

**DATA PACKAGE  
VOLATILE ORGANICS**

**PROJECT NAME : 131 JUNIPER DRIVE**

**RTP ENVIRONMENTAL  
239 US Highway 22 East**

**Green Brook, NJ - 08812  
Phone No: 732-968-9600**

**ORDER ID : Q3556  
ATTENTION : David Gabel**



**Laboratory Certification ID # 20012**



|                                                     |     |
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## Cover Page

**Order ID :** Q3556

**Project ID :** 131 JUNIPER DRIVE

**Client :** RTP Environmental

**Lab Sample Number**

Q3556-01  
Q3556-02  
Q3556-03  
Q3556-04

**Client Sample Number**

131-IA1  
131-IA2  
131-SG-1  
131-SG-2

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 :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 12:56 pm, Nov 14, 2025*

Date: 11/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012





# SHIPPING DOCUMENTS

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|-------------------------|---------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|-------------|-------------------|----------|---------|--|--|--|--|--|
| Client Contact Information                                                                                                                                                                        |                             |                          |                         | Bottle Order ID : <b>B2510050</b>     |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                          |              | 1 of 4 COCs                      |             |                   |          |         |  |  |  |  |  |
| Client ID : <b>RTPE01</b>                                                                                                                                                                         |                             |                          |                         | Project ID : <b>131 Juniper Drive</b> |                                    |                            |                           | Sampler Name(s) :                                                      |                                   |                                                                                                                                                          |              | Analysis                         |             |                   |          |         |  |  |  |  |  |
| Customer Name : <b>RTP Environmental</b><br><br>Address : <b>239 US Highway 22 East</b><br><br>City : <b>Green Brook</b><br><br>State : <b>NJ</b><br><br>Zip Code : <b>08812</b><br><br>Country : |                             |                          |                         | Project Manager : <b>David gabel</b>  |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                          |              | Matrix                           |             |                   |          |         |  |  |  |  |  |
|                                                                                                                                                                                                   |                             |                          |                         | Phone Number : <b>732-968-9600</b>    |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
|                                                                                                                                                                                                   |                             |                          |                         | Fax Number :                          |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
|                                                                                                                                                                                                   |                             |                          |                         | Site Details:                         |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
|                                                                                                                                                                                                   |                             |                          |                         | Analysis Turnaround Time              |                                    |                            |                           | Data Package Type : <b>Regulatory</b>                                  |                                   |                                                                                                                                                          |              | Indoor Ambient Air<br>Soil Gas   |             |                   |          |         |  |  |  |  |  |
|                                                                                                                                                                                                   |                             |                          |                         | Standard : <b>10 business days</b> OR |                                    |                            |                           | EDD Type : <b>Regulatory w/ conversion</b>                             |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
|                                                                                                                                                                                                   |                             |                          |                         | Rush (Specify) <b>Days</b>            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Sample Identification                                                                                                                                                                             | Sample Date(s)              | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start)     | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab)                                      | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID                                                                                                                                             | Can ID       | Flow Controller Readout (ml/min) | Can Cert ID | TO-15             |          |         |  |  |  |  |  |
| <b>131-IA1</b>                                                                                                                                                                                    | <b>11/14/25 to 11/15/25</b> | <b>8:21</b>              | <b>8:21</b>             | <b>-30</b>                            | <b>-12</b>                         | <b>67</b>                  |                           | <b>-30</b>                                                             | <b>-12.4</b>                      | <b>10626</b>                                                                                                                                             | <b>10266</b> | <b>6 L</b>                       | <b>4.16</b> | <b>VL042942.D</b> | <b>X</b> |         |  |  |  |  |  |
| Temperature (Fahrenheit)                                                                                                                                                                          |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15)                                      |              |                                  |             |                   |          |         |  |  |  |  |  |
| Ambient                                                                                                                                                                                           |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          | Maximum |  |  |  |  |  |
| Start                                                                                                                                                                                             |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          | Minimum |  |  |  |  |  |
| Stop                                                                                                                                                                                              |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Pressure (Inches of Hg)                                                                                                                                                                           |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   | ** Submittal of this COC indicates approval of the analysis based on existing conditions.<br><br>Please follow the instructions on the back of this COC. |              |                                  |             |                   |          |         |  |  |  |  |  |
| Ambient                                                                                                                                                                                           |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          | Maximum |  |  |  |  |  |
| Start                                                                                                                                                                                             |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          | Minimum |  |  |  |  |  |
| Stop                                                                                                                                                                                              |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                 |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Suspected Contamination: High Medium Low PID Readings:                                                                                                                                            |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Sampling site (State):                                                                                                                                                                            |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Quick Connector required : <b>NO</b>                                                                                                                                                              |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |
| Canisters Shipped by: <b>Sam</b>                                                                                                                                                                  |                             |                          |                         | Date/Time: <b>11/03/25</b>            |                                    |                            |                           | Canisters Received by: <b>CW</b>                                       |                                   |                                                                                                                                                          |              | Date/Time: <b>11/3/25 8:00</b>   |             |                   |          |         |  |  |  |  |  |
| Samples Relinquished by: <b>CW</b>                                                                                                                                                                |                             |                          |                         | Date/Time: <b>11.5.25 1500</b>        |                                    |                            |                           | Received by: <b>ST</b>                                                 |                                   |                                                                                                                                                          |              | Date/Time: <b>11.5.25 1500</b>   |             |                   |          |         |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                                  |                             |                          |                         | Date/Time:                            |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                          |              | Date/Time:                       |             |                   |          |         |  |  |  |  |  |
| <b>B2510050 - 3</b>                                                                                                                                                                               |                             |                          |                         |                                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                          |              |                                  |             |                   |          |         |  |  |  |  |  |

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Q3556-TO-15

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|---------------------------------------|------------------------------------|----------------------------|---------------------------|----------------------------------------------------------------------------|-----------------------------------|--------------|---------|--------------------------------|----------------------------------|-------------|-------|----------------------|----------|------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| Client Contact Information                                                                                                                                                                                                                                                                                                        |                |                          |                         | Bottle Order ID : <b>B2510050</b>     |                                    |                            |                           | Courier :                                                                  |                                   |              |         | 4 of 4 COCs                    |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Client ID : <b>RTPE01</b>                                                                                                                                                                                                                                                                                                         |                |                          |                         | Project ID : <b>131 Juniper Drive</b> |                                    |                            |                           | Sampler Name(s) :                                                          |                                   |              |         | Analysis                       |                                  | Matrix      |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Customer Name : <b>RTP Environmental</b><br><br>Address : <b>239 US Highway 22 East</b><br><br>City : <b>Green Brook</b><br><br>State : <b>NJ</b><br><br>Zip Code : <b>08812</b><br><br>Country :                                                                                                                                 |                |                          |                         | Project Manager : <b>David gabel</b>  |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><br><b>Batch Certified</b> |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Phone Number : <b>732-968-9600</b>    |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Fax Number :                          |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Site Details:                         |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Analysis Turnaround Time              |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Standard : <b>10 business days</b> OR |                                    |                            |                           | Data Package Type :                                                        |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Rush (Specify): <b>Days</b>           |                                    |                            |                           | EDD Type :                                                                 |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Sample Identification                                                                                                                                                                                                                                                                                                             | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start)     | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab)                                          | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID | Can ID  |                                | Flow Controller Readout (ml/min) | Can Cert ID | TO-15 | Indoor/Ambient Air   | Soil Gas |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| 131-56-2                                                                                                                                                                                                                                                                                                                          | 11/5/25        | 9:06                     | 10:06                   | -27                                   | -5                                 | 70                         | 70                        | -30                                                                        | -10.4                             | 10571        | 10752   | 1.4 L                          | 25                               | VL042989.D  | X     |                      | X        |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <div style="text-align: center;">Temperature (Fahrenheit)</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              | Ambient | Maximum                        | Minimum                          | Start       |       |                      |          | Stop |  |  |  | <div style="text-align: center;">GC/MS Analyst Signature (TO-15)</div> <div style="text-align: right;"> </div>                                                                                           |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   | Ambient        | Maximum                  | Minimum                 |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                                                             |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                                                              |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| <div style="text-align: center;">Pressure (Inches of Hg)</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>  |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              | Ambient | Maximum                        | Minimum                          | Start       |       |                      |          | Stop |  |  |  | <div style="text-align: center;"> <p>** Submittal of this COC indicates approval of the analysis based on existing conditions.</p> <p>Please follow the instructions on the back of this COC.</p> </div> |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                   | Ambient        | Maximum                  | Minimum                 |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                                                             |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                                                              |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Special Instructions/QC Requirements & Comments :                                                                                                                                                                                                                                                                                 |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Suspected Contamination:                      High                      Medium                      Low                      PID Readings:                                                                                                                                                                                        |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Sampling site (State):                                                                                                                                                                                                                                                                                                            |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Quick Connector required : <b>Yes</b>                                                                                                                                                                                                                                                                                             |                |                          |                         |                                       |                                    |                            |                           |                                                                            |                                   |              |         |                                |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Canisters Shipped by: <b>Sam</b>                                                                                                                                                                                                                                                                                                  |                |                          |                         | Date/Time: <b>11/02/25</b>            |                                    |                            |                           | Canisters Received by: <b>CW</b>                                           |                                   |              |         | Date/Time: <b>11/3/25 6:00</b> |                                  |             |       | <b>B2510050 - 13</b> |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Samples Relinquished by: <b>CW</b>                                                                                                                                                                                                                                                                                                |                |                          |                         | Date/Time: <b>11.5.25 1500</b>        |                                    |                            |                           | Received by: <b>ST</b>                                                     |                                   |              |         | Date/Time: <b>11.5.25 1500</b> |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                  |                |                          |                         | Date/Time:                            |                                    |                            |                           | Received by:                                                               |                                   |              |         | Date/Time:                     |                                  |             |       |                      |          |      |  |  |  |                                                                                                                                                                                                          |  |  |  |  |  |  |  |

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
| Connecticut     | PH-0830          |
| DOD ELAP (ANAB) | L2219            |
| Maine           | 2024021          |
| Maryland        | 296              |
| New Hampshire   | 255425           |
| New Jersey      | 20012            |
| New York        | 11376            |
| Pennsylvania    | 68-00548         |
| Soil Permit     | 525-24-234-08441 |
| Texas           | TX-C25-00189     |
| Virginia        | 460312           |



## Internal Chain of Custody

**Instructions:** Use 1 form for each 20 samples of aliquot

### Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~NOTE~~

Title: Sample Custodian

Field Sample Seal No. Q3556

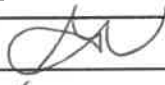
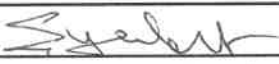
Date Broken: 11/5/2025

Military Time Seal Broken: 15:00:00

Case No.: 131 JUNIPER DRIVE

Analytical Parameter/Fraction: TO-15

| Sample No. | Aliquot/Extract No. | Sample No. | Aliquot/Extract No. |
|------------|---------------------|------------|---------------------|
| Q3556-01   | 131-IA1             |            |                     |
| Q3556-02   | 131-IA2             |            |                     |
| Q3556-03   | 131-SG-1            |            |                     |
| Q3556-04   | 131-SG-2            |            |                     |

| Date | Time | Relinquished By                                                                             | Received By                                                                                  | Purpose of Change of Custody |
|------|------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------|
| 11/6 | 1112 | Signature  | Signature  |                              |
|      |      | Printed Name <u>George N.</u>                                                               | Printed Name <u>Sensitivity Center</u>                                                       |                              |
|      |      | Signature                                                                                   | Signature                                                                                    |                              |
|      |      | Printed Name                                                                                | Printed Name                                                                                 |                              |
|      |      | Signature                                                                                   | Signature                                                                                    |                              |
|      |      | Printed Name                                                                                | Printed Name                                                                                 |                              |
|      |      | Signature                                                                                   | Signature                                                                                    |                              |
|      |      | Printed Name                                                                                | Printed Name                                                                                 |                              |
|      |      | Signature                                                                                   | Signature                                                                                    |                              |
|      |      | Printed Name                                                                                | Printed Name                                                                                 |                              |
|      |      | Signature                                                                                   | Signature                                                                                    |                              |
|      |      | Printed Name                                                                                | Printed Name                                                                                 |                              |
|      |      | Signature                                                                                   | Signature                                                                                    |                              |
|      |      | Printed Name                                                                                | Printed Name                                                                                 |                              |

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: [Signature]Supervisor Signature: [Signature]

METHOD: TO-15

Pressure Gauge ID: AZ 55971

| Date     | Sample Number | Canister # | Initial Pressure psia | Initial Pressure Hg | Final Pressure psia | Final Pressure Hg | Dilution Factor | Comment |
|----------|---------------|------------|-----------------------|---------------------|---------------------|-------------------|-----------------|---------|
| 10/18/25 | Q3320-07      | 10311      | 12.6                  | -4.3                |                     |                   |                 | cy      |
|          | Q3320-08      | 10588      | 12.0                  | -5.5                |                     |                   |                 |         |
|          | Q3320-09      | 10601      | 12.2                  | -5.1                |                     |                   |                 |         |
|          | Q3320-10      | 10604      | 12.2                  | 5.1                 |                     |                   |                 |         |
|          | Q3320-11      | 10607      | 12.2                  | 5.1                 |                     |                   |                 |         |
|          | Q3320-12      | 10333      | 12.2                  | -5.1                |                     |                   |                 |         |
|          | Q3320-13      | 10609      | 12.6                  | -4.3                |                     |                   |                 |         |
| 10/10/25 | Q3320-02      | 10113      | 1.0                   |                     | 20                  |                   | 20x             | cy      |
| 11/05/25 | Q3555-01      | 10153      | 11.8                  | -5.9                |                     |                   |                 | cy      |
|          | Q3555-02      | 10492      | 13.6                  | -2.2                |                     |                   |                 |         |
|          | Q3555-03      | 10653      | 9.4                   | -10.8               |                     |                   |                 |         |
|          | Q3555-04      | 10423      | 9.4                   | -10.8               |                     |                   |                 |         |
|          | Q3556-01      | 10266      | 8.6                   | -12.4               |                     |                   |                 |         |
|          | Q3556-02      | 10283      | 12.0                  | -5.5                |                     |                   |                 |         |
|          | Q3556-03      | 10737      | 9.6                   | -10.4               |                     |                   |                 |         |
|          | Q3556-04      | 10752      | 9.6                   | -10.4               |                     |                   |                 |         |
|          | Q3557-01      | 10296      | 12.4                  | -4.7                |                     |                   |                 |         |
|          | Q3557-02      | 10300      | 12.6                  | -4.3                |                     |                   |                 |         |
|          | Q3557-03      | 10060      | 12.2                  | -5.1                |                     |                   |                 |         |
|          | Q3557-04      | 10674      | 10.6                  | -8.4                |                     |                   |                 |         |
|          | Q3557-05      | 10428      | 10.6                  | -9.6                |                     |                   |                 |         |



401-2510

**CHEMTECH**  
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: 131-SG-2  
Client Name: RTP  
Project Name: Chedwich  
Date: 11/5/25 Time: 10:07  
Analysis: TO-15  
Comments: \_\_\_\_\_

CHEMTECH'S SAMPLE  
Date Received: \_\_\_\_\_

Storage Location: Air Lab  
Sample: Q3556-04  
Cust #: 131-SG-2

B2510050

401-2510

**CHEMTECH**  
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: 131-SG-1  
Client Name: RTP  
Project Name: Chedwich  
Date: 11/5/25 Time: 906-1006  
Analysis: \_\_\_\_\_  
Comments: \_\_\_\_\_

CHEMTECH'S SAMPLE  
Date Received: \_\_\_\_\_

Storage Location: Air Lab  
Sample: Q3556-03  
Cust #: 131-SG-1

B2510050

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10283-55

**CHEMTECH**  
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: 131-1A2  
Client Name: RIP  
Project Name: 131 Juniper Drive  
Date: 11/4/25-11/5/25 Time: 8:22  
Analysis: TO-15  
Comments: \_\_\_\_\_

**Storage Location:** Air Lab  
**Sample:** Q3556-02  
**Cust #:** 131-1A2

CHEMTECH'S SAMPLING  
Date Received: \_\_\_\_\_

225/10050

124-9920

**CHEMTECH**  
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: 131-1A1  
Client Name: RIP  
Project Name: 131 Juniper Drive  
Date: 11/4/25-11/5/25 Time: 8:21  
Analysis: TO-15  
Comments: \_\_\_\_\_

**Storage Location:** Air Lab  
**Sample:** Q3556-01  
**Cust #:** 131-1A1

CHEMTECH'S SAMPLING  
Date Received: \_\_\_\_\_

225/10050

## **CASE NARRATIVE**

### **RTP Environmental**

**Project Name: 131 JUNIPER DRIVE**

**Project # N/A**

**Order ID # Q3556**

**Test Name: TO-15**

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

4 Air samples were received on 11/05/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

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

The analysis performed on instrument MSVOA\_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

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

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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.

Due to potential high concentration of target analytes, Samples 131-SG-1, 131-SG-2 was initially diluted.

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

The Sample #131-IA2, 131-SG-1, 131-SG-2 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.



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

The not QT review data is reported in the Miscellaneous.

**F. Manual Integration Comments:**

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

---

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

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 12:57 pm, Nov 14, 2025*

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>U</b>  | 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.                                                                                                                                                                                                                                                                                      |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>J</b>  | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(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.</li> </ul> |
| <b>B</b>  | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>E</b>  | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>D</b>  | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P</b>  | 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”.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N</b>  | 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.                                                                                                                                                                                                                                                                       |
| <b>A</b>  | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3556

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: 11/13/2025

## LAB CHRONICLE

|                 |                   |                   |                      |
|-----------------|-------------------|-------------------|----------------------|
| <b>OrderID:</b> | Q3556             | <b>OrderDate:</b> | 11/5/2025 3:15:00 PM |
| <b>Client:</b>  | RTP Environmental | <b>Project:</b>   | 131 JUNIPER DRIVE    |
| <b>Contact:</b> | David Gabel       | <b>Location:</b>  | Air Lab              |

| LabID           | ClientID        | Matrix     | Test  | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|-----------------|------------|-------|--------|-----------------|-----------|-----------|-----------------|
| <b>Q3556-01</b> | <b>131-IA1</b>  | <b>Air</b> | TO-15 | TO-15  | <b>11/05/25</b> |           | 11/06/25  | <b>11/05/25</b> |
| <b>Q3556-02</b> | <b>131-IA2</b>  | <b>Air</b> | TO-15 | TO-15  | <b>11/05/25</b> |           | 11/06/25  | <b>11/05/25</b> |
| <b>Q3556-03</b> | <b>131-SG-1</b> | <b>Air</b> | TO-15 | TO-15  | <b>11/05/25</b> |           | 11/06/25  | <b>11/05/25</b> |
| <b>Q3556-04</b> | <b>131-SG-2</b> | <b>Air</b> | TO-15 | TO-15  | <b>11/05/25</b> |           | 11/06/25  | <b>11/05/25</b> |



### Hit Summary Sheet SW-846

**SDG No.:** Q3556  
**Client:** RTP Environmental

| Sample ID                   | Client ID       | Matrix | Parameter               | Concentration | C | MDL  | RDL  | Units |
|-----------------------------|-----------------|--------|-------------------------|---------------|---|------|------|-------|
| <b>Client ID:</b>           | <b>131-IA1</b>  |        |                         |               |   |      |      |       |
| Q3556-01                    | 131-IA1         | Air    | Dichlorodifluoromethane | 2.23          | J | 0.54 | 2.47 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Chloromethane           | 1.20          |   | 0.21 | 1.03 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Trichlorofluoromethane  | 1.40          | J | 0.96 | 2.81 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Acetone                 | 7.60          |   | 0.43 | 1.19 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Methylene Chloride      | 4.17          |   | 0.80 | 1.74 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | 2-Butanone              | 0.91          | J | 0.18 | 1.47 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Carbon Tetrachloride    | 0.57          |   | 0.19 | 0.19 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Benzene                 | 0.45          | J | 0.26 | 1.60 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Toluene                 | 0.83          | J | 0.60 | 1.88 | ug/m3 |
| Q3556-01                    | 131-IA1         | Air    | Hexane                  | 5.29          |   | 0.56 | 1.76 | ug/m3 |
| <b>Total Voc :</b>          |                 |        |                         | 24.6          |   |      |      |       |
| <b>Total Concentration:</b> |                 |        |                         | 24.6          |   |      |      |       |
| <b>Client ID:</b>           | <b>131-IA2</b>  |        |                         |               |   |      |      |       |
| Q3556-02                    | 131-IA2         | Air    | Dichlorodifluoromethane | 2.42          | J | 0.54 | 2.47 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Chloromethane           | 0.81          | J | 0.21 | 1.03 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Trichlorofluoromethane  | 1.46          | J | 0.96 | 2.81 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Acetone                 | 6.65          |   | 0.43 | 1.19 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Methylene Chloride      | 1.98          |   | 0.80 | 1.74 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | 2-Butanone              | 0.68          | J | 0.18 | 1.47 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Carbon Tetrachloride    | 0.57          |   | 0.19 | 0.19 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Benzene                 | 0.38          | J | 0.26 | 1.60 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Toluene                 | 0.90          | J | 0.60 | 1.88 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Tetrachloroethene       | 0.27          |   | 0.14 | 0.20 | ug/m3 |
| Q3556-02                    | 131-IA2         | Air    | Hexane                  | 3.52          |   | 0.56 | 1.76 | ug/m3 |
| <b>Total Voc :</b>          |                 |        |                         | 19.6          |   |      |      |       |
| <b>Total Concentration:</b> |                 |        |                         | 19.6          |   |      |      |       |
| <b>Client ID:</b>           | <b>131-SG-1</b> |        |                         |               |   |      |      |       |
| Q3556-03                    | 131-SG-1        | Air    | Dichlorodifluoromethane | 2.42          | J | 1.09 | 4.94 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Chloromethane           | 0.45          | J | 0.41 | 2.07 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Acetone                 | 29.5          |   | 0.86 | 2.38 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Methylene Chloride      | 6.95          |   | 1.60 | 3.47 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | 2-Butanone              | 5.01          |   | 0.32 | 2.95 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Carbon Tetrachloride    | 0.44          |   | 0.31 | 0.38 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Chloroform              | 11.2          |   | 0.93 | 4.88 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Tetrachloroethene       | 6.17          |   | 0.20 | 0.41 | ug/m3 |
| Q3556-03                    | 131-SG-1        | Air    | Hexane                  | 3.07          | J | 1.13 | 3.52 | ug/m3 |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q3556

**Client:** RTP Environmental

| Sample ID            | Client ID | Matrix | Parameter               | Concentration | C | MDL  | RDL  | Units |
|----------------------|-----------|--------|-------------------------|---------------|---|------|------|-------|
| Total Voc :          |           |        |                         | 65.2          |   |      |      |       |
| Total Concentration: |           |        |                         | 65.2          |   |      |      |       |
| Client ID:           | 131-SG-2  |        |                         |               |   |      |      |       |
| Q3556-04             | 131-SG-2  | Air    | Dichlorodifluoromethane | 2.32          | J | 1.09 | 4.94 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Acetone                 | 30.2          |   | 0.86 | 2.38 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Methylene Chloride      | 4.52          |   | 1.60 | 3.47 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | 2-Butanone              | 4.72          |   | 0.32 | 2.95 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Carbon Tetrachloride    | 0.38          |   | 0.31 | 0.38 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Chloroform              | 6.84          |   | 0.93 | 4.88 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Benzene                 | 9.90          |   | 0.51 | 3.19 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | 4-Methyl-2-Pentanone    | 1.27          | J | 0.78 | 4.10 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Tetrachloroethene       | 1.42          |   | 0.20 | 0.41 | ug/m3 |
| Q3556-04             | 131-SG-2  | Air    | Hexane                  | 2.47          | J | 1.13 | 3.52 | ug/m3 |
| Total Voc :          |           |        |                         | 64.0          |   |      |      |       |
| Total Concentration: |           |        |                         | 64.0          |   |      |      |       |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-IA1

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-01

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.45                   | J         | 2.23                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.58                   |           | 1.2                       |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.03                   | U         | 0.08                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.08                   | U         | 0.31                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.15                   | U         | 0.4                       |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.08                   | U         | 0.24                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.25                   | J         | 1.4                       |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.15                   | U         | 1.05                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.14                   | U         | 1.07                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.16                   | U         | 0.49                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.17                   | U         | 0.7                       |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.15                   | U         | 0.59                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 3.2                    |           | 7.6                       |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.08                   | U         | 0.25                      |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.23                   | U         | 0.83                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 1.2                    |           | 4.17                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.12                   | U         | 0.48                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.13                   | U         | 0.53                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 0.22                   | U         | 0.76                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.31                   | J         | 0.91                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.09                   |           | 0.57                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.1                    | U         | 0.4                       |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.1                    | U         | 0.49                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.02                   | U         | 0.11                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.14                   | U         | 0.65                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.14                   | J         | 0.45                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.09                   | U         | 0.36                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.02                   | U         | 0.11                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 0.13                   | U         | 0.6                       |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.06                   | U         | 0.4                       |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.1                    | U         | 0.41                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.22                   | J         | 0.83                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.15                   | U         | 0.68                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.11                   | U         | 0.5                       |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.08                   | U         | 0.44                      |              |            |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-IA1

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-01

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.09 | U | 0.77 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.09 | U | 0.69 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.02 | U | 0.14 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.08 | U | 0.37 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.19 | U | 0.83 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.41 | U | 1.78 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.21 | U | 0.91 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.16 | U | 0.68 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.05 | U | 0.52 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.02 | U | 0.14 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.17 | U | 0.88 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.18 | U | 0.88 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.18 | U | 0.88 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.05 | U | 0.3  |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.13 | U | 0.78 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.13 | U | 0.78 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.21 | U | 1.56 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.13 | U | 1.39 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.01 | U | 0.05 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.05 | U | 0.11 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.21 | U | 1.03 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 1.5  |   | 5.29 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.11 | U | 0.34 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.22 | U | 0.79 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.14 | U | 0.57 |  |  |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-IA2

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-02

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.49                   | J         | 2.42                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.39                   | J         | 0.81                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.03                   | U         | 0.08                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.08                   | U         | 0.31                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.15                   | U         | 0.4                       |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.08                   | U         | 0.24                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.26                   | J         | 1.46                      |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.15                   | U         | 1.05                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.14                   | U         | 1.07                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.16                   | U         | 0.49                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.17                   | U         | 0.7                       |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.15                   | U         | 0.59                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 2.8                    |           | 6.65                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.08                   | U         | 0.25                      |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.23                   | U         | 0.83                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 0.57                   |           | 1.98                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.12                   | U         | 0.48                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.13                   | U         | 0.53                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 0.22                   | U         | 0.76                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 0.23                   | J         | 0.68                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.09                   |           | 0.57                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.1                    | U         | 0.4                       |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.1                    | U         | 0.49                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.02                   | U         | 0.11                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.14                   | U         | 0.65                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.12                   | J         | 0.38                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.09                   | U         | 0.36                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.02                   | U         | 0.11                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 0.13                   | U         | 0.6                       |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.06                   | U         | 0.4                       |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.1                    | U         | 0.41                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.24                   | J         | 0.9                       |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.15                   | U         | 0.68                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.11                   | U         | 0.5                       |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.08                   | U         | 0.44                      |              |            |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-IA2

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-02

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.09 | U | 0.77 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.09 | U | 0.69 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.04 |   | 0.27 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.08 | U | 0.37 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.19 | U | 0.83 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.41 | U | 1.78 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.21 | U | 0.91 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.16 | U | 0.68 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.05 | U | 0.52 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.02 | U | 0.14 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.17 | U | 0.88 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.18 | U | 0.88 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.18 | U | 0.88 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.05 | U | 0.3  |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.13 | U | 0.78 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.13 | U | 0.78 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.21 | U | 1.56 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.13 | U | 1.39 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.01 | U | 0.05 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.05 | U | 0.11 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.21 | U | 1.03 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 1    |   | 3.52 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.11 | U | 0.34 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.22 | U | 0.79 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.14 | U | 0.57 |  |  |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-SG-1

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-03

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.49                   | J         | 2.42                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.22                   | J         | 0.45                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.05                   | U         | 0.13                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.15                   | U         | 0.58                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.3                    | U         | 0.79                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.16                   | U         | 0.47                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.34                   | U         | 1.91                      |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.3                    | U         | 2.1                       |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.28                   | U         | 2.15                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.32                   | U         | 0.97                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.34                   | U         | 1.39                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.3                    | U         | 1.19                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 12.4                   |           | 29.5                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.16                   | U         | 0.5                       |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.46                   | U         | 1.66                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 2                      |           | 6.95                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.24                   | U         | 0.95                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.26                   | U         | 1.05                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 0.44                   | U         | 1.51                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 1.7                    |           | 5.01                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.07                   |           | 0.44                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.2                    | U         | 0.79                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 2.3                    |           | 11.2                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.03                   | U         | 0.16                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.28                   | U         | 1.31                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.16                   | U         | 0.51                      |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.19                   | U         | 0.77                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.05                   | U         | 0.27                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 0.26                   | U         | 1.2                       |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.13                   | U         | 0.87                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.19                   | U         | 0.78                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.32                   | U         | 1.21                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.3                    | U         | 1.36                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.22                   | U         | 1                         |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.16                   | U         | 0.87                      |              |            |



**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-SG-1

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-03

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.17 | U | 1.45 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.17 | U | 1.31 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.91 |   | 6.17 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.15 | U | 0.69 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.38 | U | 1.65 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.82 | U | 3.56 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.42 | U | 1.82 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.32 | U | 1.36 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.1  | U | 1.03 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.04 | U | 0.27 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.34 | U | 1.76 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.36 | U | 1.77 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.36 | U | 1.77 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.11 | U | 0.66 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.26 | U | 1.56 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.26 | U | 1.56 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.42 | U | 3.12 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.26 | U | 2.77 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.03 | U | 0.16 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.1  | U | 0.22 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.42 | U | 2.06 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 0.87 | J | 3.07 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.22 | U | 0.69 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.44 | U | 1.59 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.28 | U | 1.15 |  |  |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-SG-2

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-04

**Target Analyts :** Air Results

| Chemical                       | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Dichlorodifluoromethane        | 75-71-8    | 120.9            | 0.47                   | J         | 2.32                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.2                    | U         | 0.41                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.05                   | U         | 0.13                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.15                   | U         | 0.58                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.3                    | U         | 0.79                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.16                   | U         | 0.47                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.34                   | U         | 1.91                      |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.3                    | U         | 2.1                       |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.28                   | U         | 2.15                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.32                   | U         | 0.97                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.34                   | U         | 1.39                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.3                    | U         | 1.19                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 12.7                   |           | 30.2                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.16                   | U         | 0.5                       |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.46                   | U         | 1.66                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 1.3                    |           | 4.52                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.24                   | U         | 0.95                      |              |            |
| 1,1-Dichloroethane             | 75-34-3    | 98.96            | 0.26                   | U         | 1.05                      |              |            |
| Cyclohexane                    | 110-82-7   | 84.16            | 0.44                   | U         | 1.51                      |              |            |
| 2-Butanone                     | 78-93-3    | 72.11            | 1.6                    |           | 4.72                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.06                   |           | 0.38                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.2                    | U         | 0.79                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 1.4                    |           | 6.84                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.03                   | U         | 0.16                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.28                   | U         | 1.31                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 3.1                    |           | 9.9                       |              |            |
| 1,2-Dichloroethane             | 107-06-2   | 98.96            | 0.19                   | U         | 0.77                      |              |            |
| Trichloroethene                | 79-01-6    | 131.4            | 0.05                   | U         | 0.27                      |              |            |
| 1,2-Dichloropropane            | 78-87-5    | 113              | 0.26                   | U         | 1.2                       |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.13                   | U         | 0.87                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.31                   | J         | 1.27                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.32                   | U         | 1.21                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.3                    | U         | 1.36                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.22                   | U         | 1                         |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.16                   | U         | 0.87                      |              |            |

**Project :** 131 JUNIPER DRIVE

**Sampling Date :** 11/05/25

**Field Id Number :** 131-SG-2

**Analysis Date :** 11/06/25

**Laboratory Id Number :** Q3556-04

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.17 | U | 1.45 |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.17 | U | 1.31 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.21 |   | 1.42 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.15 | U | 0.69 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.38 | U | 1.65 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.82 | U | 3.56 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.42 | U | 1.82 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.32 | U | 1.36 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.1  | U | 1.03 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.04 | U | 0.27 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.34 | U | 1.76 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.36 | U | 1.77 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.36 | U | 1.77 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.11 | U | 0.66 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.26 | U | 1.56 |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.26 | U | 1.56 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.42 | U | 3.12 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.26 | U | 2.77 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.03 | U | 0.16 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.1  | U | 0.22 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.42 | U | 2.06 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 0.7  | J | 2.47 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.22 | U | 0.69 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.44 | U | 1.59 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.28 | U | 1.15 |  |  |

| Method | Matrix | Parameter                      | Instrument ID | Column ID | MDL (ppbv) | RL (ppbv) | MB Data | MB Datafile | StdevVal    |
|--------|--------|--------------------------------|---------------|-----------|------------|-----------|---------|-------------|-------------|
| TO-15  | Air    | 1,1,1,2-Tetrachloroethane      | MSVOA_L       | RTX-1     | 0.089      | 0.50      | 0       |             | 0.028115408 |
| TO-15  | Air    | 1,1,1-Trichloroethane          | MSVOA_L       | RTX-1     | 0.016      | 0.030     | 0       |             | 0.005089672 |
| TO-15  | Air    | 1,1,2,2-Tetrachloroethane      | MSVOA_L       | RTX-1     | 0.018      | 0.030     | 0       |             | 0.005472877 |
| TO-15  | Air    | 1,1,2-Trichloroethane          | MSVOA_L       | RTX-1     | 0.081      | 0.50      | 0       |             | 0.02572751  |
| TO-15  | Air    | 1,1,2-Trichlorotrifluoroethane | MSVOA_L       | RTX-1     | 0.14       | 0.50      | 0       |             | 0.042983939 |
| TO-15  | Air    | 1,1-Dichloroethane             | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.040178175 |
| TO-15  | Air    | 1,1-Dichloroethene             | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.047056197 |
| TO-15  | Air    | 1,2,4-Trichlorobenzene         | MSVOA_L       | RTX-1     | 0.21       | 0.50      | 0       |             | 0.064291005 |
| TO-15  | Air    | 1,2,4-Trimethylbenzene         | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.054467115 |
| TO-15  | Air    | 1,2-Dibromoethane              | MSVOA_L       | RTX-1     | 0.085      | 0.10      | 0       |             | 0.026726124 |
| TO-15  | Air    | 1,2-Dichlorobenzene            | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.040999419 |
| TO-15  | Air    | 1,2-Dichloroethane             | MSVOA_L       | RTX-1     | 0.093      | 0.50      | 0       |             | 0.029277002 |
| TO-15  | Air    | 1,2-Dichloropropane            | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.039880775 |
| TO-15  | Air    | 1,3,5-Trimethylbenzene         | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.054598099 |
| TO-15  | Air    | 1,3-Butadiene                  | MSVOA_L       | RTX-1     | 0.051      | 0.50      | 0       |             | 0.016035675 |
| TO-15  | Air    | 1,3-Dichlorobenzene            | MSVOA_L       | RTX-1     | 0.054      | 0.50      | 0       |             | 0.017043362 |
| TO-15  | Air    | 1,4-Dichlorobenzene            | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.039460649 |
| TO-15  | Air    | 1,4-Dioxane                    | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.067330033 |
| TO-15  | Air    | 2,2,4-Trimethylpentane         | MSVOA_L       | RTX-1     | 0.14       | 0.50      | 0       |             | 0.044131837 |
| TO-15  | Air    | 2-Butanone                     | MSVOA_L       | RTX-1     | 0.056      | 0.50      | 0       |             | 0.017728105 |
| TO-15  | Air    | 2-Chlorotoluene                | MSVOA_L       | RTX-1     | 0.17       | 0.50      | 0       |             | 0.052599113 |
| TO-15  | Air    | 2-Hexanone                     | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.033523268 |
| TO-15  | Air    | 4-Ethyltoluene                 | MSVOA_L       | RTX-1     | 0.21       | 0.50      | 0       |             | 0.066332496 |
| TO-15  | Air    | 4-Methyl-2-Pentanone           | MSVOA_L       | RTX-1     | 0.097      | 0.50      | 0       |             | 0.030783422 |
| TO-15  | Air    | Acetone                        | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.055592052 |
| TO-15  | Air    | Allyl Chloride                 | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.033380918 |
| TO-15  | Air    | Benzene                        | MSVOA_L       | RTX-1     | 0.079      | 0.50      | 0       |             | 0.025071327 |
| TO-15  | Air    | Benzyl Chloride                | MSVOA_L       | RTX-1     | 0.089      | 0.50      | 0       |             | 0.028284271 |
| TO-15  | Air    | Bromodichloromethane           | MSVOA_L       | RTX-1     | 0.063      | 0.50      | 0       |             | 0.019880596 |
| TO-15  | Air    | Bromoethene                    | MSVOA_L       | RTX-1     | 0.2        | 0.50      | 0       |             | 0.062678317 |
| TO-15  | Air    | Bromoform                      | MSVOA_L       | RTX-1     | 0.048      | 0.50      | 0       |             | 0.015118579 |
| TO-15  | Air    | Bromomethane                   | MSVOA_L       | RTX-1     | 0.077      | 0.50      | 0       |             | 0.024494897 |
| TO-15  | Air    | Carbon Disulfide               | MSVOA_L       | RTX-1     | 0.08       | 0.50      | 0       |             | 0.02544836  |
| TO-15  | Air    | Carbon Tetrachloride           | MSVOA_L       | RTX-1     | 0.025      | 0.030     | 0       |             | 0.007690439 |
| TO-15  | Air    | Chlorobenzene                  | MSVOA_L       | RTX-1     | 0.077      | 0.50      | 0       |             | 0.024397502 |
| TO-15  | Air    | Chlorodifluoromethane          | MSVOA_L       | RTX-1     | 0.12       | 0.50      | 0       |             | 0.037859389 |
| TO-15  | Air    | Chloroethane                   | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.045250625 |
| TO-15  | Air    | Chloroform                     | MSVOA_L       | RTX-1     | 0.096      | 0.50      | 0       |             | 0.030394235 |
| TO-15  | Air    | Chloromethane                  | MSVOA_L       | RTX-1     | 0.098      | 0.50      | 0       |             | 0.03101459  |
| TO-15  | Air    | cis-1,2-Dichloroethene         | MSVOA_L       | RTX-1     | 0.099      | 0.50      | 0       |             | 0.031471832 |
| TO-15  | Air    | cis-1,3-Dichloropropene        | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.032071349 |
| TO-15  | Air    | Cyclohexane                    | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.06972736  |
| TO-15  | Air    | Dibromochloromethane           | MSVOA_L       | RTX-1     | 0.085      | 0.50      | 0       |             | 0.026726124 |
| TO-15  | Air    | Dichlorodifluoromethane        | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.033380918 |
| TO-15  | Air    | Dichlorotetrafluoroethane      | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.045460606 |
| TO-15  | Air    | Ethanol                        | MSVOA_L       | RTX-1     | 0.32       | 0.50      | 0       |             | 0.098848128 |
| TO-15  | Air    | Ethyl Acetate                  | MSVOA_L       | RTX-1     | 0.12       | 0.50      | 0       |             | 0.036384193 |
| TO-15  | Air    | Ethyl Benzene                  | MSVOA_L       | RTX-1     | 0.19       | 0.50      | 0       |             | 0.058554004 |
| TO-15  | Air    | Heptane                        | MSVOA_L       | RTX-1     | 0.17       | 0.50      | 0       |             | 0.051130086 |
| TO-15  | Air    | Hexachloro-1,3-Butadiene       | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.038297084 |
| TO-15  | Air    | Hexane                         | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.04894117  |
| TO-15  | Air    | Isopropyl Alcohol              | MSVOA_L       | RTX-1     | 0.23       | 0.50      | 0       |             | 0.070676998 |
| TO-15  | Air    | Isopropylbenzene               | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.048205908 |
| TO-15  | Air    | m/p-Xylene                     | MSVOA_L       | RTX-1     | 0.41       | 1.00      | 0       |             | 0.130091543 |
| TO-15  | Air    | Methyl Methacrylate            | MSVOA_L       | RTX-1     | 0.14       | 0.50      | 0       |             | 0.044131837 |
| TO-15  | Air    | Methyl tert-Butyl Ether        | MSVOA_L       | RTX-1     | 0.23       | 0.50      | 0       |             | 0.07296444  |
| TO-15  | Air    | Methylene Chloride             | MSVOA_L       | RTX-1     | 0.23       | 0.50      | 0       |             | 0.07204496  |
| TO-15  | Air    | Naphthalene                    | MSVOA_L       | RTX-1     | 0.013      | 0.10      | 0       |             | 0.004076647 |
| TO-15  | Air    | Naphthalene,2-methyl-          | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.069213266 |
| TO-15  | Air    | n-Butylbenzene                 | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.055805786 |
| TO-15  | Air    | n-propylbenzene                | MSVOA_L       | RTX-1     | 0.2        | 0.50      | 0       |             | 0.06164414  |
| TO-15  | Air    | o-Xylene                       | MSVOA_L       | RTX-1     | 0.21       | 0.50      | 0       |             | 0.06491753  |
| TO-15  | Air    | p-Isopropyltoluene             | MSVOA_L       | RTX-1     | 0.19       | 0.50      | 0       |             | 0.059561893 |
| TO-15  | Air    | Propene                        | MSVOA_L       | RTX-1     | 0.077      | 0.50      | 0       |             | 0.024397502 |
| TO-15  | Air    | sec-Butylbenzene               | MSVOA_L       | RTX-1     | 0.2        | 0.50      | 0       |             | 0.061913919 |
| TO-15  | Air    | Styrene                        | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.05        |
| TO-15  | Air    | t-1,3-Dichloropropene          | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.046496288 |
| TO-15  | Air    | tert-Butyl alcohol             | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.048892496 |
| TO-15  | Air    | tert-Butylbenzene              | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.067928534 |
| TO-15  | Air    | Tetrachloroethene              | MSVOA_L       | RTX-1     | 0.015      | 0.030     | 0       |             | 0.004725816 |
| TO-15  | Air    | Tetrahydrofuran                | MSVOA_L       | RTX-1     | 0.08       | 0.50      | 0       |             | 0.025166115 |
| TO-15  | Air    | Toluene                        | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.050142654 |
| TO-15  | Air    | trans-1,2-Dichloroethene       | MSVOA_L       | RTX-1     | 0.12       | 0.50      | 0       |             | 0.036968455 |
| TO-15  | Air    | Trichloroethene                | MSVOA_L       | RTX-1     | 0.024      | 0.030     | 0       |             | 0.007587584 |
| TO-15  | Air    | Trichlorofluoromethane         | MSVOA_L       | RTX-1     | 0.17       | 0.50      | 0       |             | 0.053452248 |
| TO-15  | Air    | Vinyl Acetate                  | MSVOA_L       | RTX-1     | 0.26       | 0.50      | 0       |             | 0.079671946 |
| TO-15  | Air    | Vinyl Chloride                 | MSVOA_L       | RTX-1     | 0.025      | 0.030     | 0       |             | 0.007955232 |

