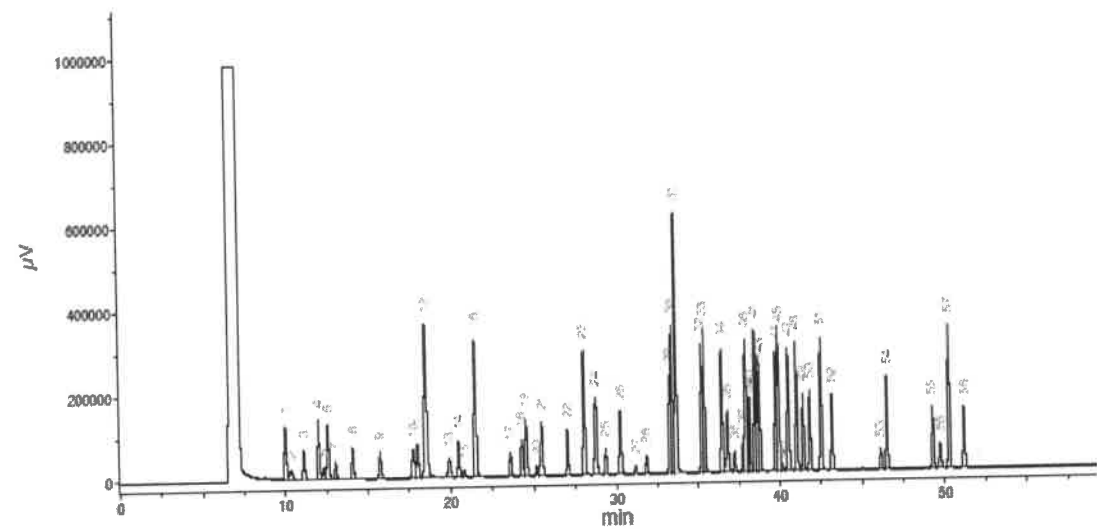
|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

| Compound                            | (K049)      | Lot         | Dir.   | Initial   | Initial       | Nominal       | Purity | Purity      | Uncertainty  | Target    | Actual    | Actual        | Expanded    | SDS Information |                              |                   |      |
|-------------------------------------|-------------|-------------|--------|-----------|---------------|---------------|--------|-------------|--------------|-----------|-----------|---------------|-------------|-----------------|------------------------------|-------------------|------|
|                                     | Part Number | Number      | Factor | Vol. (mL) | Conc. (µg/mL) | Conc. (µg/mL) | (%)    | Uncertainty | Pipette (mL) | Weight(g) | Weight(g) | Conc. (µg/mL) | Uncertainty | (+/-) (µg/mL)   | CASE                         | 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)          | or-rat 2450mg/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)            | or-rat 700mg/kg   |      |
| 3. Carbon disulfide                 | (0060)      | MKCR8561    | 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)       | or-rat 1200mg/kg  |      |
| 4. cis-1,4-Dichloro-2-butene        | (1196)      | 14718EF     | NA     | NA        | NA            | 2000          | 95     | 0.2         | NA           | 0.21056   | 0.21069   | 2001.1        | 8.5         | 1478-11-5       | NA                           | N/A               |      |
| 5. trans-1,4-Dichloro-2-butene      | (0486)      | MKBP6041V   | NA     | NA        | NA            | 2000          | 96.5   | 0.2         | NA           | 0.20731   | 0.20746   | 2001.7        | 8.4         | 110-57-6        | NA                           | N/A               |      |
| 6. Diethyl ether                    | (0153)      | IK18CAS000C | NA     | NA        | NA            | 2000          | 99.9   | 0.2         | NA           | 0.20025   | 0.20040   | 2001.5        | 8.1         | 60-29-7         | NA                           | 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         | NA                           | or-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)    | or-rat 75mg/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)         | or-rat 2460mg/kg  |      |
| 10. Methacrylonitrile               | (0472)      | 00427ET     | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20221   | 2001.4        | 8.2         | 128-98-7        | 1 ppm (3mg/m3/8H) (skin)     | or-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)   | or-rat 277mg/kg   |      |
| 12. Methyl methacrylate             | (0404)      | MKGW6137V   | 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)        | or-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)     | or-rat 780mg/kg   |      |
| 14. 2-Nitropropane                  | (0461)      | 14002JK     | NA     | NA        | NA            | 2000          | 97.3   | 0.2         | NA           | 0.20560   | 0.20577   | 2001.6        | 8.3         | 78-46-9         | 10 ppm (35mg/m3/8H)          | or-rat 720mg/kg   |      |
| 15. Perchloroethane                 | (0460)      | HGA01       | NA     | NA        | NA            | 2000          | 98     | 0.2         | NA           | 0.20413   | 0.20430   | 2001.6        | 8.3         | 78-01-7         | NA                           | 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)      | or-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         | NA                           | or-rat 915mg/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        | NA                           | or-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        | NA                           | N/A               |      |
| 20. trans-1,2-Dichloroethene        | 35171       | 101623      | 0.05   | 5.00      | 40003.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.6        | 22.9        | 156-60-5        | NA                           | N/A               |      |
| 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                      | or-rat 1235mg/kg  |      |
| 22. 1,1-Dichloroethane              | 32261       | 102023      | 0.10   | 10.00     | 20001.6       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.4        | 75-35-4         | 1 ppm (4mg/m3/8H)            | or-rat 200mg/kg   |      |
| 23. Bromoform                       | 95321       | 020724      | 0.10   | 10.00     | 20003.2       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 78-25-2         | 0.5 ppm (5mg/m3) (skin)      | or-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)         | or-rat 2350mg/kg  |      |
| 25. Chloroform                      | 95321       | 020724      | 0.10   | 10.00     | 20002.9       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 67-68-3         | 60 ppm (240mg/m3) (CL)       | or-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         | 100 ppm                      | or-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                      | or-rat 725mg/kg   |      |
| 28. 2,2-Dichloropropane             | 95321       | 020724      | 0.10   | 10.00     | 20003.4       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 594-20-7        | NA                           | N/A               |      |
| 29. Trichloroethene                 | 95321       | 020724      | 0.10   | 10.00     | 20201.1       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 2019.8        | 20.8        | 127-18-4        | 25 ppm (170mg/m3/8H) (final) | or-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)       | or-rat 10300mg/kg |      |
| 31. 1,2-Dibromo-3-chloropropane     | 35161       | 112322      | 0.05   | 5.00      | 40018.5       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.3        | 22.9        | 86-12-8         | 0.001 ppm                    | or-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)                  | or-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)                  | or-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)         | or-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        | NA                           | or-mus 3600mg/kg  |      |
| 36. 1,1-Dichloropropane             | 35161       | 112322      | 0.05   | 5.00      | 40012.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.1        | 28.7        | 563-58-6        | NA                           | 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      | NA                           | 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      | NA                           | 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)      | or-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        | 830-20-6        | NA                           | or-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)    | or-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)   | or-rat 936mg/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)         | or-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)          | or-rat 149.8mg/kg |      |
| 45. Benzene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 71-43-2         | 1 ppm                        | or-rat 4894mg/kg  |      |
| 46. Bromobenzene                    | 35162       | 050823      | 0.05   | 5.00      | 40003.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 104-51-8        | NA                           | or-rat 2699mg/kg  |      |
| 47. n-Butyl 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)        | or-rat >2000mg/kg |      |
| 48. Ethyl benzene                   | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 99-87-6         | NA                           | or-rat 4750mg/kg  |      |
| 49. p-Isopropyl toluene             | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 91-20-3         | 10 ppm (50mg/m3/8H)          | or-rat 490mg/kg   |      |
| 50. Naphthalene                     | 35162       | 050823      | 0.05   | 5.00      | 40006.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 100-42-5        | 100 ppm                      | or-rat 5000mg/kg  |      |
| 51. Styrene                         | 35162       | 050823      | 0.05   | 5.00      | 40004.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 108-88-3        | 200 ppm                      | or-rat 5000mg/kg  |      |
| 52. Toluene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 87-81-6         | NA                           | or-rat 1390mg/kg  |      |
| 53. 1,2,3-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40003.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 120-82-1        | 5 ppm (CL) (40mg/m3)         | or-rat 756mg/kg   |      |
| 54. 1,2,4-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.6        | 23.0        | 95-63-6         | NA                           | or-rat 5g/kg      |      |
| 55. 1,2,4-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40001.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 108-87-8        | NA                           | or-rat 5000mg/kg  |      |
| 56. 1,3,5-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.7       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 23.0        | 95-63-6         | NA                           | or-rat 5g/kg      |      |
| 57. m-Xylene                        | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 108-87-8        | NA                           | or-rat 5000mg/kg  |      |
| 58. tert-Butyl benzene              | 35163       | 101923      | 0.05   | 5.00      | 40001.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 108-38-3        | 100 ppm (435mg/m3/8H)        | or-rat 5g/kg      |      |
| 59. sec-Butyl benzene               | 35163       | 101923      | 0.05   | 5.00      | 40002.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 96-06-6         | NA                           | N/A               |      |
| 60. Chlorobenzene                   | 35163       | 101923      | 0.05   | 5.00      | 40003.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 135-98-8        | NA                           | or-rat 2240mg/kg  |      |
| 61. 2-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.5        | 22.9        | 108-90-7        | 75 ppm (350mg/m3/8H)         | or-rat 2290mg/kg  |      |
| 62. 4-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 95-49-8         | 50 ppm (250mg/m3/8H)         | or-rat 3900mg/kg  |      |
| 63. 1,2-Dichlorobenzene             | 35163       | 101923      | 0.05   | 5.00      | 40003.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 106-43-4        |                              |                   |      |

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., Hydrogen(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                                        | 9.97          |
| 2      | 1,1,2-Trichloro-1,2,2-trifluoroethane        | 10.53         |
| 3      | 1,1-Dichloroethane                           | 11.10         |
| 4      | Acetonitrile                                 | 12.60         |
| 5      | Iodomethane                                  | 12.91         |
| 6      | Allyl chloride                               | 13.56         |
| 7      | Carbon disulfide/Methylene chloride          | 13.94         |
| 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     | Methoxyvinylene/Methyl acrylate/Chloroform   | 18.49         |
| 13     | Isobutene/1,1,1-Trichloroethane              | 18.91         |
| 14     | 1,1-Dichloropropane                          | 20.46         |
| 15     | Carbon tetrachloride                         | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                   | 21.48         |
| 17     | Trichloroethene                              | 23.88         |
| 18     | 1,2-Dichloropropane                          | 24.52         |
| 19     | Methyl methacrylate                          | 25.13         |
| 20     | Bromochloropropane                           | 25.46         |
| 21     | Dibromomethane/2-Pentopropane                | 27.07         |
| 22     | cis-1,2-Dichloroethene                       | 28.03         |
| 23     | Toluene                                      | 28.73         |
| 24     | Ethyl methacrylate/Trans-1,2-Dichloropropane | 29.34         |
| 25     | 1,1,2-Trichloroethane                        | 30.34         |
| 26     | Tetrachloroethane/1,2-Dichloropropane        | 31.16         |
| 27     | Dibromochloromethane                         | 32.84         |
| 28     | 1,2-Dibromomethane                           | 33.26         |
| 29     | Chlorobenzene                                | 33.40         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane       | 33.85         |
| 31     | m-Xylene/p-Xylene                            | 35.33         |
| 32     | o-Xylene                                     | 35.70         |
| 33     | Styrene                                      | 35.70         |
| 34     | Isopropylbenzene/Bromofarm                   | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                    | 36.80         |
| 36     | 1,1,2-Trichloropropane                       | 37.23         |
| 37     | n-Propylbenzene                              | 37.77         |
| 38     | trans-1,4-Dichloro-3-butene                  | 37.92         |
| 39     | Bromobenzene                                 | 38.05         |
| 40     | 1,3,5-Trimethylbenzene                       | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                       | 38.50         |
| 42     | Chlorobenzene                                | 38.63         |
| 43     | 4-Chlorobenzene                              | 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-Isopropylbenzene                           | 41.02         |
| 49     | 1,3-Trichlorobenzene                         | 41.42         |
| 50     | 1,4-Dichlorobenzene                          | 41.83         |
| 51     | n-Butylbenzene                               | 42.52         |
| 52     | 1,2-Dichlorobenzene                          | 42.18         |
| 53     | 1,2-Dibromo-3-chloropropane                  | 46.12         |
| 54     | Nitrobenzene                                 | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                       | 49.28         |
| 56     | Hexachlorocyclopentadiene                    | 49.72         |
| 57     | Naphthalene                                  | 50.56         |
| 58     | 1,2,3-Trichlorobenzene                       | 51.16         |

## 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 | 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<br>H370<br>P271<br>P302,332 | Highly Flammable Liquid and Vapor<br>Cause damage to organs<br>Use in ventilated area<br>If on skin, wash with soap and water | H301, 311, 331<br>H351<br>P280<br>P305,351,338 | Toxic if swallowed, skin contact, inhaled<br>Suspected of causing cancer<br>Use gloves, eye protection/face shield<br>If in eyes, remove contacts, rinse with water |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Signal Word: DANGER

## Section III - Composition

|                                                         |         |              |
|---------------------------------------------------------|---------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) | CAS#    | % (optional) |
| Methanol<br>METHYL ALCOHOL                              | 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.                                                                                                                                                                                                        |
| 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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.