| Students | Spike_Amt_A | Datafile1  | Concentration1 | Adate1            | Datafile2  | Concentration2 | Adate2            |
|----------|-------------|------------|----------------|-------------------|------------|----------------|-------------------|
| Value    | dded        |            |                |                   |            |                |                   |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.037          | 01102025T00:17:00 | VL041884.D | 0.04           | 01102025T00:47:00 |
| 3.143    | 0.03        | VL041883.D | 0.045          | 01102025T00:17:00 | VL041884.D | 0.04           | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.54           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.5            | 01092025T21:16:00 | VL041878.D | 0.53           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.52           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.52           | 01092025T21:16:00 | VL041878.D | 0.54           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.49           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.52           | 01092025T21:16:00 | VL041878.D | 0.54           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.38           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.6            | 01092025T21:16:00 | VL041878.D | 0.62           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.31           | 01092025T21:16:00 | VL041878.D | 0.29           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.53           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.36           | 01092025T21:16:00 | VL041878.D | 0.35           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.036          | 01102025T00:17:00 | VL041884.D | 0.038          | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.5            | 01092025T21:16:00 | VL041878.D | 0.48           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.57           | 01092025T21:16:00 | VL041878.D | 0.59           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.51           | 01092025T21:16:00 | VL041878.D | 0.5            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.54           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.4            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.39           | 01092025T21:16:00 | VL041878.D | 0.4            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL042501.D | 0.885          | 05062025T17:36:00 | VL042502.D | 0.76           | 05062025T18:07:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.43           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.43           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.5            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.59           | 01092025T21:16:00 | VL041878.D | 0.6            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.91           | 01092025T21:16:00 | VL041878.D | 0.91           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.41           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.4            | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.68           | 01092025T21:16:00 | VL041878.D | 0.61           | 01092025T21:46:00 |
| 3.143    | 0.04        | VL042504.D | 0.035          | 05062025T19:10:00 | VL042505.D | 0.04           | 05062025T19:42:00 |
| 3.143    | 0.4         | VL041877.D | 0.34           | 01092025T21:16:00 | VL041878.D | 0.34           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.42           | 01092025T21:16:00 | VL041878.D | 0.4            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.36           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.5            | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.037          | 01102025T00:17:00 | VL041884.D | 0.04           | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.047          | 01102025T00:17:00 | VL041884.D | 0.047          | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.43           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL042498.D | 0.018          | 05062025T16:01:00 | VL042500.D | 0.032          | 05062025T17:04:00 |

| Datafile3  | Concentration3 | Adate3            | Datafile4  | Concentration4 | Adate4            | Datafile5  | Concentration5 |
|------------|----------------|-------------------|------------|----------------|-------------------|------------|----------------|
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.4            |
| VL041885.D | 0.038          | 01102025T01:18:00 | VL041913.D | 0.033          | 01152025T02:53:00 | VL041914.D | 0.037          |
| VL041885.D | 0.044          | 01102025T01:18:00 | VL041913.D | 0.033          | 01152025T02:53:00 | VL041914.D | 0.032          |
| VL041879.D | 0.48           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.55           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.57           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.48           |
| VL041879.D | 0.58           | 01092025T22:17:00 | VL041909.D | 0.49           | 01152025T00:52:00 | VL041910.D | 0.49           |
| VL041879.D | 0.48           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.39           |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.43           |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.43           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.43           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.51           |
| VL041879.D | 0.48           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.44           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.43           | 01152025T00:52:00 | VL041910.D | 0.41           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.39           |
| VL041879.D | 0.49           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.44           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.39           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.33           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.39           | 01152025T00:52:00 | VL041910.D | 0.37           |
| VL041879.D | 0.68           | 01092025T22:17:00 | VL041909.D | 0.53           | 01152025T00:52:00 | VL041910.D | 0.53           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.41           |
| VL041879.D | 0.28           | 01092025T22:17:00 | VL041909.D | 0.26           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.4            | 01152025T00:52:00 | VL041910.D | 0.4            |
| VL041879.D | 0.55           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.52           |
| VL041879.D | 0.37           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.41           | 01152025T00:52:00 | VL041910.D | 0.4            |
| VL041885.D | 0.048          | 01102025T01:18:00 | VL041913.D | 0.026          | 01152025T02:53:00 | VL041914.D | 0.033          |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.52           | 01152025T00:52:00 | VL041910.D | 0.45           |
| VL041879.D | 0.49           | 01092025T22:17:00 | VL041909.D | 0.43           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.38           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.35           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.41           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.56           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.56           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL042503.D | 0.611          | 05062025T18:39:00 | VL042518.D | 0.831          | 05072025T15:02:00 | VL042519.D | 0.842          |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.41           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.37           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.43           |
| VL041879.D | 0.49           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.63           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.92           | 01092025T22:17:00 | VL041909.D | 0.72           | 01152025T00:52:00 | VL041910.D | 0.69           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.42           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.52           |
| VL041879.D | 0.63           | 01092025T22:17:00 | VL041909.D | 0.54           | 01152025T00:52:00 | VL041910.D | 0.57           |
| VL042506.D | 0.04           | 05062025T20:13:00 | VL042521.D | 0.031          | 05072025T16:49:00 | VL042522.D | 0.032          |
| VL041879.D | 0.33           | 01092025T22:17:00 | VL041909.D | 0.28           | 01152025T00:52:00 | VL041910.D | 0.25           |
| VL041879.D | 0.42           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.33           |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.35           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.48           |
| VL041879.D | 0.45           | 01092025T22:17:00 | VL041909.D | 0.38           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.38           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.31           |
| VL041879.D | 0.38           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.33           |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.41           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.37           |
| VL041885.D | 0.034          | 01102025T01:18:00 | VL041913.D | 0.037          | 01152025T02:53:00 | VL041914.D | 0.034          |
| VL041879.D | 0.41           | 01092025T22:17:00 | VL041909.D | 0.41           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.54           | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.48           |
| VL041885.D | 0.035          | 01102025T01:18:00 | VL041913.D | 0.029          | 01152025T02:53:00 | VL041914.D | 0.033          |
| VL041879.D | 0.54           | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.56           | 01092025T22:17:00 | VL041909.D | 0.35           | 01152025T00:52:00 | VL041910.D | 0.44           |
| VL042515.D | 0.021          | 05072025T13:17:00 | VL042516.D | 0.021          | 05072025T13:50:00 | VL042517.D | 0.014          |



| Adate5            | Datafile6  | Concentration6 | Adate6            | Datafile7  | Concentration7 | Adate7            | Department |
|-------------------|------------|----------------|-------------------|------------|----------------|-------------------|------------|
| 01152025T01:23:00 | VL041932.D | 0.41           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.028          | 01212025T00:31:00 | VL041940.D | 0.027          | 01212025T09:44:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.034          | 01212025T00:31:00 | VL041940.D | 0.034          | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.44           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.4            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.49           | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.49           | 01202025T22:30:00 | VL041933.D | 0.52           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.45           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.41           | 01202025T22:30:00 | VL041933.D | 0.37           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.46           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.36           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.31           | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.38           | 01202025T22:30:00 | VL041933.D | 0.37           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.58           | 01202025T22:30:00 | VL041933.D | 0.54           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.43           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.29           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.42           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.39           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.52           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.38           | 01202025T22:30:00 | VL041933.D | 0.38           | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.029          | 01212025T00:31:00 | VL041940.D | 0.027          | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.51           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.52           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.35           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.37           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.38           | 01202025T22:30:00 | VL041933.D | 0.36           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.48           | 01202025T22:30:00 | VL041933.D | 0.51           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.45           | 01202025T23:00:00 | VOC        |
| 05072025T15:37:00 | VL042520.D | 0.766          | 05072025T16:13:00 | VL042569.D | 0.664          | 05212025T16:53:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.39           | 01202025T22:30:00 | VL041933.D | 0.4            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.32           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.37           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.44           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.4            | 01202025T22:30:00 | VL041933.D | 0.36           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.46           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.36           | 01202025T22:30:00 | VL041933.D | 0.35           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.64           | 01202025T22:30:00 | VL041933.D | 0.65           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 05072025T17:24:00 | VL042523.D | 0.03           | 05072025T17:58:00 | VL042567.D | 0.034          | 05212025T15:49:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.2            | 01202025T22:30:00 | VL041933.D | 0.17           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.31           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.32           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.32           | 01202025T22:30:00 | VL041933.D | 0.32           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.3            | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.27           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.44           | 01202025T22:30:00 | VL041933.D | 0.38           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.026          | 01212025T00:31:00 | VL041940.D | 0.03           | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.39           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.44           | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.033          | 01212025T00:31:00 | VL041940.D | 0.03           | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.37           | 01202025T23:00:00 | VOC        |
| 05072025T14:29:00 | VL042575.D | 0.034          | 05222025T11:27:00 | VL042576.D | 0.032          | 05222025T11:59:00 | VOC        |



| AVG<br>Concentration | Recovery | Effective Date |
|----------------------|----------|----------------|
| 0.43                 | 108      | 5/22/2025      |
| 0.03                 | 114      | 5/22/2025      |
| 0.04                 | 125      | 5/22/2025      |
| 0.47                 | 119      | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.45                 | 112      | 5/22/2025      |
| 0.48                 | 120      | 5/22/2025      |
| 0.49                 | 123      | 5/22/2025      |
| 0.48                 | 119      | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.51                 | 128      | 5/22/2025      |
| 0.46                 | 116      | 5/22/2025      |
| 0.45                 | 112      | 5/22/2025      |
| 0.44                 | 110      | 5/22/2025      |
| 0.42                 | 105      | 5/22/2025      |
| 0.46                 | 115      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.36                 | 91       | 5/22/2025      |
| 0.37                 | 93       | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.58                 | 146      | 5/22/2025      |
| 0.47                 | 118      | 5/22/2025      |
| 0.45                 | 111      | 5/22/2025      |
| 0.30                 | 75       | 5/22/2025      |
| 0.42                 | 106      | 5/22/2025      |
| 0.48                 | 119      | 5/22/2025      |
| 0.35                 | 86       | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.41                 | 102      | 5/22/2025      |
| 0.03                 | 113      | 5/22/2025      |
| 0.48                 | 121      | 5/22/2025      |
| 0.47                 | 118      | 5/22/2025      |
| 0.52                 | 130      | 5/22/2025      |
| 0.48                 | 121      | 5/22/2025      |
| 0.50                 | 126      | 5/22/2025      |
| 0.44                 | 111      | 5/22/2025      |
| 0.36                 | 91       | 5/22/2025      |
| 0.40                 | 101      | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.49                 | 123      | 5/22/2025      |
| 0.77                 | 191      | 5/22/2025      |
| 0.42                 | 106      | 5/22/2025      |
| 0.38                 | 94       | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.46                 | 115      | 5/22/2025      |
| 0.43                 | 106      | 5/22/2025      |
| 0.53                 | 134      | 5/22/2025      |
| 0.40                 | 101      | 5/22/2025      |
| 0.78                 | 194      | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.40                 | 101      | 5/22/2025      |
| 0.57                 | 143      | 5/22/2025      |
| 0.03                 | 86       | 5/22/2025      |
| 0.27                 | 68       | 5/22/2025      |
| 0.37                 | 93       | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.39                 | 97       | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.50                 | 124      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.35                 | 88       | 5/22/2025      |
| 0.35                 | 86       | 5/22/2025      |
| 0.45                 | 113      | 5/22/2025      |
| 0.39                 | 98       | 5/22/2025      |
| 0.03                 | 113      | 5/22/2025      |
| 0.42                 | 105      | 5/22/2025      |
| 0.39                 | 97       | 5/22/2025      |
| 0.48                 | 120      | 5/22/2025      |
| 0.04                 | 121      | 5/22/2025      |
| 0.48                 | 119      | 5/22/2025      |
| 0.42                 | 105      | 5/22/2025      |
| 0.02                 | 82       | 5/22/2025      |



# QC SUMMARY

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## Surrogate Summary

SDG No.: **Q3556**

Client: **RTP Environmental**

Analytical Method: **SWTO-15**

| Lab Sample ID | Client ID   | Parameter               | Spike | Result | Recovery (%) | Qual | Limits (%) |           |
|---------------|-------------|-------------------------|-------|--------|--------------|------|------------|-----------|
|               |             |                         |       |        |              |      | Low        | High      |
| Q3555-02DUP   | 151-IA-2DUP | 1-Bromo-4-Fluorobenzene | 10    | 10.1   | 101          |      | 70 (65)    | 130 (135) |
| Q3556-01      | 131-IA1     | 1-Bromo-4-Fluorobenzene | 10    | 10.2   | 102          |      | 70 (65)    | 130 (135) |
| Q3556-02      | 131-IA2     | 1-Bromo-4-Fluorobenzene | 10    | 10.0   | 100          |      | 70 (65)    | 130 (135) |
| Q3556-03      | 131-SG-1    | 1-Bromo-4-Fluorobenzene | 10    | 10.0   | 100          |      | 70 (65)    | 130 (135) |
| Q3556-04      | 131-SG-2    | 1-Bromo-4-Fluorobenzene | 10    | 9.98   | 100          |      | 70 (65)    | 130 (135) |
| VL1106ABL01   | VL1106ABL01 | 1-Bromo-4-Fluorobenzene | 10    | 9.77   | 98           |      | 70 (65)    | 130 (135) |
| VL1106ABS01   | VL1106ABS01 | 1-Bromo-4-Fluorobenzene | 10    | 10.2   | 102          |      | 70 (65)    | 130 (135) |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

|          |  |                   |            |  |                    |  |         |
|----------|--|-------------------|------------|--|--------------------|--|---------|
| SDG No.: |  | Q3556             | SW-846     |  | Analytical Method: |  | SWTO-15 |
| Client:  |  | RTP Environmental | Datafile : |  | VL043157.D         |  |         |

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|---------|-------------|-----|
| VL1106ABS01   | Dichlorodifluoromethane        | 10    | 10.8   | ppbv | 108 |     |      | 40 (70) | 160 (130)   |     |
|               | Chloromethane                  | 10    | 9.10   | ppbv | 91  |     |      | 40 (70) | 160 (130)   |     |
|               | Vinyl Chloride                 | 10    | 9.10   | ppbv | 91  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromomethane                   | 10    | 10.2   | ppbv | 102 |     |      | 40 (70) | 160 (130)   |     |
|               | Chloroethane                   | 10    | 9.30   | ppbv | 93  |     |      | 40 (70) | 160 (130)   |     |
|               | Tetrahydrofuran                | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)   |     |
|               | Trichlorofluoromethane         | 10    | 11.7   | ppbv | 117 |     |      | 40 (70) | 160 (130)   |     |
|               | 1,1,2-Trichlorotrifluoroethane | 10    | 11.2   | ppbv | 112 |     |      | 70 (70) | 130 (130)   |     |
|               | Dichlorotetrafluoroethane      | 10    | 10.7   | ppbv | 107 |     |      | 70 (70) | 130 (130)   |     |
|               | tert-Butyl Alcohol             | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |
|               | Heptane                        | 10    | 8.70   | ppbv | 87  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethene             | 10    | 11.0   | ppbv | 110 |     |      | 70 (70) | 130 (130)   |     |
|               | Acetone                        | 10    | 8.90   | ppbv | 89  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon disulfide               | 10    | 10.7   | ppbv | 107 |     |      | 40 (70) | 160 (130)   |     |
|               | Methyl tert-butyl Ether        | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | Methylene Chloride             | 10    | 9.10   | ppbv | 91  |     |      | 70 (70) | 130 (130)   |     |
|               | trans-1,2-Dichloroethene       | 10    | 10.7   | ppbv | 107 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethane             | 10    | 10.5   | ppbv | 105 |     |      | 70 (70) | 130 (130)   |     |
|               | Cyclohexane                    | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Butanone                     | 10    | 10.4   | ppbv | 104 |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon Tetrachloride           | 10    | 11.8   | ppbv | 118 |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,2-Dichloroethene         | 10    | 10.5   | ppbv | 105 |     |      | 70 (70) | 130 (130)   |     |
|               | Chloroform                     | 10    | 11.0   | ppbv | 110 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,1-Trichloroethane          | 10    | 10.7   | ppbv | 107 |     |      | 70 (70) | 130 (130)   |     |
|               | 2,2,4-Trimethylpentane         | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | Benzene                        | 10    | 10.2   | ppbv | 102 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloroethane             | 10    | 11.3   | ppbv | 113 |     |      | 70 (70) | 130 (130)   |     |
|               | Trichloroethene                | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloropropane            | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | Bromodichloromethane           | 10    | 11.4   | ppbv | 114 |     |      | 70 (70) | 130 (130)   |     |
|               | 4-Methyl-2-Pentanone           | 10    | 9.40   | ppbv | 94  |     |      | 40 (70) | 160 (130)   |     |
|               | Toluene                        | 10    | 9.70   | ppbv | 97  |     |      | 70 (70) | 130 (130)   |     |
|               | t-1,3-Dichloropropene          | 10    | 10.1   | ppbv | 101 |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,3-Dichloropropene        | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2-Trichloroethane          | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | Dibromochloromethane           | 10    | 11.1   | ppbv | 111 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dibromoethane              | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | Tetrachloroethene              | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | Chlorobenzene                  | 10    | 10.2   | ppbv | 102 |     |      | 70 (70) | 130 (130)   |     |
|               | Ethyl Benzene                  | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | m/p-Xylene                     | 20    | 20.9   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | o-Xylene                       | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | Styrene                        | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromoform                      | 10    | 11.6   | ppbv | 116 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2,2-Tetrachloroethane      | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Chlorotoluene                | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,3,5-Trimethylbenzene         | 10    | 10.7   | ppbv | 107 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2,4-Trimethylbenzene         | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                          |                           |                   |
|-----------------|--------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q3556</u>             | <b>Analytical Method:</b> | <u>SWTO-15</u>    |
| <b>Client:</b>  | <u>RTP Environmental</u> | <b>Datafile :</b>         | <u>VL043157.D</u> |

| Lab Sample ID | Parameter                | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|---------------|--------------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| VL1106ABS01   | 1,3-Dichlorobenzene      | 10    | 10.9   | ppbv | 109 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dichlorobenzene      | 10    | 10.8   | ppbv | 108 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2-Dichlorobenzene      | 10    | 10.7   | ppbv | 107 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2,4-Trichlorobenzene   | 10    | 10.8   | ppbv | 108 |     |      | 70 (70) | 130 (130)      |     |
|               | Hexachloro-1,3-butadiene | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)      |     |
|               | Naphthalene              | 10    | 10.1   | ppbv | 101 |     |      | 40 (70) | 160 (130)      |     |
|               | 1,3-Butadiene            | 10    | 8.80   | ppbv | 88  |     |      | 70 (70) | 130 (130)      |     |
|               | 4-Ethyltoluene           | 10    | 10.7   | ppbv | 107 |     |      | 70 (70) | 130 (130)      |     |
|               | Hexane                   | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)      |     |
|               | Allyl Chloride           | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dioxane              | 10    | 9.40   | ppbv | 94  |     |      | 40 (70) | 160 (130)      |     |
|               | Methyl methacrylate      | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)      |     |

() = LABORATORY INHOUSE LIMIT

### Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q3555-02DUP      | Q3555-02         |
| <b>Client Id :</b>            | 151-IA-2DUP      | 151-IA-2         |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL043159.D       | VL043158.D       |
| <b>Anal Date &amp; Time :</b> | 11/06/2025 10:17 | 11/06/2025 09:42 |

| Parameter                      | Result | Result | RPD  |
|--------------------------------|--------|--------|------|
| 1,1,1-Trichloroethane          | 0      | 0      | 0    |
| 1,1,2,2-Tetrachloroethane      | 0      | 0      | 0    |
| 1,1,2-Trichloroethane          | 0      | 0      | 0    |
| 1,1,2-Trichlorotrifluoroethane | 0      | 0      | 0    |
| 1,1-Dichloroethane             | 0      | 0      | 0    |
| 1,1-Dichloroethene             | 0      | 0      | 0    |
| 1,2,4-Trichlorobenzene         | 0      | 0      | 0    |
| 1,2,4-Trimethylbenzene         | 0      | 0      | 0    |
| 1,2-Dibromoethane              | 0      | 0      | 0    |
| 1,2-Dichlorobenzene            | 0      | 0      | 0    |
| 1,2-Dichloroethane             | 0.22   | 0.22   | 0    |
| 1,2-Dichloropropane            | 0      | 0      | 0    |
| 1,3,5-Trimethylbenzene         | 0      | 0      | 0    |
| 1,3-Butadiene                  | 0      | 0      | 0    |
| 1,3-Dichlorobenzene            | 0      | 0      | 0    |
| 1,4-Dichlorobenzene            | 0      | 0      | 0    |
| 1,4-Dioxane                    | 0      | 0      | 0    |
| 2,2,4-Trimethylpentane         | 0      | 0      | 0    |
| 2-Butanone                     | 0.27   | 0.31   | 13.8 |
| 2-Chlorotoluene                | 0      | 0      | 0    |
| 4-Ethyltoluene                 | 0      | 0      | 0    |
| 4-Methyl-2-Pentanone           | 0      | 0      | 0    |
| Acetone                        | 6.1    | 6.3    | 3.2  |
| Allyl Chloride                 | 0      | 0      | 0    |
| Benzene                        | 0.19   | 0.2    | 5.1  |
| Bromodichloromethane           | 0      | 0      | 0    |
| Bromoform                      | 0      | 0      | 0    |
| Bromomethane                   | 0      | 0      | 0    |
| Carbon Disulfide               | 0      | 0      | 0    |
| Carbon Tetrachloride           | 0.08   | 0.08   | 0    |
|                                |        |        |      |

## Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q3555-02DUP      | Q3555-02         |
| <b>Client Id :</b>            | 151-IA-2DUP      | 151-IA-2         |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL043159.D       | VL043158.D       |
| <b>Anal Date &amp; Time :</b> | 11/06/2025 10:17 | 11/06/2025 09:42 |

| Parameter                 | Result | Result | RPD  |
|---------------------------|--------|--------|------|
| Chlorobenzene             | 0      | 0      | 0    |
| Chloroethane              | 0      | 0      | 0    |
| Chloroform                | 0.61   | 0.62   | 1.6  |
| Chloromethane             | 0.39   | 0.43   | 9.8  |
| cis-1,2-Dichloroethene    | 0      | 0      | 0    |
| cis-1,3-Dichloropropene   | 0      | 0      | 0    |
| Cyclohexane               | 0      | 0      | 0    |
| Dibromochloromethane      | 0      | 0      | 0    |
| Dichlorodifluoromethane   | 0.45   | 0.51   | 12.5 |
| Dichlorotetrafluoroethane | 0      | 0      | 0    |
| Ethyl Benzene             | 0      | 0      | 0    |
| Heptane                   | 0      | 0      | 0    |
| Hexachloro-1,3-Butadiene  | 0      | 0      | 0    |
| Hexane                    | 0.99   | 1      | 1    |
| m/p-Xylene                | 0      | 0      | 0    |
| Methyl Methacrylate       | 0      | 0      | 0    |
| Methyl tert-Butyl Ether   | 0      | 0      | 0    |
| Methylene Chloride        | 0.51   | 0.59   | 14.5 |
| Naphthalene               | 0      | 0      | 0    |
| o-Xylene                  | 0      | 0      | 0    |
| Styrene                   | 0      | 0      | 0    |
| t-1,3-Dichloropropene     | 0      | 0      | 0    |
| tert-Butyl alcohol        | 0      | 0      | 0    |
| Tetrachloroethene         | 0      | 0      | 0    |
| Tetrahydrofuran           | 0      | 0      | 0    |
| Toluene                   | 0.52   | 0.52   | 0    |
| trans-1,2-Dichloroethene  | 0      | 0      | 0    |
| Trichloroethene           | 0      | 0      | 0    |
| Trichlorofluoromethane    | 0.33   | 0.31   | 6.3  |
| Vinyl Chloride            | 0      | 0      | 0    |



VOLATILE METHOD BLANK SUMMARY

Client ID

VL1106ABL01

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3556

Lab File ID: VL043156.D

Lab Sample ID: VL1106ABL01

Date Analyzed: 11/06/2025

Time Analyzed: 08:02

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_L

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 |
|-------------------|------------------|----------------|------------------|
| VL1106ABS01       | VL1106ABS01      | VL043157.D     | 11/06/2025       |
| 151-IA-2DUP       | Q3555-02DUP      | VL043159.D     | 11/06/2025       |
| 131-IA1           | Q3556-01         | VL043161.D     | 11/06/2025       |
| 131-IA2           | Q3556-02         | VL043162.D     | 11/06/2025       |
| 131-SG-1          | Q3556-03         | VL043175.D     | 11/06/2025       |
| 131-SG-2          | Q3556-04         | VL043176.D     | 11/06/2025       |

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

\_\_\_\_\_

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3556

Lab File ID: VL043103.D

BFB Injection Date: 10/14/2025

Instrument ID: MSVOA\_L

BFB Injection Time: 08:42

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 21.9                 |
| 75  | 30.0 - 66.0% of mass 95            | 53.2                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.8                  |
| 173 | Less than 2.0% of mass 174         | 0.0 ( 0.0 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 61.7                 |
| 175 | 4.0 - 9.0% of mass 174             | 4.8 ( 7.8 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 59.6 ( 96.5 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 3.9 ( 6.6 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID    | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|--------------|---------------|-------------|---------------|---------------|
| VSTDICCC010  | VSTDICCC010   | VL043105.D  | 10/14/2025    | 10:31         |
| VSTDICCC002  | VSTDICCC002   | VL043106.D  | 10/14/2025    | 11:27         |
| VSTDICCC001  | VSTDICCC001   | VL043107.D  | 10/14/2025    | 12:01         |
| VSTDICCC0.5  | VSTDICCC0.5   | VL043108.D  | 10/14/2025    | 12:34         |
| VSTDICCC0.1  | VSTDICCC0.1   | VL043109.D  | 10/14/2025    | 13:08         |
| VSTDICCC0.03 | VSTDICCC0.03  | VL043110.D  | 10/14/2025    | 13:42         |
| VSTDICCC015  | VSTDICCC015   | VL043111.D  | 10/14/2025    | 14:18         |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG NO.: Q3556

Lab File ID: VL043154.D

BFB Injection Date: 11/06/2025

Instrument ID: MSVOA\_L

BFB Injection Time: 06:24

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 22.9                 |
| 75  | 30.0 - 66.0% of mass 95            | 58                   |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 0.6 ( 0.9 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 62.8                 |
| 175 | 4.0 - 9.0% of mass 174             | 4.9 ( 7.7 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 61.8 ( 98.5 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.3 ( 7 ) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID   | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------|---------------|-------------|---------------|---------------|
| VSTDCCC010  | VSTDCCC010    | VL043155.D  | 11/06/2025    | 07:19         |
| VL1106ABL01 | VL1106ABL01   | VL043156.D  | 11/06/2025    | 08:02         |
| VL1106ABS01 | VL1106ABS01   | VL043157.D  | 11/06/2025    | 08:45         |
| 151-IA-2DUP | Q3555-02DUP   | VL043159.D  | 11/06/2025    | 10:17         |
| 131-IA1     | Q3556-01      | VL043161.D  | 11/06/2025    | 11:36         |
| 131-IA2     | Q3556-02      | VL043162.D  | 11/06/2025    | 12:10         |
| 131-SG-1    | Q3556-03      | VL043175.D  | 11/06/2025    | 19:30         |
| 131-SG-2    | Q3556-04      | VL043176.D  | 11/06/2025    | 20:03         |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: RTPE01  
Lab Code: ACE SDG NO.: Q3556  
Lab File ID: VL043155.D Date Analyzed: 11/06/2025  
Instrument ID: MSVOA\_L Time Analyzed: 07:19  
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

|                | IS1<br>AREA # | RT # | IS2<br>AREA # | RT # | IS3<br>AREA # | RT # |
|----------------|---------------|------|---------------|------|---------------|------|
| 12 HOUR STD    | 111679        | 2.79 | 341877        | 3.96 | 299829        | 8.89 |
| UPPER LIMIT    | 156351        | 3.12 | 478628        | 4.29 | 419761        | 9.22 |
| LOWER LIMIT    | 67007.4       | 2.46 | 205126        | 3.63 | 179897        | 8.56 |
| EPA SAMPLE NO. |               |      |               |      |               |      |
| 151-IA-2DUP    | 118024        | 2.79 | 354784        | 3.96 | 303947        | 8.88 |
| 131-IA1        | 117302        | 2.79 | 349960        | 3.96 | 295308        | 8.88 |
| 131-IA2        | 115682        | 2.79 | 345961        | 3.96 | 296213        | 8.89 |
| 131-SG-1       | 127539        | 2.78 | 353509        | 3.95 | 299020        | 8.87 |
| 131-SG-2       | 130480        | 2.78 | 360019        | 3.96 | 309583        | 8.88 |
| VL1106ABL01    | 111463        | 2.79 | 342563        | 3.96 | 292913        | 8.88 |
| VL1106ABS01    | 111380        | 2.79 | 340583        | 3.96 | 299526        | 8.88 |

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

AREA UPPER LIMIT = +40% of internal standard area  
AREA LOWER LIMIT = -40% of internal standard area  
RT UPPER LIMIT = +0.33 minutes of internal standard RT  
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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



# SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 131-IA1  
Lab Sample ID: Q3556-01  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25  
Date Received: 11/05/25  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| <b>TARGETS</b> |                                |               |                |      |    |              |                     |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 0.45          | 2.23           | J    | 1  | 0.54         | 2.47                | 11/06/25 11:36 | VL110625 |
| 74-87-3        | Chloromethane                  | 0.58          | 1.20           |      | 1  | 0.21         | 1.03                | 11/06/25 11:36 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 0.030         | 0.080          | U    | 1  | 0.080        | 0.080               | 11/06/25 11:36 | VL110625 |
| 74-83-9        | Bromomethane                   | 0.080         | 0.31           | U    | 1  | 0.31         | 1.94                | 11/06/25 11:36 | VL110625 |
| 75-00-3        | Chloroethane                   | 0.15          | 0.40           | U    | 1  | 0.40         | 1.32                | 11/06/25 11:36 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 0.080         | 0.24           | U    | 1  | 0.24         | 1.47                | 11/06/25 11:36 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 0.25          | 1.40           | J    | 1  | 0.96         | 2.81                | 11/06/25 11:36 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.14          | 1.07           | U    | 1  | 1.07         | 3.83                | 11/06/25 11:36 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.15          | 1.05           | U    | 1  | 1.05         | 3.49                | 11/06/25 11:36 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 0.16          | 0.49           | U    | 1  | 0.49         | 1.52                | 11/06/25 11:36 | VL110625 |
| 142-82-5       | Heptane                        | 0.17          | 0.70           | U    | 1  | 0.70         | 2.05                | 11/06/25 11:36 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 0.15          | 0.59           | U    | 1  | 0.59         | 1.98                | 11/06/25 11:36 | VL110625 |
| 67-64-1        | Acetone                        | 3.20          | 7.60           |      | 1  | 0.43         | 1.19                | 11/06/25 11:36 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 0.080         | 0.25           | U    | 1  | 0.25         | 1.56                | 11/06/25 11:36 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.23          | 0.83           | U    | 1  | 0.83         | 1.80                | 11/06/25 11:36 | VL110625 |
| 75-09-2        | Methylene Chloride             | 1.20          | 4.17           |      | 1  | 0.80         | 1.74                | 11/06/25 11:36 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.12          | 0.48           | U    | 1  | 0.48         | 1.98                | 11/06/25 11:36 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U    | 1  | 0.53         | 2.02                | 11/06/25 11:36 | VL110625 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U    | 1  | 0.76         | 1.72                | 11/06/25 11:36 | VL110625 |
| 78-93-3        | 2-Butanone                     | 0.31          | 0.91           | J    | 1  | 0.18         | 1.47                | 11/06/25 11:36 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.090         | 0.57           |      | 1  | 0.19         | 0.19                | 11/06/25 11:36 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.10          | 0.40           | U    | 1  | 0.40         | 1.98                | 11/06/25 11:36 | VL110625 |
| 67-66-3        | Chloroform                     | 0.10          | 0.49           | U    | 1  | 0.49         | 2.44                | 11/06/25 11:36 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 11:36 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.14          | 0.65           | U    | 1  | 0.65         | 2.34                | 11/06/25 11:36 | VL110625 |
| 71-43-2        | Benzene                        | 0.14          | 0.45           | J    | 1  | 0.26         | 1.60                | 11/06/25 11:36 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U    | 1  | 0.36         | 2.02                | 11/06/25 11:36 | VL110625 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 11:36 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.13          | 0.60           | U    | 1  | 0.60         | 2.31                | 11/06/25 11:36 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 0.060         | 0.40           | U    | 1  | 0.40         | 3.35                | 11/06/25 11:36 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.10          | 0.41           | U    | 1  | 0.41         | 2.05                | 11/06/25 11:36 | VL110625 |
| 108-88-3       | Toluene                        | 0.22          | 0.83           | J    | 1  | 0.60         | 1.88                | 11/06/25 11:36 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.15          | 0.68           | U    | 1  | 0.68         | 2.27                | 11/06/25 11:36 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.11          | 0.50           | U    | 1  | 0.50         | 2.27                | 11/06/25 11:36 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.080         | 0.44           | U    | 1  | 0.44         | 2.73                | 11/06/25 11:36 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 0.090         | 0.77           | U    | 1  | 0.77         | 4.26                | 11/06/25 11:36 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 0.090         | 0.69           | U    | 1  | 0.69         | 0.77                | 11/06/25 11:36 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 0.020         | 0.14           | U    | 1  | 0.14         | 0.20                | 11/06/25 11:36 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 0.080         | 0.37           | U    | 1  | 0.37         | 2.30                | 11/06/25 11:36 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 0.19          | 0.83           | U    | 1  | 0.83         | 2.17                | 11/06/25 11:36 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 0.41          | 1.78           | U    | 1  | 1.78         | 4.34                | 11/06/25 11:36 | VL110625 |
| 95-47-6        | o-Xylene                       | 0.21          | 0.91           | U    | 1  | 0.91         | 2.17                | 11/06/25 11:36 | VL110625 |
| 100-42-5       | Styrene                        | 0.16          | 0.68           | U    | 1  | 0.68         | 2.13                | 11/06/25 11:36 | VL110625 |
| 75-25-2        | Bromoform                      | 0.050         | 0.52           | U    | 1  | 0.52         | 5.17                | 11/06/25 11:36 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 0.020         | 0.14           | U    | 1  | 0.14         | 0.21                | 11/06/25 11:36 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 0.17          | 0.88           | U    | 1  | 0.88         | 2.59                | 11/06/25 11:36 | VL110625 |

## Report of Analysis

|                    |                   |                 |          |
|--------------------|-------------------|-----------------|----------|
| Client:            | RTP Environmental | Date Collected: | 11/05/25 |
| Project:           | 131 JUNIPER DRIVE | Date Received:  | 11/05/25 |
| Client Sample ID:  | 131-IA1           | SDG No.:        | Q3556    |
| Lab Sample ID:     | Q3556-01          | Matrix:         | Air      |
| Analytical Method: | TO-15             | Test:           | TO-15    |
| Sample Wt/Vol:     | 400 mL            |                 |          |

| CAS Number | Parameter                | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 11:36 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 11:36 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 0.050      | 0.30        | U    | 1  | 0.30      | 3.01             | 11/06/25 11:36 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 11:36 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 11:36 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 0.21       | 1.56        | U    | 1  | 1.56      | 3.71             | 11/06/25 11:36 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 0.13       | 1.39        | U    | 1  | 1.39      | 5.33             | 11/06/25 11:36 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 0.050      | 0.11        | U    | 1  | 0.11      | 1.11             | 11/06/25 11:36 | VL110625 |
| 91-20-3    | Naphthalene              | 0.010      | 0.050       | U    | 1  | 0.050     | 0.52             | 11/06/25 11:36 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 0.21       | 1.03        | U    | 1  | 1.03      | 2.46             | 11/06/25 11:36 | VL110625 |
| 110-54-3   | Hexane                   | 1.50       | 5.29        |      | 1  | 0.56      | 1.76             | 11/06/25 11:36 | VL110625 |
| 107-05-1   | Allyl Chloride           | 0.11       | 0.34        | U    | 1  | 0.34      | 1.57             | 11/06/25 11:36 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 0.22       | 0.79        | U    | 1  | 0.79      | 1.80             | 11/06/25 11:36 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 0.14       | 0.57        | U    | 1  | 0.57      | 2.05             | 11/06/25 11:36 | VL110625 |

### SURROGATES

|          |                         |      |  |               |      |         |
|----------|-------------------------|------|--|---------------|------|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.2 |  | 70 (65) - 130 | 102% | SPK: 10 |
|----------|-------------------------|------|--|---------------|------|---------|

### INTERNAL STANDARDS

|                              | Area Count |
|------------------------------|------------|
| 74-97-5 Bromochloromethane   | 117000     |
| 540-36-3 1,4-Difluorobenzene | 350000     |
| 3114-55-4 Chlorobenzene-d5   | 295000     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043161.D  
 Acq On : 06 Nov 2025 11:36  
 Operator : SY/MD  
 Sample : Q3556-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-IA1

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:20:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Bromochloromethane       | 2.787  | 49    | 117302   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.959  | 114   | 349960   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        | 8.879  | 117   | 295308   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 234219   | 10.204   | ppbv       | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 102.000% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 7506     | 0.450    | ppbv       | 99       |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 4083m    | 0.226    | ppbv       |          |
| 4) Chloromethane            | 1.531  | 50    | 3813     | 0.577    | ppbv       | 93       |
| 9) Propene                  | 1.489  | 41    | 3516     | 0.439    | ppbv #     | 80       |
| 11) Trichlorofluoromethane  | 1.878  | 101   | 4040     | 0.248    | ppbv       | 86       |
| 13) Ethanol                 | 1.722  | 45    | 11228    | 3.793    | ppbv       | 92       |
| 15) Acetone                 | 1.836  | 43    | 49828    | 3.152    | ppbv       | 100      |
| 19) Isopropyl Alcohol       | 1.888  | 45    | 5602     | 0.569    | ppbv #     | 1        |
| 20) Methylene Chloride      | 2.062  | 84    | 7591     | 1.215    | ppbv       | 91       |
| 26) Hexane                  | 2.829  | 57    | 27779    | 1.538    | ppbv #     | 41       |
| 34) 2-Butanone              | 2.561  | 43    | 7360     | 0.313    | ppbv       | 93       |
| 35) Carbon Tetrachloride    | 3.765  | 117   | 2190m    | 0.087    | ppbv       |          |
| 36) Benzene                 | 3.655  | 78    | 4711     | 0.143    | ppbv       | 95       |
| 53) Toluene                 | 6.930  | 91    | 8680     | 0.222    | ppbv       | 98       |

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



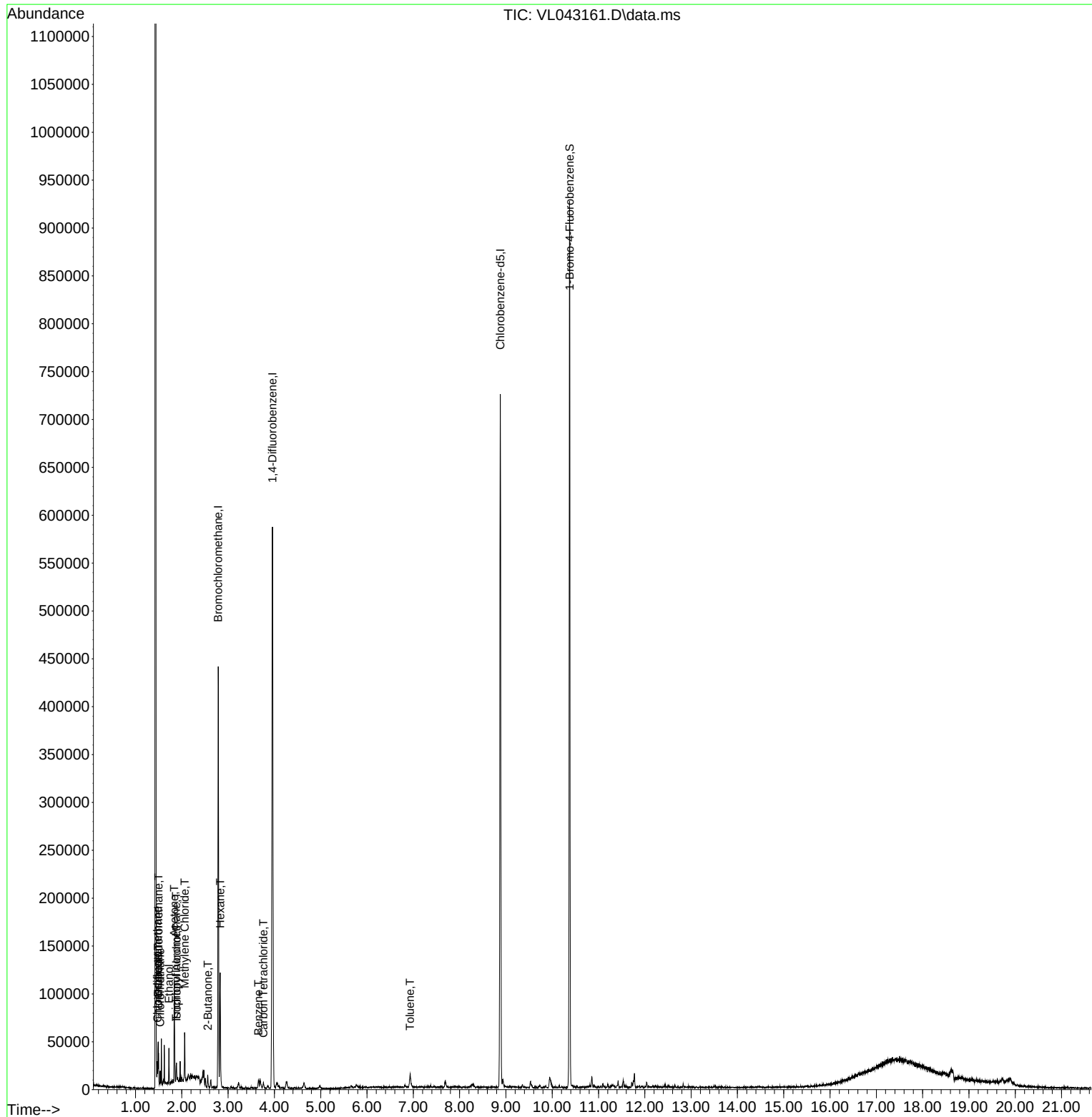
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Data File : VL043161.D  
Acq On : 06 Nov 2025 11:36  
Operator : SY/MD  
Sample : Q3556-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

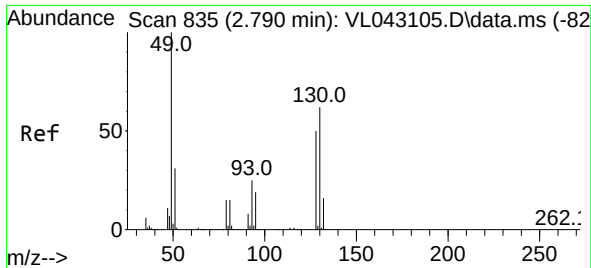
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

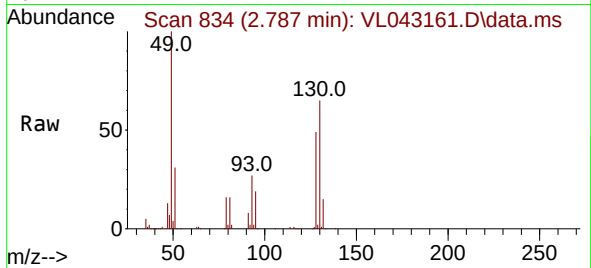
Quant Time: Nov 07 00:20:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

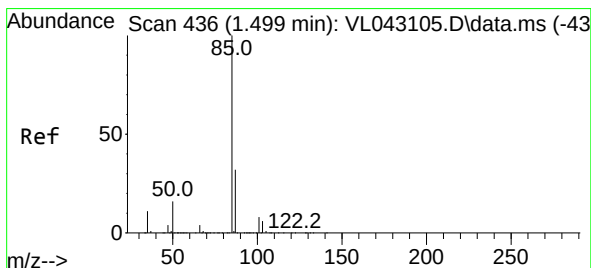
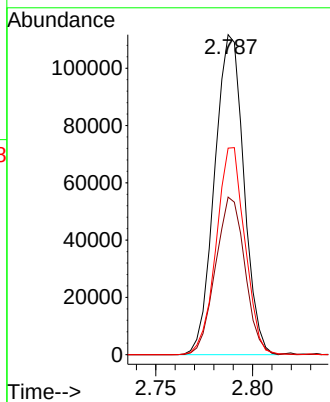
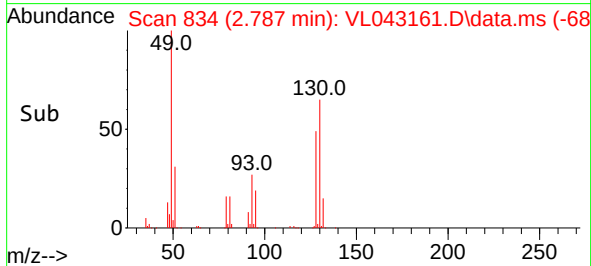
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1



Tgt Ion: 49 Resp: 11730  
Ion Ratio Lower Upper  
49 100  
128 49.6 24.4 73.4  
130 63.6 31.0 93.0

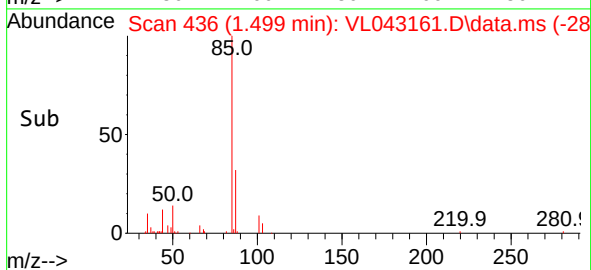
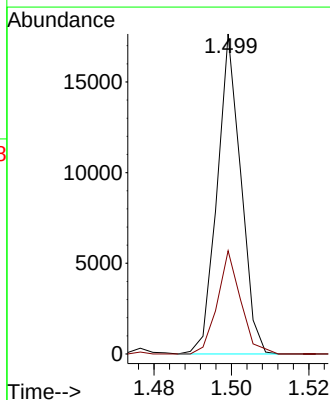
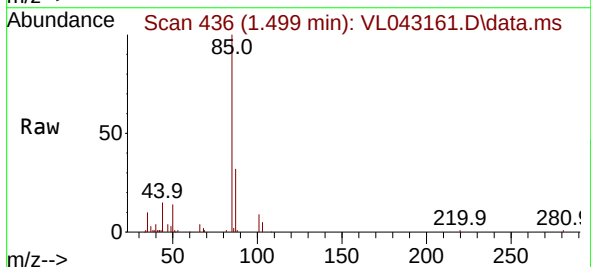
Manual Integrations  
APPROVED

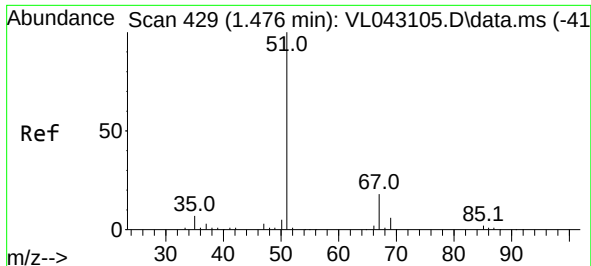
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#2  
Dichlorodifluoromethane  
Concen: 0.450 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 85 Resp: 7506  
Ion Ratio Lower Upper  
85 100  
87 32.3 25.3 37.9





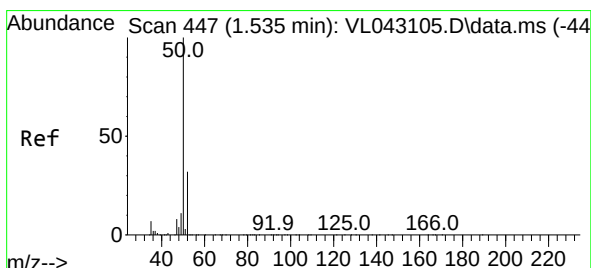
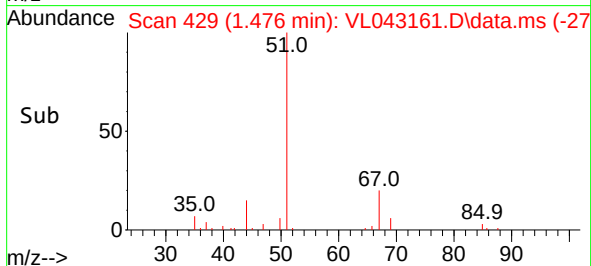
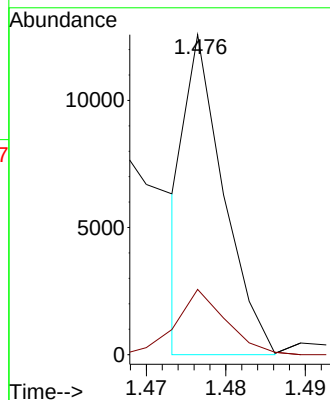
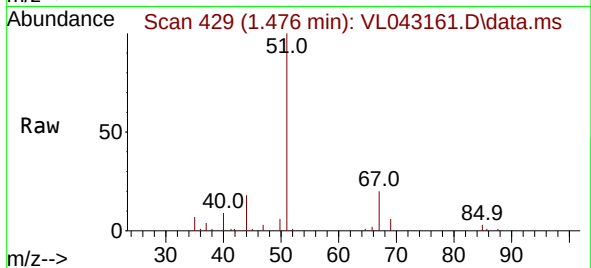
#3  
Chlorodifluoromethane  
Concen: 0.226 ppbv m  
RT: 1.476 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Tgt Ion: 51 Resp: 408  
Ion Ratio Lower Upper  
51 100  
67 1.9 15.1 22.7

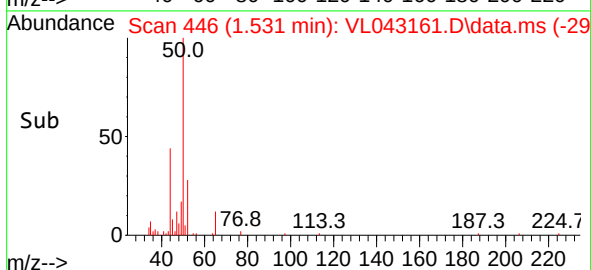
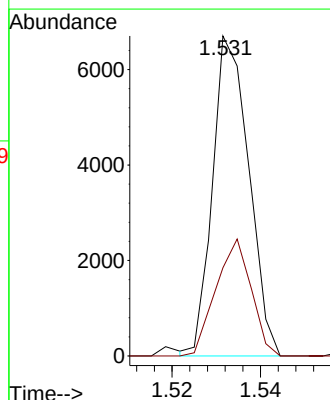
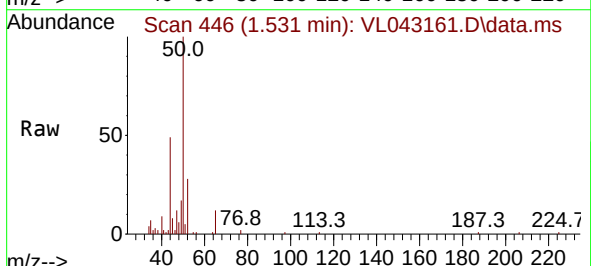
Manual Integrations  
APPROVED

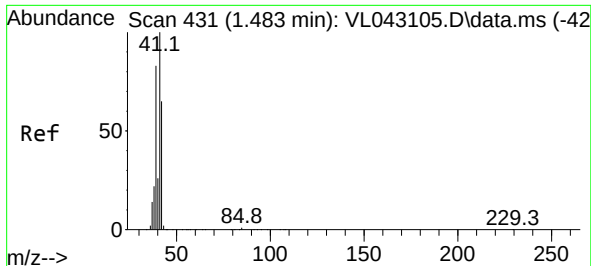
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#4  
Chloromethane  
Concen: 0.577 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 50 Resp: 3813  
Ion Ratio Lower Upper  
50 100  
52 27.6 25.2 37.8





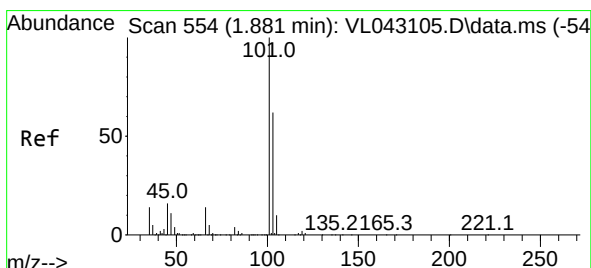
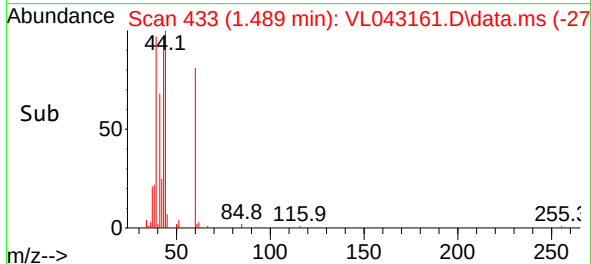
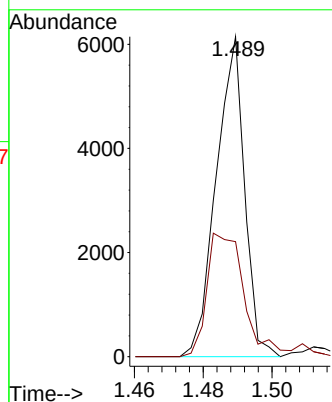
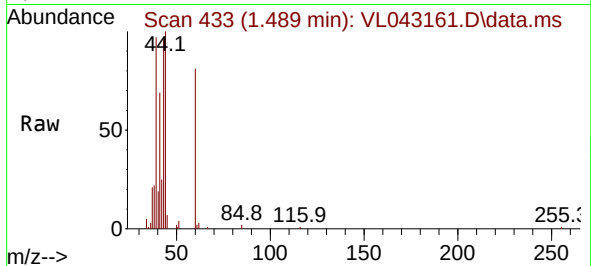
#9  
Propene  
Concen: 0.439 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.007 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Tgt Ion: 41 Resp: 3510  
Ion Ratio Lower Upper  
41 100  
42 52.8 55.1 82.7

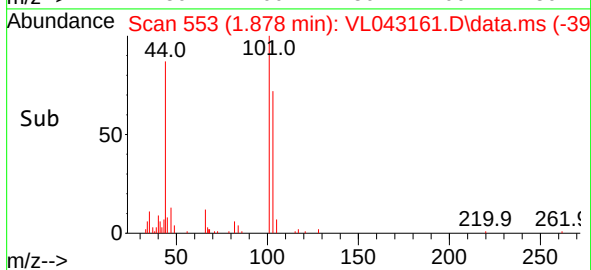
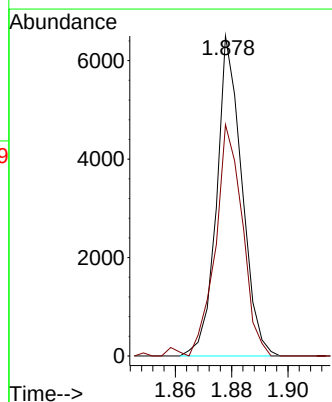
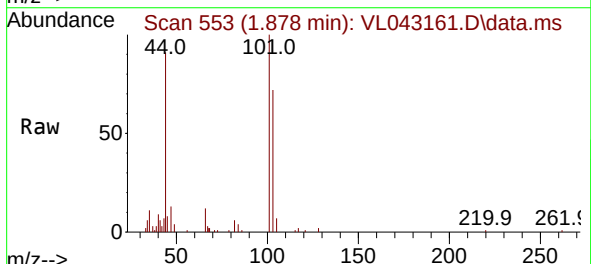
Manual Integrations  
APPROVED

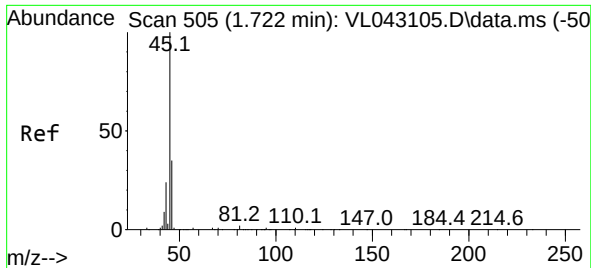
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#11  
Trichlorofluoromethane  
Concen: 0.248 ppbv  
RT: 1.878 min Scan# 553  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

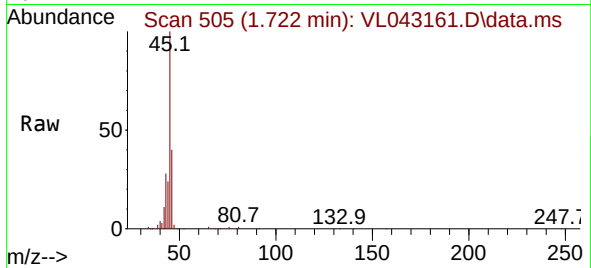
Tgt Ion:101 Resp: 4040  
Ion Ratio Lower Upper  
101 100  
103 72.3 49.3 73.9





#13  
Ethanol  
Concen: 3.793 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

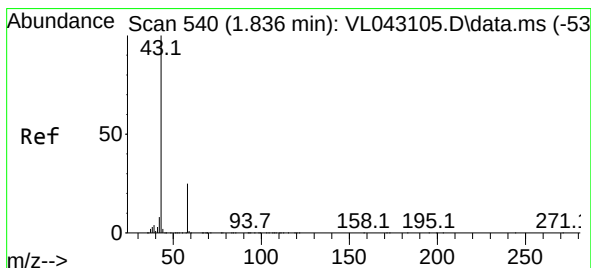
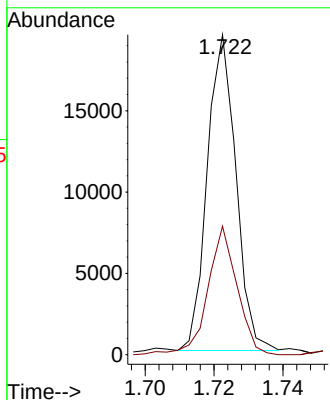
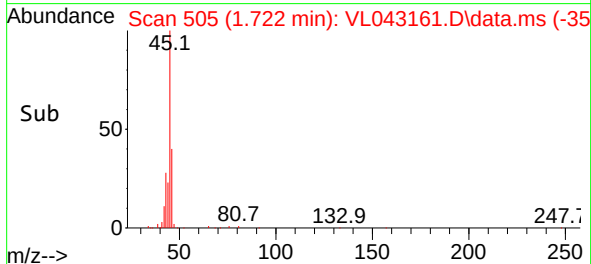
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1



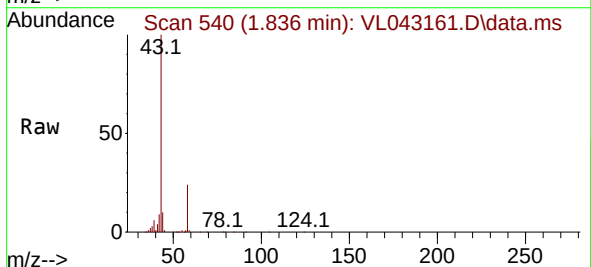
Tgt Ion: 45 Resp: 11228  
Ion Ratio Lower Upper  
45 100  
46 41.5 14.7 58.9

Manual Integrations  
APPROVED

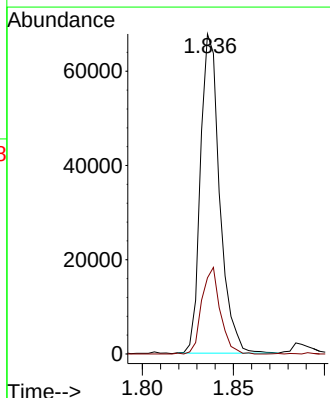
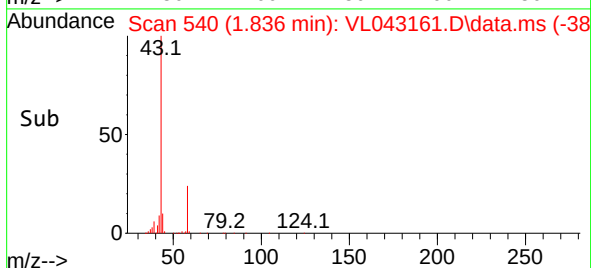
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

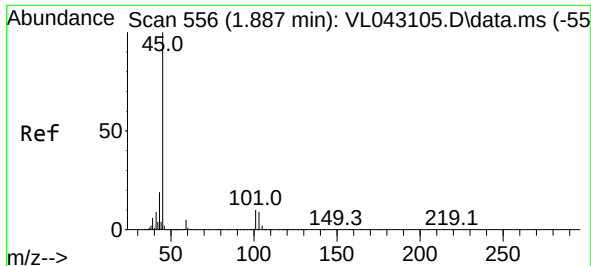


#15  
Acetone  
Concen: 3.152 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36



Tgt Ion: 43 Resp: 49828  
Ion Ratio Lower Upper  
43 100  
58 26.0 20.8 31.2





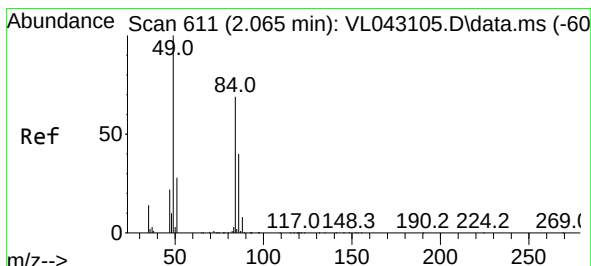
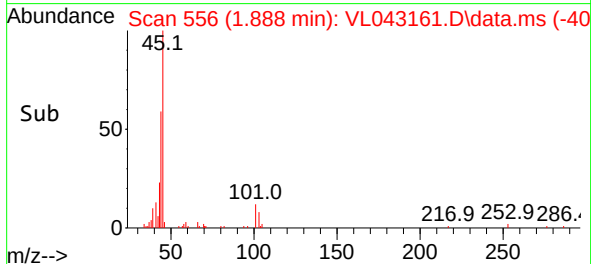
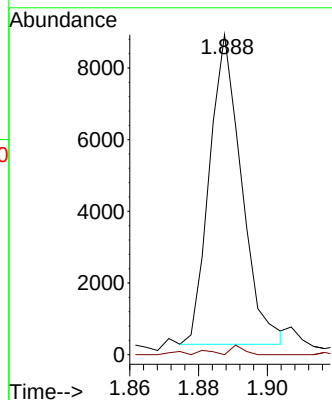
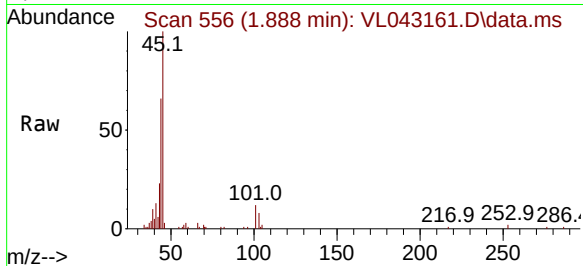
#19  
Isopropyl Alcohol  
Concen: 0.569 ppbv  
RT: 1.888 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Tgt Ion: 45 Resp: 560  
Ion Ratio Lower Upper  
45 100  
58 231.1 31.3 46.9

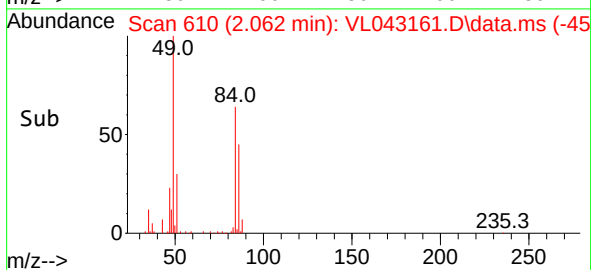
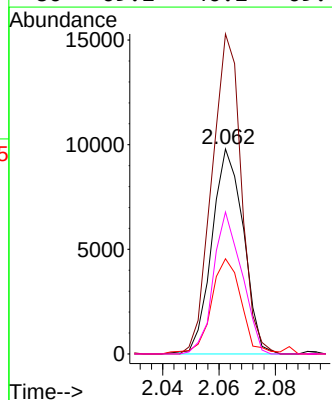
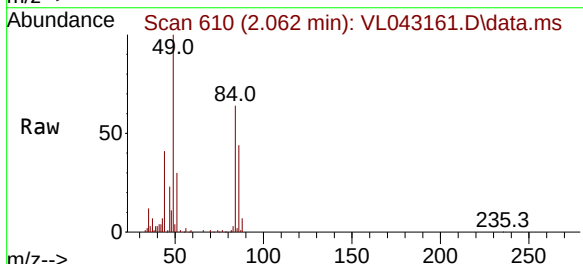
Manual Integrations  
APPROVED

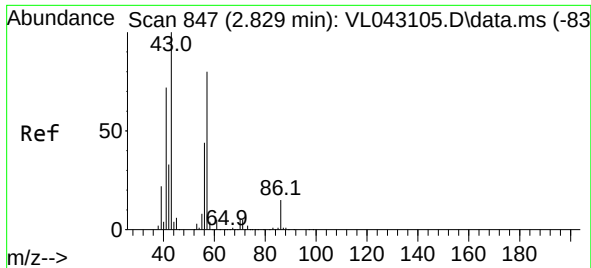
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#20  
Methylene Chloride  
Concen: 1.215 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

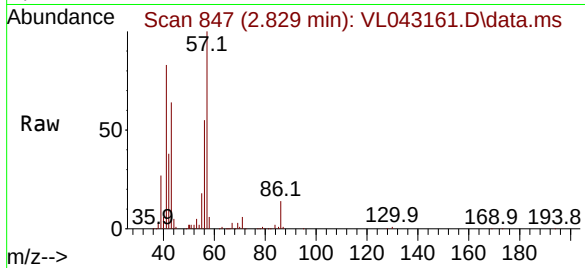
Tgt Ion: 84 Resp: 7591  
Ion Ratio Lower Upper  
84 100  
49 156.1 116.6 175.0  
51 45.4 34.8 52.2  
86 69.2 46.2 69.4





#26  
Hexane  
Concen: 1.538 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

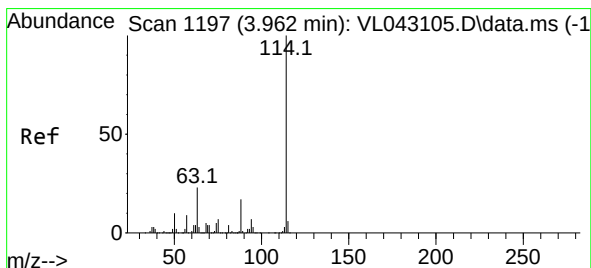
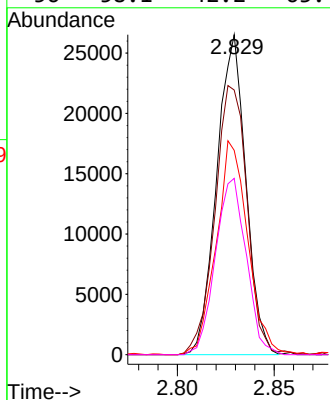
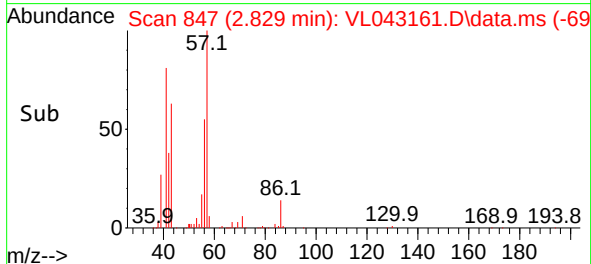
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1



| Tgt Ion:  | 57   | Resp: | 27779 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 57        | 100  |       |       |
| 41        | 93.6 | 71.4  | 107.0 |
| 43        | 72.5 | 178.5 | 267.7 |
| 56        | 58.1 | 42.2  | 63.4  |

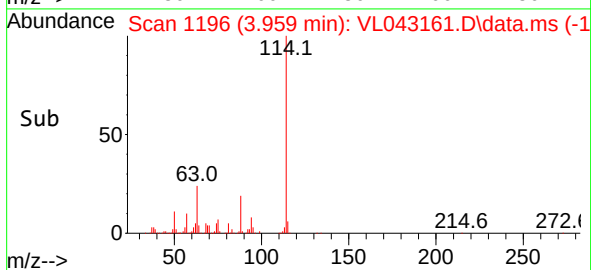
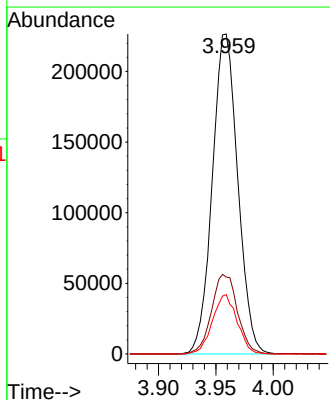
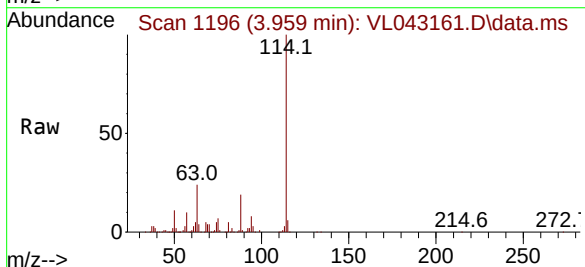
Manual Integrations  
APPROVED

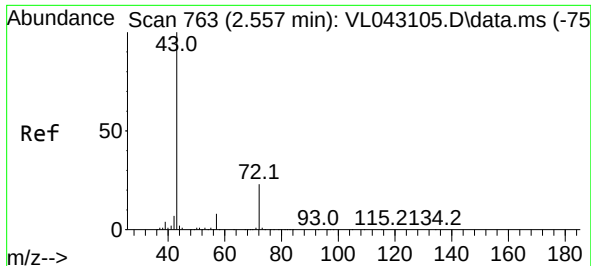
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

| Tgt Ion:  | 114  | Resp: | 349960 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 114       | 100  |       |        |
| 63        | 25.4 | 19.3  | 28.9   |
| 88        | 18.0 | 13.9  | 20.9   |





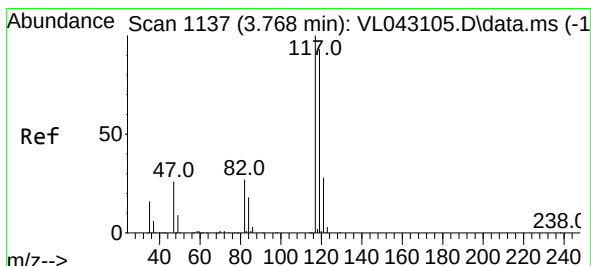
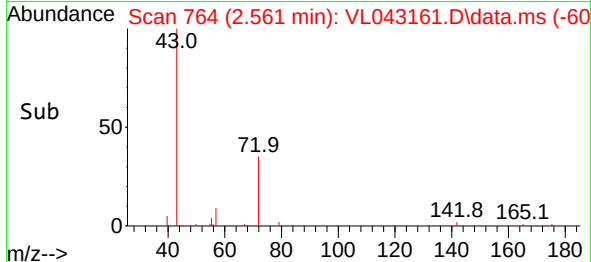
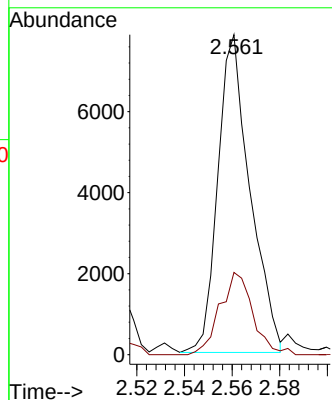
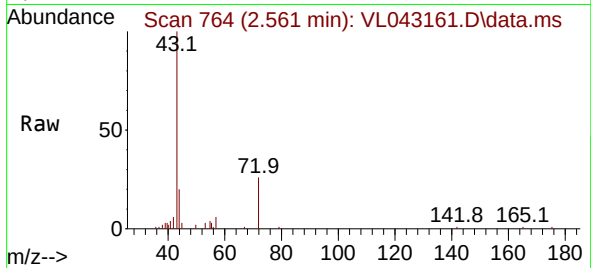
#34  
2-Butanone  
Concen: 0.313 ppbv  
RT: 2.561 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Tgt Ion: 43 Resp: 7360  
Ion Ratio Lower Upper  
43 100  
72 26.5 18.4 27.6

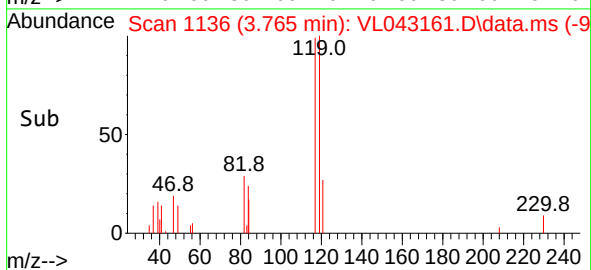
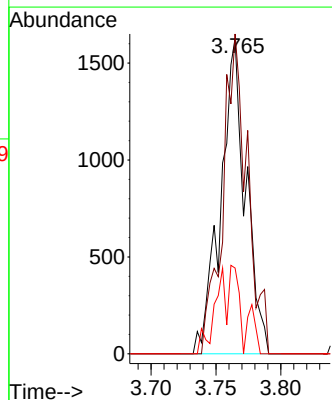
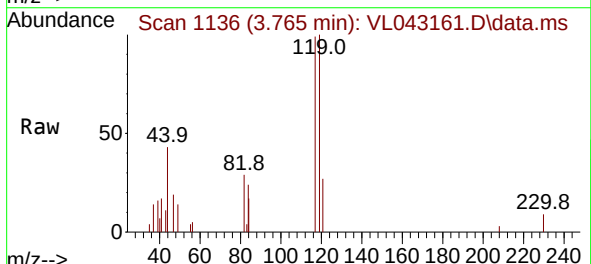
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Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

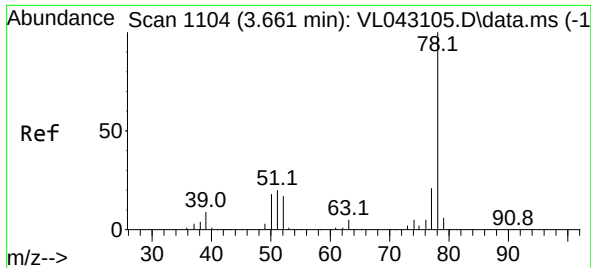


#35  
Carbon Tetrachloride  
Concen: 0.087 ppbv m  
RT: 3.765 min Scan# 1136  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion:117 Resp: 2190  
Ion Ratio Lower Upper  
117 100  
119 101.4 74.1 111.1  
121 27.2 22.2 33.2







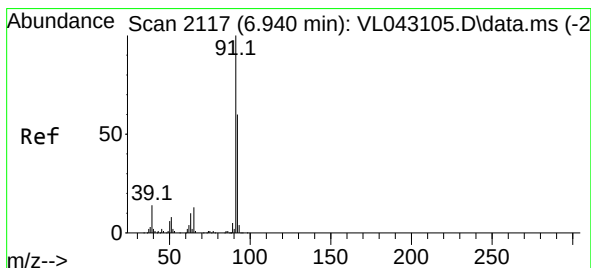
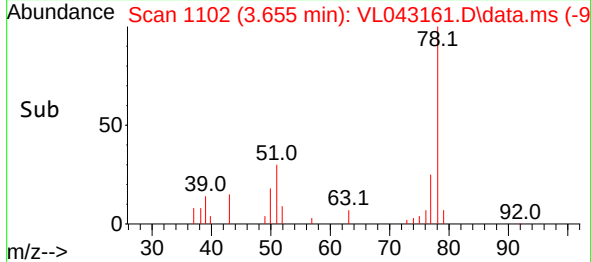
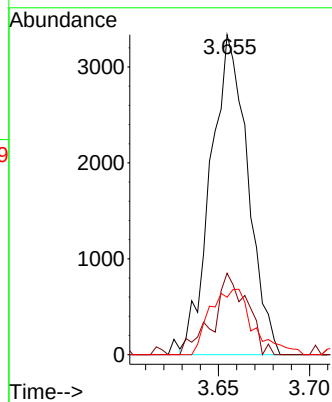
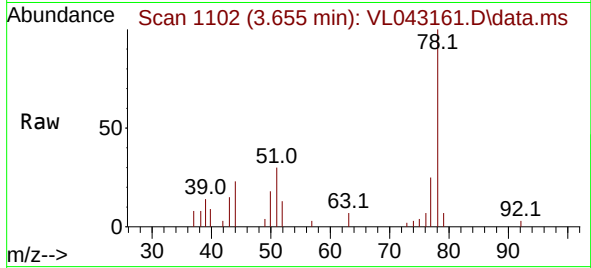
#36  
Benzene  
Concen: 0.143 ppbv  
RT: 3.655 min Scan# 1102  
Delta R.T. -0.006 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Tgt Ion: 78 Resp: 471  
Ion Ratio Lower Upper  
78 100  
77 25.5 17.0 25.6  
50 18.0 14.6 22.0

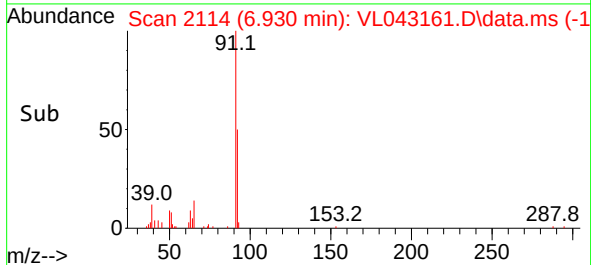
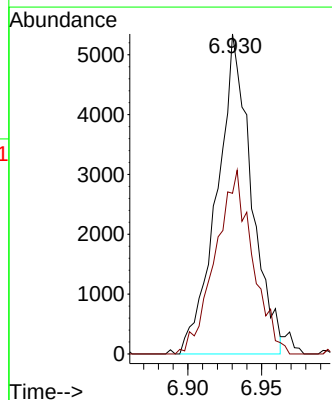
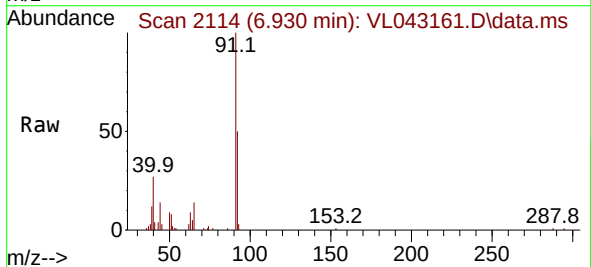
Manual Integrations  
APPROVED

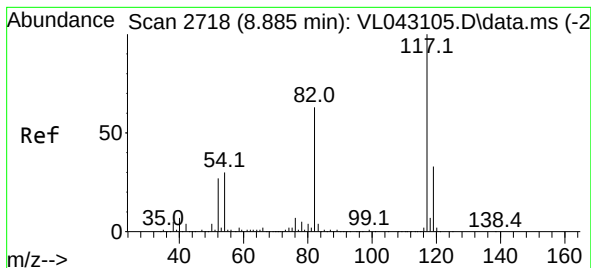
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#53  
Toluene  
Concen: 0.222 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. -0.010 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 91 Resp: 8680  
Ion Ratio Lower Upper  
91 100  
92 62.3 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 21

Delta R.T. -0.006 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

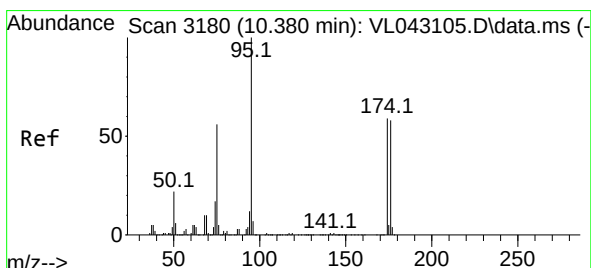
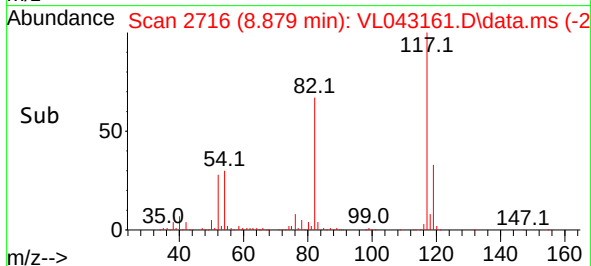
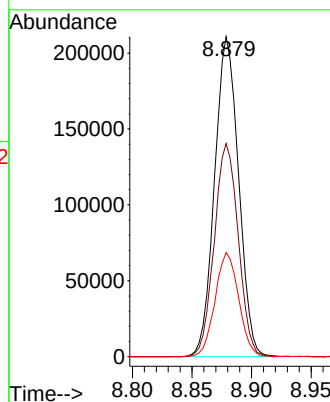
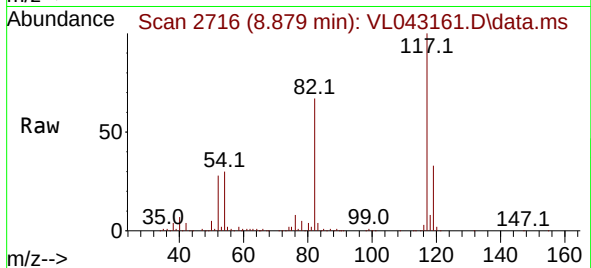
131-IA1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 295308 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 66.6  | 53.8  | 80.8   |
| 119       | 32.2  | 25.4  | 38.0   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.204 ppbv

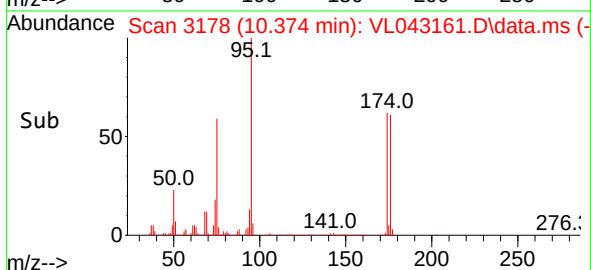
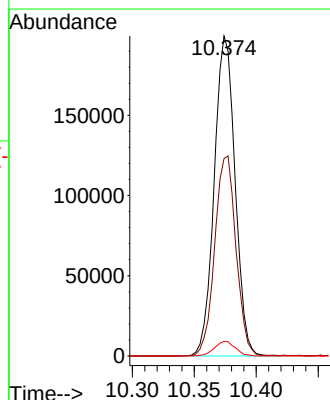
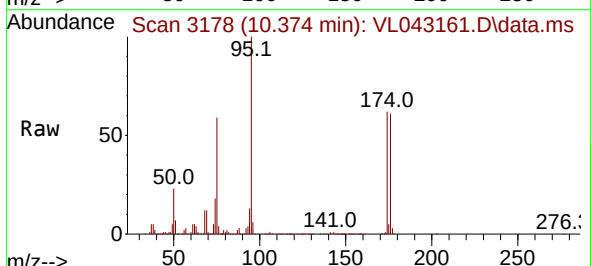
RT: 10.374 min Scan# 3178

Delta R.T. -0.006 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 234219 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 63.8  | 48.3  | 72.5   |
| 175       | 4.6   | 3.8   | 5.8    |



## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 131-IA2  
Lab Sample ID: Q3556-02  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25  
Date Received: 11/05/25  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| <b>TARGETS</b> |                                |               |                |      |    |              |                     |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 0.49          | 2.42           | J    | 1  | 0.54         | 2.47                | 11/06/25 12:10 | VL110625 |
| 74-87-3        | Chloromethane                  | 0.39          | 0.81           | J    | 1  | 0.21         | 1.03                | 11/06/25 12:10 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 0.030         | 0.080          | U    | 1  | 0.080        | 0.080               | 11/06/25 12:10 | VL110625 |
| 74-83-9        | Bromomethane                   | 0.080         | 0.31           | U    | 1  | 0.31         | 1.94                | 11/06/25 12:10 | VL110625 |
| 75-00-3        | Chloroethane                   | 0.15          | 0.40           | U    | 1  | 0.40         | 1.32                | 11/06/25 12:10 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 0.080         | 0.24           | U    | 1  | 0.24         | 1.47                | 11/06/25 12:10 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 0.26          | 1.46           | J    | 1  | 0.96         | 2.81                | 11/06/25 12:10 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.14          | 1.07           | U    | 1  | 1.07         | 3.83                | 11/06/25 12:10 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.15          | 1.05           | U    | 1  | 1.05         | 3.49                | 11/06/25 12:10 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 0.16          | 0.49           | U    | 1  | 0.49         | 1.52                | 11/06/25 12:10 | VL110625 |
| 142-82-5       | Heptane                        | 0.17          | 0.70           | U    | 1  | 0.70         | 2.05                | 11/06/25 12:10 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 0.15          | 0.59           | U    | 1  | 0.59         | 1.98                | 11/06/25 12:10 | VL110625 |
| 67-64-1        | Acetone                        | 2.80          | 6.65           |      | 1  | 0.43         | 1.19                | 11/06/25 12:10 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 0.080         | 0.25           | U    | 1  | 0.25         | 1.56                | 11/06/25 12:10 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.23          | 0.83           | U    | 1  | 0.83         | 1.80                | 11/06/25 12:10 | VL110625 |
| 75-09-2        | Methylene Chloride             | 0.57          | 1.98           |      | 1  | 0.80         | 1.74                | 11/06/25 12:10 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.12          | 0.48           | U    | 1  | 0.48         | 1.98                | 11/06/25 12:10 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U    | 1  | 0.53         | 2.02                | 11/06/25 12:10 | VL110625 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U    | 1  | 0.76         | 1.72                | 11/06/25 12:10 | VL110625 |
| 78-93-3        | 2-Butanone                     | 0.23          | 0.68           | J    | 1  | 0.18         | 1.47                | 11/06/25 12:10 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.090         | 0.57           |      | 1  | 0.19         | 0.19                | 11/06/25 12:10 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.10          | 0.40           | U    | 1  | 0.40         | 1.98                | 11/06/25 12:10 | VL110625 |
| 67-66-3        | Chloroform                     | 0.10          | 0.49           | U    | 1  | 0.49         | 2.44                | 11/06/25 12:10 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 12:10 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.14          | 0.65           | U    | 1  | 0.65         | 2.34                | 11/06/25 12:10 | VL110625 |
| 71-43-2        | Benzene                        | 0.12          | 0.38           | J    | 1  | 0.26         | 1.60                | 11/06/25 12:10 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U    | 1  | 0.36         | 2.02                | 11/06/25 12:10 | VL110625 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 12:10 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.13          | 0.60           | U    | 1  | 0.60         | 2.31                | 11/06/25 12:10 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 0.060         | 0.40           | U    | 1  | 0.40         | 3.35                | 11/06/25 12:10 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.10          | 0.41           | U    | 1  | 0.41         | 2.05                | 11/06/25 12:10 | VL110625 |
| 108-88-3       | Toluene                        | 0.24          | 0.90           | J    | 1  | 0.60         | 1.88                | 11/06/25 12:10 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.15          | 0.68           | U    | 1  | 0.68         | 2.27                | 11/06/25 12:10 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.11          | 0.50           | U    | 1  | 0.50         | 2.27                | 11/06/25 12:10 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.080         | 0.44           | U    | 1  | 0.44         | 2.73                | 11/06/25 12:10 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 0.090         | 0.77           | U    | 1  | 0.77         | 4.26                | 11/06/25 12:10 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 0.090         | 0.69           | U    | 1  | 0.69         | 0.77                | 11/06/25 12:10 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 0.040         | 0.27           |      | 1  | 0.14         | 0.20                | 11/06/25 12:10 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 0.080         | 0.37           | U    | 1  | 0.37         | 2.30                | 11/06/25 12:10 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 0.19          | 0.83           | U    | 1  | 0.83         | 2.17                | 11/06/25 12:10 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 0.41          | 1.78           | U    | 1  | 1.78         | 4.34                | 11/06/25 12:10 | VL110625 |
| 95-47-6        | o-Xylene                       | 0.21          | 0.91           | U    | 1  | 0.91         | 2.17                | 11/06/25 12:10 | VL110625 |
| 100-42-5       | Styrene                        | 0.16          | 0.68           | U    | 1  | 0.68         | 2.13                | 11/06/25 12:10 | VL110625 |
| 75-25-2        | Bromoform                      | 0.050         | 0.52           | U    | 1  | 0.52         | 5.17                | 11/06/25 12:10 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 0.020         | 0.14           | U    | 1  | 0.14         | 0.21                | 11/06/25 12:10 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 0.17          | 0.88           | U    | 1  | 0.88         | 2.59                | 11/06/25 12:10 | VL110625 |

## Report of Analysis

|                    |                   |                 |          |
|--------------------|-------------------|-----------------|----------|
| Client:            | RTP Environmental | Date Collected: | 11/05/25 |
| Project:           | 131 JUNIPER DRIVE | Date Received:  | 11/05/25 |
| Client Sample ID:  | 131-IA2           | SDG No.:        | Q3556    |
| Lab Sample ID:     | Q3556-02          | Matrix:         | Air      |
| Analytical Method: | TO-15             | Test:           | TO-15    |
| Sample Wt/Vol:     | 400 mL            |                 |          |

| CAS Number | Parameter                | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 12:10 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 12:10 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 0.050      | 0.30        | U    | 1  | 0.30      | 3.01             | 11/06/25 12:10 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 12:10 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 12:10 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 0.21       | 1.56        | U    | 1  | 1.56      | 3.71             | 11/06/25 12:10 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 0.13       | 1.39        | U    | 1  | 1.39      | 5.33             | 11/06/25 12:10 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 0.050      | 0.11        | U    | 1  | 0.11      | 1.11             | 11/06/25 12:10 | VL110625 |
| 91-20-3    | Naphthalene              | 0.010      | 0.050       | U    | 1  | 0.050     | 0.52             | 11/06/25 12:10 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 0.21       | 1.03        | U    | 1  | 1.03      | 2.46             | 11/06/25 12:10 | VL110625 |
| 110-54-3   | Hexane                   | 1.00       | 3.52        |      | 1  | 0.56      | 1.76             | 11/06/25 12:10 | VL110625 |
| 107-05-1   | Allyl Chloride           | 0.11       | 0.34        | U    | 1  | 0.34      | 1.57             | 11/06/25 12:10 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 0.22       | 0.79        | U    | 1  | 0.79      | 1.80             | 11/06/25 12:10 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 0.14       | 0.57        | U    | 1  | 0.57      | 2.05             | 11/06/25 12:10 | VL110625 |

### SURROGATES

|          |                         |      |  |               |      |         |
|----------|-------------------------|------|--|---------------|------|---------|
| 460-00-4 | 1-Bromo-4-Fluorobenzene | 10.0 |  | 70 (65) - 130 | 100% | SPK: 10 |
|----------|-------------------------|------|--|---------------|------|---------|

### INTERNAL STANDARDS

|                              | Area Count |
|------------------------------|------------|
| 74-97-5 Bromochloromethane   | 116000     |
| 540-36-3 1,4-Difluorobenzene | 346000     |
| 3114-55-4 Chlorobenzene-d5   | 296000     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043162.D  
Acq On : 06 Nov 2025 12:10  
Operator : SY/MD  
Sample : Q3556-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:20:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                    |                         | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |                         |        |       |          |          |            |          |
| Internal Standards          |                         |        |       |          |          |            |          |
| 1)                          | Bromochloromethane      | 2.790  | 49    | 115682   | 10.000   | ppbv       | 0.00     |
| 33)                         | 1,4-Difluorobenzene     | 3.962  | 114   | 345961   | 10.000   | ppbv       | 0.00     |
| 55)                         | Chlorobenzene-d5        | 8.885  | 117   | 296213   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds |                         |        |       |          |          |            |          |
| 68)                         | 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 230759   | 10.023   | ppbv       | 0.00     |
| Spiked Amount               |                         | 10.000 | Range | 65 - 135 | Recovery | = 100.200% |          |
|                             |                         |        |       |          |          |            |          |
| Target Compounds            |                         |        |       |          |          |            | Qvalue   |
| 2)                          | Dichlorodifluoromethane | 1.502  | 85    | 8022     | 0.488    | ppbv       | 99       |
| 3)                          | Chlorodifluoromethane   | 1.479  | 51    | 4540m    | 0.255    | ppbv       |          |
| 4)                          | Chloromethane           | 1.535  | 50    | 2549     | 0.391    | ppbv       | 96       |
| 9)                          | Propene                 | 1.489  | 41    | 3218     | 0.408    | ppbv #     | 82       |
| 11)                         | Trichlorofluoromethane  | 1.881  | 101   | 4202     | 0.261    | ppbv       | 98       |
| 13)                         | Ethanol                 | 1.725  | 45    | 22891    | 7.842    | ppbv       | 98       |
| 15)                         | Acetone                 | 1.839  | 43    | 43810    | 2.810    | ppbv       | 97       |
| 19)                         | Isopropyl Alcohol       | 1.891  | 45    | 4423     | 0.455    | ppbv #     | 1        |
| 20)                         | Methylene Chloride      | 2.065  | 84    | 3546     | 0.575    | ppbv #     | 78       |
| 26)                         | Hexane                  | 2.836  | 57    | 18626    | 1.045    | ppbv #     | 41       |
| 34)                         | 2-Butanone              | 2.564  | 43    | 5233     | 0.225    | ppbv       | 97       |
| 35)                         | Carbon Tetrachloride    | 3.768  | 117   | 2349m    | 0.094    | ppbv       |          |
| 36)                         | Benzene                 | 3.661  | 78    | 4029     | 0.124    | ppbv #     | 92       |
| 52)                         | Tetrachloroethene       | 8.234  | 164   | 426m     | 0.036    | ppbv       |          |
| 53)                         | Toluene                 | 6.936  | 91    | 9312m    | 0.241    | ppbv       |          |
| 59)                         | m/p-Xylene              | 9.529  | 91    | 4156m    | 0.102    | ppbv       |          |

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

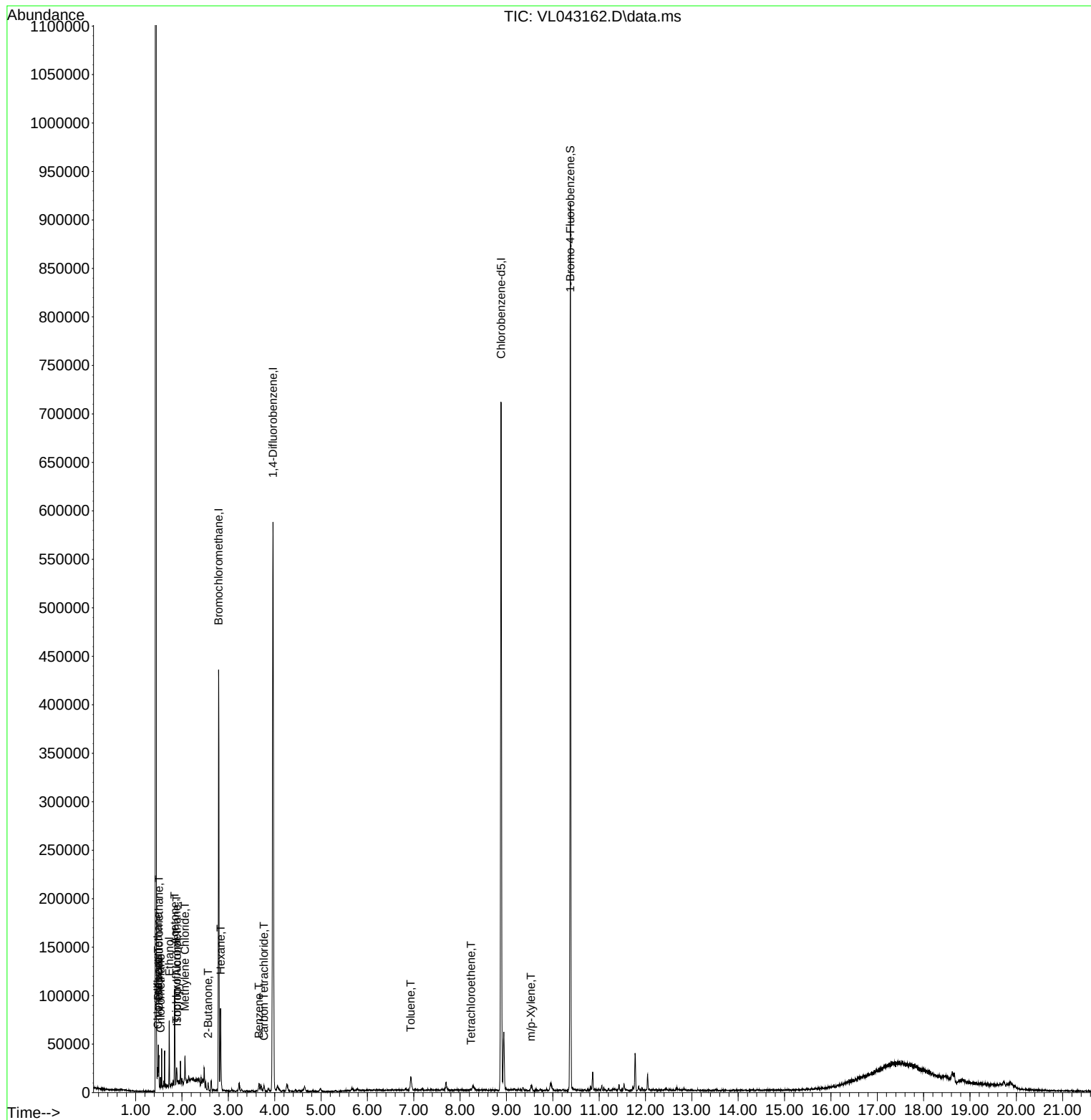
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Data File : VL043162.D  
Acq On : 06 Nov 2025 12:10  
Operator : SY/MD  
Sample : Q3556-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

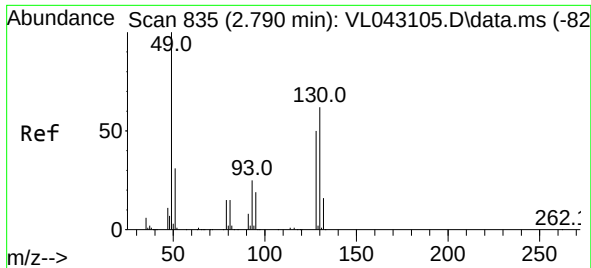
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:20:41 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration





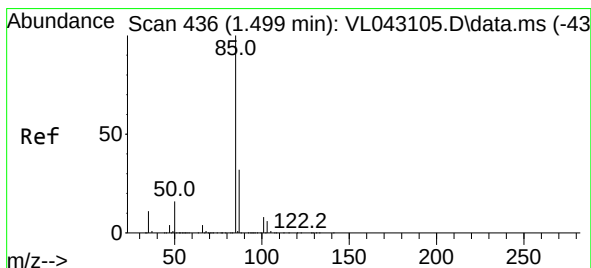
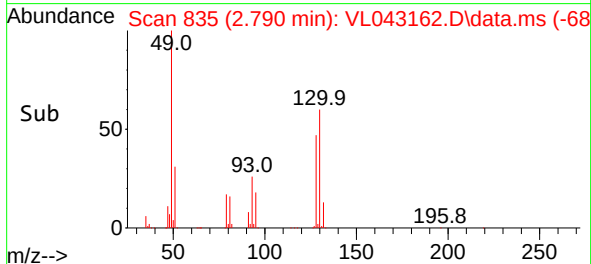
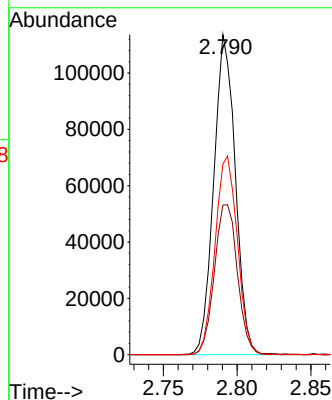
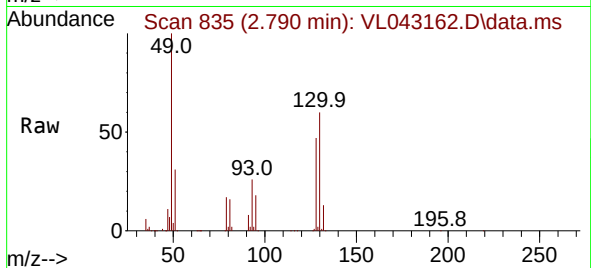
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 49 Resp: 11568  
Ion Ratio Lower Upper  
49 100  
128 50.1 24.4 73.4  
130 64.4 31.0 93.0

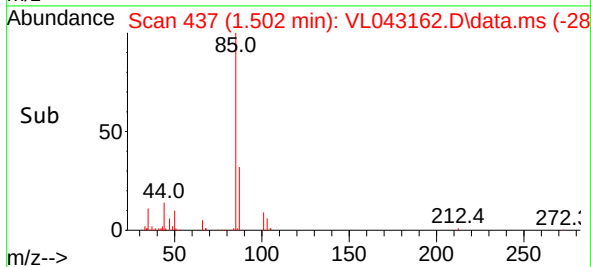
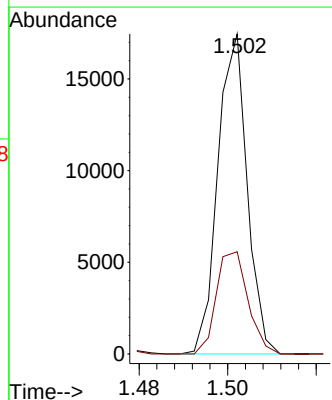
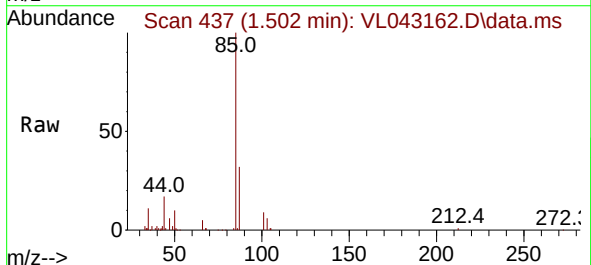
Manual Integrations  
APPROVED

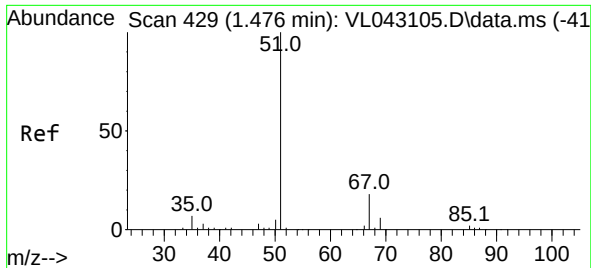
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#2  
Dichlorodifluoromethane  
Concen: 0.488 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 85 Resp: 8022  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.3 37.9





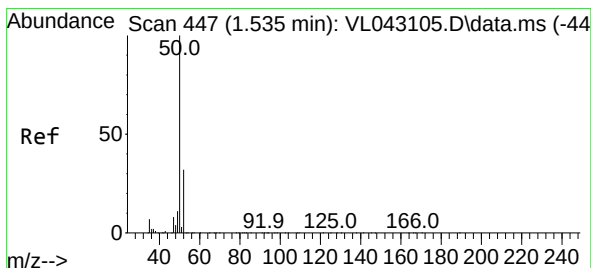
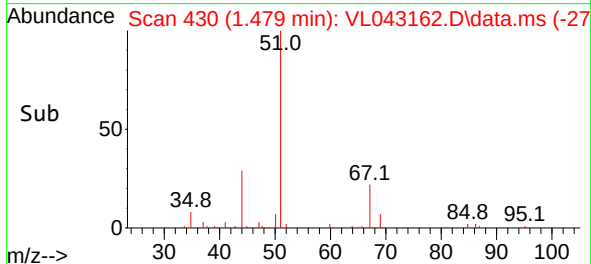
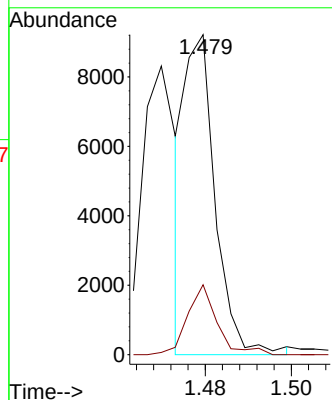
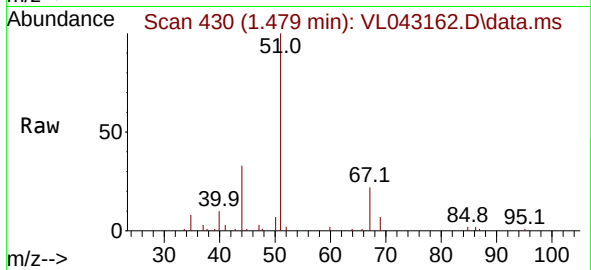
#3  
Chlorodifluoromethane  
Concen: 0.255 ppbv m  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 51 Resp: 4540  
Ion Ratio Lower Upper  
51 100  
67 21.2 15.1 22.7

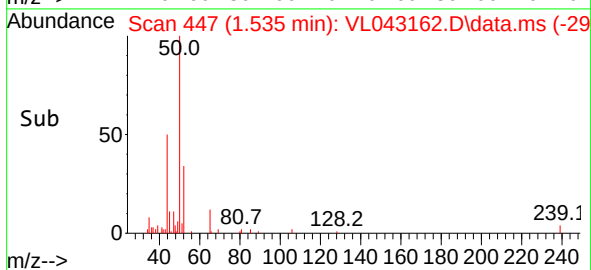
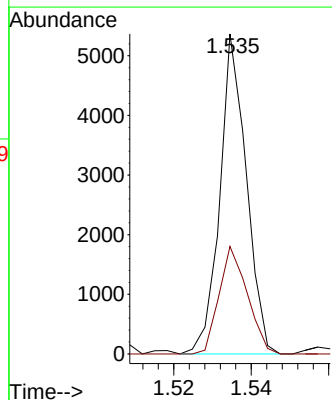
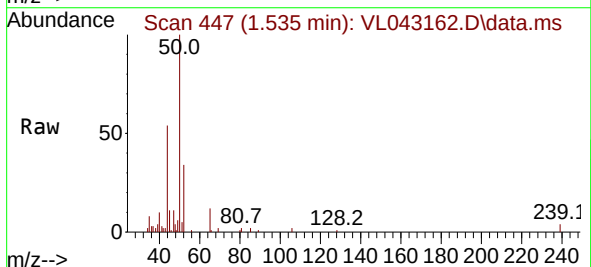
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

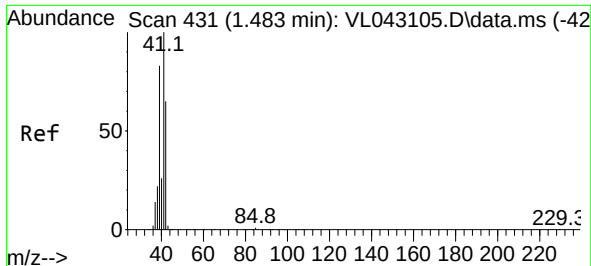


#4  
Chloromethane  
Concen: 0.391 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 50 Resp: 2549  
Ion Ratio Lower Upper  
50 100  
52 33.6 25.2 37.8







#9

Propene

Concen: 0.408 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA\_L

ClientSampleId :

131-IA2

Tgt Ion: 41 Resp: 3218

Ion Ratio Lower Upper

41 100

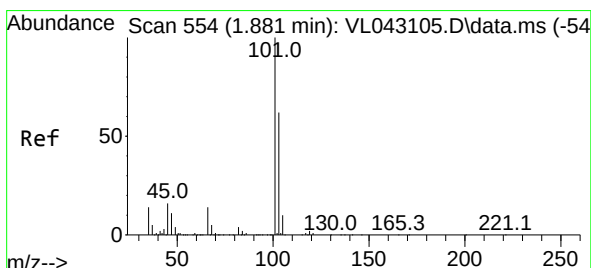
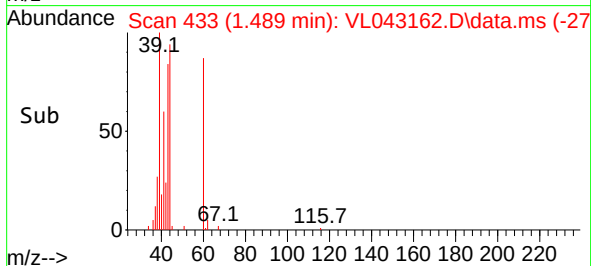
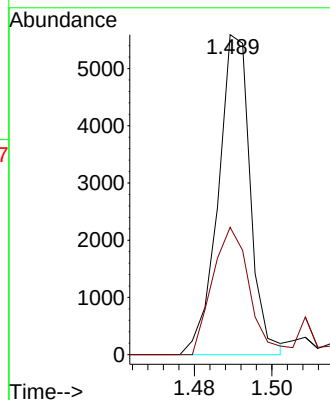
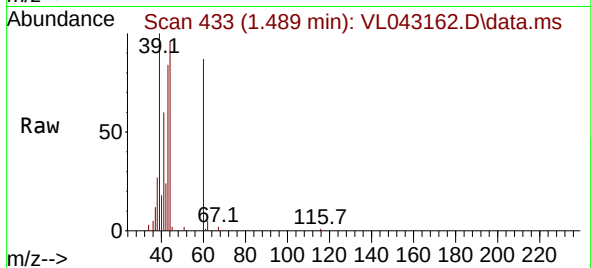
42 54.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043162.D

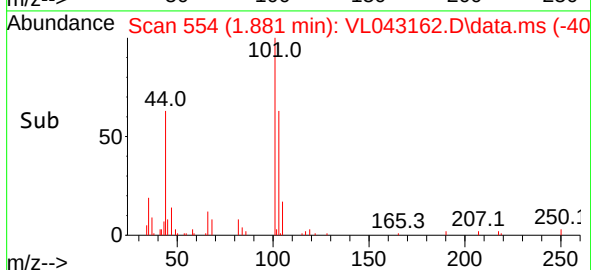
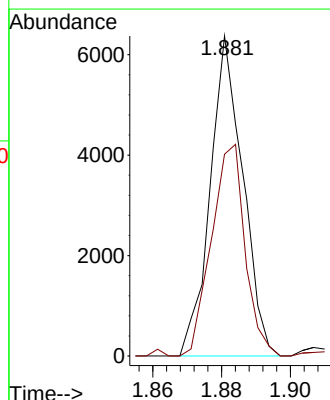
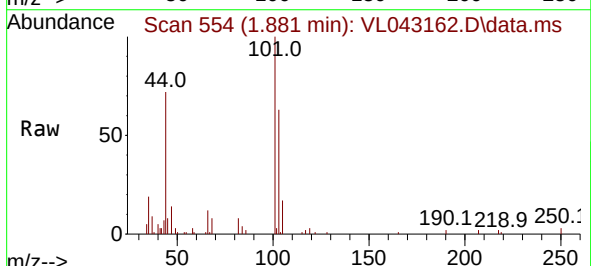
Acq: 06 Nov 2025 12:10

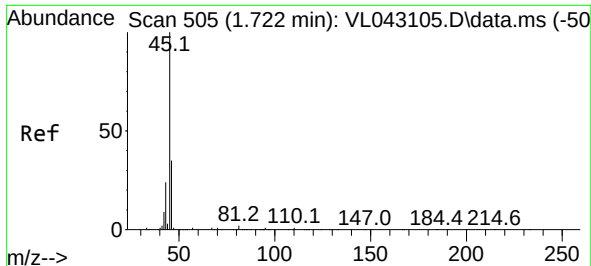
Tgt Ion:101 Resp: 4202

Ion Ratio Lower Upper

101 100

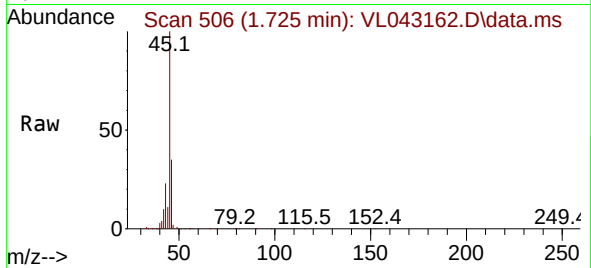
103 63.0 49.3 73.9





#13  
Ethanol  
Concen: 7.842 ppbv  
RT: 1.725 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

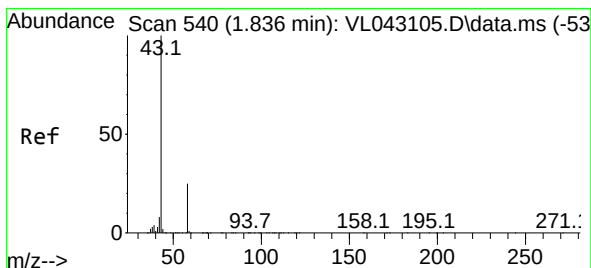
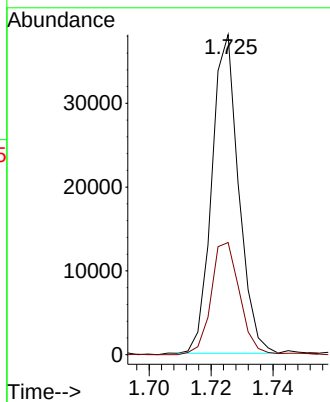
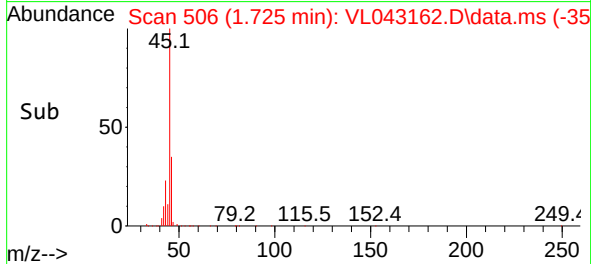
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2



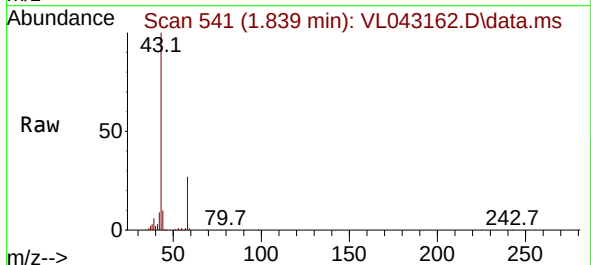
Tgt Ion: 45 Resp: 2289  
Ion Ratio Lower Upper  
45 100  
46 38.0 14.7 58.9

Manual Integrations  
APPROVED

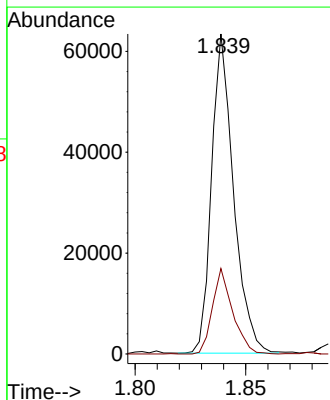
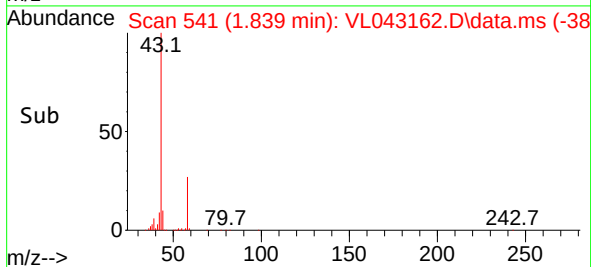
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

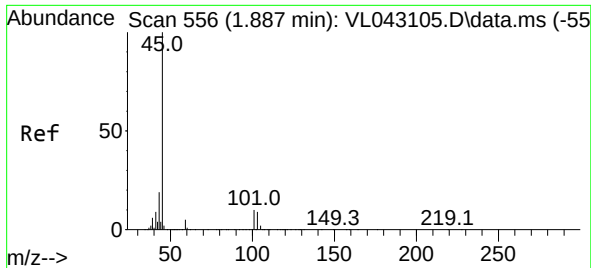


#15  
Acetone  
Concen: 2.810 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10



Tgt Ion: 43 Resp: 43810  
Ion Ratio Lower Upper  
43 100  
58 24.6 20.8 31.2





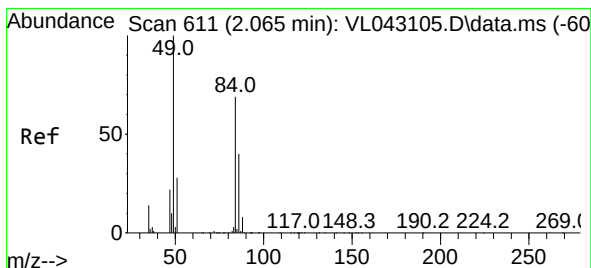
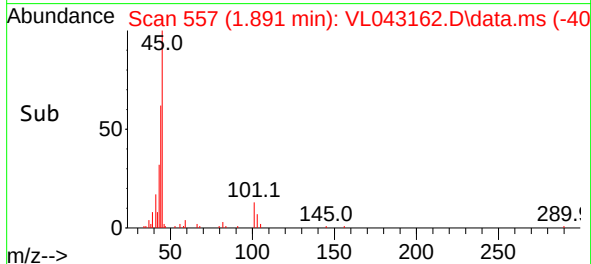
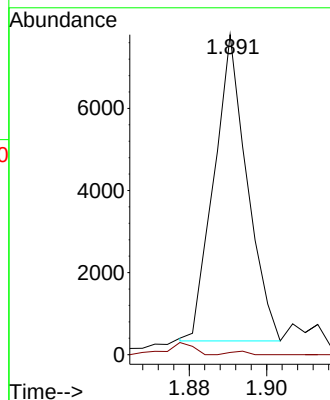
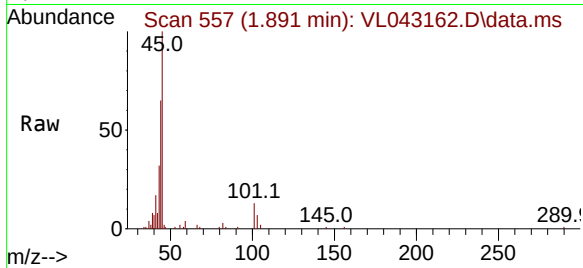
#19  
Isopropyl Alcohol  
Concen: 0.455 ppbv  
RT: 1.891 min Scan# 556  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 45 Resp: 442  
Ion Ratio Lower Upper  
45 100  
58 246.9 31.3 46.9

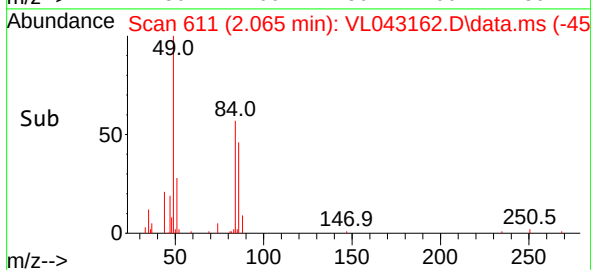
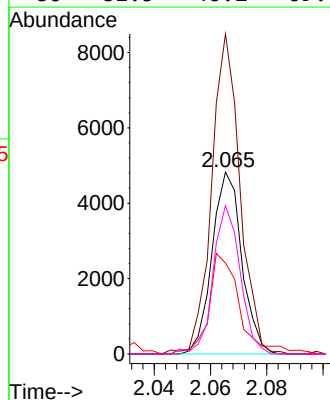
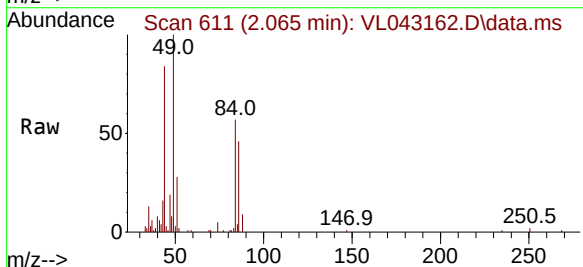
Manual Integrations  
APPROVED

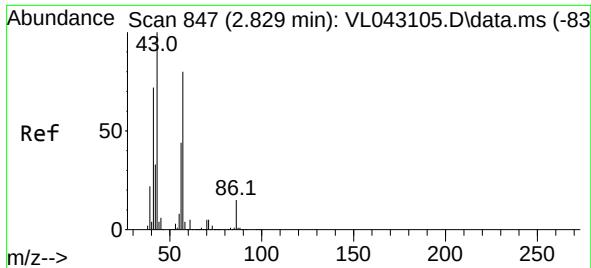
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#20  
Methylene Chloride  
Concen: 0.575 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 84 Resp: 3546  
Ion Ratio Lower Upper  
84 100  
49 174.6 116.6 175.0  
51 47.4 34.8 52.2  
86 81.5 46.2 69.4





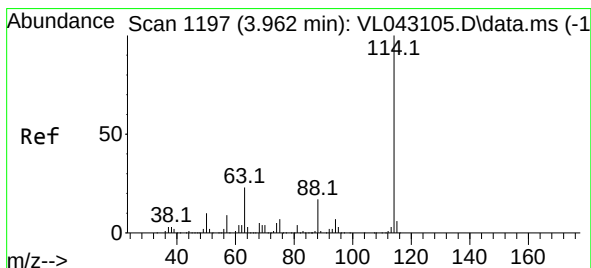
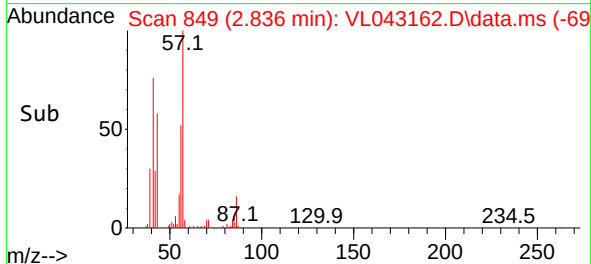
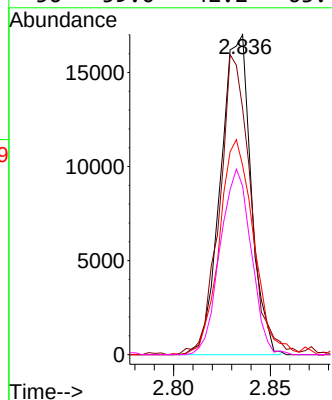
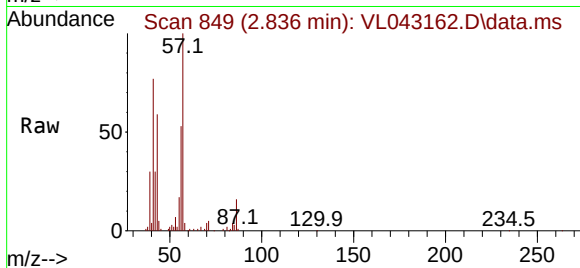
#26  
Hexane  
Concen: 1.045 ppbv  
RT: 2.836 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 57 Resp: 18620  
Ion Ratio Lower Upper  
57 100  
41 96.5 71.4 107.0  
43 76.1 178.5 267.7  
56 59.0 42.2 63.4

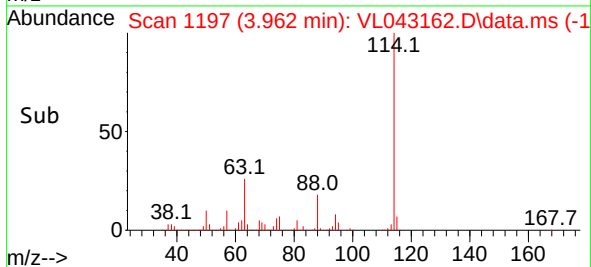
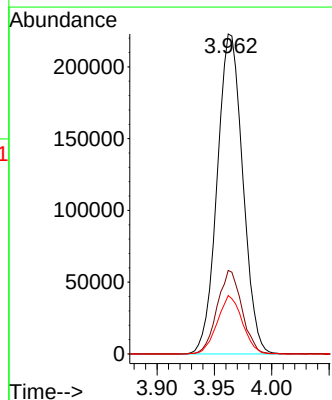
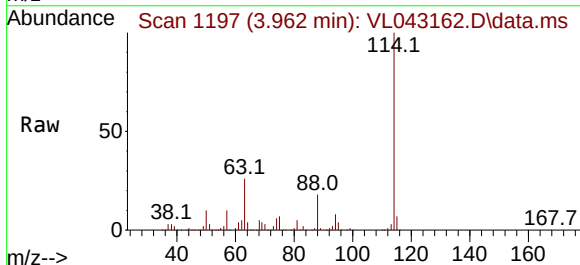
Manual Integrations  
APPROVED

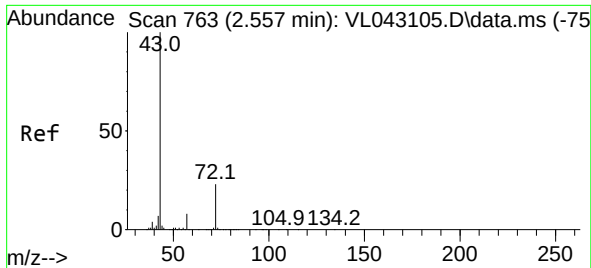
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

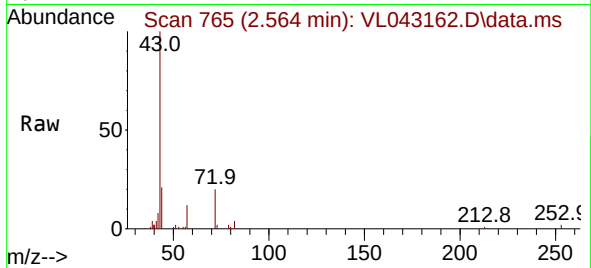
Tgt Ion:114 Resp: 345961  
Ion Ratio Lower Upper  
114 100  
63 25.2 19.3 28.9  
88 17.8 13.9 20.9





#34  
2-Butanone  
Concen: 0.225 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.006 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