Ree 03117/24

## 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#: BUTB

Solvent(s): Lot#  
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty  
Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

| Compound                            | (K049)      | Lot         | Dir.   | Initial   | Initial       | Nominal       | Purity | Purity      | Uncertainty  | Target    | Actual    | Actual       | Expanded    | SDS Information                        |                              |                   |
|-------------------------------------|-------------|-------------|--------|-----------|---------------|---------------|--------|-------------|--------------|-----------|-----------|--------------|-------------|----------------------------------------|------------------------------|-------------------|
|                                     | Part Number | Number      | Factor | Vol. (mL) | Conc. (µg/mL) | Conc. (µg/mL) | (%)    | Uncertainty | Pipette (mL) | Weight(g) | Weight(g) | Conc (µg/mL) | Uncertainty | (Solvent Safety Info. On Attached pg.) | 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)          | or-rat 2480mg/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)            | or-rat 700mg/kg   |
| 3. Carbon disulfide                 | (0060)      | MKCR8561    | 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)       | or-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         | 1478-11-5                              | N/A                          | N/A               |
| 5. trans-1,4-Dichloro-2-butene      | (0486)      | MKBP6041V   | NA     | NA        | NA            | 2000          | 96.5   | 0.2         | NA           | 0.20731   | 0.20746   | 2001.7       | 8.4         | 110-57-6                               | N/A                          | N/A               |
| 6. Diethyl ether                    | (0153)      | IK18CAS000C | 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                          | or-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)    | or-rat 75mg/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)         | or-rat 2480mg/kg  |
| 10. Methacrylonitrile               | (0442)      | 00427ET     | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20221   | 2001.4       | 8.2         | 128-98-7                               | 1 ppm (3mg/m3/8H) (skin)     | or-rat 127mg/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)   | or-rat 277mg/kg   |
| 12. Methyl methacrylate             | (0404)      | MKGW6137V   | 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)        | or-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)     | or-rat 780mg/kg   |
| 14. 2-Nitropropane                  | (0461)      | HG002JK     | NA     | NA        | NA            | 2000          | 97.3   | 0.2         | NA           | 0.20560   | 0.20577   | 2001.6       | 8.3         | 78-46-9                                | 10 ppm (35mg/m3/8H)          | or-rat 720mg/kg   |
| 15. Perchloroethane                 | (0460)      | 14A001      | NA     | NA        | NA            | 2000          | 98     | 0.2         | NA           | 0.20413   | 0.20430   | 2001.6       | 8.3         | 78-01-7                                | 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         | 78-13-1                                | 1000 ppm (7600mg/m3/8H)      | or-rat 435g/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                          | or-rat 915mg/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                          | or-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      | 40003.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.6       | 23.0        | 156-60-5                               | N/A                          | or-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                      | or-rat 820mg/kg   |
| 22. 1,1-Dichloroethane              | 32261       | 102023      | 0.10   | 10.00     | 20001.6       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.5        | 75-35-4                                | 1 ppm (4mg/m3/8H)            | or-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)      | or-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)         | or-rat 2350mg/kg  |
| 25. Chloroform                      | 95321       | 020724      | 0.10   | 10.00     | 20024.0       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 2001.3       | 20.5        | 67-68-3                                | 60 ppm (240mg/m3) (CL)       | or-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                          | or-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        | 74-95-3                                | N/A                          | or-rat 108mg/kg   |
| 28. 2,2-Dichloropropane             | 95321       | 020724      | 0.10   | 10.00     | 20003.4       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.5        | 75-34-3                                | 100 ppm                      | or-rat 725mg/kg   |
| 29. Trichloroethene                 | 95321       | 020724      | 0.10   | 10.00     | 20201.1       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.4        | 594-20-7                               | N/A                          | N/A               |
| 30. 1,1,1-Trichloroethane           | 95321       | 020724      | 0.10   | 10.00     | 20003.0       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 2019.8       | 20.8        | 127-18-4                               | 25 ppm (170mg/m3/8H) (final) | or-rat 2629mg/kg  |
| 31. 1,2-Dibromo-3-chloropropane     | 35161       | 112322      | 0.05   | 5.00      | 40018.5       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 20.5        | 71-55-6                                | 350 ppm (1900mg/m3/8H)       | or-rat 10300mg/kg |
| 32. 1,2-Dibromoethane               | 35161       | 112322      | 0.05   | 5.00      | 40024.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.3       | 22.9        | 86-12-8                                | 0.001 ppm                    | or-rat 170mg/kg   |
| 33. 1,2-Dichloroethane              | 35161       | 112322      | 0.05   | 5.00      | 40018.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.7       | 22.9        | 106-93-4                               | 20 ppm (8H)                  | or-rat 108mg/kg   |
| 34. 1,2-Dichloropropane             | 35161       | 112322      | 0.05   | 5.00      | 40051.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.4       | 22.9        | 107-06-2                               | 50 ppm (8H)                  | or-rat 670mg/kg   |
| 35. 1,3-Dichloropropane             | 35161       | 112322      | 0.05   | 5.00      | 40005.9       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2002.0       | 22.9        | 78-87-5                                | 75 ppm (350mg/m3/8H)         | or-rat 1947mg/kg  |
| 36. 1,1-Dichloropropene             | 35161       | 112322      | 0.05   | 5.00      | 40012.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 142-28-9                               | N/A                          | or-rat 3600mg/kg  |
| 37. cis-1,3-Dichloropropene         | 35161       | 112322      | 0.05   | 5.00      | 40012.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.0       | 28.7        | 563-58-6                               | N/A                          | N/A               |
| 38. trans-1,3-Dichloropropene       | 35161       | 112322      | 0.05   | 5.00      | 40010.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.1       | 23.0        | 10061-01-5                             | N/A                          | N/A               |
| 39. Hexachloro-1,3-butadiene        | 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               |
| 40. 1,1,1,2-Tetrachloroethane       | 35161       | 112322      | 0.05   | 5.00      | 40011.9       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.6       | 29.7        | 87-68-3                                | 0.02 ppm (0.24mg/m3/8H)      | or-rat 82mg/kg    |
| 41. 1,1,2,2-Tetrachloroethane       | 35161       | 112322      | 0.05   | 5.00      | 40007.5       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.1       | 22.9        | 830-20-6                               | N/A                          | or-rat 670mg/kg   |
| 42. 1,1,2-Trichloroethane           | 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)    | or-rat 800mg/kg   |
| 43. Trichloroethene                 | 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)   | or-rat 936mg/kg   |
| 44. 1,2,3-Trichloropropane          | 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)         | or-mus 2402mg/kg  |
| 45. Benzene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.9       | 22.9        | 96-18-4                                | 10 ppm (60mg/m3/8H)          | or-rat 149.8mg/kg |
| 46. Bromobenzene                    | 35162       | 050823      | 0.05   | 5.00      | 40006.9       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 71-43-2                                | 1 ppm                        | or-rat 4894mg/kg  |
| 47. n-Butyl benzene                 | 35162       | 050823      | 0.05   | 5.00      | 40003.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 108-88-1                               | N/A                          | or-rat 2699mg/kg  |
| 48. Ethyl benzene                   | 35162       | 050823      | 0.05   | 5.00      | 40004.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 104-51-8                               | N/A                          | N/A               |
| 49. p-Isopropyl toluene             | 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)        | or-rat >2000mg/kg |
| 50. Naphthalene                     | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 99-87-6                                | N/A                          | or-rat 4750mg/kg  |
| 51. Styrene                         | 35162       | 050823      | 0.05   | 5.00      | 40004.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 91-20-3                                | 10 ppm (50mg/m3/8H)          | or-rat 490mg/kg   |
| 52. Toluene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 100-42-5                               | 100 ppm                      | or-rat 5000mg/kg  |
| 53. 1,2,3-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40003.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 108-88-3                               | 200 ppm                      | or-rat 5000mg/kg  |
| 54. 1,2,4-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 87-81-6                                | N/A                          | or-mus 1390mg/kg  |
| 55. 1,2,4-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40001.6       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 120-82-1                               | 5 ppm (CL) (40mg/m3)         | or-rat 756mg/kg   |
| 56. 1,3,5-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.7       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 23.0        | 95-63-6                                | N/A                          | or-rat 5g/kg      |
| 57. m-Xylene                        | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 108-87-8                               | N/A                          | or-rat 5000mg/kg  |
| 58. tert-Butyl benzene              | 35163       | 101923      | 0.05   | 5.00      | 40001.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 108-38-3                               | 100 ppm (435mg/m3/8H)        | or-rat 5g/kg      |
| 59. sec-Butyl benzene               | 35163       | 101923      | 0.05   | 5.00      | 40002.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 96-06-6                                | N/A                          | N/A               |
| 60. Chlorobenzene                   | 35163       | 101923      | 0.05   | 5.00      | 40002.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 135-98-8                               | N/A                          | or-rat 2240mg/kg  |
| 61. 2-Chlorotoluene                 | 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)         | or-rat 2290mg/kg  |
| 62. 4-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.5       | 22.9        | 95-49-8                                | 50 ppm (250mg/m3/8H)         | or-rat 3900mg/kg  |
| 63. 1,2-Dichlorobenzene             | 35163       | 101923      | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 106-43-4                               | N/A                          | or-rat 2100mg/kg  |
| 64. 1,3-Dichlorobenzene             | 35163       | 101923      | 0.05   | 5.00      | 40001.7       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 95-50-1                                | 50 ppm (300mg/m3) (CL)       | or-rat 500mg/kg   |
| 65. 1,4-Dichlorobenzene             | 35163       | 101923      | 0.     |           |               |               |        |             |              |           |           |              |             |                                        |                              |                   |