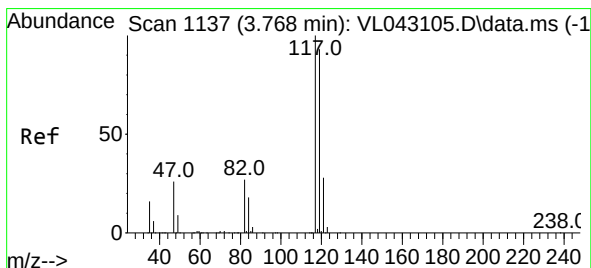
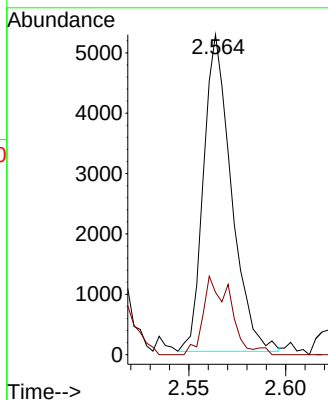
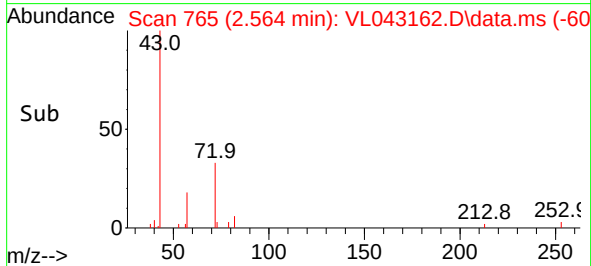
Instrument :  
MSVOA\_L  
Client SampleId :  
131-IA2



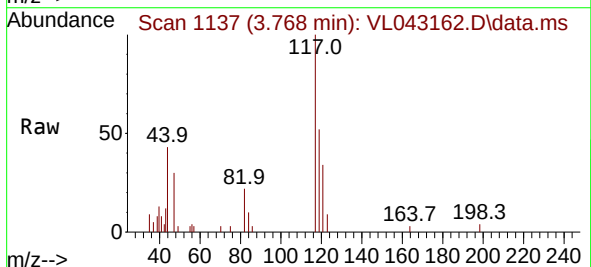
Tgt Ion: 43 Resp: 523  
Ion Ratio Lower Upper  
43 100  
72 24.5 18.4 27.6

Manual Integrations  
APPROVED

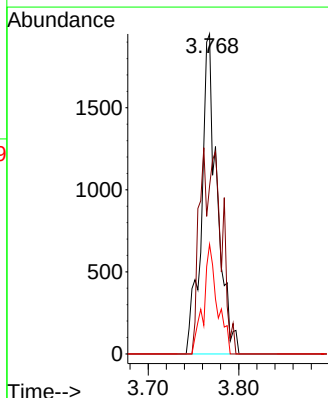
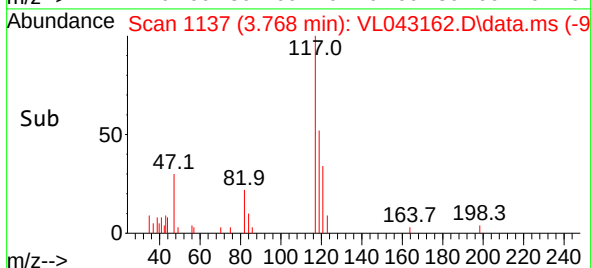
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

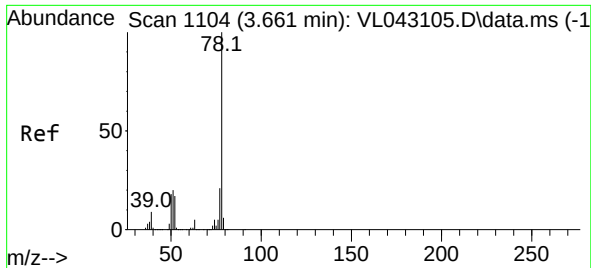


#35  
Carbon Tetrachloride  
Concen: 0.094 ppbv m  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10



Tgt Ion:117 Resp: 2349  
Ion Ratio Lower Upper  
117 100  
119 52.5 74.1 111.1#  
121 34.3 22.2 33.2#





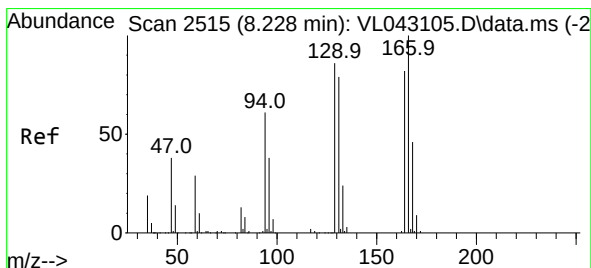
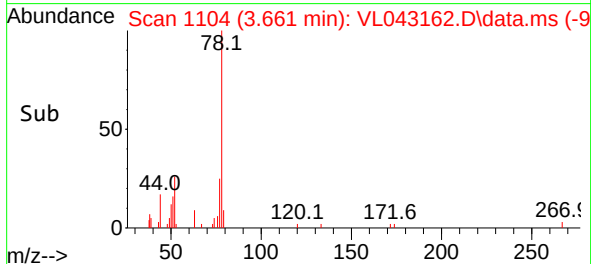
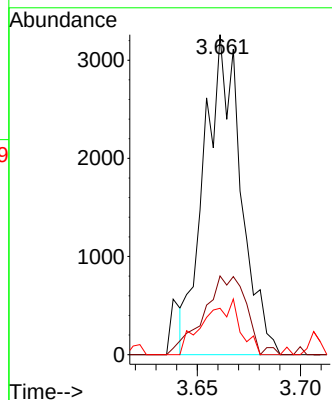
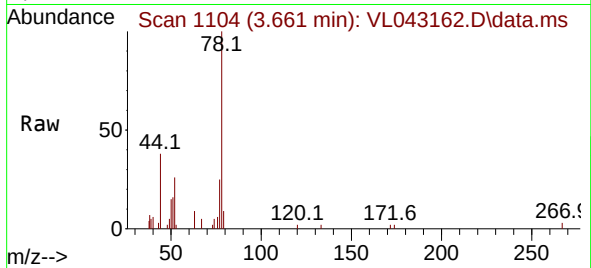
#36  
Benzene  
Concen: 0.124 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 78 Resp: 4029  
Ion Ratio Lower Upper  
78 100  
77 24.6 17.0 25.6  
50 14.5 14.6 22.0

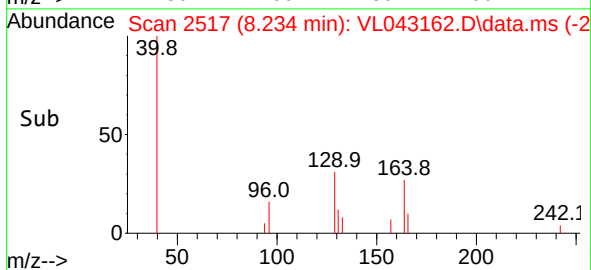
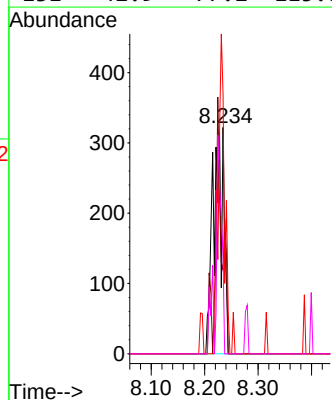
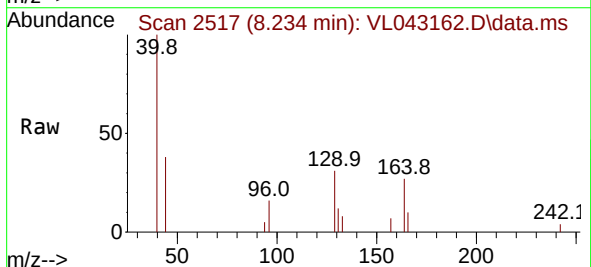
Manual Integrations  
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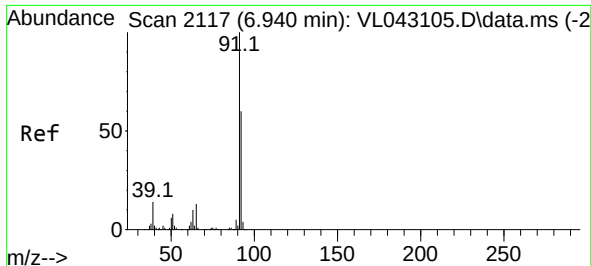
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#52  
Tetrachloroethene  
Concen: 0.036 ppbv m  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.006 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion:164 Resp: 426  
Ion Ratio Lower Upper  
164 100  
166 37.0 97.6 146.4#  
129 114.3 84.5 126.7  
131 42.9 77.2 115.8#





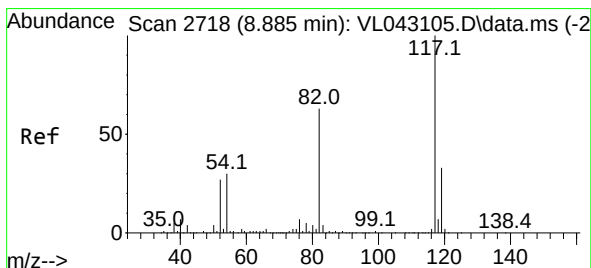
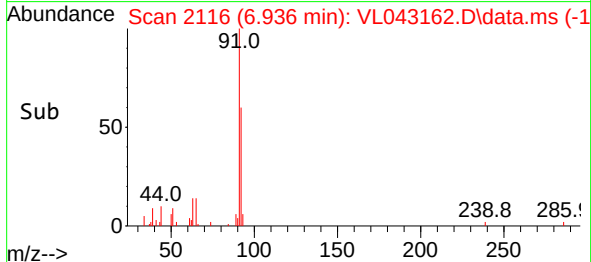
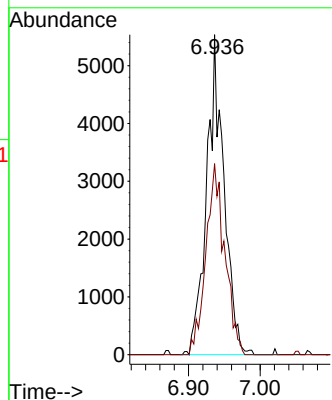
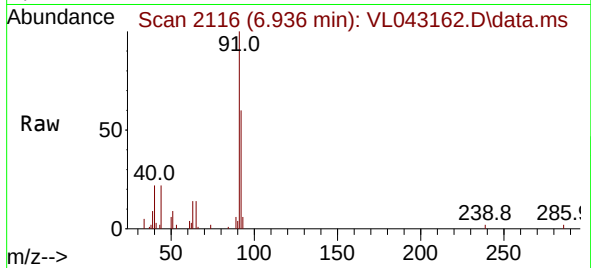
#53  
Toluene  
Concen: 0.241 ppbv m  
RT: 6.936 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 91 Resp: 931  
Ion Ratio Lower Upper  
91 100  
92 65.0 48.8 73.2

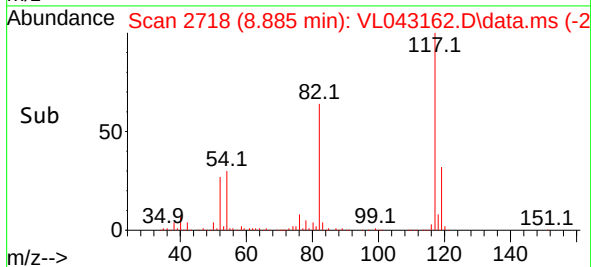
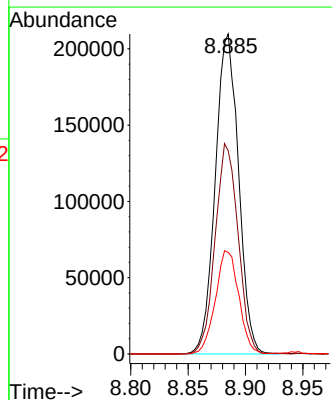
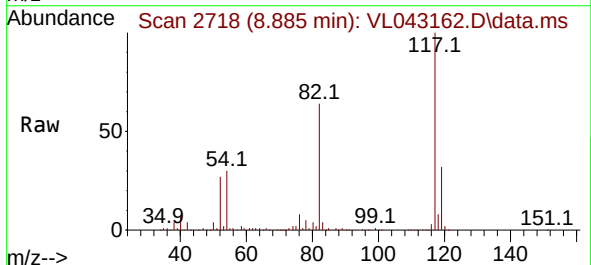
Manual Integrations  
APPROVED

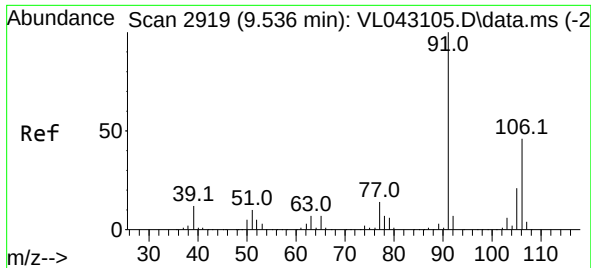
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion:117 Resp: 296213  
Ion Ratio Lower Upper  
117 100  
82 64.9 53.8 80.8  
119 32.4 25.4 38.0





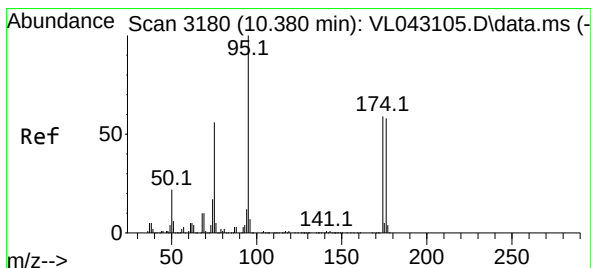
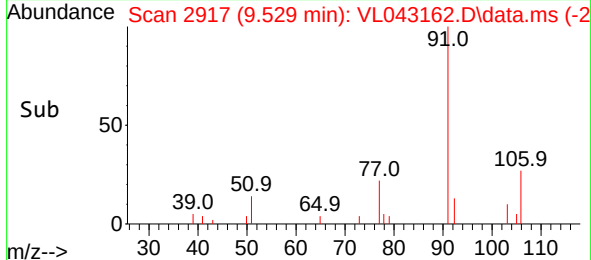
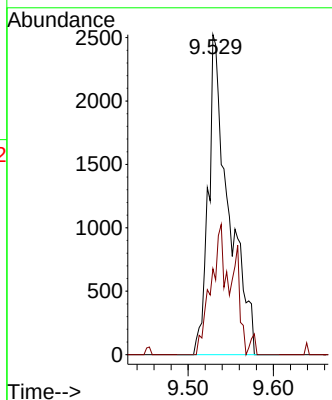
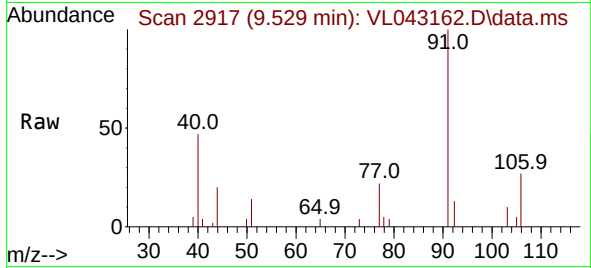
#59  
m/p-Xylene  
Concen: 0.102 ppbv m  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.007 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

Tgt Ion: 91 Resp: 4150  
Ion Ratio Lower Upper  
91 100  
106 44.2 38.0 57.0

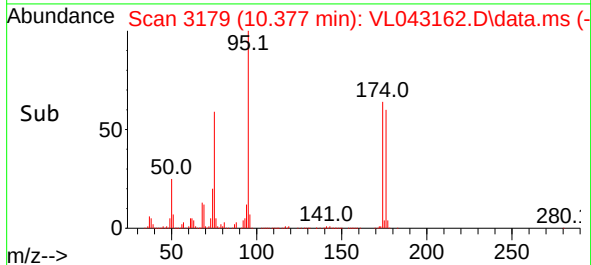
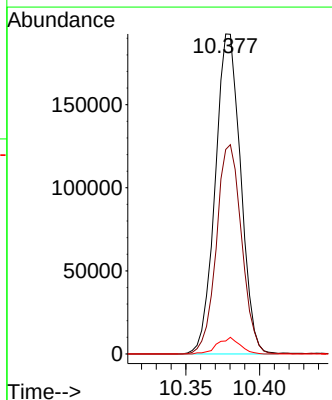
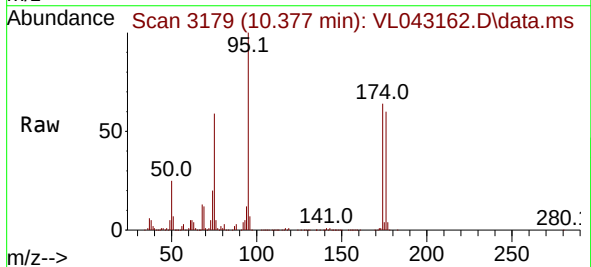
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.023 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 95 Resp: 230759  
Ion Ratio Lower Upper  
95 100  
174 65.1 48.3 72.5  
175 4.6 3.8 5.8





## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 131-SG-1  
Lab Sample ID: Q3556-03  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25  
Date Received: 11/05/25  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| <b>TARGETS</b> |                                |            |             |      |    |           |                  |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 0.49       | 2.42        | J    | 2  | 1.09      | 4.94             | 11/06/25 19:30 | VL110625 |
| 74-87-3        | Chloromethane                  | 0.22       | 0.45        | J    | 2  | 0.41      | 2.07             | 11/06/25 19:30 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 0.050      | 0.13        | U    | 2  | 0.13      | 0.15             | 11/06/25 19:30 | VL110625 |
| 74-83-9        | Bromomethane                   | 0.15       | 0.58        | U    | 2  | 0.58      | 3.88             | 11/06/25 19:30 | VL110625 |
| 75-00-3        | Chloroethane                   | 0.30       | 0.79        | U    | 2  | 0.79      | 2.64             | 11/06/25 19:30 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 0.16       | 0.47        | U    | 2  | 0.47      | 2.95             | 11/06/25 19:30 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 0.34       | 1.91        | U    | 2  | 1.91      | 5.62             | 11/06/25 19:30 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.28       | 2.15        | U    | 2  | 2.15      | 7.66             | 11/06/25 19:30 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.30       | 2.10        | U    | 2  | 2.10      | 6.99             | 11/06/25 19:30 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 0.32       | 0.97        | U    | 2  | 0.97      | 3.03             | 11/06/25 19:30 | VL110625 |
| 142-82-5       | Heptane                        | 0.34       | 1.39        | U    | 2  | 1.39      | 4.10             | 11/06/25 19:30 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 0.30       | 1.19        | U    | 2  | 1.19      | 3.96             | 11/06/25 19:30 | VL110625 |
| 67-64-1        | Acetone                        | 12.4       | 29.5        |      | 2  | 0.86      | 2.38             | 11/06/25 19:30 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 0.16       | 0.50        | U    | 2  | 0.50      | 3.11             | 11/06/25 19:30 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.46       | 1.66        | U    | 2  | 1.66      | 3.61             | 11/06/25 19:30 | VL110625 |
| 75-09-2        | Methylene Chloride             | 2.00       | 6.95        |      | 2  | 1.60      | 3.47             | 11/06/25 19:30 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.24       | 0.95        | U    | 2  | 0.95      | 3.96             | 11/06/25 19:30 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.26       | 1.05        | U    | 2  | 1.05      | 4.05             | 11/06/25 19:30 | VL110625 |
| 110-82-7       | Cyclohexane                    | 0.44       | 1.51        | U    | 2  | 1.51      | 3.44             | 11/06/25 19:30 | VL110625 |
| 78-93-3        | 2-Butanone                     | 1.70       | 5.01        |      | 2  | 0.32      | 2.95             | 11/06/25 19:30 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.070      | 0.44        |      | 2  | 0.31      | 0.38             | 11/06/25 19:30 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.20       | 0.79        | U    | 2  | 0.79      | 3.96             | 11/06/25 19:30 | VL110625 |
| 67-66-3        | Chloroform                     | 2.30       | 11.2        |      | 2  | 0.93      | 4.88             | 11/06/25 19:30 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.030      | 0.16        | U    | 2  | 0.16      | 0.33             | 11/06/25 19:30 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.28       | 1.31        | U    | 2  | 1.31      | 4.67             | 11/06/25 19:30 | VL110625 |
| 71-43-2        | Benzene                        | 0.16       | 0.51        | U    | 2  | 0.51      | 3.19             | 11/06/25 19:30 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.19       | 0.77        | U    | 2  | 0.77      | 4.05             | 11/06/25 19:30 | VL110625 |
| 79-01-6        | Trichloroethene                | 0.050      | 0.27        | U    | 2  | 0.27      | 0.32             | 11/06/25 19:30 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.26       | 1.20        | U    | 2  | 1.20      | 4.62             | 11/06/25 19:30 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 0.13       | 0.87        | U    | 2  | 0.87      | 6.70             | 11/06/25 19:30 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.19       | 0.78        | U    | 2  | 0.78      | 4.10             | 11/06/25 19:30 | VL110625 |
| 108-88-3       | Toluene                        | 0.32       | 1.21        | U    | 2  | 1.21      | 3.77             | 11/06/25 19:30 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.30       | 1.36        | U    | 2  | 1.36      | 4.54             | 11/06/25 19:30 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.22       | 1.00        | U    | 2  | 1.00      | 4.54             | 11/06/25 19:30 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.16       | 0.87        | U    | 2  | 0.87      | 5.46             | 11/06/25 19:30 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 0.17       | 1.45        | U    | 2  | 1.45      | 8.52             | 11/06/25 19:30 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 0.17       | 1.31        | U    | 2  | 1.31      | 1.54             | 11/06/25 19:30 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 0.91       | 6.17        |      | 2  | 0.20      | 0.41             | 11/06/25 19:30 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 0.15       | 0.69        | U    | 2  | 0.69      | 4.61             | 11/06/25 19:30 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 0.38       | 1.65        | U    | 2  | 1.65      | 4.34             | 11/06/25 19:30 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 0.82       | 3.56        | U    | 2  | 3.56      | 8.69             | 11/06/25 19:30 | VL110625 |
| 95-47-6        | o-Xylene                       | 0.42       | 1.82        | U    | 2  | 1.82      | 4.34             | 11/06/25 19:30 | VL110625 |
| 100-42-5       | Styrene                        | 0.32       | 1.36        | U    | 2  | 1.36      | 4.26             | 11/06/25 19:30 | VL110625 |
| 75-25-2        | Bromoform                      | 0.10       | 1.03        | U    | 2  | 1.03      | 10.3             | 11/06/25 19:30 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 0.040      | 0.27        | U    | 2  | 0.27      | 0.41             | 11/06/25 19:30 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 0.34       | 1.76        | U    | 2  | 1.76      | 5.18             | 11/06/25 19:30 | VL110625 |

## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 131-SG-1  
Lab Sample ID: Q3556-03  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25  
Date Received: 11/05/25  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number | Parameter                | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 0.36       | 1.77        | U    | 2  | 1.77      | 4.92             | 11/06/25 19:30 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 0.36       | 1.77        | U    | 2  | 1.77      | 4.92             | 11/06/25 19:30 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 0.11       | 0.66        | U    | 2  | 0.66      | 6.01             | 11/06/25 19:30 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 0.26       | 1.56        | U    | 2  | 1.56      | 6.01             | 11/06/25 19:30 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 0.26       | 1.56        | U    | 2  | 1.56      | 6.01             | 11/06/25 19:30 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 0.42       | 3.12        | U    | 2  | 3.12      | 7.42             | 11/06/25 19:30 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 0.26       | 2.77        | U    | 2  | 2.77      | 10.7             | 11/06/25 19:30 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 0.10       | 0.22        | U    | 2  | 0.22      | 2.21             | 11/06/25 19:30 | VL110625 |
| 91-20-3    | Naphthalene              | 0.030      | 0.16        | U    | 2  | 0.16      | 1.05             | 11/06/25 19:30 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 0.42       | 2.06        | U    | 2  | 2.06      | 4.92             | 11/06/25 19:30 | VL110625 |
| 110-54-3   | Hexane                   | 0.87       | 3.07        | J    | 2  | 1.13      | 3.52             | 11/06/25 19:30 | VL110625 |
| 107-05-1   | Allyl Chloride           | 0.22       | 0.69        | U    | 2  | 0.69      | 3.13             | 11/06/25 19:30 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 0.44       | 1.59        | U    | 2  | 1.59      | 3.60             | 11/06/25 19:30 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 0.28       | 1.15        | U    | 2  | 1.15      | 4.09             | 11/06/25 19:30 | VL110625 |

### SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.0 70 (65) - 130 100% SPK: 10

### INTERNAL STANDARDS

Area Count  
74-97-5 Bromochloromethane 128000  
540-36-3 1,4-Difluorobenzene 354000  
3114-55-4 Chlorobenzene-d5 299000

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043175.D  
Acq On : 06 Nov 2025 19:30  
Operator : SY/MD  
Sample : Q3556-03 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:27:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Bromochloromethane       | 2.784     | 49    | 127539   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.952     | 114   | 353509   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5        | 8.872     | 117   | 299020   | 10.000   | ppbv       | -0.01    |
| System Monitoring Compounds |           |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.371    | 95    | 232369   | 9.998    | ppbv       | 0.00     |
| Spiked Amount               | 10.000    | Range | 65 - 135 | Recovery | = 100.000% |          |
| Target Compounds            |           |       |          |          |            |          |
|                             |           |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane  | 1.499     | 85    | 4484     | 0.247    | ppbv       | # 74     |
| 3) Chlorodifluoromethane    | 1.476     | 51    | 2729m    | 0.139    | ppbv       |          |
| 4) Chloromethane            | 1.531     | 50    | 787      | 0.110    | ppbv       | # 72     |
| 9) Propene                  | 1.483     | 41    | 3194m    | 0.367    | ppbv       |          |
| 11) Trichlorofluoromethane  | 1.878     | 101   | 2510     | 0.142    | ppbv       | 94       |
| 13) Ethanol                 | 1.719     | 45    | 46750    | 14.526   | ppbv       | 97       |
| 15) Acetone                 | 1.832     | 43    | 106525   | 6.197    | ppbv       | 97       |
| 17) tert-Butyl alcohol      | 2.040     | 59    | 2540     | 0.108    | ppbv       | # 85     |
| 19) Isopropyl Alcohol       | 1.884     | 45    | 4232     | 0.395    | ppbv       | # 1      |
| 20) Methylene Chloride      | 2.059     | 84    | 6903     | 1.016    | ppbv       | 91       |
| 26) Hexane                  | 2.823     | 57    | 8524     | 0.434    | ppbv       | # 41     |
| 29) Chloroform              | 2.842     | 83    | 33102    | 1.163    | ppbv       | 98       |
| 34) 2-Butanone              | 2.554     | 43    | 20168    | 0.849    | ppbv       | 99       |
| 35) Carbon Tetrachloride    | 3.758     | 117   | 875m     | 0.034    | ppbv       |          |
| 52) Tetrachloroethene       | 8.212     | 164   | 5458m    | 0.455    | ppbv       |          |

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

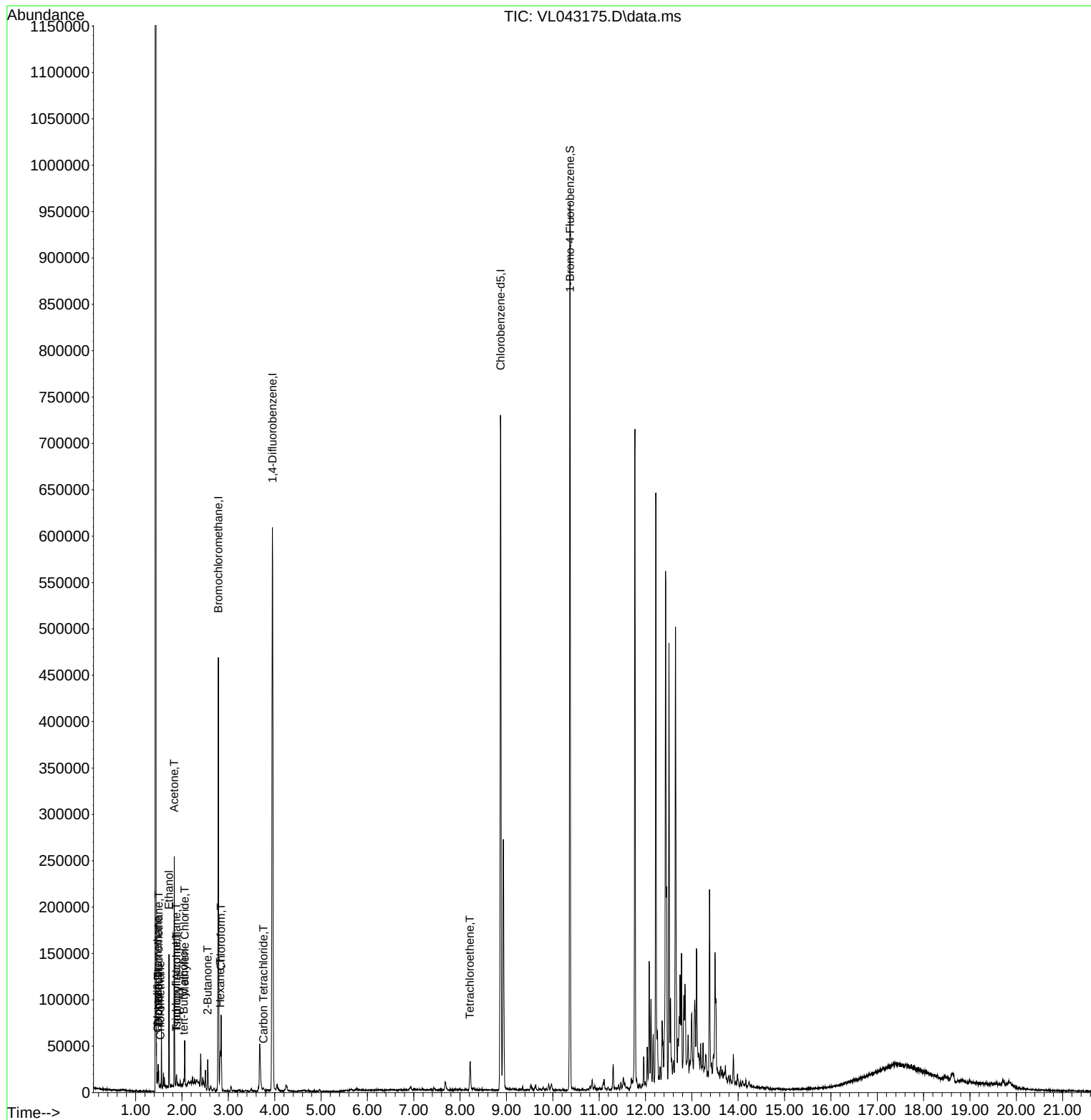
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043175.D  
Acq On : 06 Nov 2025 19:30  
Operator : SY/MD  
Sample : Q3556-03 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

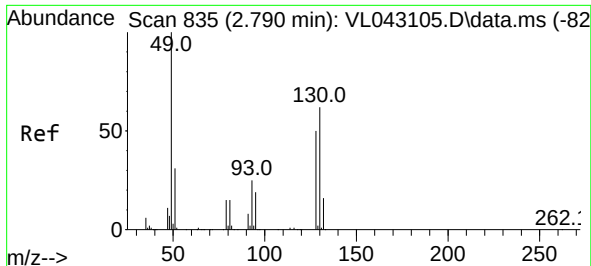
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Quant Time: Nov 07 00:27:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
Supervised By : Mahesh Dadoda 11/10/2025





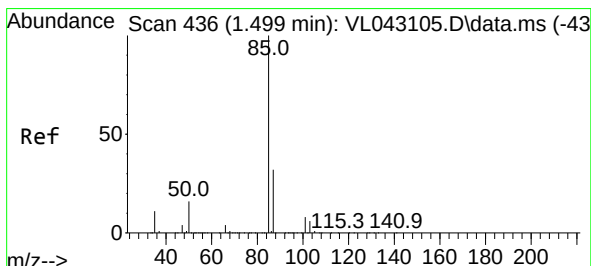
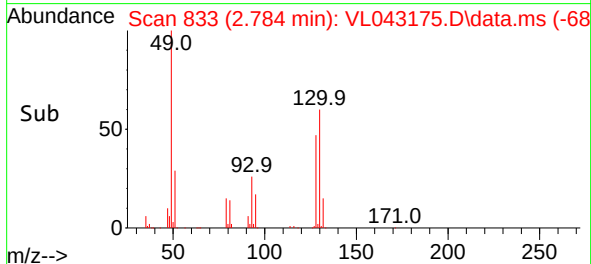
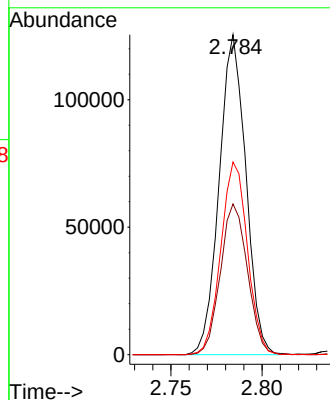
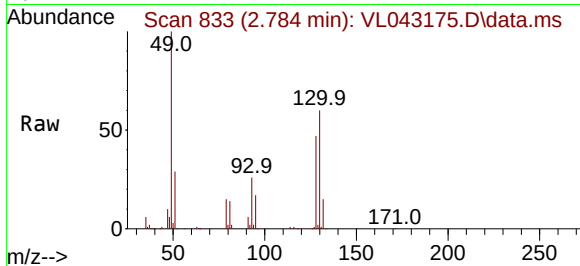
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Tgt Ion: 49 Resp: 127539  
Ion Ratio Lower Upper  
49 100  
128 48.0 24.4 73.4  
130 60.1 31.0 93.0

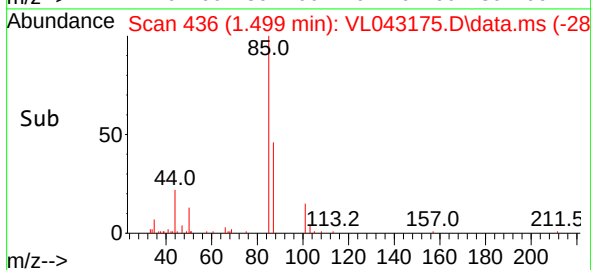
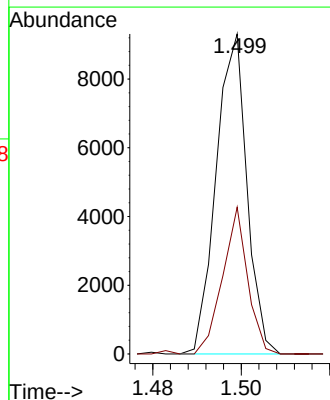
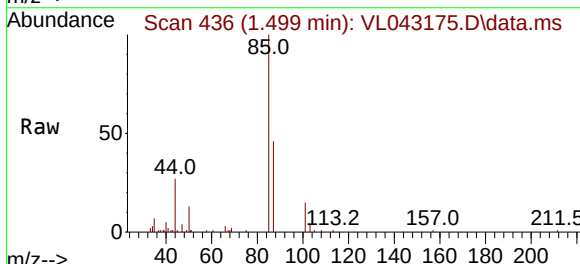
Manual Integrations  
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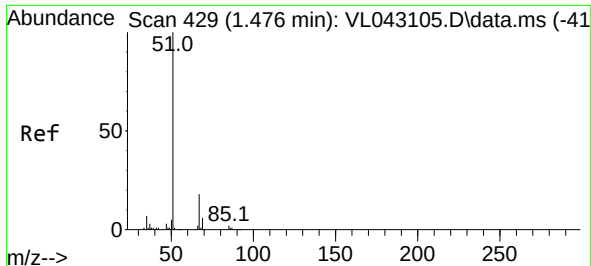
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#2  
Dichlorodifluoromethane  
Concen: 0.247 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 85 Resp: 4484  
Ion Ratio Lower Upper  
85 100  
87 45.9 25.3 37.9





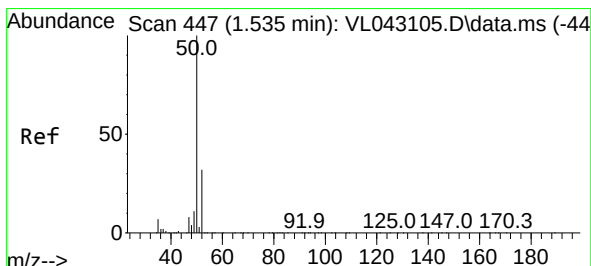
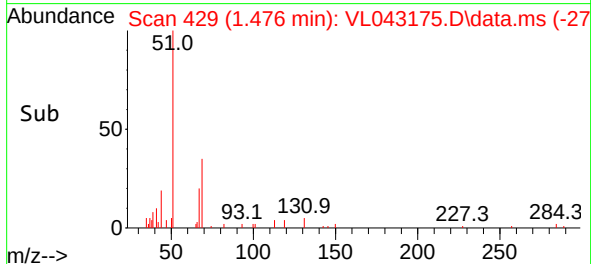
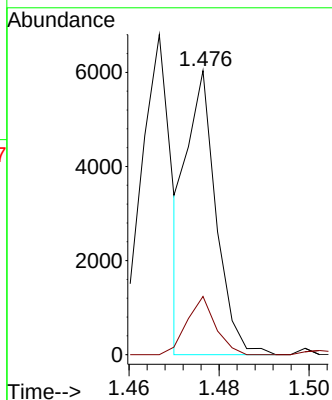
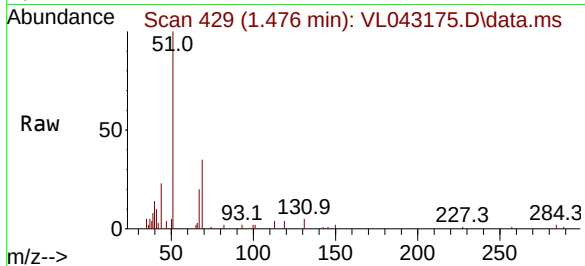
#3  
Chlorodifluoromethane  
Concen: 0.139 ppbv m  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Tgt Ion: 51 Resp: 2729  
Ion Ratio Lower Upper  
51 100  
67 21.5 15.1 22.7

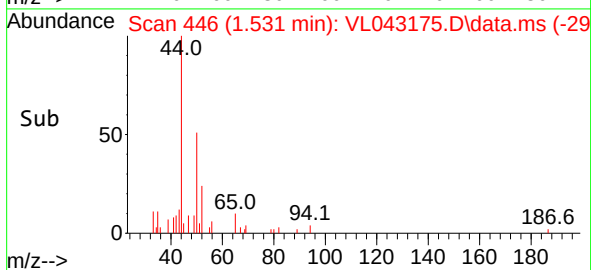
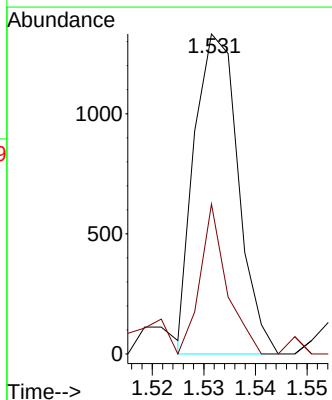
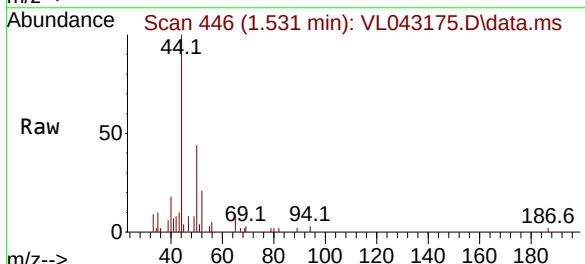
Manual Integrations  
APPROVED

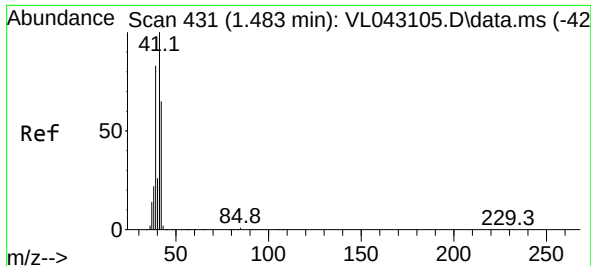
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#4  
Chloromethane  
Concen: 0.110 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.003 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 50 Resp: 787  
Ion Ratio Lower Upper  
50 100  
52 46.8 25.2 37.8#





#9

Propene

Concen: 0.367 ppbv m

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

Instrument :

MSVOA\_L

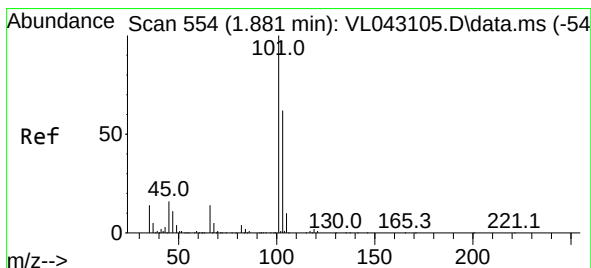
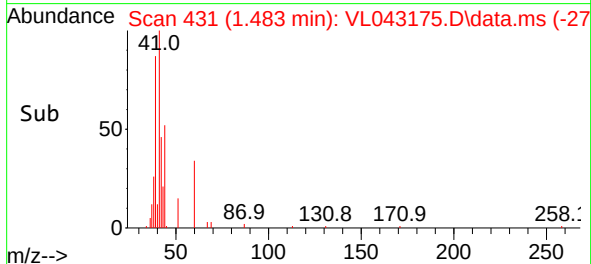
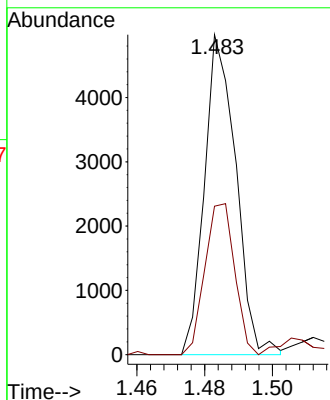
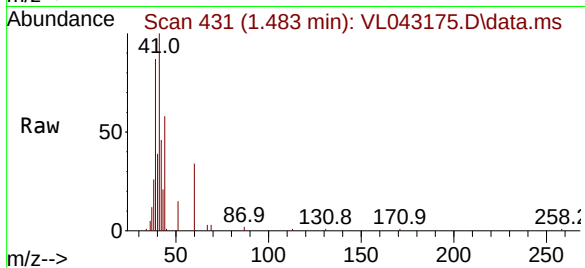
ClientSampleId :

131-SG-1

Tgt Ion: 41 Resp: 3194  
 Ion Ratio Lower Upper  
 41 100  
 42 25.0 55.1 82.7

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#11

Trichlorofluoromethane

Concen: 0.142 ppbv

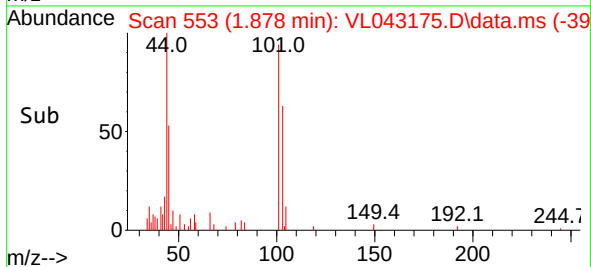
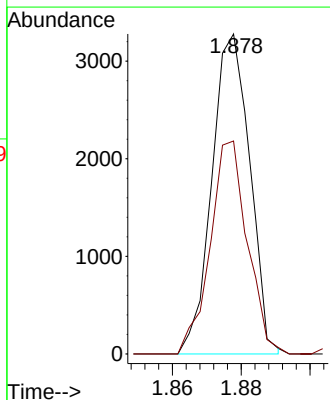
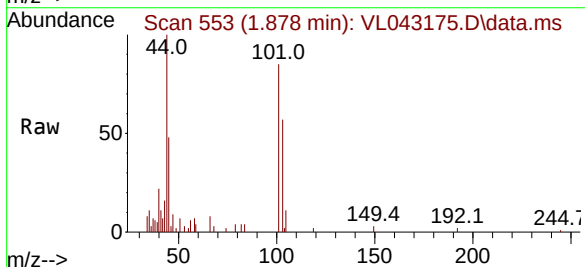
RT: 1.878 min Scan# 553

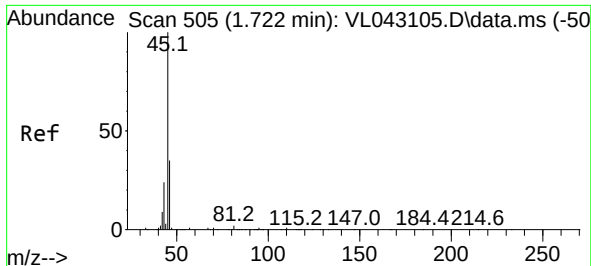
Delta R.T. -0.003 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

Tgt Ion:101 Resp: 2510  
 Ion Ratio Lower Upper  
 101 100  
 103 66.5 49.3 73.9





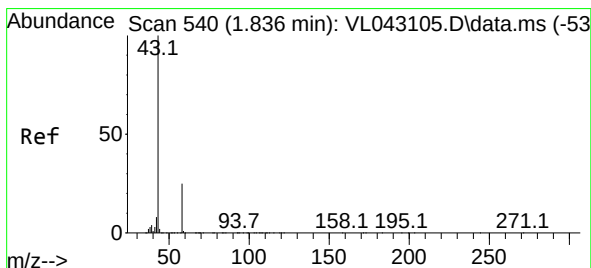
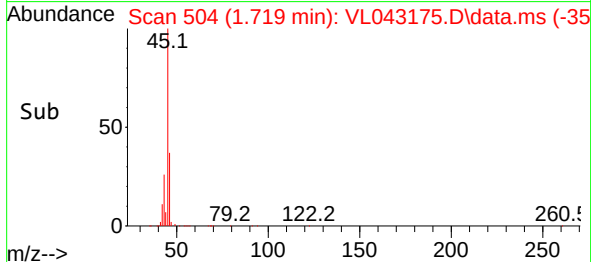
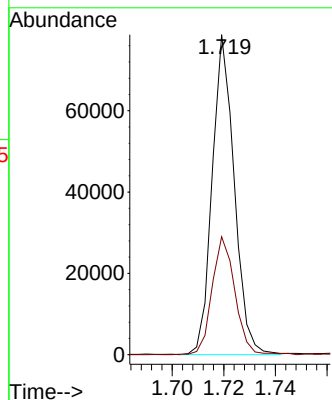
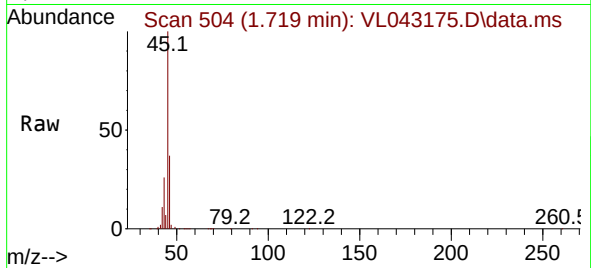
#13  
Ethanol  
Concen: 14.526 ppbv  
RT: 1.719 min Scan# 505  
Delta R.T. -0.003 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Tgt Ion: 45 Resp: 46750  
Ion Ratio Lower Upper  
45 100  
46 38.5 14.7 58.9

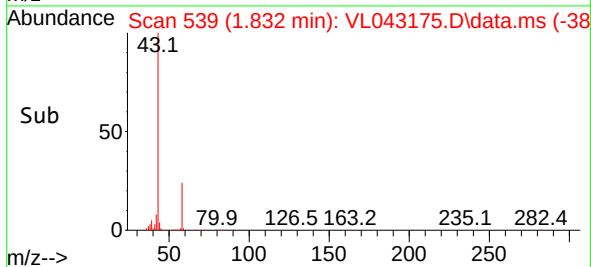
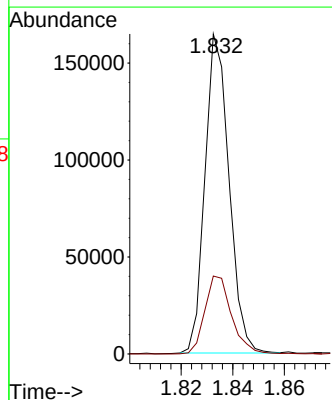
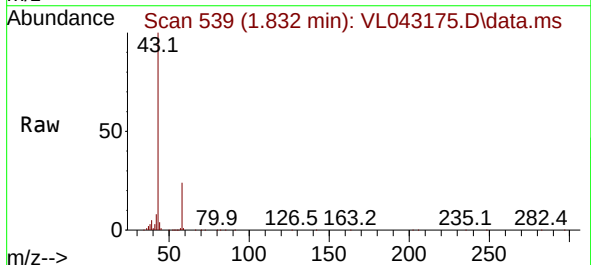
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Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

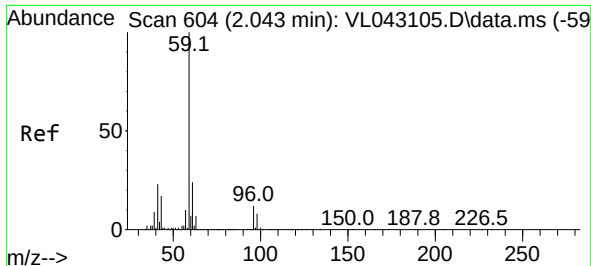


#15  
Acetone  
Concen: 6.197 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. -0.003 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 43 Resp: 106525  
Ion Ratio Lower Upper  
43 100  
58 27.4 20.8 31.2







#17

tert-Butyl alcohol

Concen: 0.108 ppbv

RT: 2.040 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

Instrument :

MSVOA\_L

ClientSampleId :

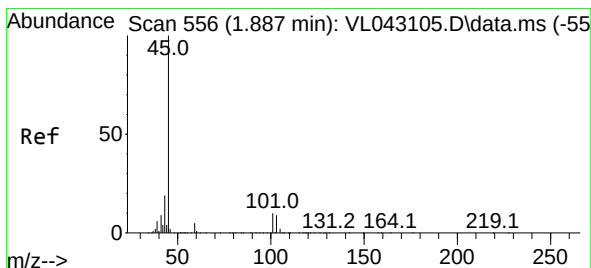
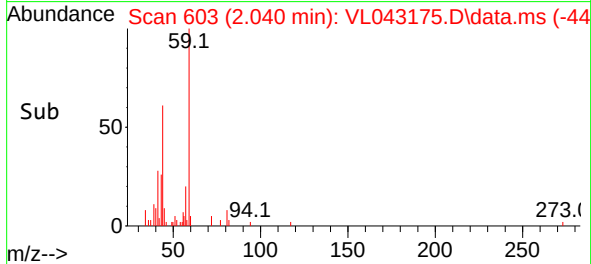
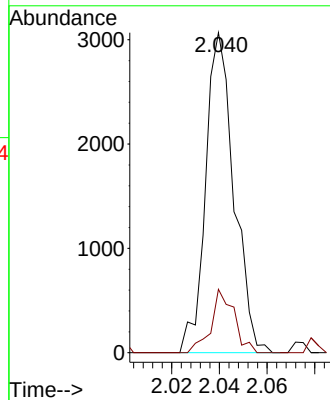
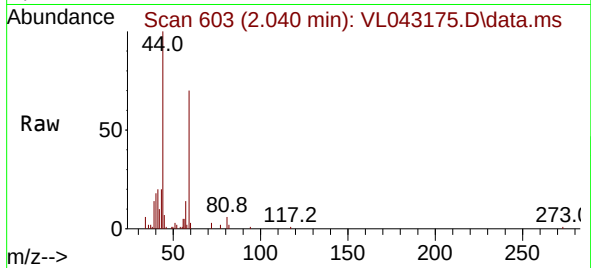
131-SG-1

Tgt Ion: 59 Resp: 2540  
 Ion Ratio Lower Upper  
 59 100  
 57 15.9 8.2 12.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#19

Isopropyl Alcohol

Concen: 0.395 ppbv

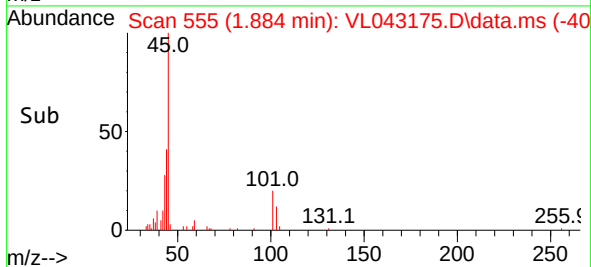
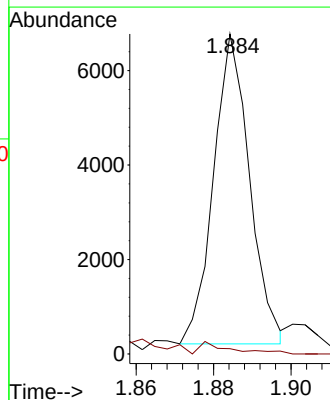
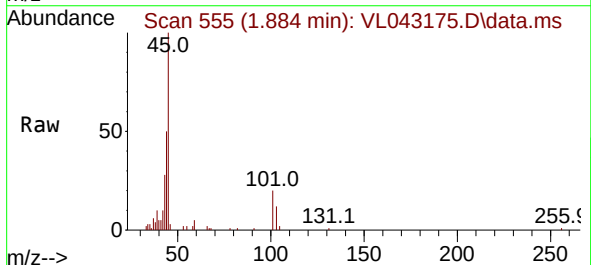
RT: 1.884 min Scan# 555

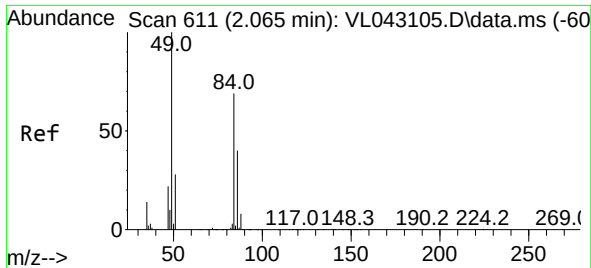
Delta R.T. -0.003 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

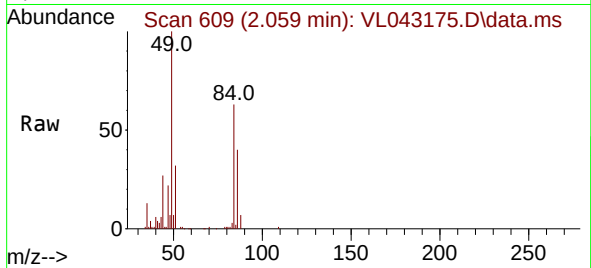
Tgt Ion: 45 Resp: 4232  
 Ion Ratio Lower Upper  
 45 100  
 58 689.4 31.3 46.9





#20  
Methylene Chloride  
Concen: 1.016 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

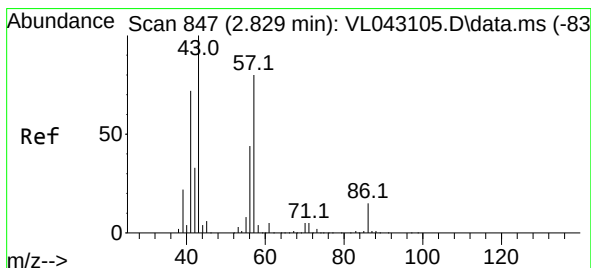
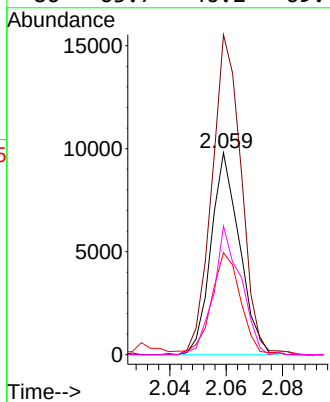
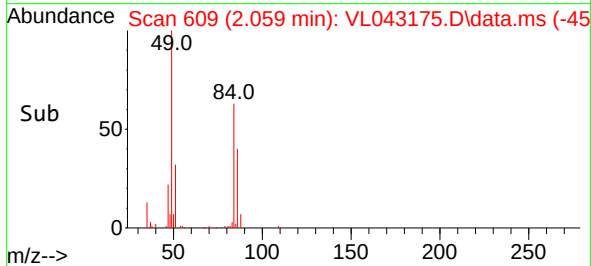
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 690   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 158.5 | 116.6 | 175.0 |
| 51       | 49.2  | 34.8  | 52.2  |
| 86       | 63.7  | 46.2  | 69.4  |

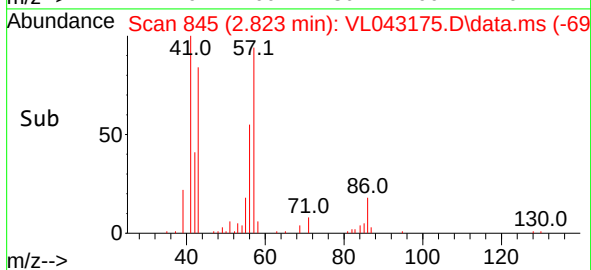
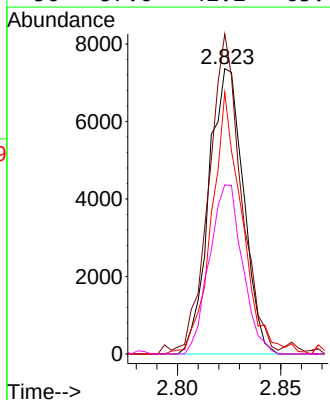
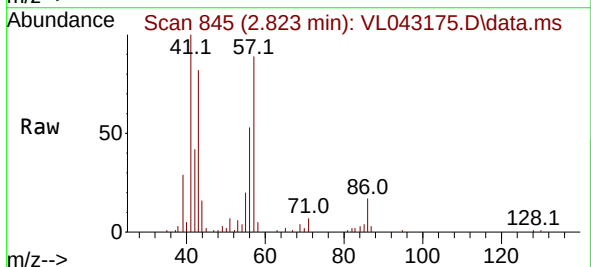
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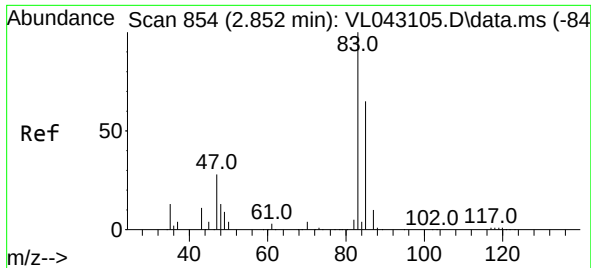
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#26  
Hexane  
Concen: 0.434 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 8524   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 110.2 | 71.4  | 107.0# |
| 43       | 82.9  | 178.5 | 267.7# |
| 56       | 57.6  | 42.2  | 63.4   |





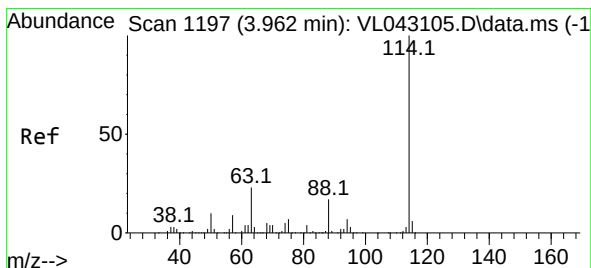
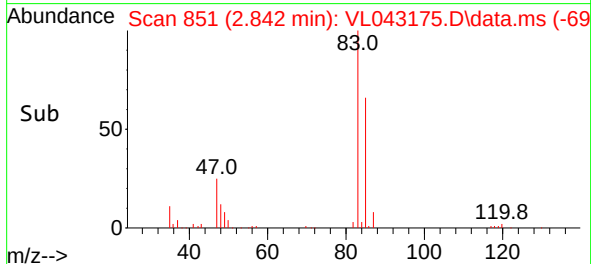
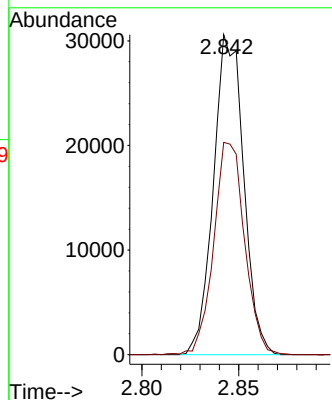
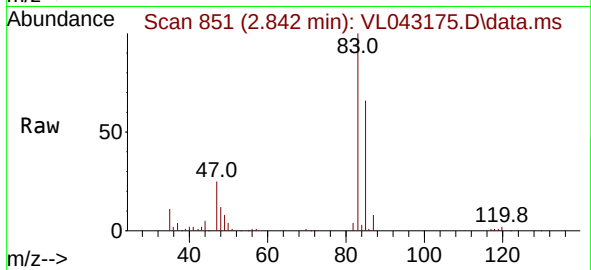
#29  
Chloroform  
Concen: 1.163 ppbv  
RT: 2.842 min Scan# 81  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Tgt Ion: 83 Resp: 3310  
Ion Ratio Lower Upper  
83 100  
85 66.1 51.8 77.6

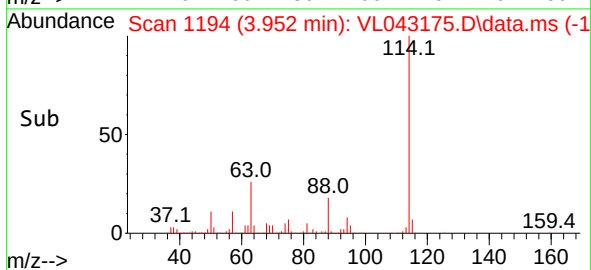
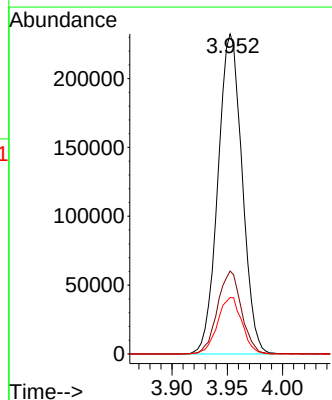
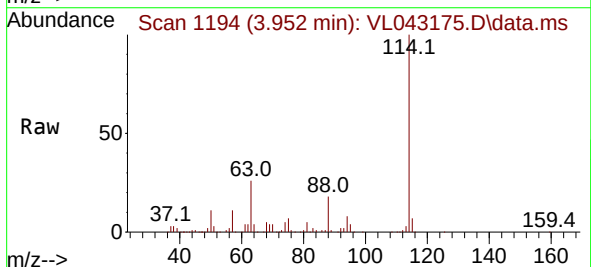
Manual Integrations  
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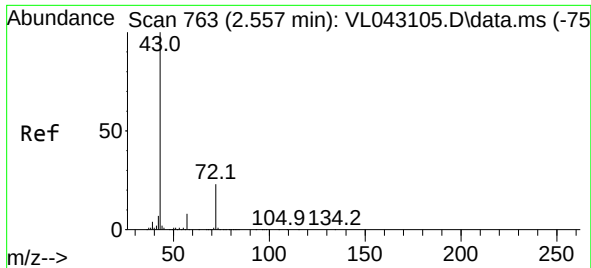
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

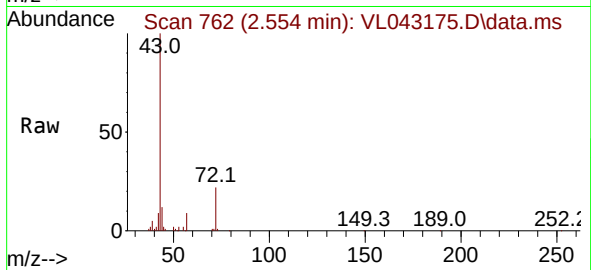
Tgt Ion:114 Resp: 353509  
Ion Ratio Lower Upper  
114 100  
63 25.7 19.3 28.9  
88 17.8 13.9 20.9





#34  
2-Butanone  
Concen: 0.849 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. -0.003 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

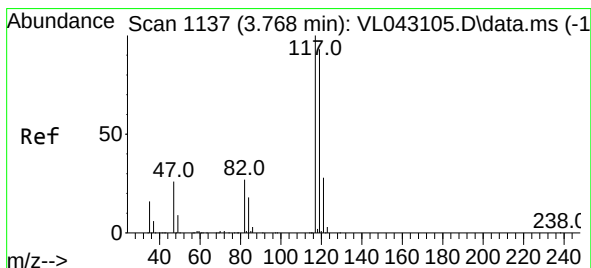
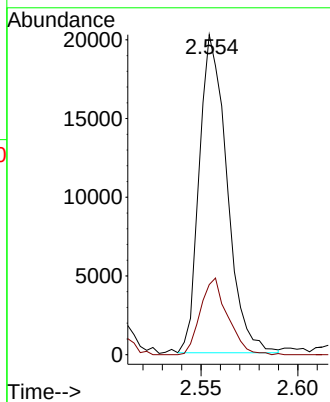
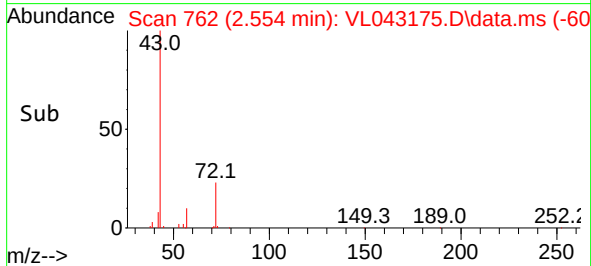
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1



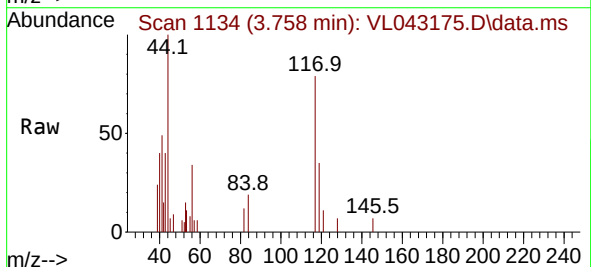
Tgt Ion: 43 Resp: 2016  
Ion Ratio Lower Upper  
43 100  
72 23.5 18.4 27.6

Manual Integrations  
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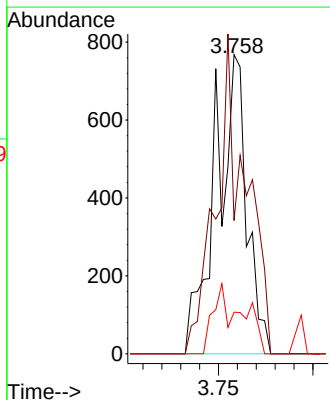
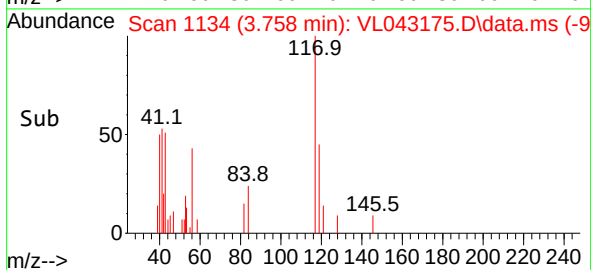
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

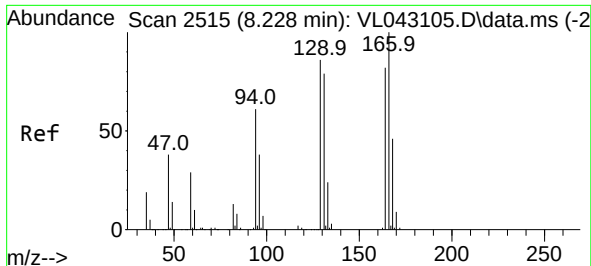


#35  
Carbon Tetrachloride  
Concen: 0.034 ppbv m  
RT: 3.758 min Scan# 1134  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30



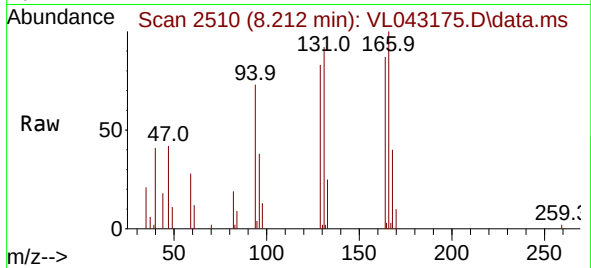
Tgt Ion:117 Resp: 875  
Ion Ratio Lower Upper  
117 100  
119 44.5 74.1 111.1#  
121 13.9 22.2 33.2#





#52  
Tetrachloroethene  
Concen: 0.455 ppbv m  
RT: 8.212 min Scan# 21  
Delta R.T. -0.016 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

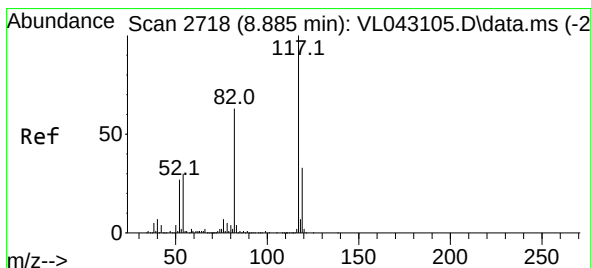
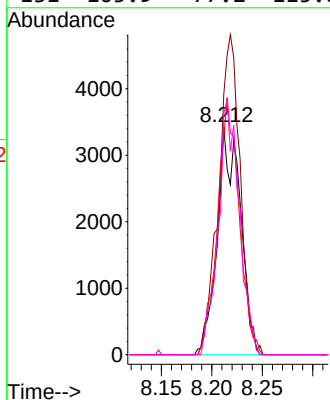
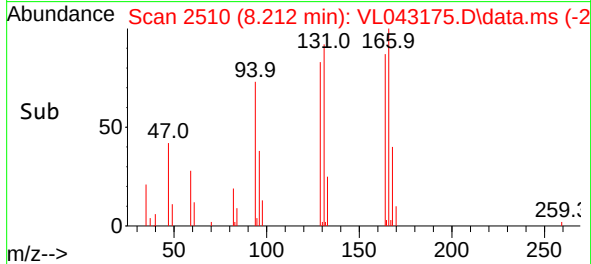
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1



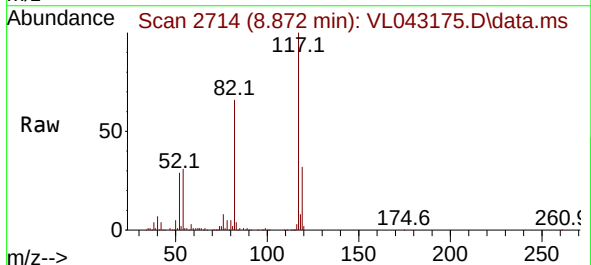
Tgt Ion:164 Resp: 5458  
Ion Ratio Lower Upper  
164 100  
166 114.5 97.6 146.4  
129 95.2 84.5 126.7  
131 105.9 77.2 115.8

Manual Integrations  
APPROVED

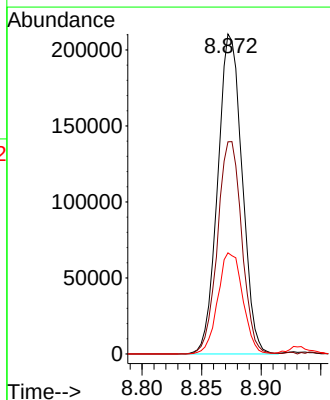
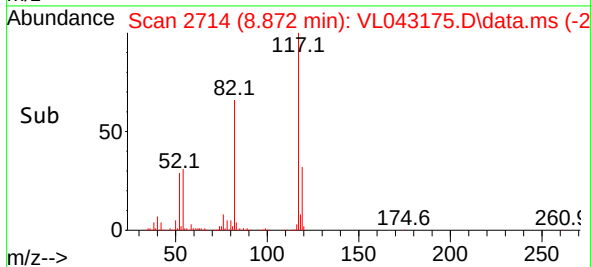
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

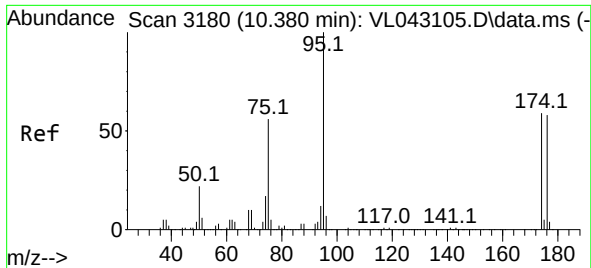


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 2714  
Delta R.T. -0.013 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30



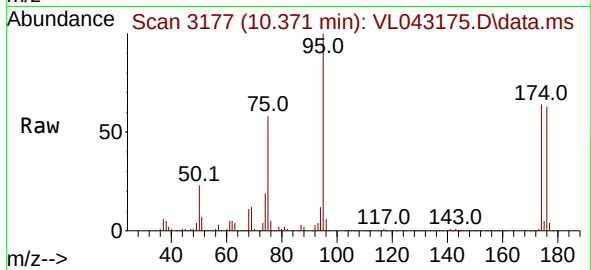
Tgt Ion:117 Resp: 299020  
Ion Ratio Lower Upper  
117 100  
82 66.2 53.8 80.8  
119 32.4 25.4 38.0





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.998 ppbv  
 RT: 10.371 min Scan# 3177  
 Delta R.T. -0.010 min  
 Lab File: VL043175.D  
 Acq: 06 Nov 2025 19:30

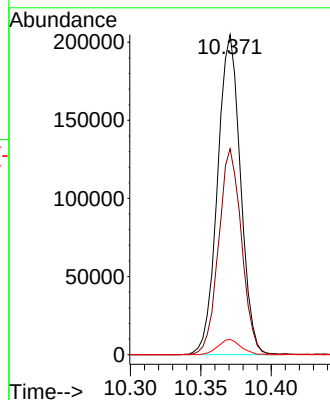
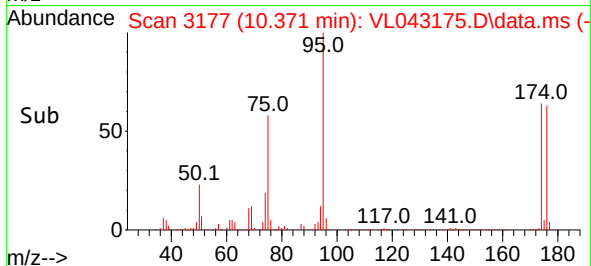
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-SG-1



Tgt Ion: 95 Resp: 232369  
 Ion Ratio Lower Upper  
 95 100  
 174 64.4 48.3 72.5  
 175 4.8 3.8 5.8

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 131-SG-2  
Lab Sample ID: Q3556-04  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25  
Date Received: 11/05/25  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| <b>TARGETS</b> |                                |               |                |      |    |              |                     |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 0.47          | 2.32           | J    | 2  | 1.09         | 4.94                | 11/06/25 20:03 | VL110625 |
| 74-87-3        | Chloromethane                  | 0.20          | 0.41           | U    | 2  | 0.41         | 2.07                | 11/06/25 20:03 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 0.050         | 0.13           | U    | 2  | 0.13         | 0.15                | 11/06/25 20:03 | VL110625 |
| 74-83-9        | Bromomethane                   | 0.15          | 0.58           | U    | 2  | 0.58         | 3.88                | 11/06/25 20:03 | VL110625 |
| 75-00-3        | Chloroethane                   | 0.30          | 0.79           | U    | 2  | 0.79         | 2.64                | 11/06/25 20:03 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 0.16          | 0.47           | U    | 2  | 0.47         | 2.95                | 11/06/25 20:03 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 0.34          | 1.91           | U    | 2  | 1.91         | 5.62                | 11/06/25 20:03 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.28          | 2.15           | U    | 2  | 2.15         | 7.66                | 11/06/25 20:03 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.30          | 2.10           | U    | 2  | 2.10         | 6.99                | 11/06/25 20:03 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 0.32          | 0.97           | U    | 2  | 0.97         | 3.03                | 11/06/25 20:03 | VL110625 |
| 142-82-5       | Heptane                        | 0.34          | 1.39           | U    | 2  | 1.39         | 4.10                | 11/06/25 20:03 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 0.30          | 1.19           | U    | 2  | 1.19         | 3.96                | 11/06/25 20:03 | VL110625 |
| 67-64-1        | Acetone                        | 12.7          | 30.2           |      | 2  | 0.86         | 2.38                | 11/06/25 20:03 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 0.16          | 0.50           | U    | 2  | 0.50         | 3.11                | 11/06/25 20:03 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.46          | 1.66           | U    | 2  | 1.66         | 3.61                | 11/06/25 20:03 | VL110625 |
| 75-09-2        | Methylene Chloride             | 1.30          | 4.52           |      | 2  | 1.60         | 3.47                | 11/06/25 20:03 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.24          | 0.95           | U    | 2  | 0.95         | 3.96                | 11/06/25 20:03 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.26          | 1.05           | U    | 2  | 1.05         | 4.05                | 11/06/25 20:03 | VL110625 |
| 110-82-7       | Cyclohexane                    | 0.44          | 1.51           | U    | 2  | 1.51         | 3.44                | 11/06/25 20:03 | VL110625 |
| 78-93-3        | 2-Butanone                     | 1.60          | 4.72           |      | 2  | 0.32         | 2.95                | 11/06/25 20:03 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.060         | 0.38           |      | 2  | 0.31         | 0.38                | 11/06/25 20:03 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.20          | 0.79           | U    | 2  | 0.79         | 3.96                | 11/06/25 20:03 | VL110625 |
| 67-66-3        | Chloroform                     | 1.40          | 6.84           |      | 2  | 0.93         | 4.88                | 11/06/25 20:03 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.030         | 0.16           | U    | 2  | 0.16         | 0.33                | 11/06/25 20:03 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.28          | 1.31           | U    | 2  | 1.31         | 4.67                | 11/06/25 20:03 | VL110625 |
| 71-43-2        | Benzene                        | 3.10          | 9.90           |      | 2  | 0.51         | 3.19                | 11/06/25 20:03 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.19          | 0.77           | U    | 2  | 0.77         | 4.05                | 11/06/25 20:03 | VL110625 |
| 79-01-6        | Trichloroethene                | 0.050         | 0.27           | U    | 2  | 0.27         | 0.32                | 11/06/25 20:03 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.26          | 1.20           | U    | 2  | 1.20         | 4.62                | 11/06/25 20:03 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 0.13          | 0.87           | U    | 2  | 0.87         | 6.70                | 11/06/25 20:03 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.31          | 1.27           | J    | 2  | 0.78         | 4.10                | 11/06/25 20:03 | VL110625 |
| 108-88-3       | Toluene                        | 0.32          | 1.21           | U    | 2  | 1.21         | 3.77                | 11/06/25 20:03 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.30          | 1.36           | U    | 2  | 1.36         | 4.54                | 11/06/25 20:03 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.22          | 1.00           | U    | 2  | 1.00         | 4.54                | 11/06/25 20:03 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.16          | 0.87           | U    | 2  | 0.87         | 5.46                | 11/06/25 20:03 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 0.17          | 1.45           | U    | 2  | 1.45         | 8.52                | 11/06/25 20:03 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 0.17          | 1.31           | U    | 2  | 1.31         | 1.54                | 11/06/25 20:03 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 0.21          | 1.42           |      | 2  | 0.20         | 0.41                | 11/06/25 20:03 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 0.15          | 0.69           | U    | 2  | 0.69         | 4.61                | 11/06/25 20:03 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 0.38          | 1.65           | U    | 2  | 1.65         | 4.34                | 11/06/25 20:03 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 0.82          | 3.56           | U    | 2  | 3.56         | 8.69                | 11/06/25 20:03 | VL110625 |
| 95-47-6        | o-Xylene                       | 0.42          | 1.82           | U    | 2  | 1.82         | 4.34                | 11/06/25 20:03 | VL110625 |
| 100-42-5       | Styrene                        | 0.32          | 1.36           | U    | 2  | 1.36         | 4.26                | 11/06/25 20:03 | VL110625 |
| 75-25-2        | Bromoform                      | 0.10          | 1.03           | U    | 2  | 1.03         | 10.3                | 11/06/25 20:03 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 0.040         | 0.27           | U    | 2  | 0.27         | 0.41                | 11/06/25 20:03 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 0.34          | 1.76           | U    | 2  | 1.76         | 5.18                | 11/06/25 20:03 | VL110625 |

## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 131-SG-2  
Lab Sample ID: Q3556-04  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected: 11/05/25  
Date Received: 11/05/25  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number | Parameter                | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 0.36       | 1.77        | U    | 2  | 1.77      | 4.92             | 11/06/25 20:03 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 0.36       | 1.77        | U    | 2  | 1.77      | 4.92             | 11/06/25 20:03 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 0.11       | 0.66        | U    | 2  | 0.66      | 6.01             | 11/06/25 20:03 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 0.26       | 1.56        | U    | 2  | 1.56      | 6.01             | 11/06/25 20:03 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 0.26       | 1.56        | U    | 2  | 1.56      | 6.01             | 11/06/25 20:03 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 0.42       | 3.12        | U    | 2  | 3.12      | 7.42             | 11/06/25 20:03 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 0.26       | 2.77        | U    | 2  | 2.77      | 10.7             | 11/06/25 20:03 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 0.10       | 0.22        | U    | 2  | 0.22      | 2.21             | 11/06/25 20:03 | VL110625 |
| 91-20-3    | Naphthalene              | 0.030      | 0.16        | U    | 2  | 0.16      | 1.05             | 11/06/25 20:03 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 0.42       | 2.06        | U    | 2  | 2.06      | 4.92             | 11/06/25 20:03 | VL110625 |
| 110-54-3   | Hexane                   | 0.70       | 2.47        | J    | 2  | 1.13      | 3.52             | 11/06/25 20:03 | VL110625 |
| 107-05-1   | Allyl Chloride           | 0.22       | 0.69        | U    | 2  | 0.69      | 3.13             | 11/06/25 20:03 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 0.44       | 1.59        | U    | 2  | 1.59      | 3.60             | 11/06/25 20:03 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 0.28       | 1.15        | U    | 2  | 1.15      | 4.09             | 11/06/25 20:03 | VL110625 |

### SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.0 70 (65) - 130 100% SPK: 10

### INTERNAL STANDARDS

Area Count  
74-97-5 Bromochloromethane 130000  
540-36-3 1,4-Difluorobenzene 360000  
3114-55-4 Chlorobenzene-d5 310000

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043176.D  
 Acq On : 06 Nov 2025 20:03  
 Operator : SY/MD  
 Sample : Q3556-04 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-SG-2

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:28:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.784  | 49    | 130480   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.955  | 114   | 360019   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.875  | 117   | 309583   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 240054   | 9.976    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.800%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 4362     | 0.235    | ppbv   | 99       |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 2918m    | 0.145    | ppbv   |          |
| 9) Propene                  | 1.486  | 41    | 3526     | 0.396    | ppbv   | 94       |
| 11) Trichlorofluoromethane  | 1.877  | 101   | 2266     | 0.125    | ppbv   | 94       |
| 13) Ethanol                 | 1.722  | 45    | 34752    | 10.555   | ppbv   | 100      |
| 15) Acetone                 | 1.835  | 43    | 111827   | 6.359    | ppbv   | 91       |
| 17) tert-Butyl alcohol      | 2.039  | 59    | 3728     | 0.154    | ppbv # | 76       |
| 19) Isopropyl Alcohol       | 1.887  | 45    | 6484     | 0.592    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.062  | 84    | 4427     | 0.637    | ppbv # | 86       |
| 26) Hexane                  | 2.826  | 57    | 7014     | 0.349    | ppbv # | 39       |
| 29) Chloroform              | 2.845  | 83    | 19971    | 0.686    | ppbv   | 99       |
| 34) 2-Butanone              | 2.557  | 43    | 19902    | 0.822    | ppbv   | 99       |
| 35) Carbon Tetrachloride    | 3.768  | 117   | 806m     | 0.031    | ppbv   |          |
| 36) Benzene                 | 3.654  | 78    | 52069    | 1.536    | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone    | 5.771  | 43    | 5146m    | 0.154    | ppbv   |          |
| 52) Tetrachloroethene       | 8.221  | 164   | 1295m    | 0.106    | ppbv   |          |
| 53) Toluene                 | 6.927  | 91    | 4087m    | 0.102    | ppbv   |          |
| 62) Isopropylbenzene        | 10.536 | 105   | 35300    | 0.467    | ppbv   | 97       |