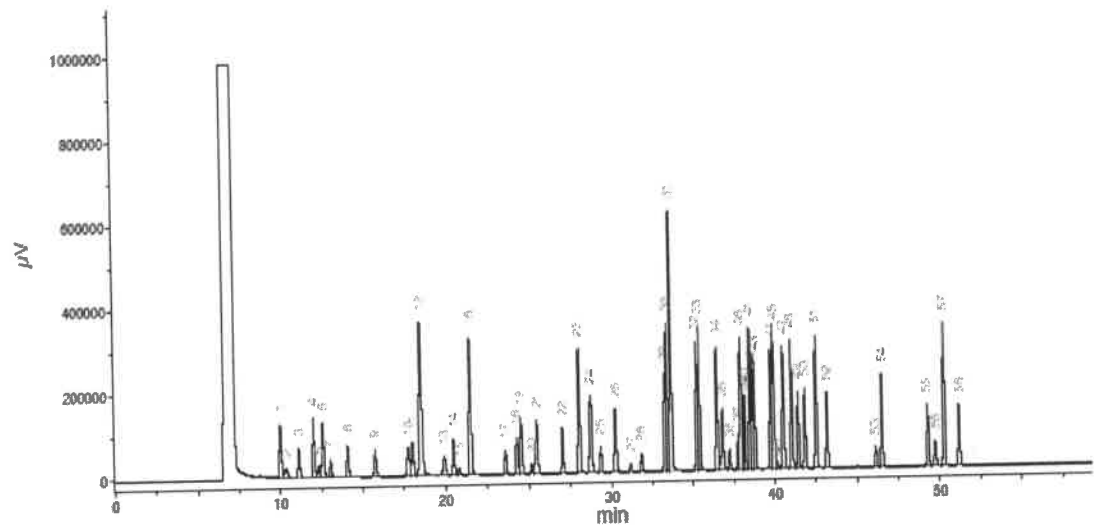


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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., Hydrogen(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                                          | 9.97          |
| 2      | 1,1,2-Trichloro-1,2,2-trifluoroethane          | 10.53         |
| 3      | 1,1-Dichloroethane                             | 11.10         |
| 4      | Acetonitrile                                   | 12.60         |
| 5      | Iodomethane                                    | 12.91         |
| 6      | Allyl chloride                                 | 12.96         |
| 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     | Methoxyvinylbenzene/Methyl acrylate/Chloroform | 18.49         |
| 13     | Isobutene/1,1,1-Trichloroethane                | 18.91         |
| 14     | 1,1-Dichloropropane                            | 20.46         |
| 15     | Carbon tetrachloride                           | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                     | 21.48         |
| 17     | Trichloroethene                                | 23.88         |
| 18     | 1,2-Dichloropropane                            | 24.52         |
| 19     | Methyl methacrylate                            | 25.13         |
| 20     | Bromochloropropane                             | 25.46         |
| 21     | Dibromomethane/2-Pentene                       | 27.07         |
| 22     | cis-1,2-Dichloroethene                         | 28.03         |
| 23     | Toluene                                        | 28.73         |
| 24     | Ethyl methacrylate/trans-1,2-Dichloroethene    | 29.34         |
| 25     | 1,1,2-Trichloroethane                          | 30.34         |
| 26     | Tetrachloroethane/1,2-Dichloropropane          | 31.16         |
| 27     | Dibromochloromethane                           | 31.84         |
| 28     | 1,2-Dibromomethane                             | 33.06         |
| 29     | Chlorobenzene                                  | 33.40         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane         | 33.85         |
| 31     | m-Xylene/p-Xylene                              | 35.33         |
| 32     | o-Xylene                                       | 35.70         |
| 33     | Styrene                                        | 35.70         |
| 34     | Isopropylbenzene/Bromofarm                     | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                      | 36.80         |
| 36     | 1,1,2-Trichloropropane                         | 37.23         |
| 37     | n-Propylbenzene                                | 37.77         |
| 38     | trans-1,4-Dichloro-3-butene                    | 37.92         |
| 39     | Bromobenzene                                   | 38.05         |
| 40     | 1,3,5-Trimethylbenzene                         | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                         | 38.50         |
| 42     | Chlorobenzene                                  | 38.63         |
| 43     | 4-Chlorobenzene                                | 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-Isopropylbenzene                             | 41.02         |
| 49     | 1,3-Dichlorobenzene                            | 41.42         |
| 50     | 1,4-Dichlorobenzene                            | 41.83         |
| 51     | n-Butylbenzene                                 | 42.52         |
| 52     | 1,2-Dichlorobenzene                            | 42.18         |
| 53     | 1,2-Dibromo-3-chloropropane                    | 46.12         |
| 54     | Nitrobenzene                                   | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                         | 49.28         |
| 56     | Hexachlorocyclopentadiene                      | 49.72         |
| 57     | Naphthalene                                    | 50.56         |
| 58     | 1,2,3-Trichlorobenzene                         | 51.16         |



## 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 | 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<br>H370<br>P271<br>P302,332 | Highly Flammable Liquid and Vapor<br>Cause damage to organs<br>Use in ventilated area<br>If on skin, wash with soap and water | H301, 311, 331<br>H351<br>P280<br>P305,351,338 | Toxic if swallowed, skin contact, inhaled<br>Suspected of causing cancer<br>Use gloves, eye protection/face shield<br>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)<br>> 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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.



## Certified Reference Material CRM

Dec 09/17/24

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

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Justin Dippold</i>  |                 | 091424 |
| Formulated By:         | Justin Dippold  | DATE   |
| <i>Pedro L. Rentas</i> |                 | 091424 |
| Reviewed By:           | Pedro L. Rentas | DATE   |

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °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

| 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        | ori-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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--&gt; 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--&gt; 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- 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).



## Certified Reference Material CRM

Dec 09/17/24

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

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Justin Dippold</i>  |                 | 091424 |
| Formulated By:         | Justin Dippold  | DATE   |
| <i>Pedro L. Rentas</i> |                 | 091424 |
| Reviewed By:           | Pedro L. Rentas | DATE   |

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °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

| 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        | ori-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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--&gt; 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--&gt; 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- 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).



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

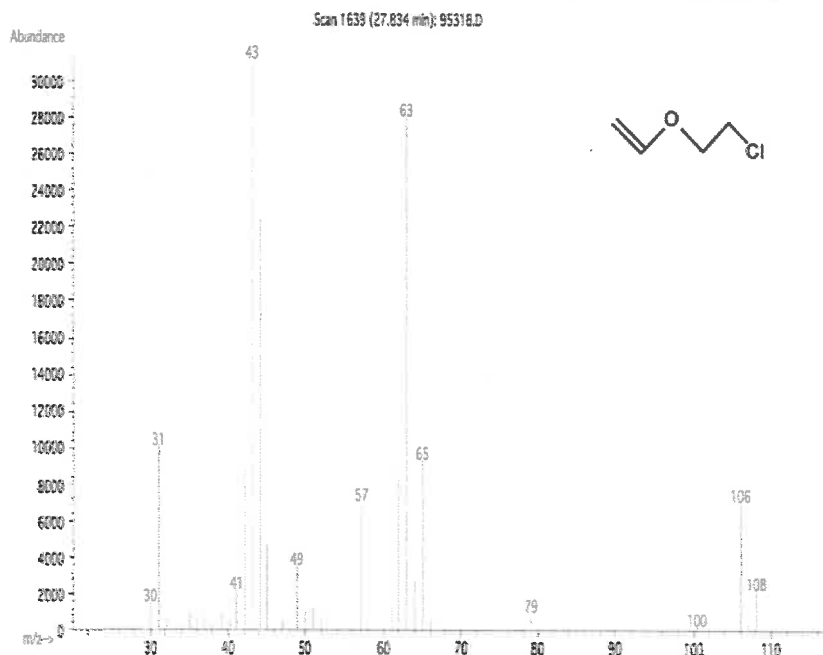
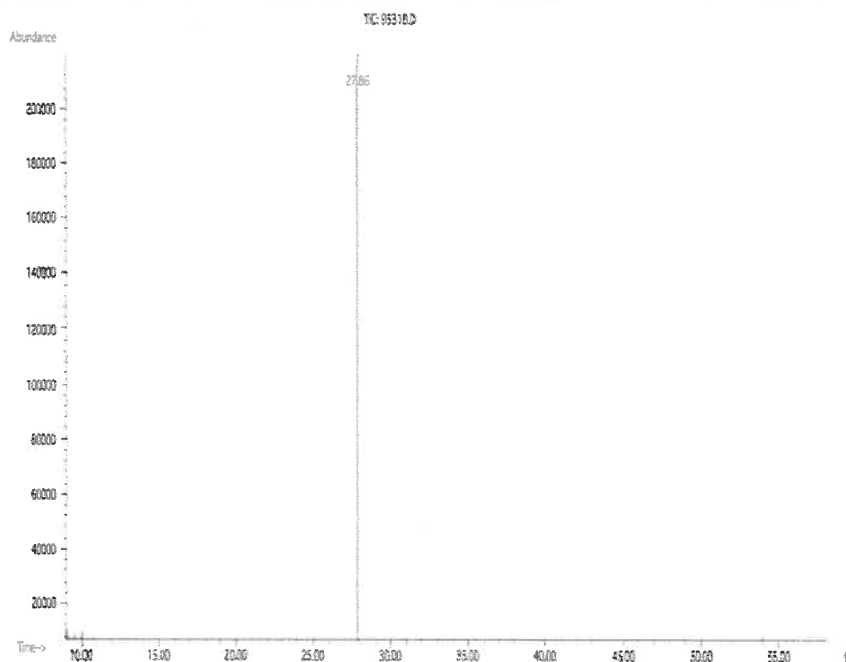
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 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).

GHS/OSHA Compliant

|                     |                                    |                                                            |                                          |
|---------------------|------------------------------------|------------------------------------------------------------|------------------------------------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC             | Emergency Telephone USA & CANADA                           | <b>1-800-535-5053</b>                    |
| Address             | 44 Rosotto Dr.<br>Hamden CT. 06514 | Emergency Telephone International<br>Date Prepared/Revised | <b>1-352-323-3500</b><br>January 1, 2024 |

|          |                                      |                |                                               |
|----------|--------------------------------------|----------------|-----------------------------------------------|
| 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 shield        |
| P302,332 | If on skin, wash with soap and water | P305,351,338   | If in eyes, remove contacts, rinse with water |



**Signal Word: DANGER**

| 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.**

## Section IV. FIRST AID MEASURES

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| <b>If inhaled</b>              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| <b>In case of skin contact</b> | Wash with soap and water. Consult a physician.                                                              |
| <b>In case of eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| <b>If swallowed</b>            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

|                                      |                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                  | 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. |
| <b>Suitable extinguishing media</b>  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| <b>Protective equipment for fire</b> | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                         |

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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).                                                             |

|                               |                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                          |

|                                                                                               |                        |                                                            |                 |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|-----------------|
| 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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.



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

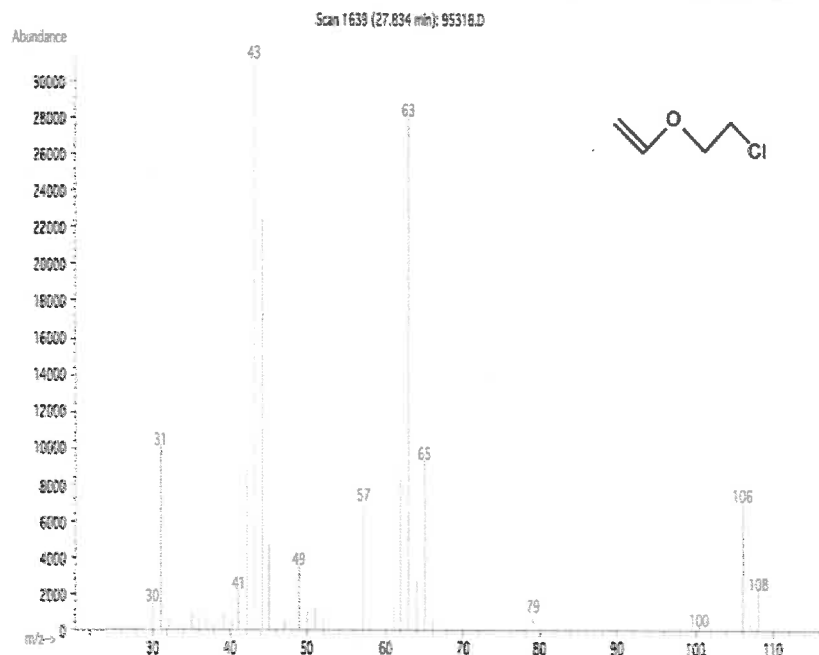
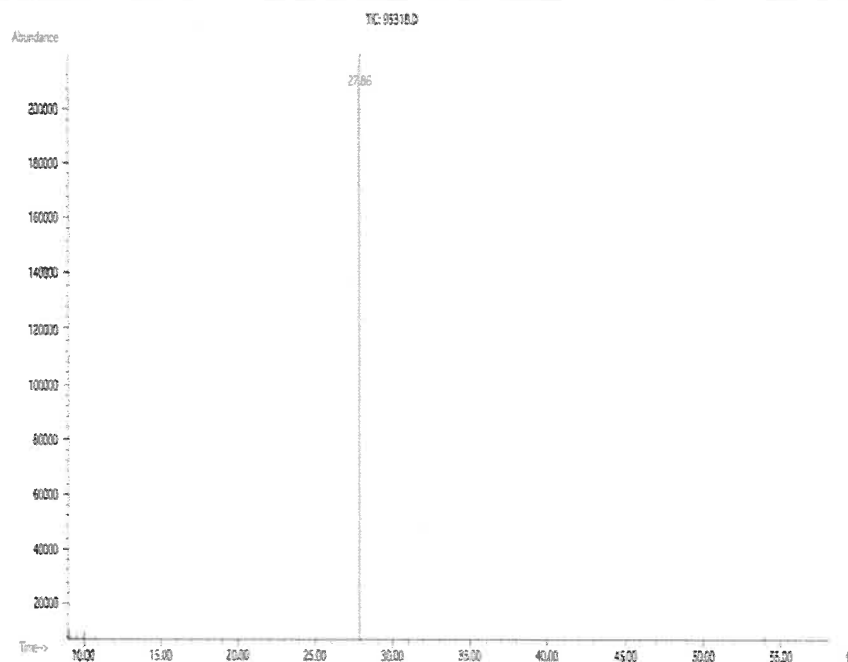
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 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).