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

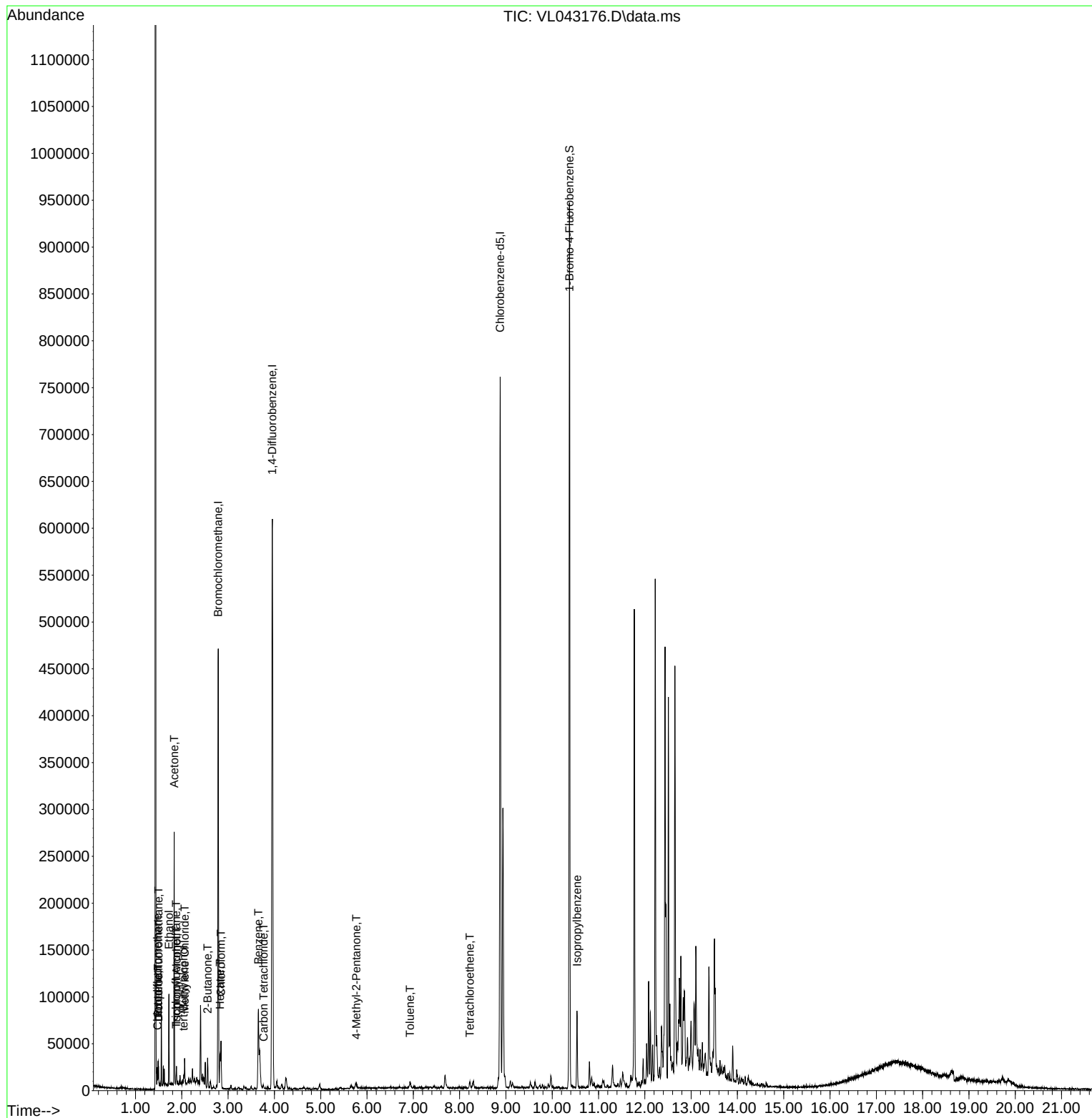
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043176.D  
Acq On : 06 Nov 2025 20:03  
Operator : SY/MD  
Sample : Q3556-04 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

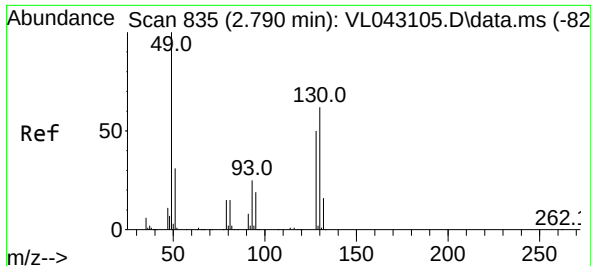
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Quant Time: Nov 07 00:28:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
Supervised By : Mahesh Dadoda 11/10/2025





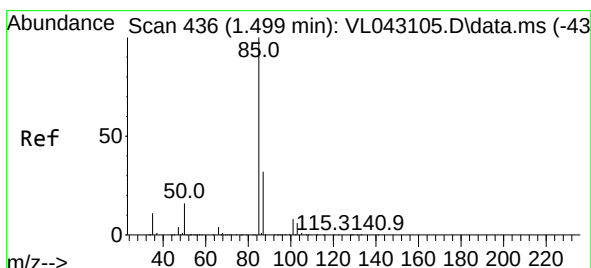
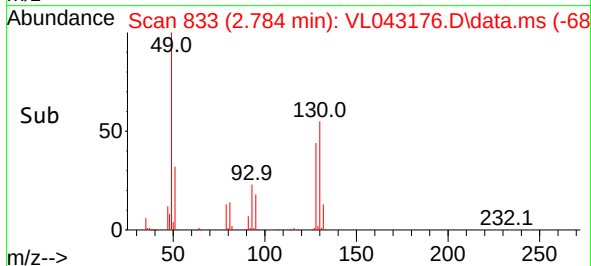
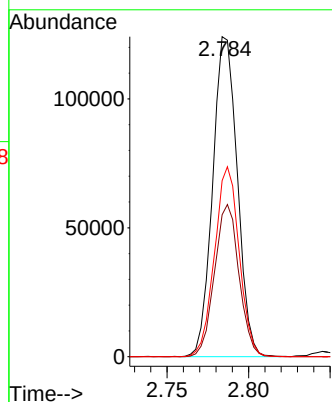
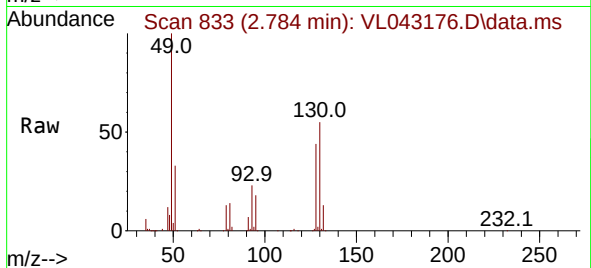
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Tgt Ion: 49 Resp: 130480  
Ion Ratio Lower Upper  
49 100  
128 47.2 24.4 73.4  
130 59.3 31.0 93.0

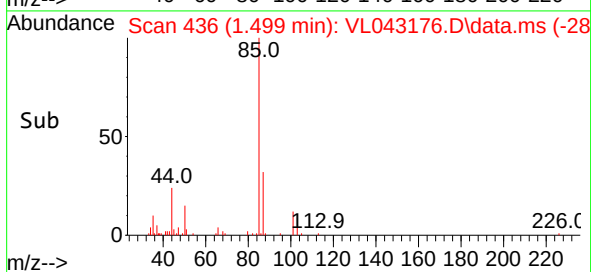
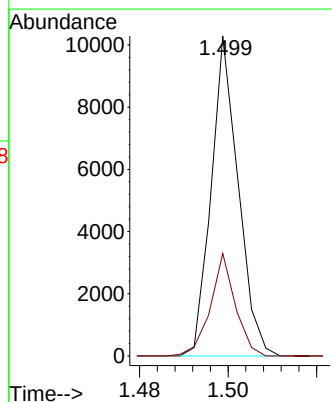
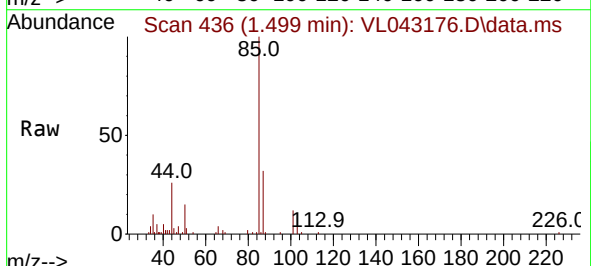
Manual Integrations  
APPROVED

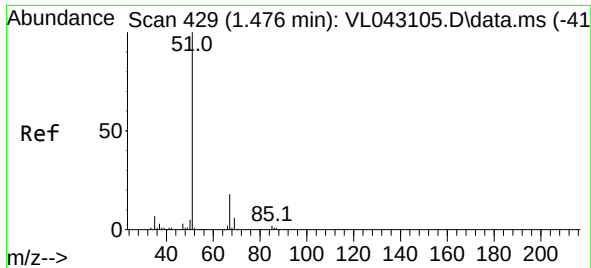
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#2  
Dichlorodifluoromethane  
Concen: 0.235 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 85 Resp: 4362  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.3 37.9





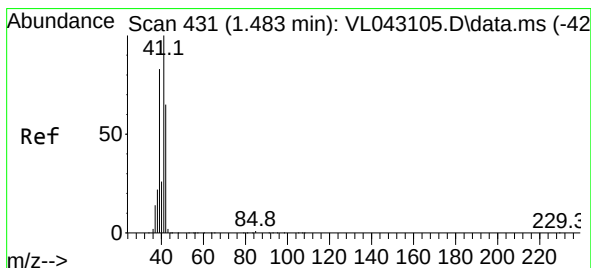
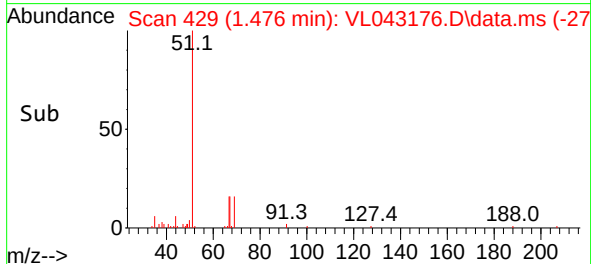
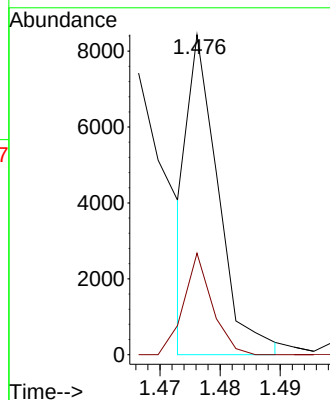
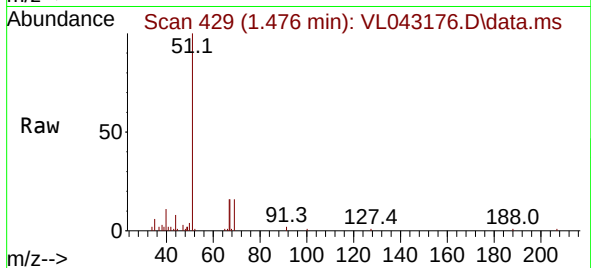
#3  
Chlorodifluoromethane  
Concen: 0.145 ppbv m  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Tgt Ion: 51 Resp: 2918  
Ion Ratio Lower Upper  
51 100  
67 30.3 15.1 22.7

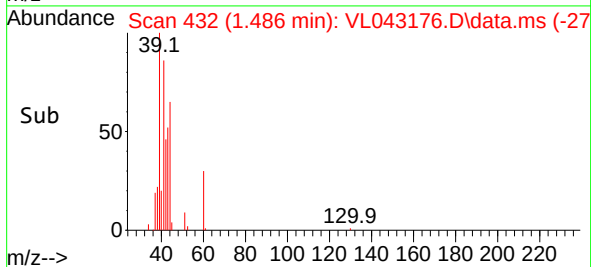
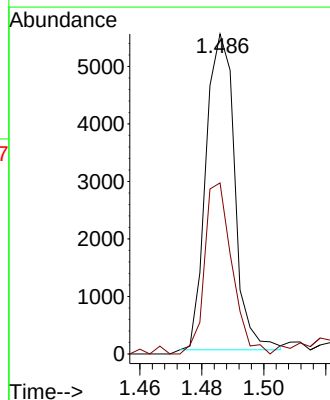
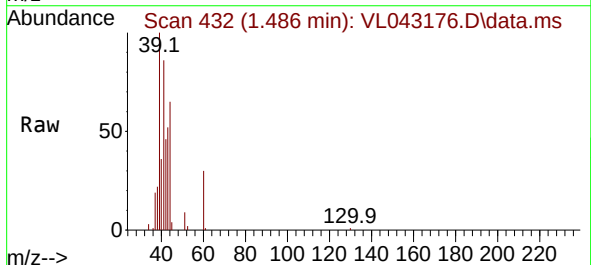
Manual Integrations  
APPROVED

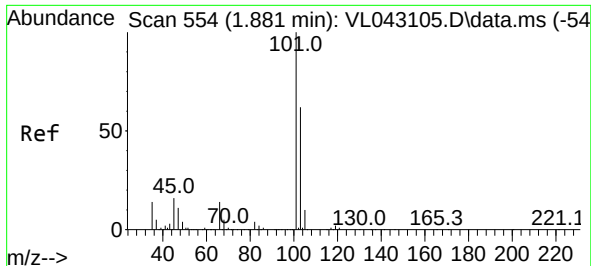
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#9  
Propene  
Concen: 0.396 ppbv  
RT: 1.486 min Scan# 432  
Delta R.T. 0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

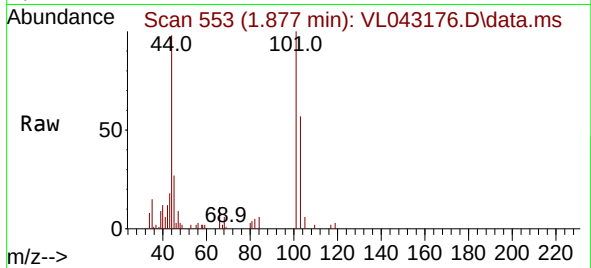
Tgt Ion: 41 Resp: 3526  
Ion Ratio Lower Upper  
41 100  
42 63.9 55.1 82.7





#11  
 Trichlorofluoromethane  
 Concen: 0.125 ppbv  
 RT: 1.877 min Scan# 511  
 Delta R.T. -0.003 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

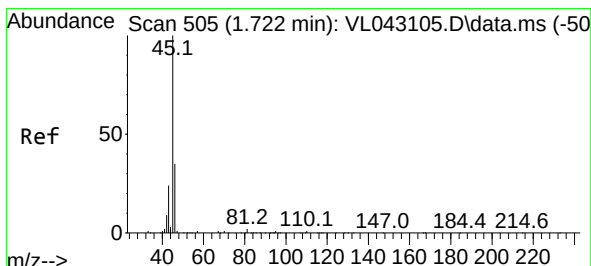
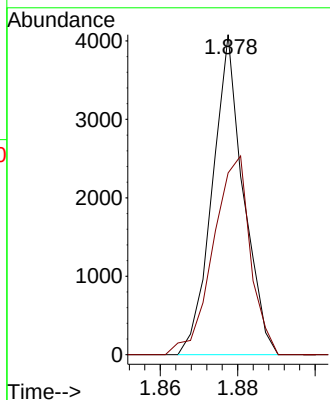
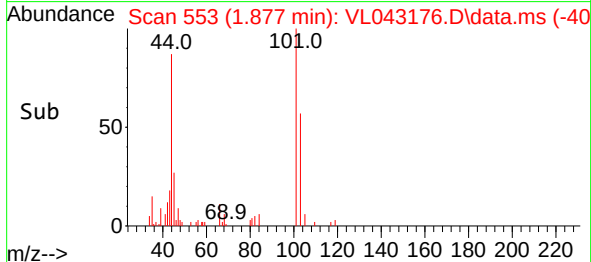
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 131-SG-2



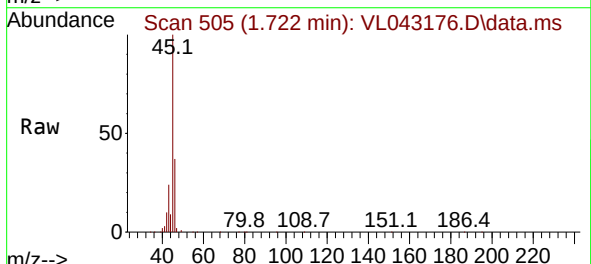
Tgt Ion: 101 Resp: 2260  
 Ion Ratio Lower Upper  
 101 100  
 103 56.8 49.3 73.9

Manual Integrations  
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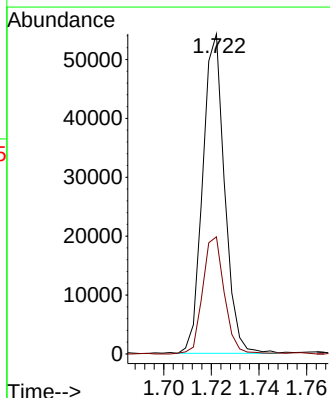
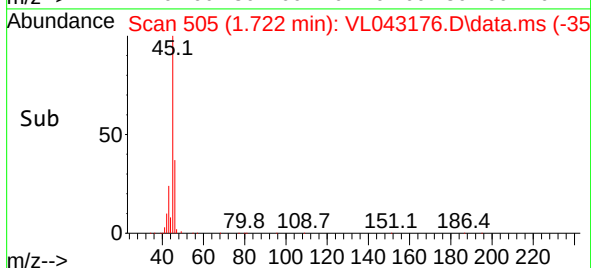
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

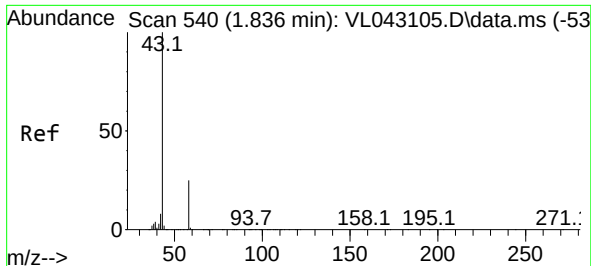


#13  
 Ethanol  
 Concen: 10.555 ppbv  
 RT: 1.722 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03



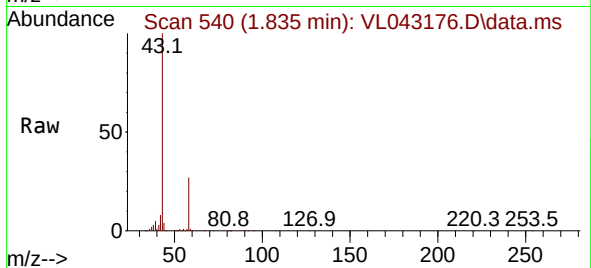
Tgt Ion: 45 Resp: 34752  
 Ion Ratio Lower Upper  
 45 100  
 46 37.0 14.7 58.9





#15  
Acetone  
Concen: 6.359 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

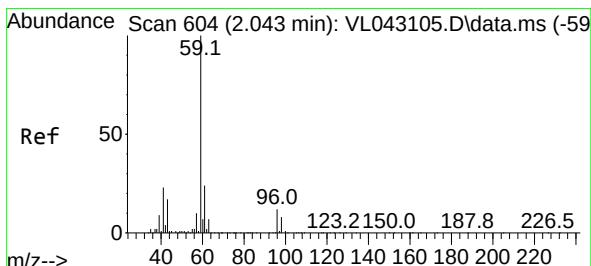
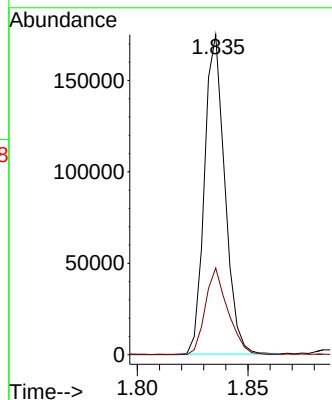
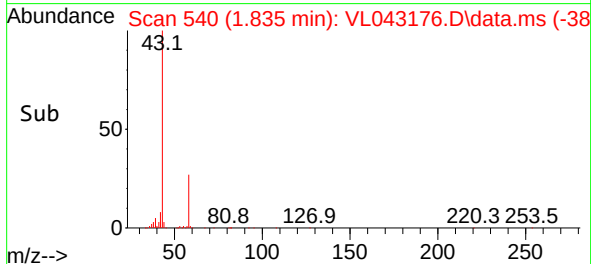
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2



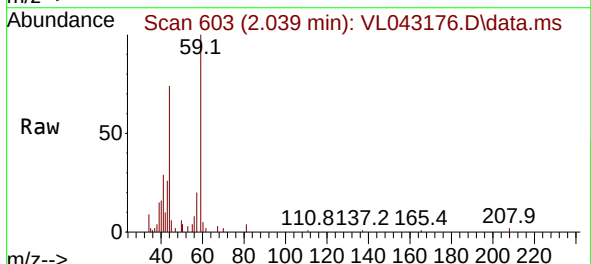
Tgt Ion: 43 Resp: 11182  
Ion Ratio Lower Upper  
43 100  
58 30.5 20.8 31.2

Manual Integrations  
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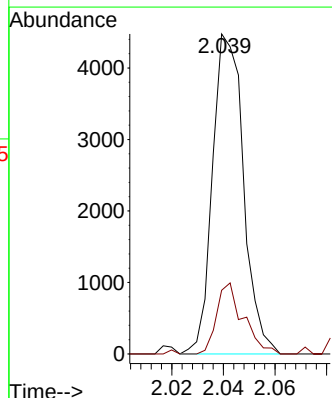
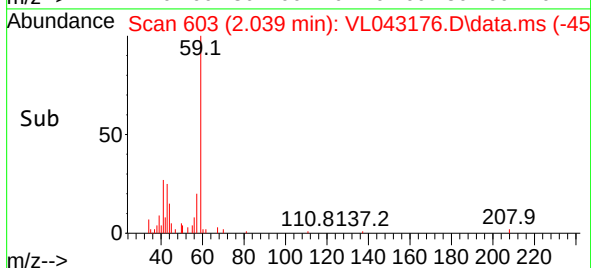
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

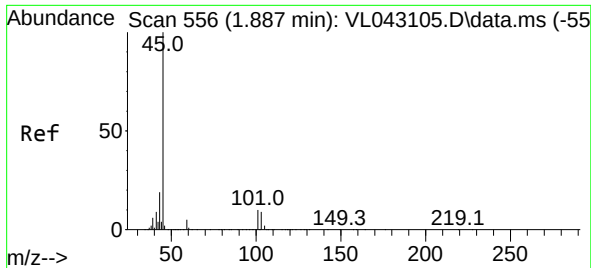


#17  
tert-Butyl alcohol  
Concen: 0.154 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03



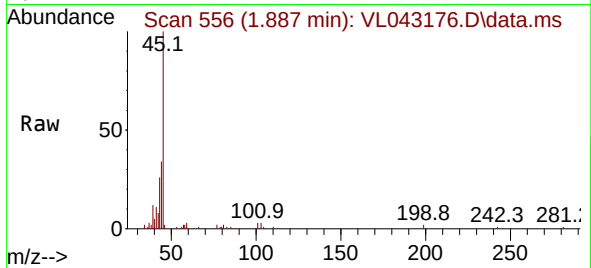
Tgt Ion: 59 Resp: 3728  
Ion Ratio Lower Upper  
59 100  
57 19.3 8.2 12.4#





#19  
Isopropyl Alcohol  
Concen: 0.592 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

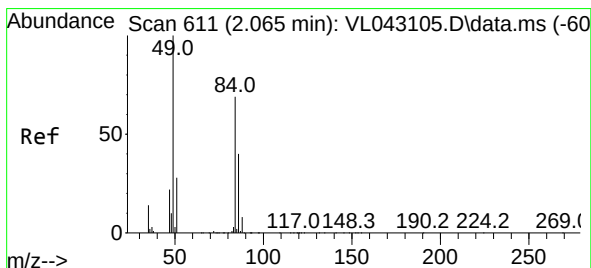
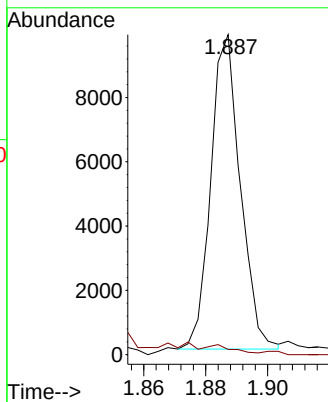
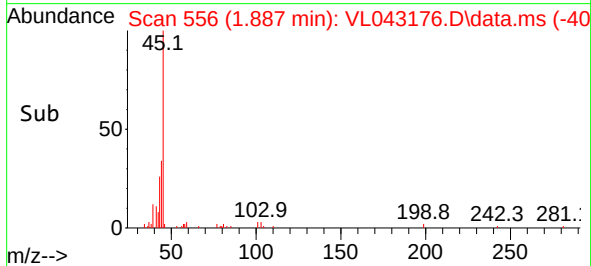
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2



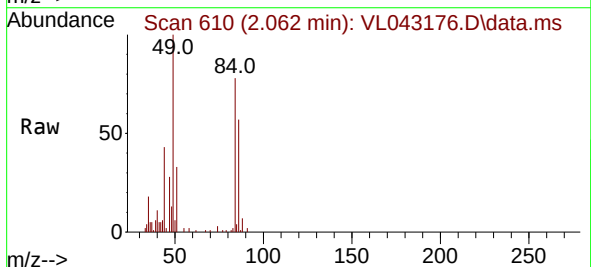
Tgt Ion: 45 Resp: 6484  
Ion Ratio Lower Upper  
45 100  
58 525.6 31.3 46.9

Manual Integrations  
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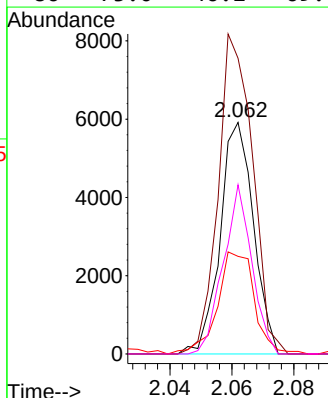
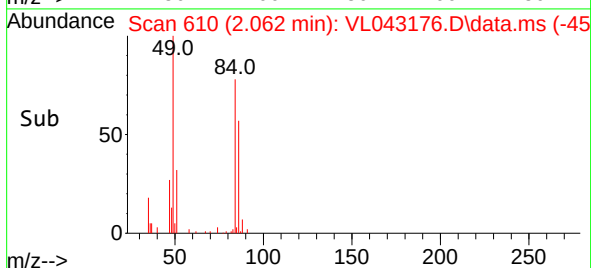
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

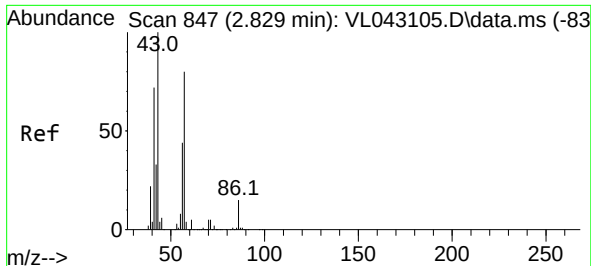


#20  
Methylene Chloride  
Concen: 0.637 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03



Tgt Ion: 84 Resp: 4427  
Ion Ratio Lower Upper  
84 100  
49 127.7 116.6 175.0  
51 40.8 34.8 52.2  
86 73.0 46.2 69.4





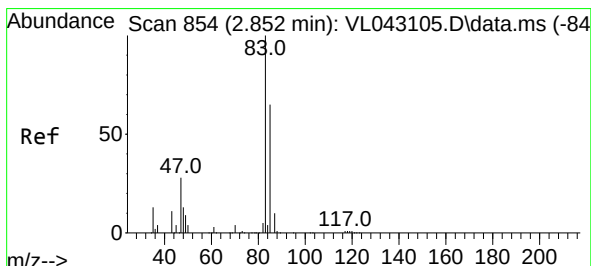
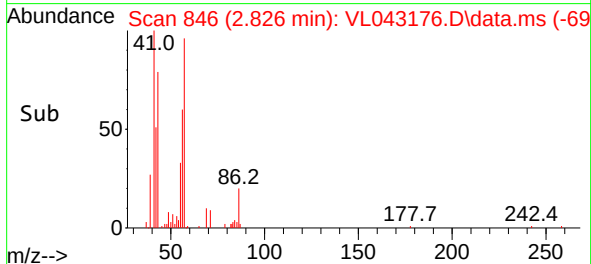
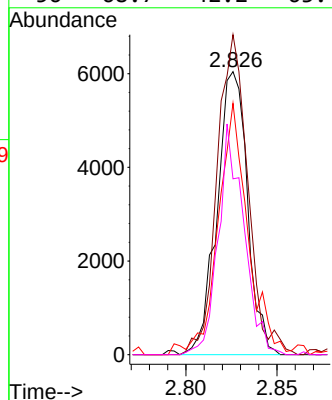
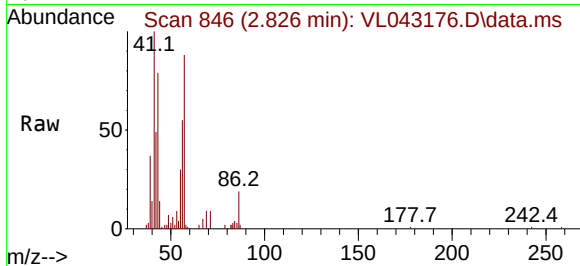
#26  
Hexane  
Concen: 0.349 ppbv  
RT: 2.826 min Scan# 84  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Tgt Ion: 57 Resp: 7014  
Ion Ratio Lower Upper  
57 100  
41 114.7 71.4 107.0  
43 88.2 178.5 267.7  
56 68.7 42.2 63.4

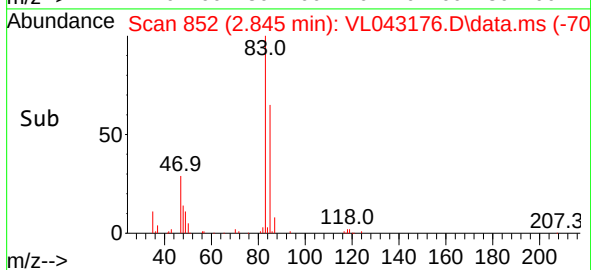
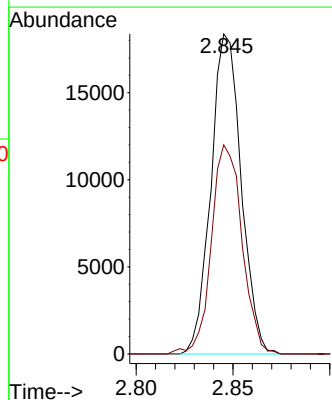
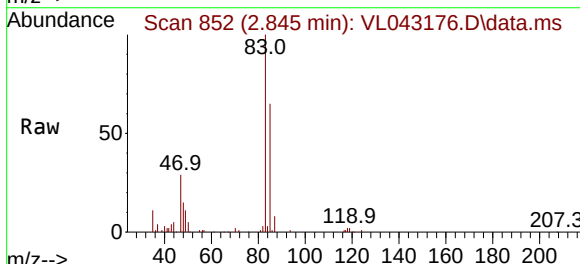
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

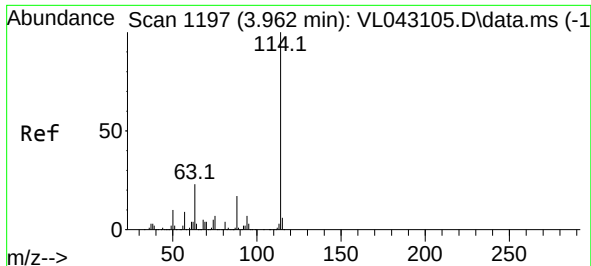


#29  
Chloroform  
Concen: 0.686 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 83 Resp: 19971  
Ion Ratio Lower Upper  
83 100  
85 65.4 51.8 77.6

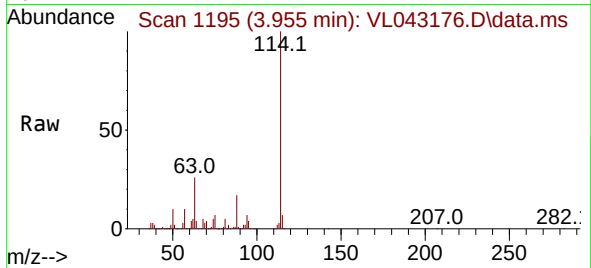






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

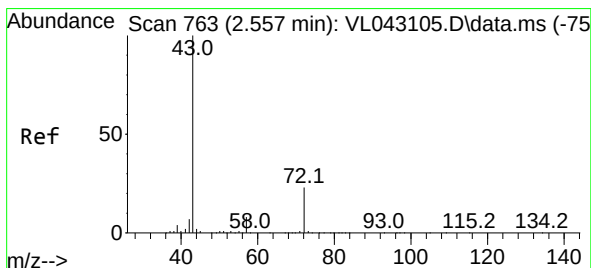
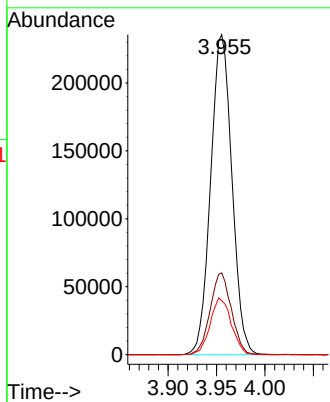
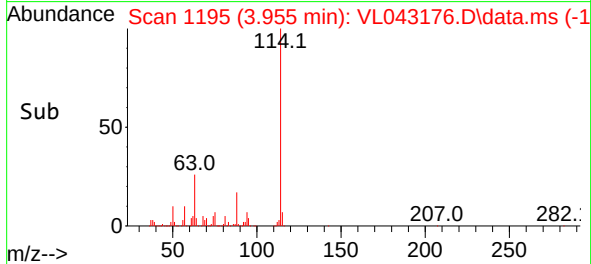
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2



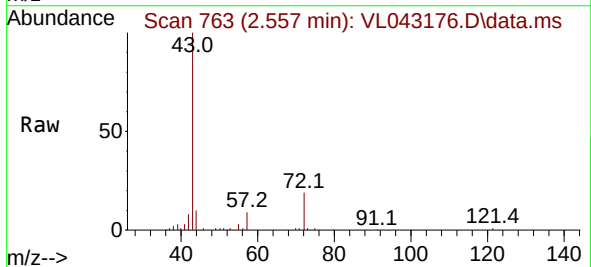
Tgt Ion:114 Resp: 360019  
Ion Ratio Lower Upper  
114 100  
63 25.6 19.3 28.9  
88 17.6 13.9 20.9

Manual Integrations  
APPROVED

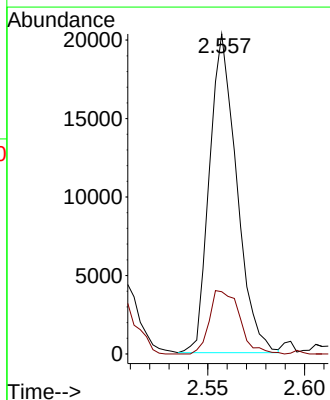
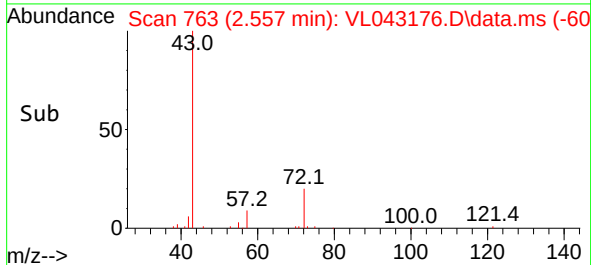
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

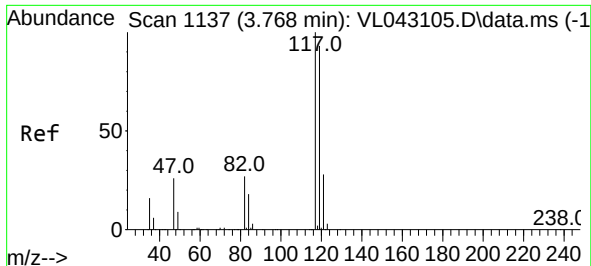


#34  
2-Butanone  
Concen: 0.822 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03



Tgt Ion: 43 Resp: 19902  
Ion Ratio Lower Upper  
43 100  
72 22.4 18.4 27.6





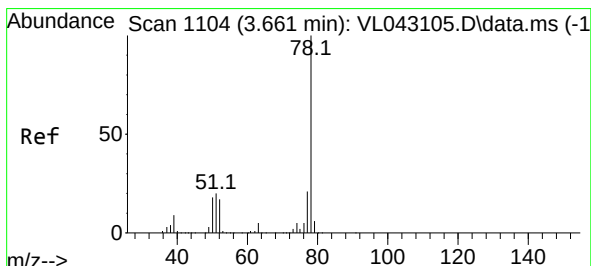
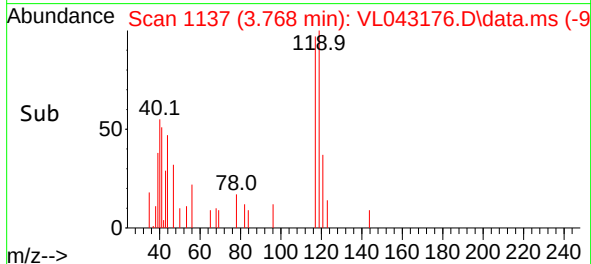
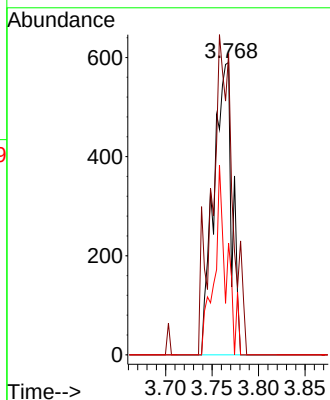
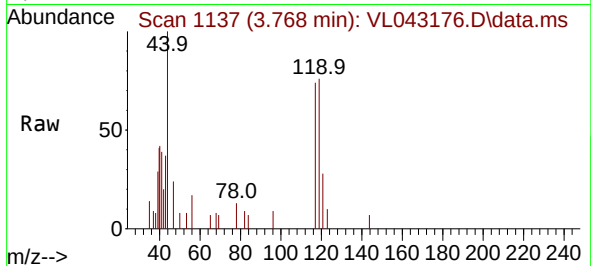
#35  
Carbon Tetrachloride  
Concen: 0.031 ppbv m  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument : MSVOA\_1  
ClientSampleId : 131-SG-2

Tgt Ion: 117 Resp: 800  
Ion Ratio Lower Upper  
117 100  
119 103.1 74.1 111.1  
121 38.1 22.2 33.2

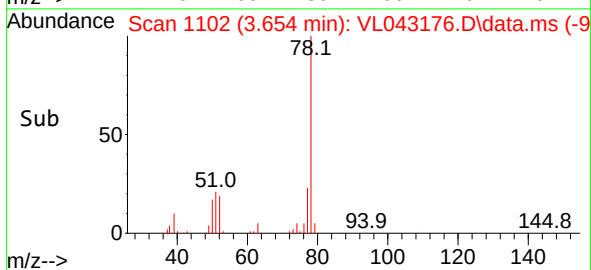
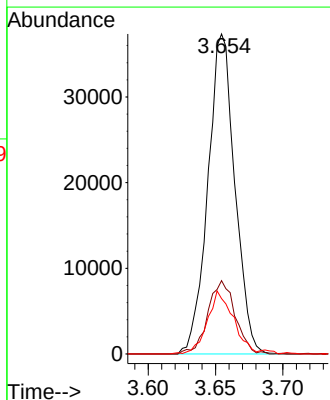
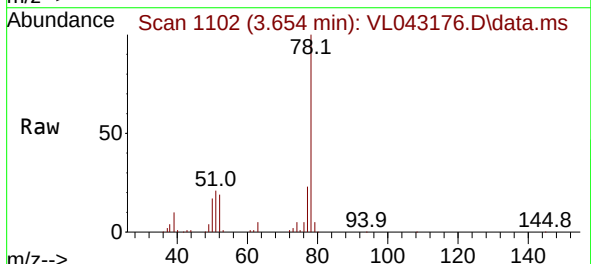
Manual Integrations  
APPROVED

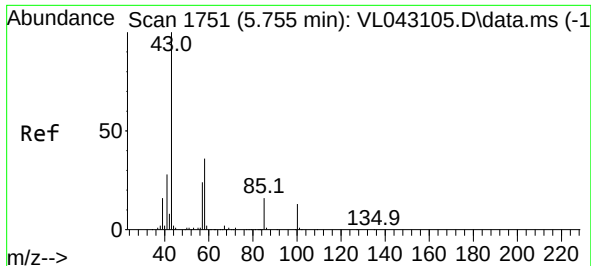
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#36  
Benzene  
Concen: 1.536 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

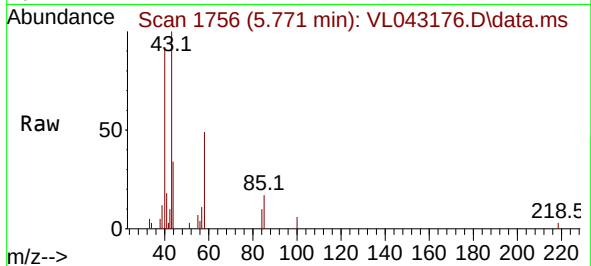
Tgt Ion: 78 Resp: 52069  
Ion Ratio Lower Upper  
78 100  
77 22.9 17.0 25.6  
50 17.0 14.6 22.0





#50  
4-Methyl-2-Pentanone  
Concen: 0.154 ppbv m  
RT: 5.771 min Scan# 1751  
Delta R.T. 0.016 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

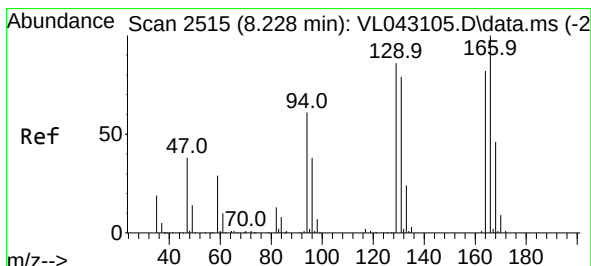
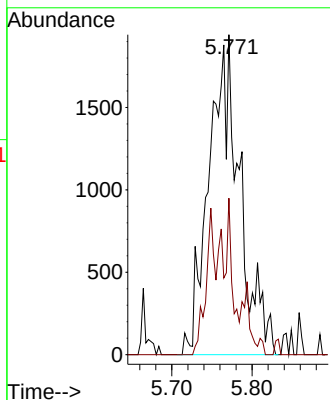
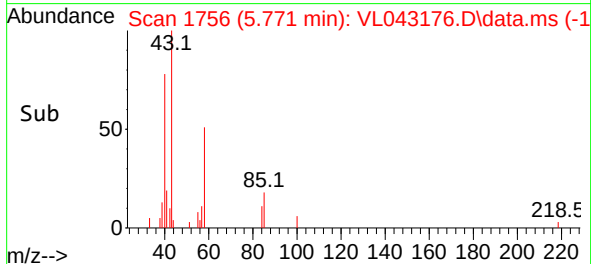
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2