## 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.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | 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 shield        |
| 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 | > 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                | 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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.



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

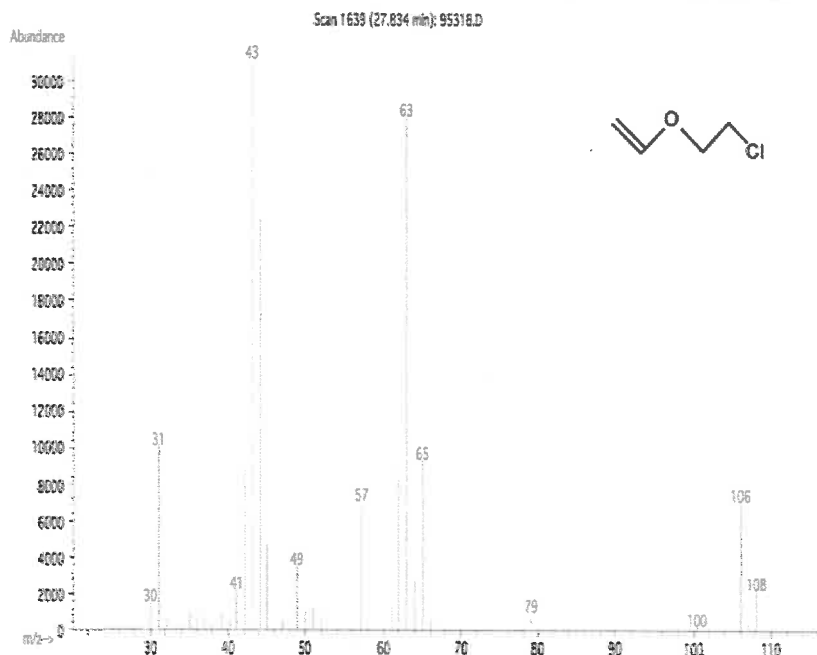
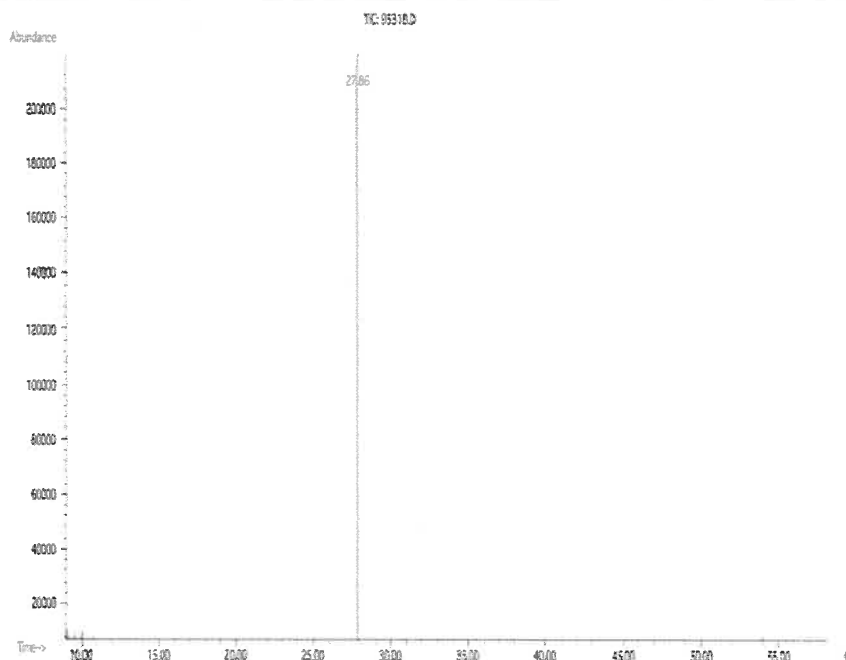
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 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).

## 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.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | 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 shield        |
| 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 | > 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                | 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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.



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

See 1216124  
20 vial  
V14630 to  
V14649

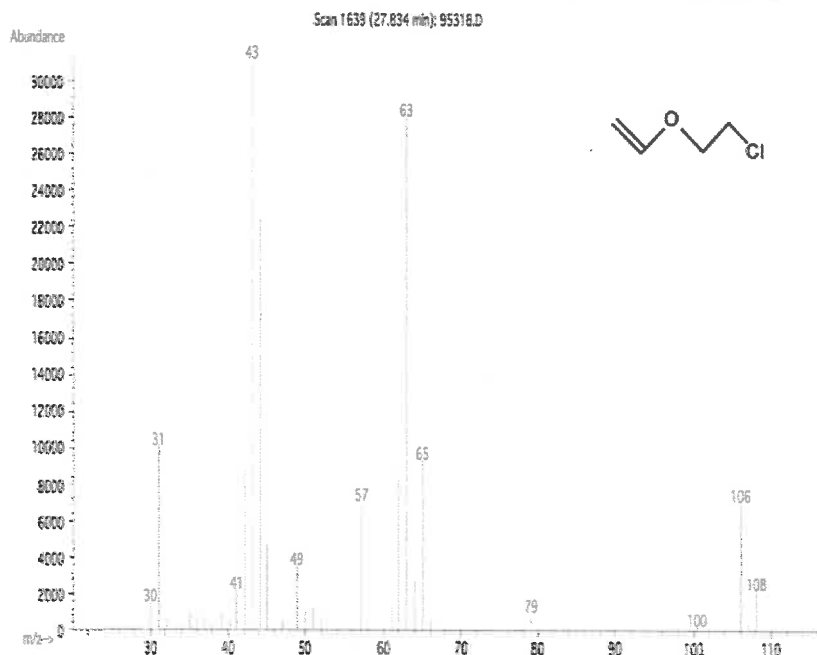
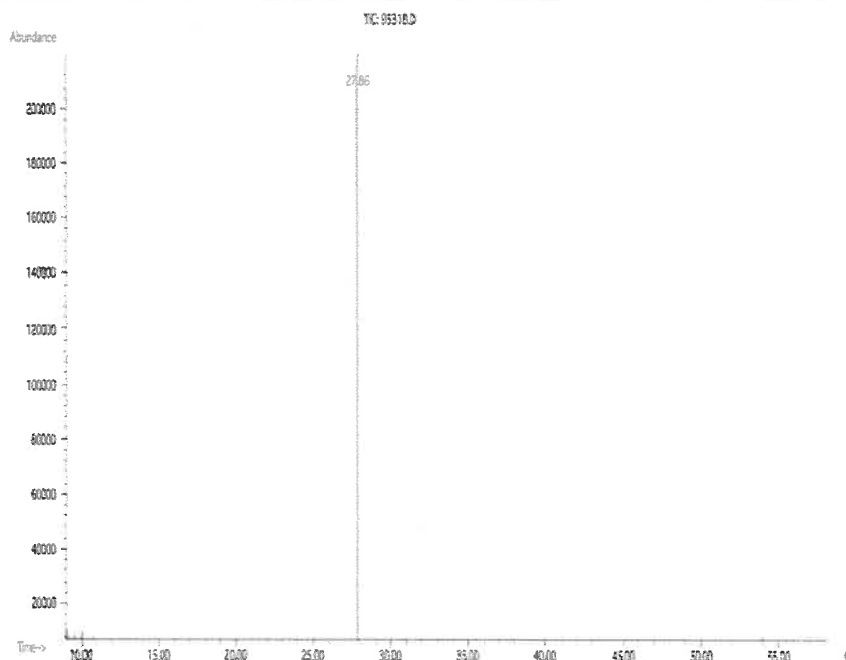
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 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).

## 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.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | 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 shield        |
| 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 | > 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                | 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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.





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*



### 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:**

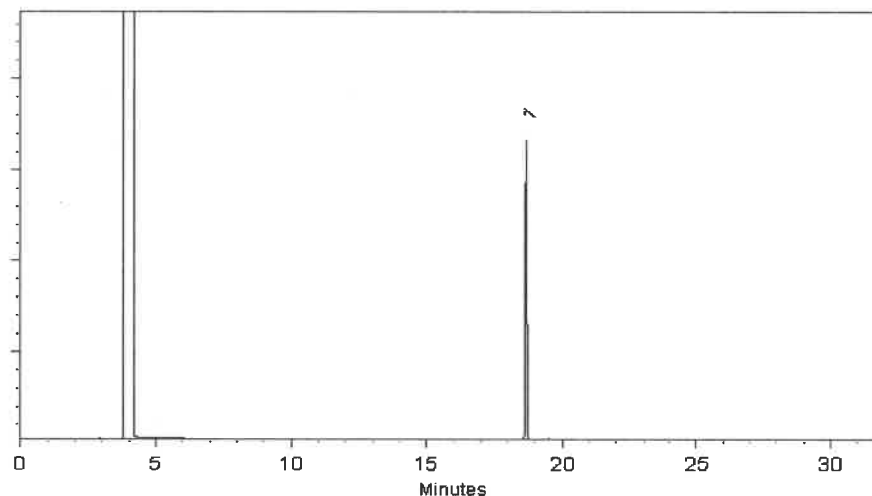
FID

**Split Vent:**

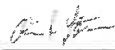
40 ml/min

**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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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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*



### 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.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 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             | Bromochloromethane | 74-97-5 | 00008541 | 99%    | 2,018.0 µg/mL               | +/- 113.3890                           |

\* 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:**

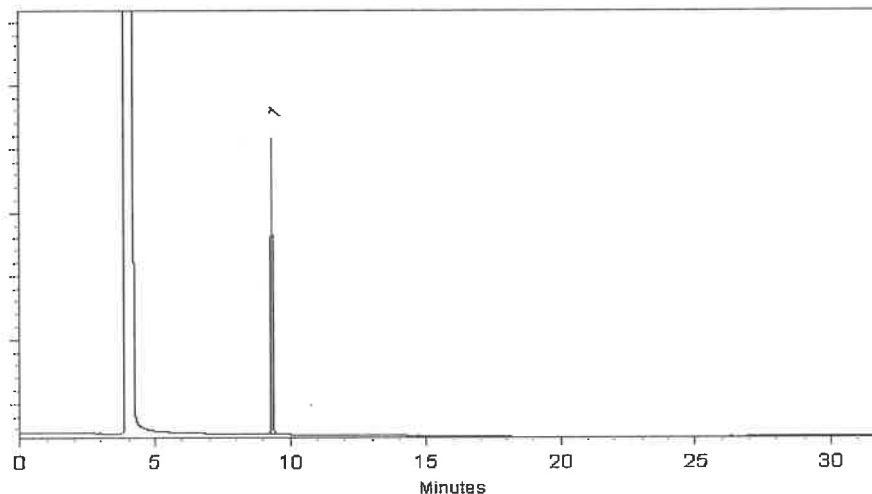
FID

**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.

  
Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022      Balance Serial #      B707717271

  
Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

chromatographic plus



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**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard  
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 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) |
|---------------|--------------------|---------|----------|--------|-----------------------------|----------------------------------------|
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\* 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:**

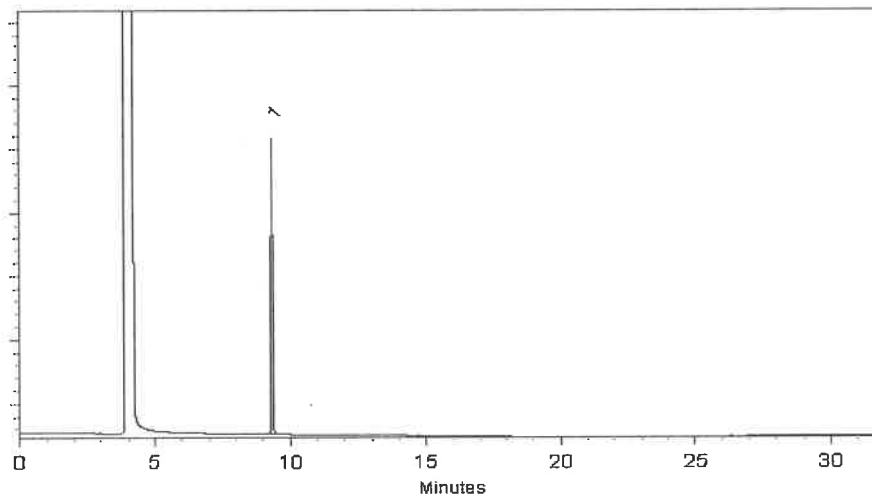
FID

**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.

  
Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022      Balance Serial #      B707717271

  
Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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.
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### 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

chromatographic plus



**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.:** A0193071

**Description :** Bromochloromethane Standard  
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 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             | Bromochloromethane | 74-97-5 | 00008541 | 99%    | 2,018.0 µg/mL               | +/- 113.3890                           |

\* 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:**

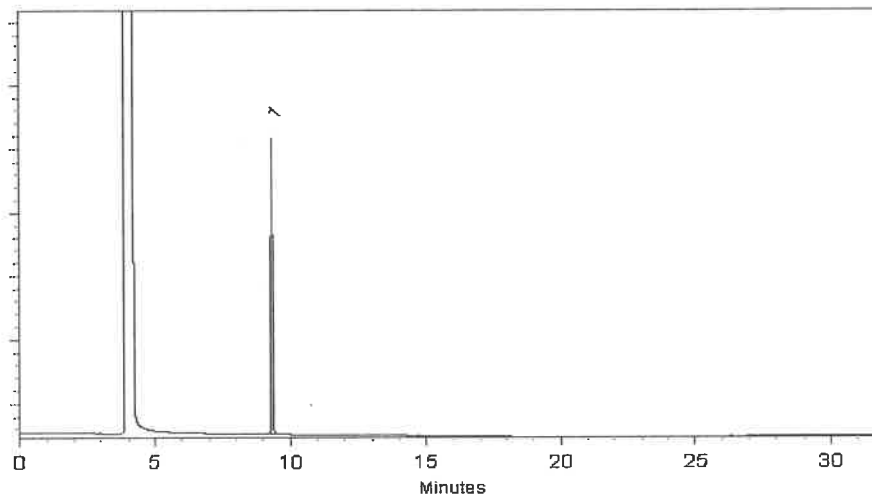
FID

**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.

  
Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022      Balance Serial #      B707717271

  
Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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:

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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

chromatographic plus



**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.:** A0193071

**Description :** Bromochloromethane Standard  
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 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             | Bromochloromethane | 74-97-5 | 00008541 | 99%    | 2,018.0 µg/mL               | +/- 113.3890                           |

\* 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:**

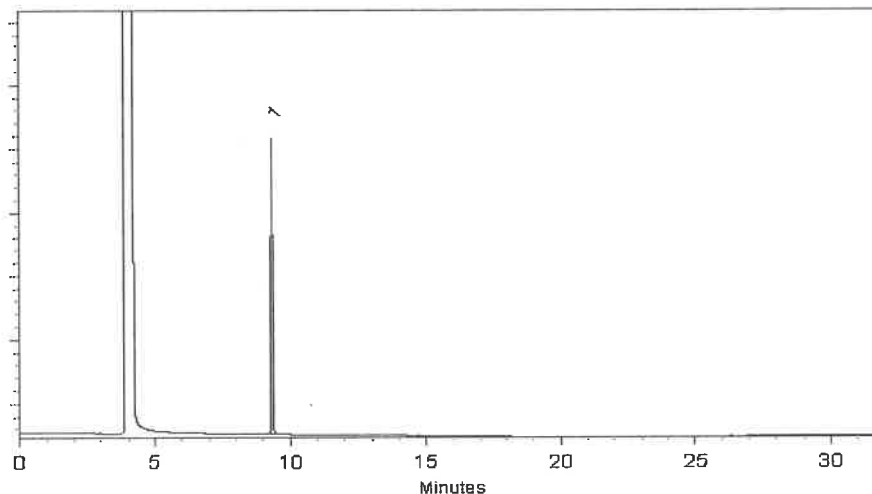
FID

**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.

  
Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022      Balance Serial #      B707717271

  
Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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:

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$k$  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:

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## CERTIFIED REFERENCE MATERIAL

# 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. :** 555582 **Lot No.:** A0196865

**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 :** April 30, 2026 **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-32845 | 99%    | 25,036.0 µg/mL              | +/- 1,417.9179                         |
| 2           | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4   | 184975   | 99%    | 25,132.0 µg/mL              | +/- 1,423.3549                         |
| 3           | Dibromofluoromethane          | 1868-53-7  | 022013   | 99%    | 25,040.0 µg/mL              | +/- 1,418.1445                         |
| 4           | Toluene-d8                    | 2037-26-5  | PR-33397 | 99%    | 25,028.0 µg/mL              | +/- 1,417.4648                         |

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Apr-2023

**Balance:** 1127510105

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:

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*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:

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# Certificate of Analysis

chromatographic plus



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.:** A0209618

**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 :** September 30, 2025 **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  | SHBP3100    | 99%    | 2,019.3 µg/mL               | +/- 69.7974                            |
| 2             | Vinyl acetate     | 108-05-4 | RP231030CTH | 98%    | 2,016.8 µg/mL               | +/- 69.7112                            |
| 3             | Ethyl acetate     | 141-78-6 | SHBQ9682    | 99%    | 2,010.7 µg/mL               | +/- 69.4979                            |
| 4             | Isopropyl acetate | 108-21-4 | BCCG7069    | 99%    | 2,016.0 µg/mL               | +/- 69.6822                            |
| 5             | Propyl acetate    | 109-60-4 | P8XLN       | 99%    | 2,008.0 µg/mL               | +/- 69.4057                            |
| 6             | Butyl acetate     | 123-86-4 | SHBP6314    | 99%    | 2,007.3 µg/mL               | +/- 69.3826                            |
| 7             | Amyl acetate      | 628-63-7 | 41325/1     | 97%    | 2,004.7 µg/mL               | +/- 69.2905                            |

\* 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:**

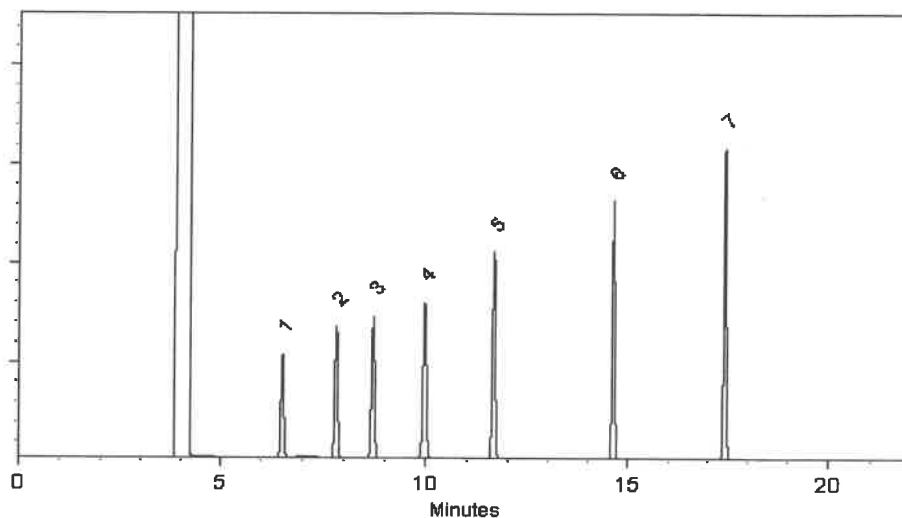
FID

**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.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

*Dylan Murphy*  
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-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:

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### Manufacturing Notes:

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### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

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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.:** A0209618

**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 :** September 30, 2025 **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  | SHBP3100    | 99%    | 2,019.3 µg/mL               | +/- 69.7974                            |
| 2             | Vinyl acetate     | 108-05-4 | RP231030CTH | 98%    | 2,016.8 µg/mL               | +/- 69.7112                            |
| 3             | Ethyl acetate     | 141-78-6 | SHBQ9682    | 99%    | 2,010.7 µg/mL               | +/- 69.4979                            |
| 4             | Isopropyl acetate | 108-21-4 | BCCG7069    | 99%    | 2,016.0 µg/mL               | +/- 69.6822                            |
| 5             | Propyl acetate    | 109-60-4 | P8XLN       | 99%    | 2,008.0 µg/mL               | +/- 69.4057                            |
| 6             | Butyl acetate     | 123-86-4 | SHBP6314    | 99%    | 2,007.3 µg/mL               | +/- 69.3826                            |
| 7             | Amyl acetate      | 628-63-7 | 41325/1     | 97%    | 2,004.7 µg/mL               | +/- 69.2905                            |

\* 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

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## 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:**

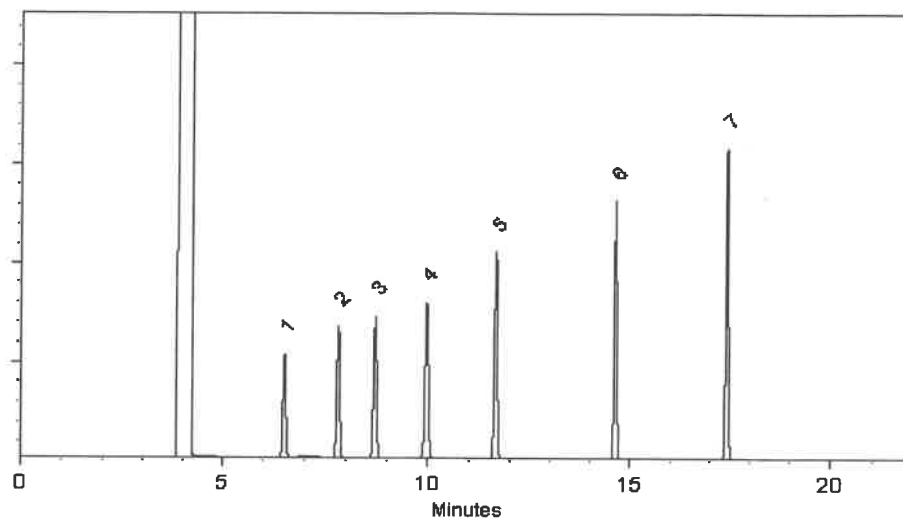
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl



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*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

*Dillon Murphy*  
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-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.
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### Purity Notes:

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### Manufacturing Notes:

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### Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

# 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

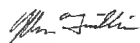
**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**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

REVISED  
By Restek Review of SDS per April 18, 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/ $\mu$ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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**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.:** A0210618

**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 :** July 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             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* 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:**

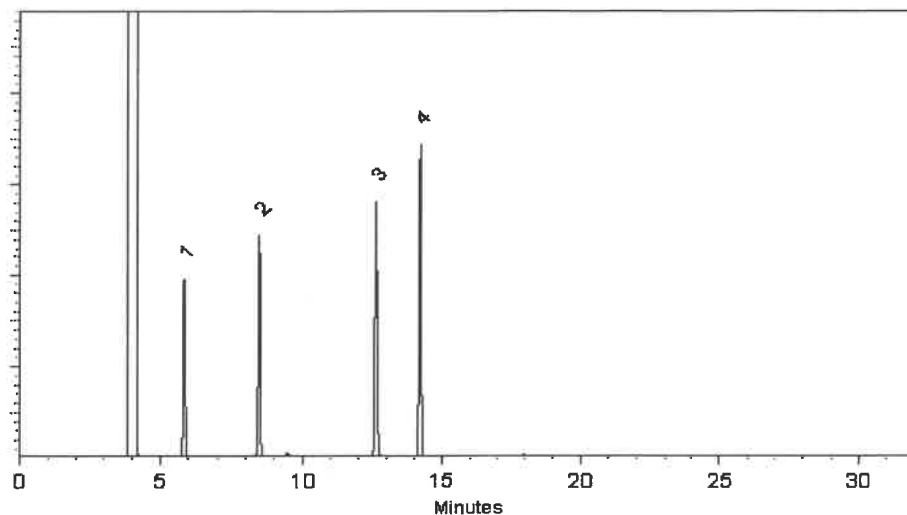
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

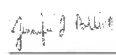


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.
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## 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.:** A0210618

**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 :** July 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             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* 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:**

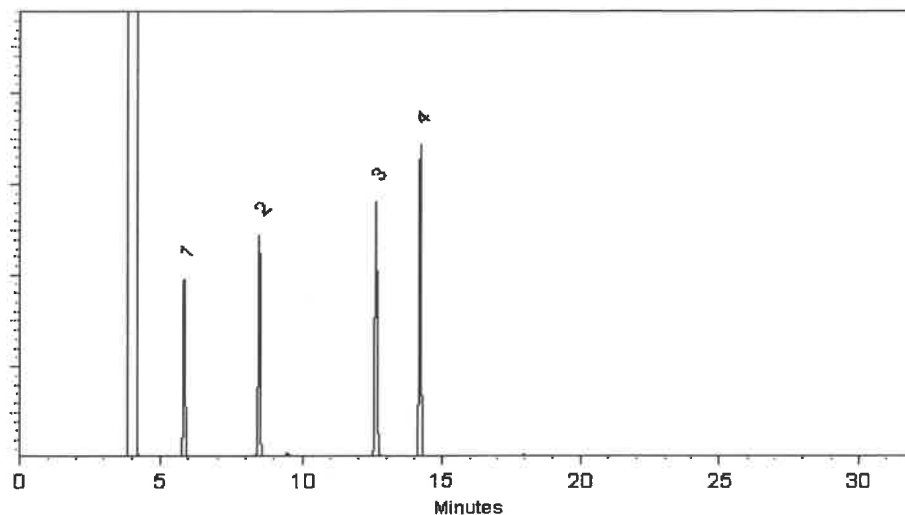
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

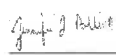


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.
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**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.:** A0210618

**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 :** July 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             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* 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:**

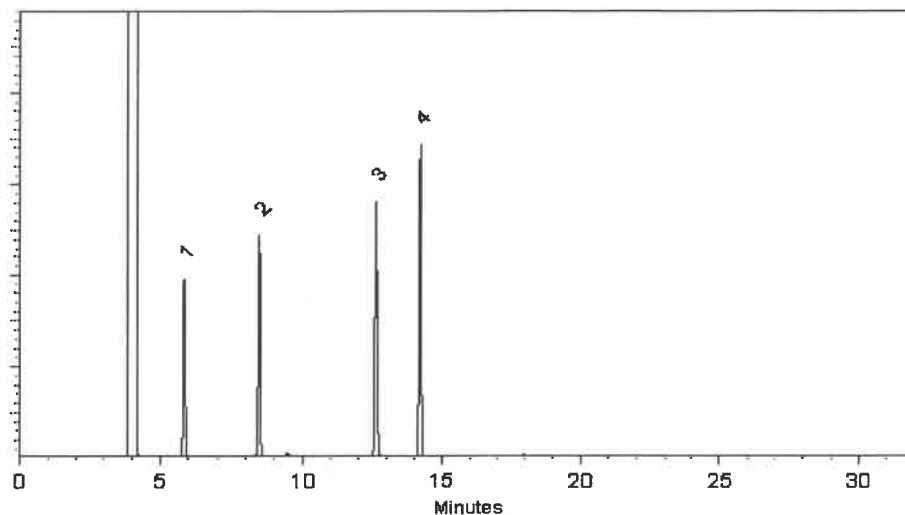
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

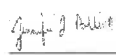


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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:

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**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.:** A0210618  
**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 :** July 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             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* 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:**

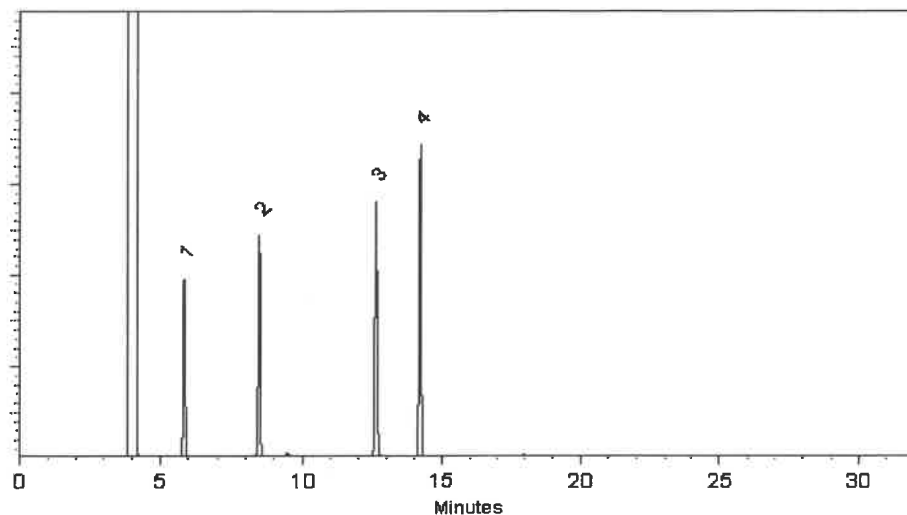
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

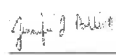


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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:

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### 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.
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V14727 to  
V14756



**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:**

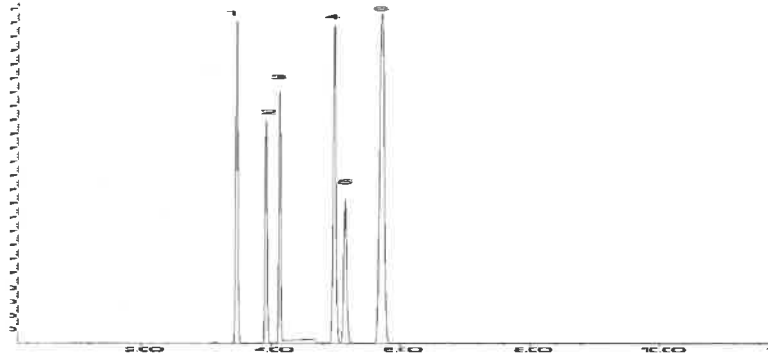
MSD

**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 Suckal - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.





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Rec 12/17/24  
CERTIFIED REFERENCE MATERIAL

30 ml  
**Certificate of Analysis**  
*chromatographic plus*

V14727 to  
V14756



**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:**

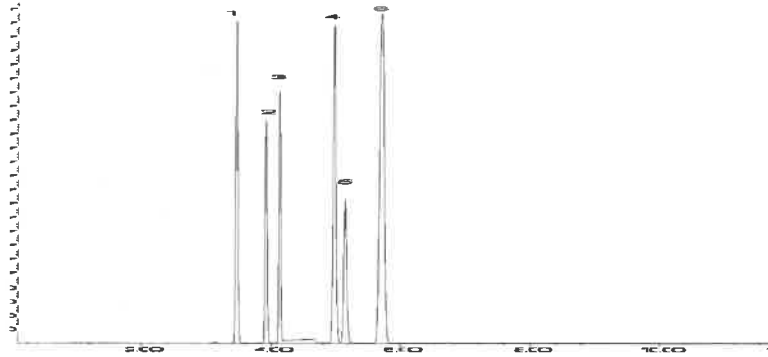
MSD

**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 Suckal - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus

✓ 14842 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:**

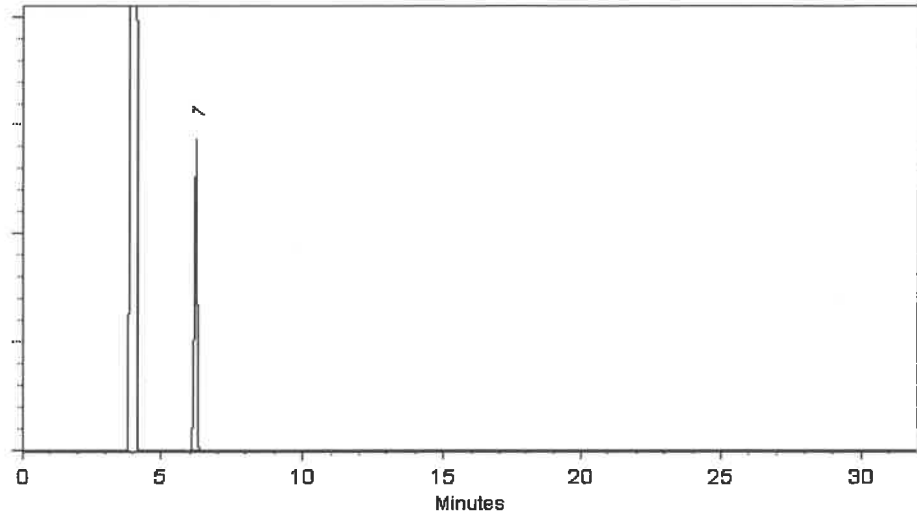
FID

**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.

*A. O. E.*  
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

*Brittany Federinko*  
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/ $\mu$ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.



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2014 Dec 01/08/21  
CERTIFIED REFERENCE MATERIAL

## 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:**

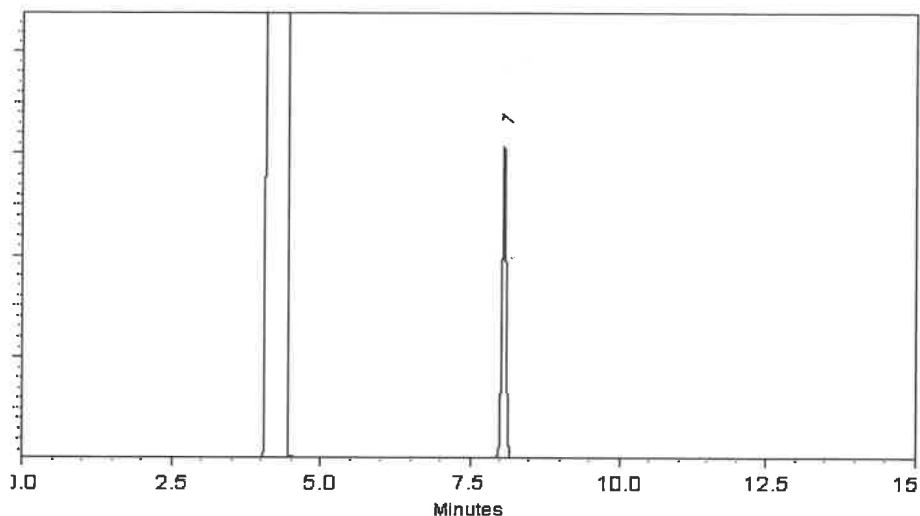
FID

**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  
By Jennifer Pollock at 7:12 am, Jan 05, 2025

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/ $\mu$ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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.
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2014 Dec 01/08/21  
CERTIFIED REFERENCE MATERIAL

## 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:**

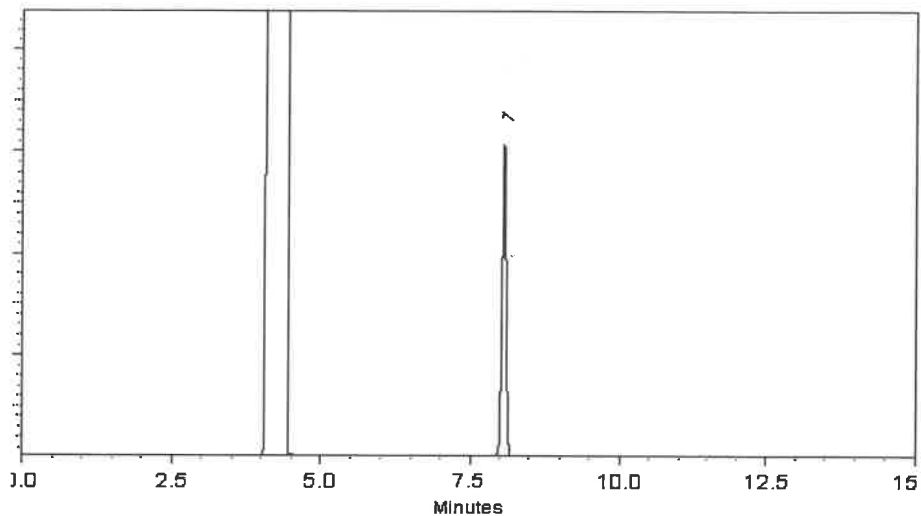
FID

**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  
By Jennifer Pollock at 7:12 am, Jan 05, 2025

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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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:

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### Manufacturing Notes:

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### Handling Notes:

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- 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

Rev 05/09/25  
**Avantor**<sup>™</sup>



V 14921 to  
V 14938

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 <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.3 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.3      |
| Titration 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

Jamie Croak  
Director Quality Operations, Bioscience Production



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 051925  
Description: Acrolein

Solvent(s): Water  
Lot#: 041725Q

5.019

114944-114948

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 051925 |
| Formulated By: | Lawrence Barry  | DATE   |
|                |                 | 051925 |
| Reviewed By:   | Pedro L. Rentas | DATE   |

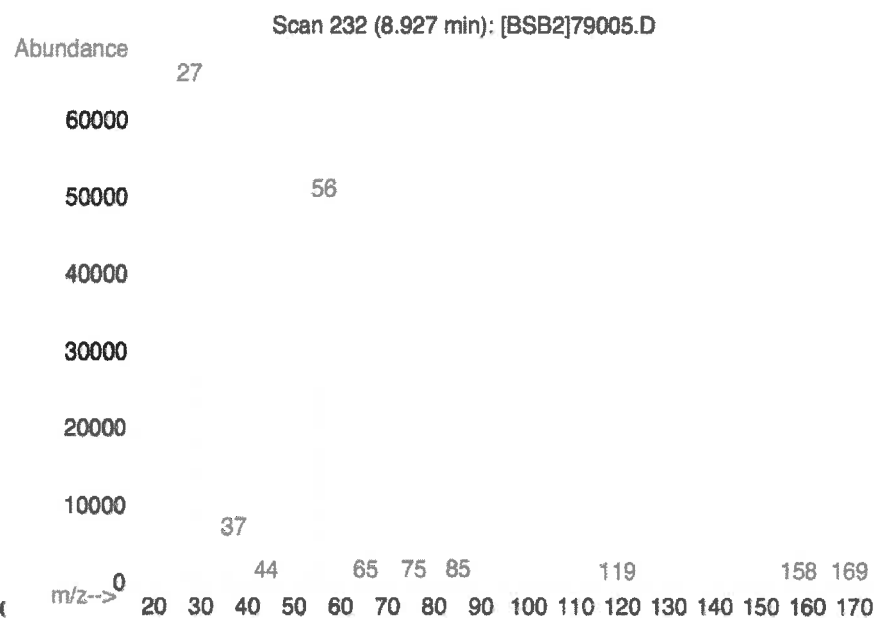
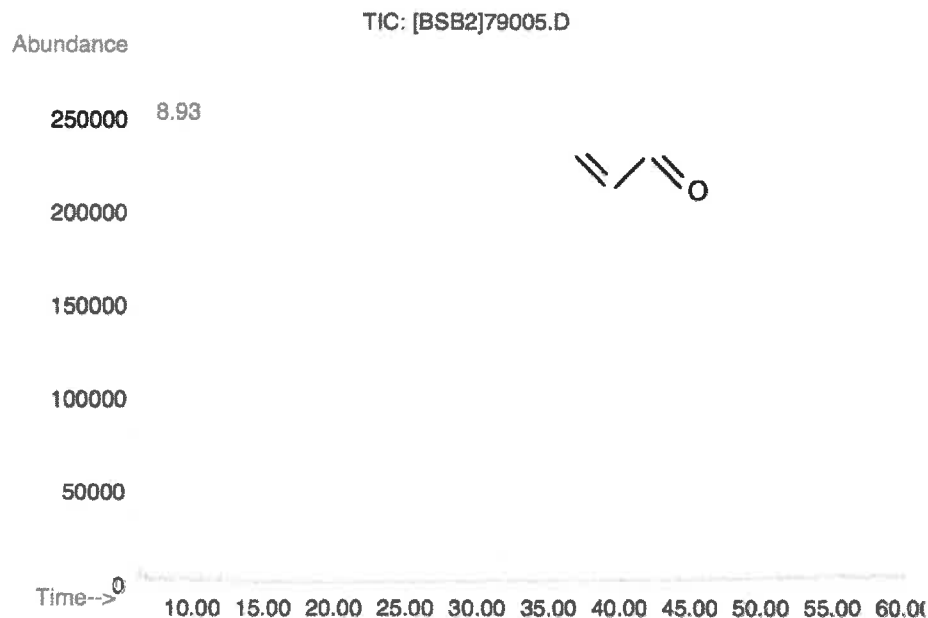
Expiration Date: 061925  
Recommended Storage: Refrigerate (4 °C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

| 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          | 0.05170          | 5004.1              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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.



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  - 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



**Certified Reference Material CRM**

see 05/21/25



**CERTIFIED WEIGHT REPORT**

Part Number: **91980**  
Lot Number: **051925**  
Description: **Acrolein**

Solvent(s):  
Water

Lot#  
041725Q

5.019

114944-114948

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 051925 |
| Formulated By: | Lawrence Barry  | DATE   |
|                |                 | 051925 |
| Reviewed By:   | Pedro L. Rentas | DATE   |

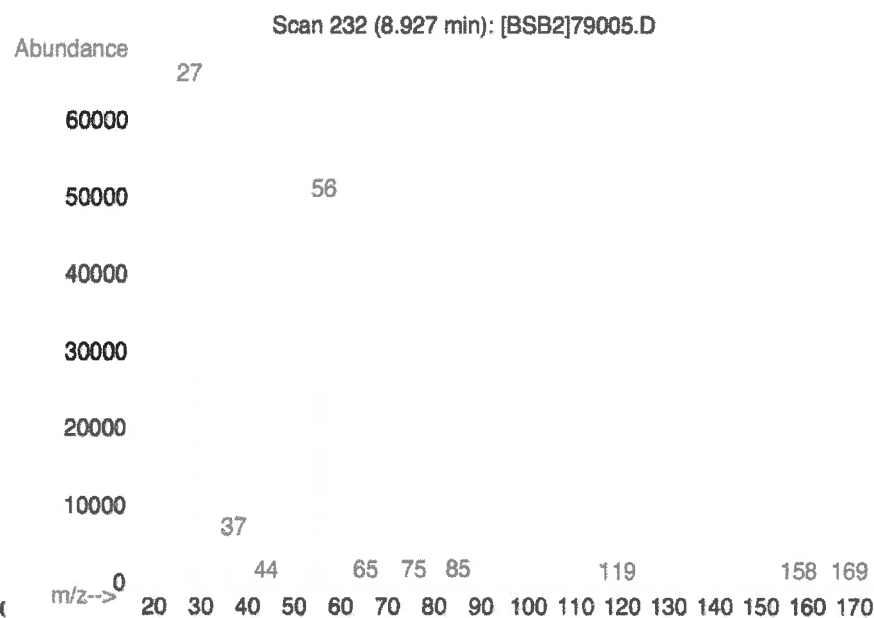
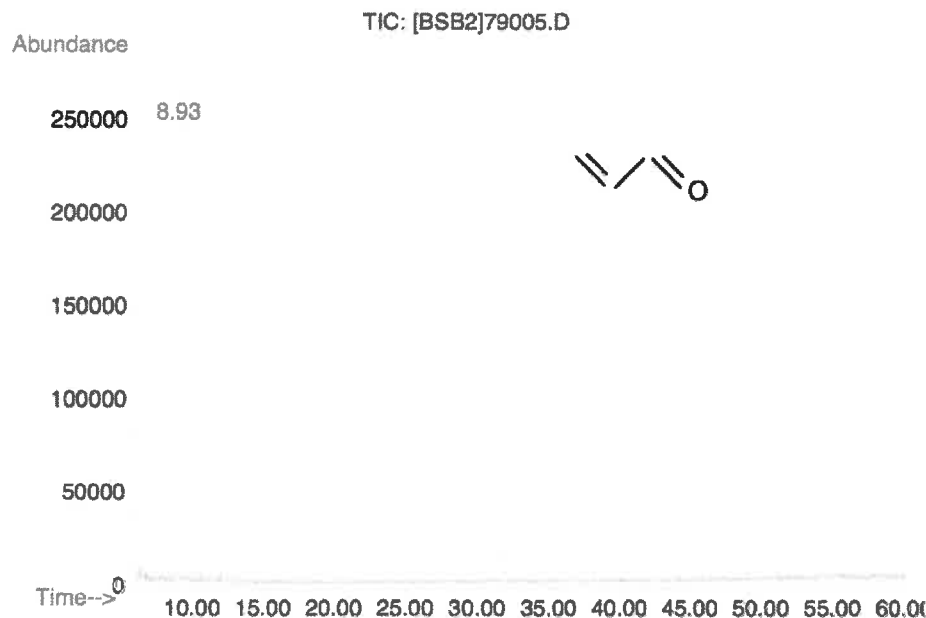
Expiration Date: **061925**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **5000**  
NIST Test ID#: **6UTB**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): **10.0**

| 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          | 0.05170          | 5004.1              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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.



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- Rev 1.0, 2/25/2025



**Certified Reference Material CRM**

see 05/21/25



**CERTIFIED WEIGHT REPORT**

Part Number: **91980**  
Lot Number: **051925**  
Description: **Acrolein**

Solvent(s):  
Water

Lot#  
041725Q

5.019

114944-114948

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 051925 |
| Formulated By: | Lawrence Barry  | DATE   |
|                |                 | 051925 |
| Reviewed By:   | Pedro L. Rentas | DATE   |

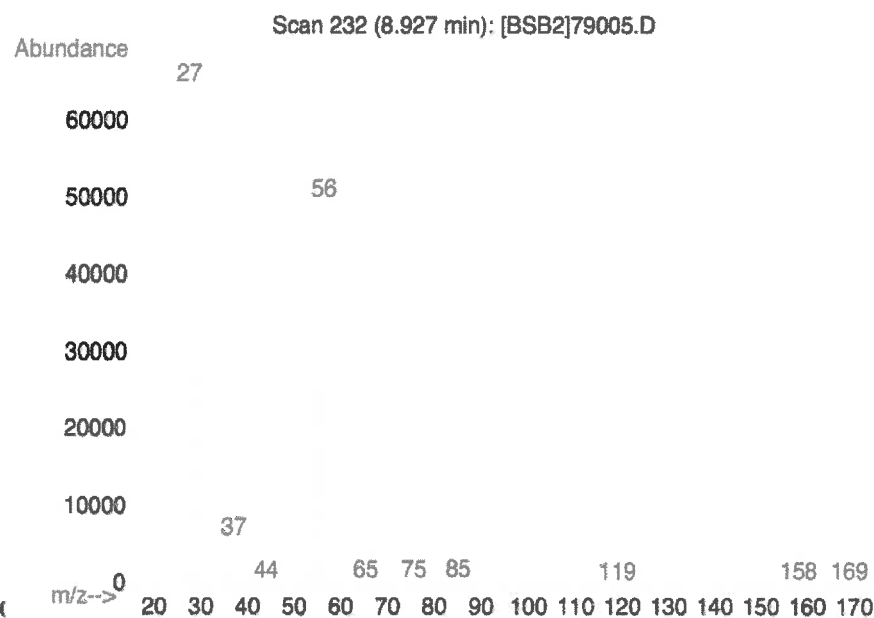
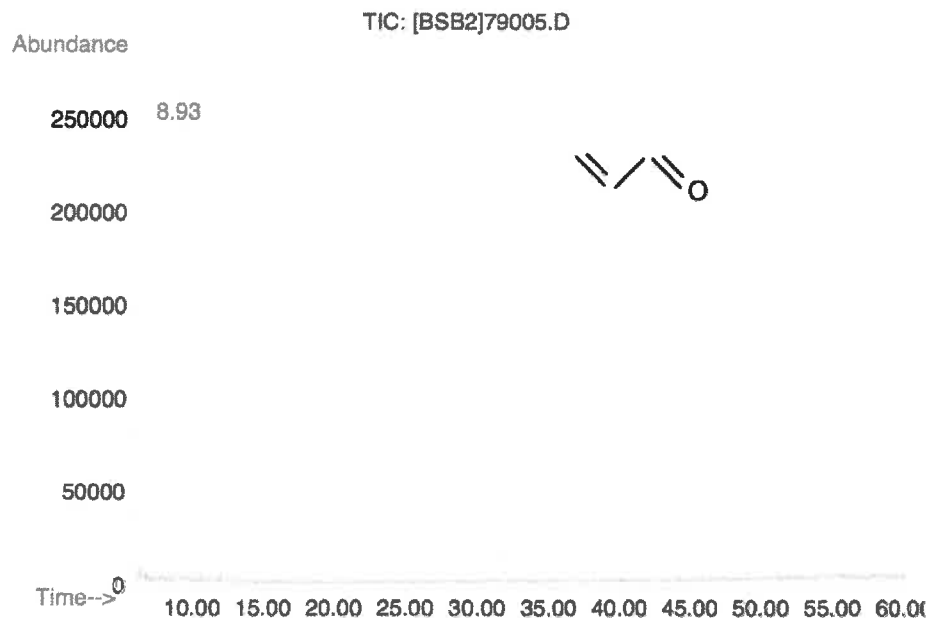
Expiration Date: **061925**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **5000**  
NIST Test ID#: **6UTB**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): **10.0**

| 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          | 0.05170          | 5004.1              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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.



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- Rev 1.0, 2/25/2025





Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 051925  
Description: Acrolein

Solvent(s): Water  
Lot#: 041725Q

5.019

114944-114948

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 051925 |
| Formulated By: | Lawrence Barry  | DATE   |
|                |                 | 051925 |
| Reviewed By:   | Pedro L. Rentas | DATE   |

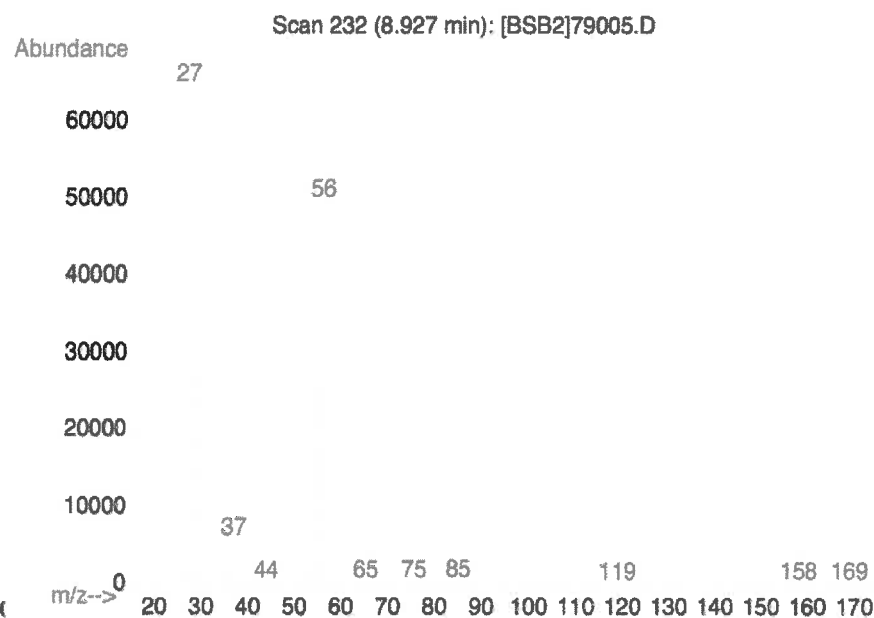
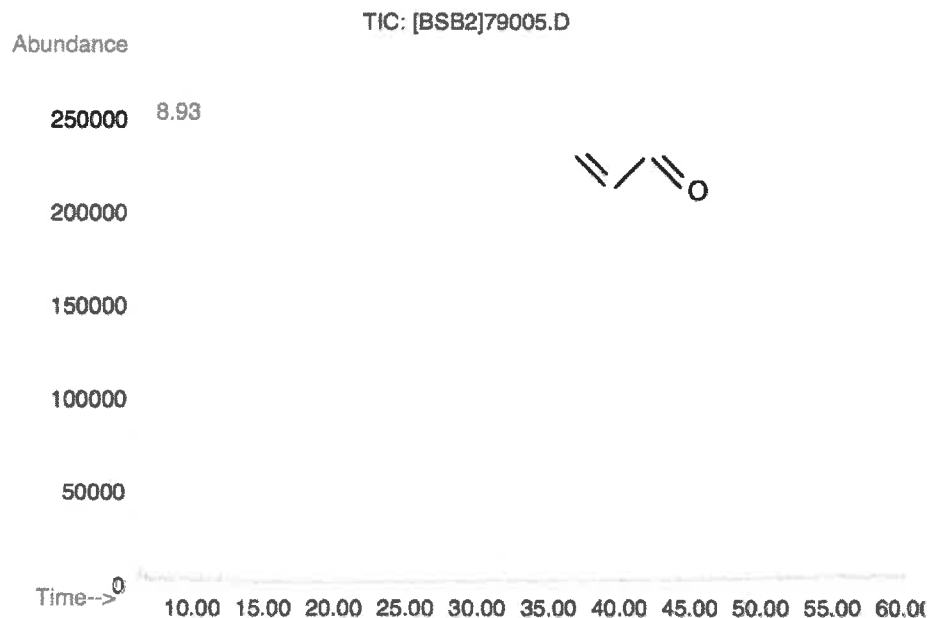
Expiration Date: 061925  
Recommended Storage: Refrigerate (4 °C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

| 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          | 0.05170          | 5004.1              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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.



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- Rev 1.0, 2/25/2025



# SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs  
ADDRESS: 412 Mt. Kenble Ave., Suite 100  
CITY: Morrisstown STATE: NJ ZIP: 07960  
ATTENTION: John Yinfante John.Yinfante@Jacobs.com  
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC Princeton  
PROJECT NO.: D3868221 LOCATION: Princeton Junction  
PROJECT MANAGER: Mary Murphy  
e-mail: Mary.Murphy@Jacobs.com  
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:   
ADDRESS:   
CITY: STATE: ZIP:   
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) RUSH 7 day TAT (5 business day) DAYS\*  
HARDCOPY (DATA PACKAGE): DAYS\*  
EDD: DAYS\*  
\*TO BE APPROVED BY CHEMTECH  
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other   
☐ EDD FORMAT

Site specific VOC's (per NJ law)

PRESERVATIVES

COMMENTS

| ALLIANCE<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |                                |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------|--------------------------------|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME |              | F/E           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |          | 9                              |
| 1.                       | MW-01-6.5-060325                 | GW               |                | X    | 6/3/25               | 1400 | 2            | X             |   |   |   |   |   |   |   |   |          | F = ascorbic acid preservative |
| 2.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 3.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 4.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 5.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 6.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 7.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 8.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 9.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |
| 10.                      |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |                                |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                          |                    |                       |                                                                                                                                                                                      |
|--------------------------|--------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER: | DATE/TIME:         | RECEIVED BY:          | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input checked="" type="checkbox"/> COOLER TEMP <u>3.4</u> °C |
| 1. <u>Don Holmes</u>     | <u>6/3/25 1600</u> | 1. <u>[Signature]</u> | Comments: <u>See work order for list of site specific VOC's</u>                                                                                                                      |
| RELINQUISHED BY SAMPLER: | DATE/TIME:         | RECEIVED BY:          | PO # <u>148064311</u>                                                                                                                                                                |
| 2. <u>[Signature]</u>    |                    | 2. <u>[Signature]</u> |                                                                                                                                                                                      |
| RELINQUISHED BY SAMPLER: | DATE/TIME:         | RECEIVED BY:          |                                                                                                                                                                                      |
| 3. <u>[Signature]</u>    | <u>6.3.2023</u>    | 3. <u>[Signature]</u> |                                                                                                                                                                                      |

### Laboratory Certification

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

## LOGIN REPORT/SAMPLE TRANSFER

|                                               |        |                                                           |                                     |
|-----------------------------------------------|--------|-----------------------------------------------------------|-------------------------------------|
| <b>Order ID :</b> Q2201                       | JACO05 | <b>Order Date :</b> 6/3/2025 4:10:00 PM                   | <b>Project Mgr :</b>                |
| <b>Client Name :</b> JACOBS Engineering Grou  |        | <b>Project Name :</b> Former Schlumberger STC             | <b>Report Type :</b> Level <b>3</b> |
| <b>Client Contact :</b> John Ynfante          |        | <b>Receive DateTime :</b> 6/3/2025 <del>12:00:00</del> AM | <b>EDD Type :</b> CH2MHILL          |
| <b>Invoice Name :</b> JACOBS Engineering Grou |        | <b>Purchase Order :</b> 17:20                             | <b>Hard Copy Date :</b>             |
| <b>Invoice Contact :</b> John Ynfante         |        |                                                           | <b>Date Signoff :</b>               |

| LAB ID   | CLIENT ID               | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP   | METHOD   | FAX DATE | DUE DATES   |
|----------|-------------------------|--------|-------------|-------------|------|--------------|----------|----------|-------------|
| Q2201-01 | MW-01-6.5-060225-060325 | Water  | 06/03/2025  | 14:00       |      | VOCMS Group3 | 8260-Low |          | 5 Bus. Days |

Relinquished By :



Date / Time : 6/4/25 1040

SAMPLES RECEIVED ON 6/3/25  
SAMPLES PLACED IN SM-REF-2

Received By :



Date / Time : 6/4/25 10:40 AM RGH 4

Storage Area : VOA Refridgerator Room