Tgt Ion: 43 Resp: 5140  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7

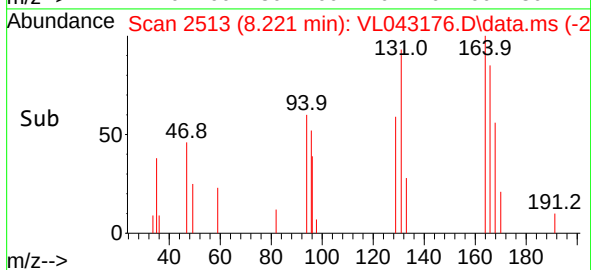
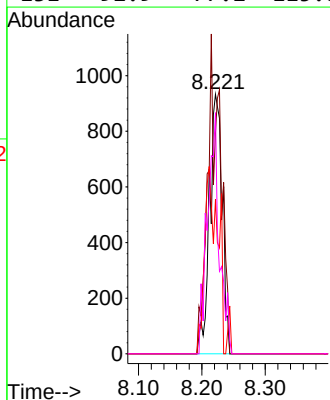
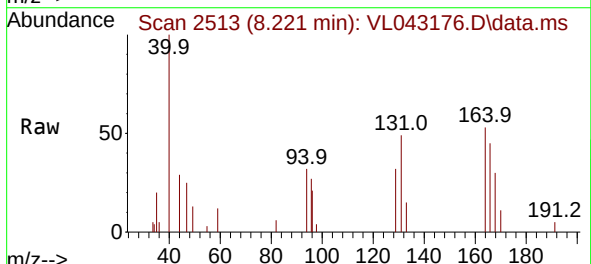
Manual Integrations  
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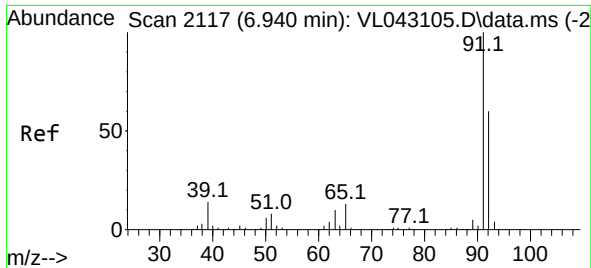
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#52  
Tetrachloroethene  
Concen: 0.106 ppbv m  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion:164 Resp: 1295  
Ion Ratio Lower Upper  
164 100  
166 85.1 97.6 146.4#  
129 59.5 84.5 126.7#  
131 92.9 77.2 115.8





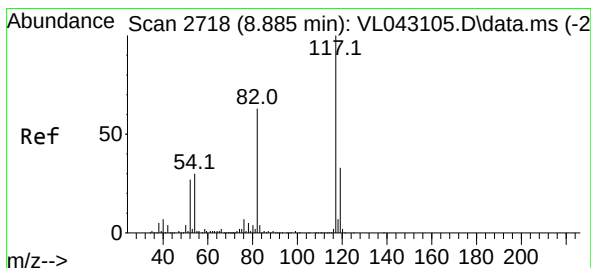
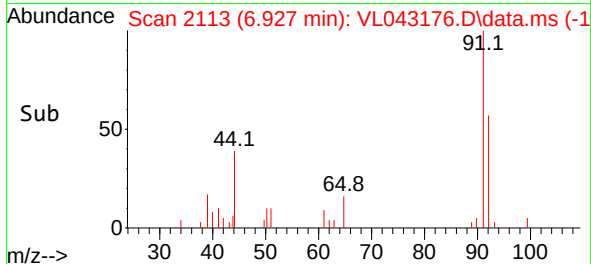
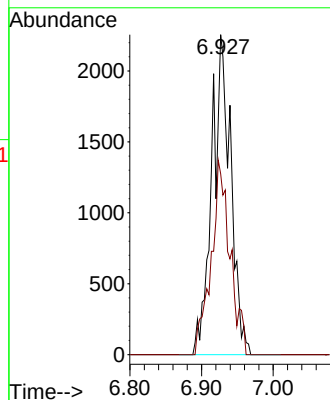
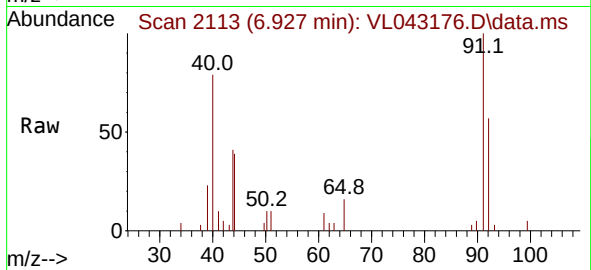
#53  
Toluene  
Concen: 0.102 ppbv m  
RT: 6.927 min Scan# 2117  
Delta R.T. -0.013 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Tgt Ion: 91 Resp: 408  
Ion Ratio Lower Upper  
91 100  
92 61.2 48.8 73.2

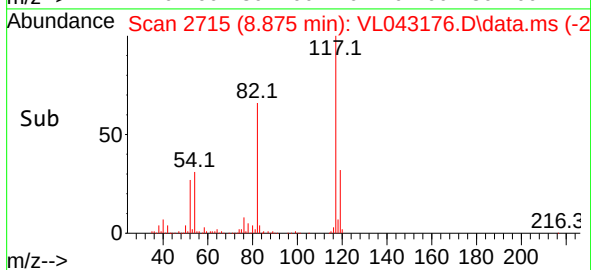
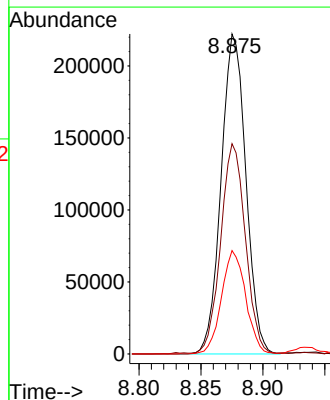
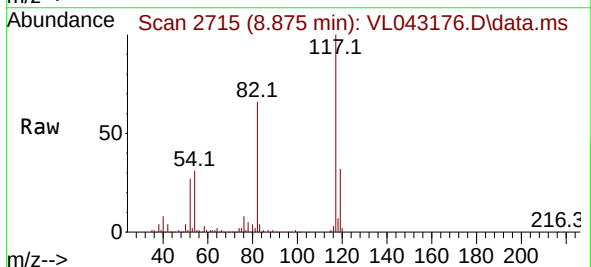
Manual Integrations  
APPROVED

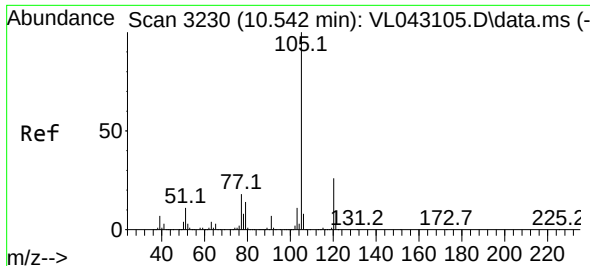
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. -0.010 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion:117 Resp: 309583  
Ion Ratio Lower Upper  
117 100  
82 65.9 53.8 80.8  
119 31.7 25.4 38.0





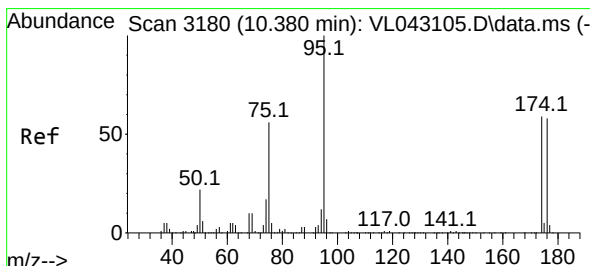
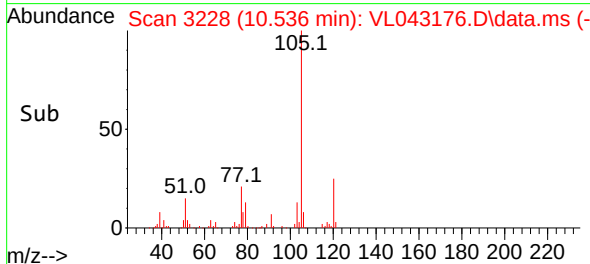
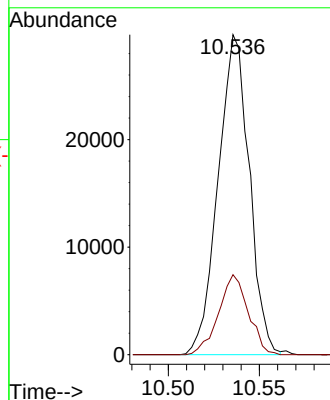
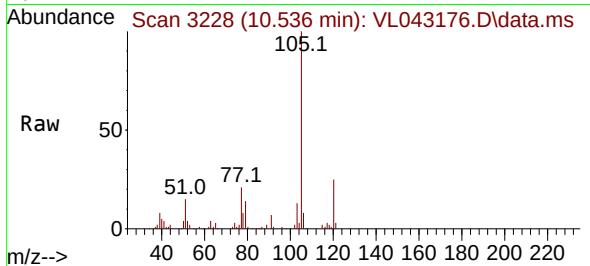
#62  
Isopropylbenzene  
Concen: 0.467 ppbv  
RT: 10.536 min Scan# 311  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

Tgt Ion:105 Resp: 35300  
Ion Ratio Lower Upper  
105 100  
120 23.9 20.2 30.4

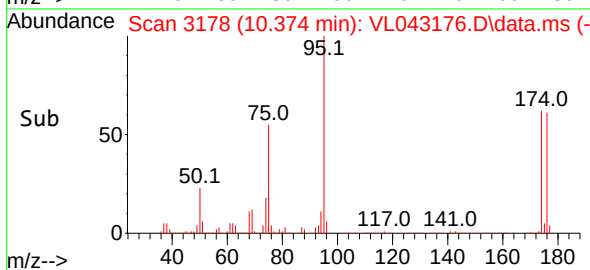
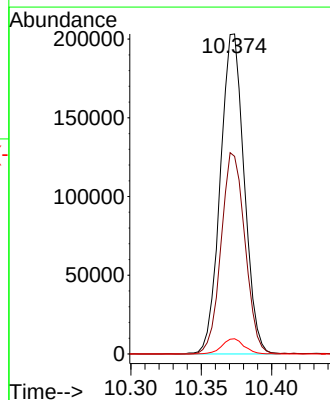
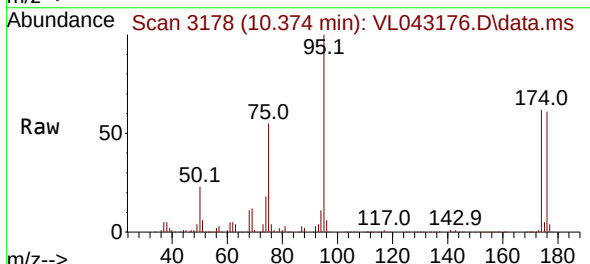
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.976 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 95 Resp: 240054  
Ion Ratio Lower Upper  
95 100  
174 62.9 48.3 72.5  
175 4.4 3.8 5.8





# CALIBRATION SUMMARY

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Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL101425AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Last Update : Wed Oct 15 02:12:58 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL043110.D 0.1 =VL043109.D 0.5 =VL043108.D 1 =VL043107.D 2 =VL043106.D 10 =VL043105.D 15 =VL043111.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.545 | 1.527 | 1.481 | 1.278 | 1.278 | 1.422 | 9.38  |
| 3) Chlorodifluoro...      |                |       | 1.672 | 1.632 | 1.577 | 1.451 | 1.359 | 1.538 | 8.46  |
| 4) Chloromethane          |                |       | 0.640 | 0.621 | 0.579 | 0.500 | 0.477 | 0.563 | 12.89 |
| 5) T Vinyl Chloride       | 0.723          | 0.554 | 0.562 | 0.557 | 0.528 | 0.481 | 0.462 | 0.552 | 15.33 |
| 6) T Bromomethane         |                |       | 0.336 | 0.338 | 0.317 | 0.260 | 0.263 | 0.303 | 12.78 |
| 7) Chloroethane           |                |       | 0.261 | 0.256 | 0.238 | 0.192 | 0.183 | 0.226 | 16.03 |
| 8) T Dichlorotetra...     |                |       | 1.175 | 1.265 | 1.230 | 1.040 | 1.036 | 1.149 | 9.26  |
| 9) T Propene              |                |       | 0.738 | 0.713 | 0.721 | 0.655 | 0.585 | 0.682 | 9.20  |
| 10) T Heptane             |                |       | 2.184 | 2.151 | 2.032 | 1.803 | 1.650 | 1.964 | 11.73 |
| 11) T Trichlorofluor...   |                |       | 1.510 | 1.459 | 1.477 | 1.242 | 1.265 | 1.391 | 9.11  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.215 | 1.220 | 1.191 | 0.976 | 0.996 | 1.120 | 10.97 |
| 13) Ethanol               |                |       | 0.289 | 0.307 | 0.302 | 0.193 | 0.171 | 0.252 | 25.86 |
| 14) T Bromoethene         |                |       | 0.481 | 0.434 | 0.431 | 0.371 | 0.362 | 0.416 | 11.84 |
| 15) T Acetone             |                |       | 1.561 | 1.522 | 1.508 | 1.091 | 1.058 | 1.348 | 18.60 |
| 16) T 1,3-Butadiene       |                |       | 0.780 | 0.700 | 0.649 | 0.552 | 0.531 | 0.642 | 16.07 |
| 17) tert-Butyl alc...     |                |       | 2.010 | 2.047 | 1.934 | 1.689 | 1.571 | 1.850 | 11.31 |
| 18) T 1,1-Dichloroet...   |                |       | 0.519 | 0.539 | 0.512 | 0.437 | 0.434 | 0.488 | 10.07 |
| 19) T Isopropyl Alcohol   |                |       | 0.971 | 0.958 | 0.870 | 0.725 | 0.674 | 0.839 | 16.03 |
| 20) T Methylene Chlo...   |                |       | 0.738 | 0.612 | 0.508 | 0.406 | 0.400 | 0.533 | 26.98 |
| 21) T Allyl Chloride      |                |       | 1.097 | 1.049 | 1.040 | 0.910 | 0.869 | 0.993 | 9.86  |
| 22) T trans-1,2-Dich...   |                |       | 0.609 | 0.696 | 0.594 | 0.511 | 0.508 | 0.583 | 13.38 |
| 23) T Vinyl Acetate       |                |       | 2.148 | 1.904 | 2.292 | 1.623 | 1.905 | 1.974 | 13.03 |
| 24) T 1,1-Dichloroet...   |                |       | 1.169 | 1.237 | 1.190 | 1.031 | 1.009 | 1.127 | 8.99  |
| 25) T Ethyl Acetate       |                |       | 3.526 | 3.626 | 3.558 | 3.132 | 2.871 | 3.342 | 9.77  |
| 26) T Hexane              |                |       | 1.753 | 1.677 | 1.548 | 1.406 | 1.318 | 1.540 | 11.77 |
| 27) T Carbon Disulfide    |                |       | 1.423 | 1.540 | 1.505 | 1.315 | 1.272 | 1.411 | 8.26  |
| 28) T Methyl tert-Bu...   |                |       | 0.742 | 0.767 | 0.769 | 0.587 | 0.638 | 0.701 | 11.86 |
| 29) T Chloroform          |                |       | 2.437 | 2.397 | 2.296 | 2.030 | 1.997 | 2.232 | 9.22  |
| 30) T Cyclohexane         |                |       | 1.493 | 1.448 | 1.390 | 1.214 | 1.176 | 1.344 | 10.53 |
| 31) T cis-1,2-Dichlo...   |                |       | 1.491 | 1.594 | 1.516 | 1.405 | 1.348 | 1.471 | 6.55  |
| 32) T 1,1,1-Trichlor...   | 2.165          | 2.605 | 2.407 | 2.439 | 2.424 | 2.136 | 2.092 | 2.324 | 8.31  |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.753 | 0.708 | 0.707 | 0.606 | 0.587 | 0.672 | 10.68 |
| 35) T Carbon Tetrach...   | 0.752          | 0.761 | 0.710 | 0.743 | 0.745 | 0.649 | 0.674 | 0.719 | 5.96  |
| 36) T Benzene             |                |       | 0.974 | 0.980 | 1.023 | 0.871 | 0.862 | 0.942 | 7.60  |
| 37) T 1,2-Dichloroet...   |                |       | 0.589 | 0.571 | 0.565 | 0.485 | 0.502 | 0.543 | 8.49  |
| 38) T Trichloroethene     | 0.460          | 0.421 | 0.401 | 0.402 | 0.398 | 0.342 | 0.330 | 0.393 | 11.38 |
| 39) T 1,2-Dichloropr...   |                |       | 0.359 | 0.370 | 0.371 | 0.317 | 0.305 | 0.344 | 8.99  |

|                                                                                 |                   |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\<br>Method File : VL101425AIR.M |                   |       |       |       |       |       |       |       |       |       |
| 40) T                                                                           | 1,4-Dioxane       |       |       | 0.166 | 0.166 | 0.162 | 0.141 | 0.135 | 0.154 | 9.56  |
| 41) T                                                                           | Tetrahydrofuran   |       |       | 0.427 | 0.394 | 0.384 | 0.343 | 0.332 | 0.376 | 10.32 |
| 42) T                                                                           | Bromodichlorom... |       |       | 0.779 | 0.775 | 0.791 | 0.697 | 0.713 | 0.751 | 5.68  |
| 43) T                                                                           | Methyl Methacr... |       |       | 0.500 | 0.511 | 0.493 | 0.450 | 0.437 | 0.478 | 6.85  |
| 44) T                                                                           | 2,2,4-Trimethy... |       |       | 1.695 | 1.706 | 1.683 | 1.460 | 1.401 | 1.589 | 9.22  |
| 45) T                                                                           | t-1,3-Dichloro... |       |       | 0.478 | 0.502 | 0.506 | 0.462 | 0.453 | 0.480 | 4.94  |
| 46) T                                                                           | cis-1,3-Dichlo... |       |       | 0.593 | 0.590 | 0.603 | 0.546 | 0.535 | 0.573 | 5.34  |
| 47) T                                                                           | 1,1,2-Trichlor... |       |       | 0.416 | 0.383 | 0.384 | 0.338 | 0.338 | 0.372 | 9.07  |
| 48) T                                                                           | Dibromochlorom... |       |       | 0.619 | 0.650 | 0.667 | 0.589 | 0.582 | 0.622 | 5.96  |
| 49) T                                                                           | Bromoform         |       |       | 0.503 | 0.515 | 0.544 | 0.487 | 0.478 | 0.505 | 5.14  |
| 50) T                                                                           | 4-Methyl-2-Pen... |       |       | 0.969 | 0.989 | 0.974 | 0.873 | 0.833 | 0.928 | 7.55  |
| 51) T                                                                           | 2-Hexanone        |       |       | 0.683 | 0.708 | 0.738 | 0.692 | 0.658 | 0.696 | 4.31  |
| 52) T                                                                           | Tetrachloroethene | 0.354 | 0.345 | 0.349 | 0.366 | 0.353 | 0.312 | 0.298 | 0.340 | 7.27  |
| 53) T                                                                           | Toluene           |       |       | 1.212 | 1.162 | 1.176 | 1.036 | 1.003 | 1.118 | 8.28  |
| 54) T                                                                           | 1,2-Dibromoethane |       | 0.662 | 0.570 | 0.586 | 0.617 | 0.533 | 0.526 | 0.582 | 8.84  |
| -----ISTD-----                                                                  |                   |       |       |       |       |       |       |       |       |       |
| 55) I                                                                           | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56) T                                                                           | 1,1,1,2-Tetrac... |       |       | 0.662 | 0.664 | 0.665 | 0.590 | 0.570 | 0.630 | 7.32  |
| 57) T                                                                           | Chlorobenzene     |       |       | 1.010 | 1.009 | 1.000 | 0.849 | 0.810 | 0.936 | 10.47 |
| 58) T                                                                           | Ethyl Benzene     |       |       | 1.801 | 1.815 | 1.824 | 1.599 | 1.543 | 1.716 | 7.84  |
| 59) T                                                                           | m/p-Xylene        |       |       | 1.463 | 1.457 | 1.476 | 1.238 | 1.210 | 1.369 | 9.71  |
| 60) T                                                                           | o-Xylene          |       |       | 1.433 | 1.471 | 1.454 | 1.224 | 1.177 | 1.352 | 10.34 |
| 61) T                                                                           | Styrene           |       |       | 0.597 | 0.649 | 0.664 | 0.578 | 0.564 | 0.610 | 7.17  |
| 62) T                                                                           | Isopropylbenzene  |       |       | 2.564 | 2.671 | 2.616 | 2.241 | 2.123 | 2.443 | 10.02 |
| 63) T                                                                           | 1,1,2,2-Tetrac... | 1.029 | 1.019 | 0.900 | 0.924 | 0.933 | 0.777 | 0.755 | 0.905 | 11.78 |
| 64) T                                                                           | n-propylbenzene   |       |       | 0.688 | 0.710 | 0.696 | 0.589 | 0.551 | 0.647 | 11.10 |
| 65) T                                                                           | tert-Butylbenzene |       |       | 2.342 | 2.383 | 2.364 | 1.901 | 1.796 | 2.157 | 13.20 |
| 66) T                                                                           | Benzyl Chloride   |       |       | 0.229 | 0.259 | 0.250 | 0.241 | 0.221 | 0.240 | 6.35  |
| 67) T                                                                           | sec-Butylbenzene  |       |       | 3.313 | 3.378 | 3.357 | 2.697 | 2.565 | 3.062 | 12.96 |
| 68) S                                                                           | 1-Bromo-4-Fluo... | 0.765 | 0.780 | 0.768 | 0.770 | 0.779 | 0.781 | 0.798 | 0.777 | 1.44  |
| 69) T                                                                           | p-Isopropyltol... |       |       | 2.726 | 2.896 | 2.871 | 2.330 | 2.186 | 2.602 | 12.47 |
| 70) T                                                                           | n-Butylbenzene    |       |       | 2.611 | 2.820 | 2.849 | 2.321 | 2.218 | 2.564 | 11.16 |
| 71) T                                                                           | 2-Chlorotoluene   |       |       | 1.959 | 1.997 | 2.018 | 1.698 | 1.645 | 1.863 | 9.53  |
| 72) T                                                                           | 4-Ethyltoluene    |       |       | 1.741 | 1.761 | 1.805 | 1.530 | 1.475 | 1.662 | 8.97  |
| 73) T                                                                           | 1,3,5-Trimethy... |       |       | 1.434 | 1.466 | 1.477 | 1.261 | 1.217 | 1.371 | 8.95  |
| 74) T                                                                           | 1,2,4-Trimethy... |       |       | 1.691 | 1.706 | 1.664 | 1.331 | 1.278 | 1.534 | 13.75 |
| 75) T                                                                           | 1,3-Dichlorobe... |       |       | 0.903 | 0.956 | 1.000 | 0.818 | 0.773 | 0.890 | 10.57 |
| 76) T                                                                           | 1,4-Dichlorobe... |       |       | 0.957 | 0.957 | 0.971 | 0.823 | 0.779 | 0.897 | 9.96  |
| 77) T                                                                           | 1,2-Dichlorobe... |       |       | 0.944 | 0.954 | 0.914 | 0.766 | 0.727 | 0.861 | 12.40 |
| 78) T                                                                           | Hexachloro-1,3... |       |       | 0.751 | 0.764 | 0.746 | 0.555 | 0.516 | 0.667 | 18.08 |
| 79) T                                                                           | Naphthalene       |       | 1.265 | 1.532 | 1.766 | 1.971 | 1.580 | 1.507 | 1.604 | 15.04 |
| 80) T                                                                           | Naphthalene,2-... |       |       | 0.255 | 0.355 | 0.515 | 0.478 | 0.485 | 0.418 | 26.20 |
| 81) T                                                                           | 1,2,4-Trichlor... |       |       | 0.553 | 0.726 | 0.803 | 0.638 | 0.608 | 0.666 | 14.90 |

(#) = Out of Range



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043105.D  
 Acq On : 14 Oct 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Oct 15 01:51:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.790  | 49    | 103971   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 341790   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 309230   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 241468   | 10.046   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 100.500% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 132845   | 8.987    | ppbv  | 100      |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 150832   | 9.431    | ppbv  | 100      |
| 4) Chloromethane              | 1.535  | 50    | 51934    | 8.869    | ppbv  | 100      |
| 5) Vinyl Chloride             | 1.583  | 62    | 50044    | 8.713    | ppbv  | 100      |
| 6) Bromomethane               | 1.671  | 94    | 27062    | 8.593    | ppbv  | 100      |
| 7) Chloroethane               | 1.706  | 64    | 19941    | 8.492    | ppbv  | 100      |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 108109   | 9.049    | ppbv  | 100      |
| 9) Propene                    | 1.483  | 41    | 68116    | 9.602    | ppbv  | 100      |
| 10) Heptane                   | 4.985  | 43    | 187423   | 9.217    | ppbv  | 100      |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 129180   | 8.935    | ppbv  | 100      |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 101442   | 8.715    | ppbv  | 100      |
| 13) Ethanol                   | 1.722  | 45    | 20045    | 7.640    | ppbv  | 100      |
| 14) Bromoethene               | 1.784  | 108   | 38553    | 8.916    | ppbv  | 100      |
| 15) Acetone                   | 1.836  | 43    | 113399   | 8.047    | ppbv  | 100      |
| 16) 1,3-Butadiene             | 1.612  | 39    | 57406    | 8.596    | ppbv  | 100      |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 175630   | 9.130    | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 45413    | 8.949    | ppbv  | 100      |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 75355    | 8.634    | ppbv  | 97       |
| 20) Methylene Chloride        | 2.065  | 84    | 42212    | 7.620    | ppbv  | 100      |
| 21) Allyl Chloride            | 2.098  | 41    | 94625    | 9.145    | ppbv  | 100      |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 53146    | 8.761    | ppbv  | 100      |
| 23) Vinyl Acetate             | 2.467  | 43    | 168706   | 8.218    | ppbv  | 100      |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 107153   | 9.143    | ppbv  | 100      |
| 25) Ethyl Acetate             | 2.839  | 43    | 325662   | 9.371    | ppbv  | 100      |
| 26) Hexane                    | 2.829  | 57    | 146168   | 9.128    | ppbv  | 99       |
| 27) Carbon Disulfide          | 2.153  | 76    | 136729   | 9.319    | ppbv  | 99       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 61076    | 8.384    | ppbv  | 98       |
| 29) Chloroform                | 2.852  | 83    | 211071   | 9.097    | ppbv  | 100      |
| 30) Cyclohexane               | 3.862  | 84    | 126226   | 9.037    | ppbv  | 100      |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 146072   | 9.553    | ppbv  | 100      |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 222043   | 9.189    | ppbv  | 100      |
| 34) 2-Butanone                | 2.557  | 43    | 207274   | 8.971    | ppbv  | 100      |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 221937   | 9.032    | ppbv  | 100      |
| 36) Benzene                   | 3.661  | 78    | 297653   | 9.246    | ppbv  | 100      |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 165898   | 8.946    | ppbv  | 100      |
| 38) Trichloroethene           | 4.554  | 130   | 116947   | 8.708    | ppbv  | 100      |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 108446   | 9.207    | ppbv  | 100      |
| 40) 1,4-Dioxane               | 4.583  | 88    | 48201    | 9.153    | ppbv  | # 97     |
| 41) Tetrahydrofuran           | 3.056  | 42    | 117069   | 9.076    | ppbv  | 100      |
| 42) Bromodichloromethane      | 4.496  | 83    | 238353   | 9.286    | ppbv  | 100      |
| 43) Methyl Methacrylate       | 4.881  | 69    | 153927   | 9.371    | ppbv  | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57    | 499148   | 9.273    | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.419  | 75    | 157856   | 9.620    | ppbv  | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043105.D  
 Acq On : 14 Oct 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Oct 15 01:51:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

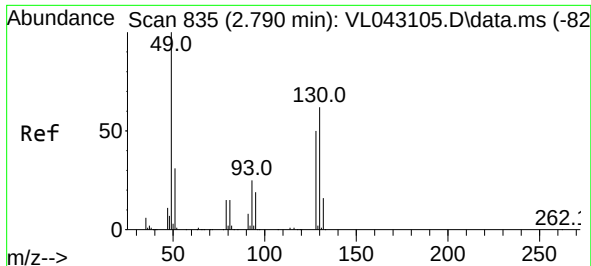
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 186533   | 9.525  | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 115419   | 9.082  | ppbv  | 100      |
| 48) Dibromochloromethane      | 7.390  | 129  | 201349   | 9.476  | ppbv  | 100      |
| 49) Bromoform                 | 9.487  | 173  | 166377   | 9.633  | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 298401   | 9.362  | ppbv  | 100      |
| 51) 2-Hexanone                | 7.438  | 43   | 236391   | 9.940  | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.228  | 164  | 106710   | 9.192  | ppbv  | 100      |
| 53) Toluene                   | 6.940  | 91   | 354007   | 9.266  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 182074   | 9.080  | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 182585   | 9.367  | ppbv  | 100      |
| 57) Chlorobenzene             | 8.927  | 112  | 262566   | 9.076  | ppbv  | 100      |
| 58) Ethyl Benzene             | 9.358  | 91   | 494344   | 9.241  | ppbv  | 100      |
| 59) m/p-Xylene                | 9.536  | 91   | 765374m  | 18.067 | ppbv  |          |
| 60) o-Xylene                  | 9.969  | 91   | 378462   | 9.053  | ppbv  | 100      |
| 61) Styrene                   | 9.875  | 104  | 178859   | 9.477  | ppbv  | 100      |
| 62) Isopropylbenzene          | 10.542 | 105  | 692992   | 9.173  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 240245   | 8.582  | ppbv  | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 182233   | 9.112  | ppbv  | 100      |
| 65) tert-Butylbenzene         | 11.536 | 119  | 587750   | 8.810  | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.617 | 91   | 74574    | 10.009 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 11.769 | 105  | 834052   | 8.809  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 720433   | 8.955  | ppbv  | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 717743   | 9.053  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 524961   | 9.111  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 473042   | 9.202  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 389818   | 9.195  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 411619   | 8.676  | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 252926   | 9.192  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 254461   | 9.171  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 236724   | 8.893  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 171777   | 8.334  | ppbv  | 100      |
| 79) Naphthalene               | 13.517 | 128  | 488672   | 9.972  | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 147897   | 11.431 | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 197210   | 9.582  | ppbv  | 100      |

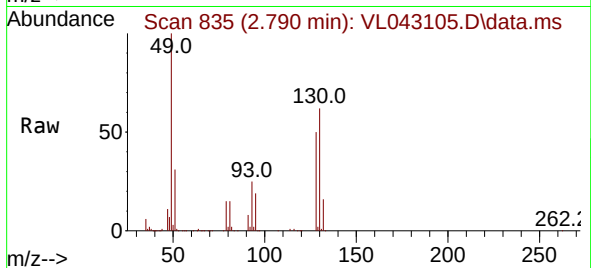
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

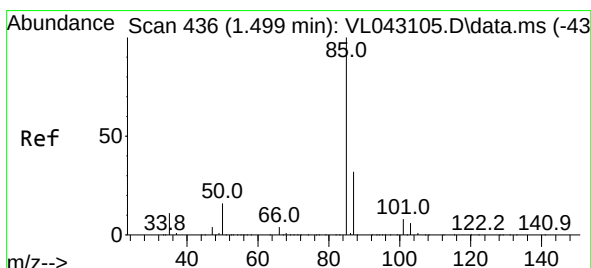
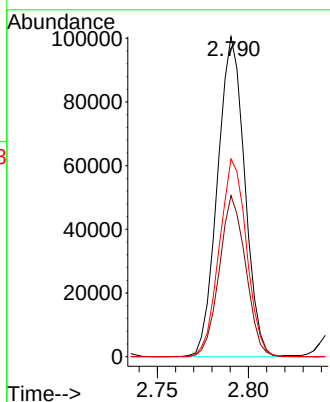
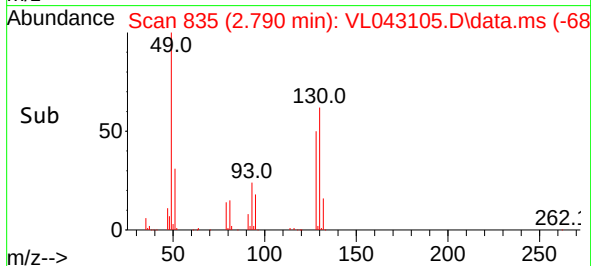
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 49 Resp: 10397  
Ion Ratio Lower Upper  
49 100  
128 48.9 24.4 73.4  
130 62.0 31.0 93.0

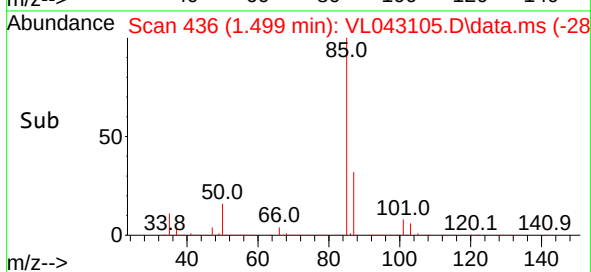
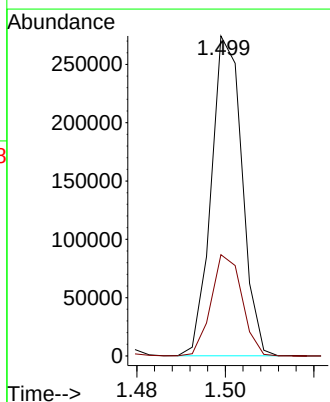
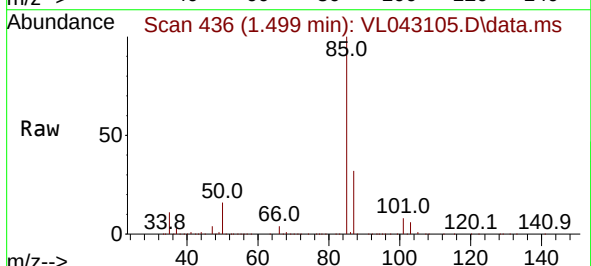
Manual Integrations  
APPROVED

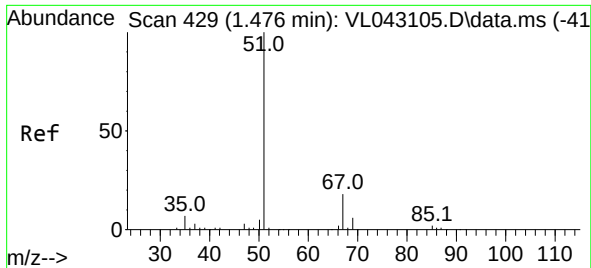
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#2  
Dichlorodifluoromethane  
Concen: 8.987 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845  
Ion Ratio Lower Upper  
85 100  
87 31.6 25.3 37.9





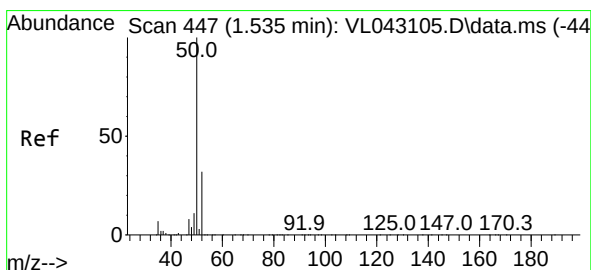
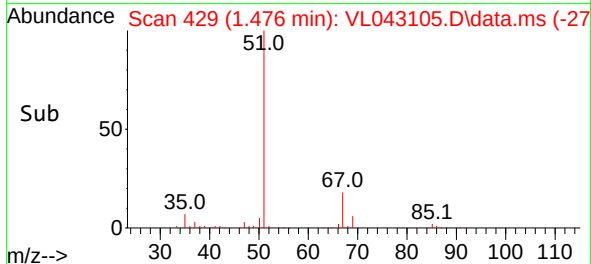
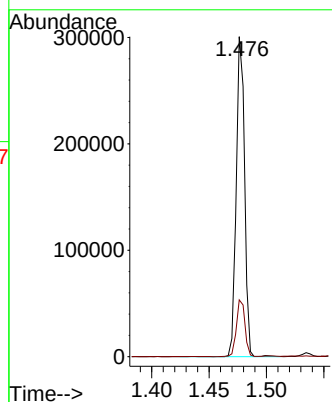
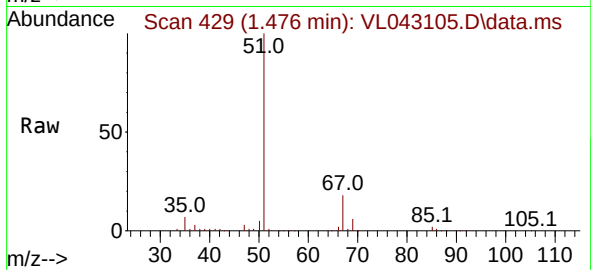
#3  
Chlorodifluoromethane  
Concen: 9.431 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 51 Resp: 150832  
Ion Ratio Lower Upper  
51 100  
67 18.9 15.1 22.7

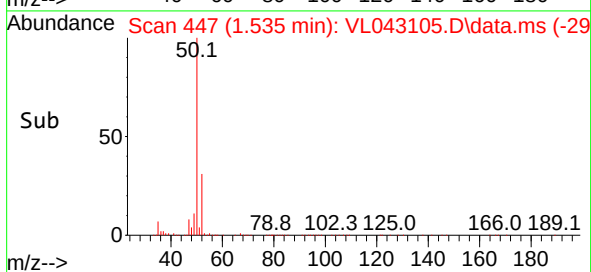
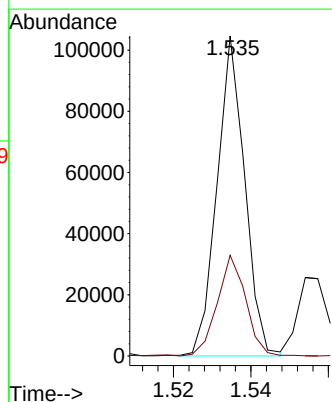
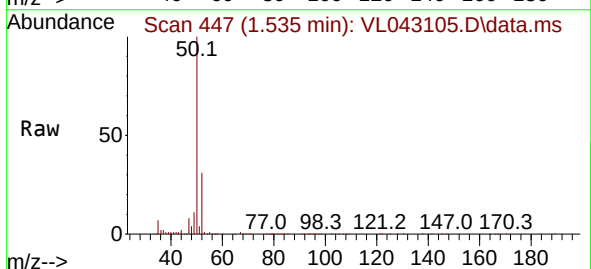
Manual Integrations  
APPROVED

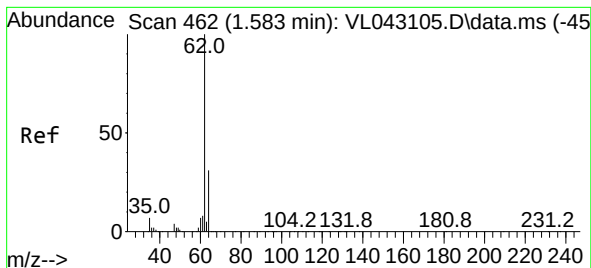
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#4  
Chloromethane  
Concen: 8.869 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

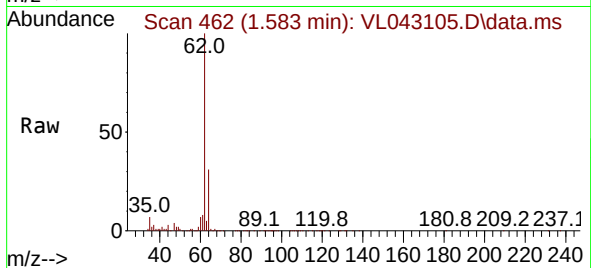
Tgt Ion: 50 Resp: 51934  
Ion Ratio Lower Upper  
50 100  
52 31.5 25.2 37.8





#5  
 Vinyl Chloride  
 Concen: 8.713 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

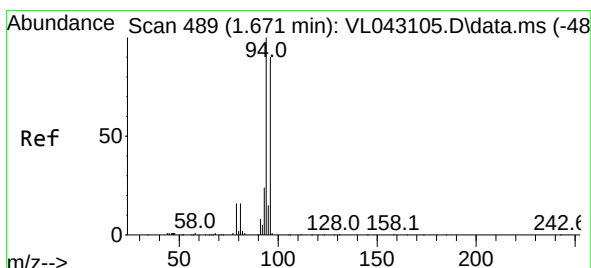
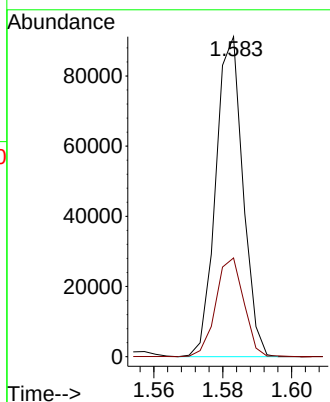
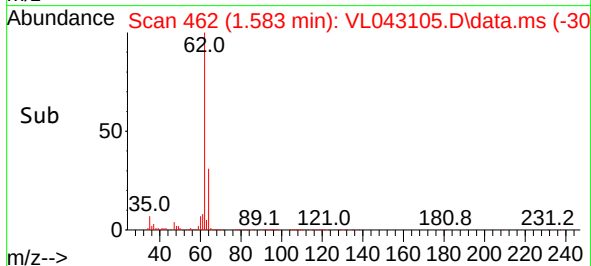
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010



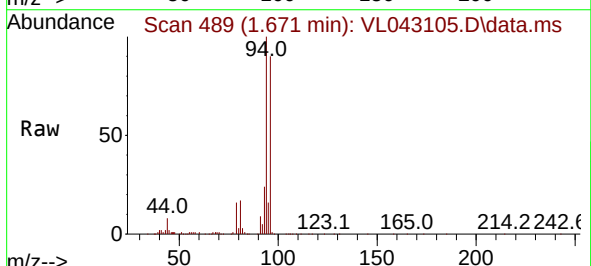
Tgt Ion: 62 Resp: 50044  
 Ion Ratio Lower Upper  
 62 100  
 64 30.7 24.6 36.8

Manual Integrations  
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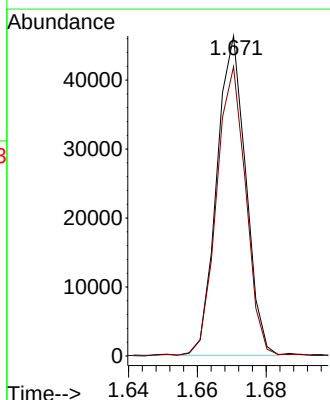
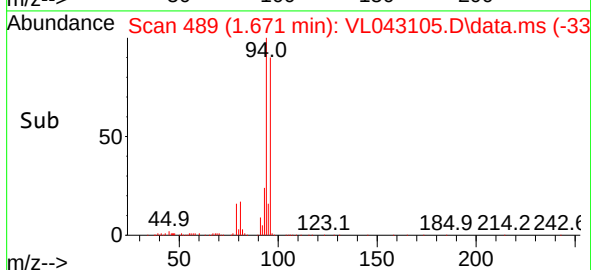
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

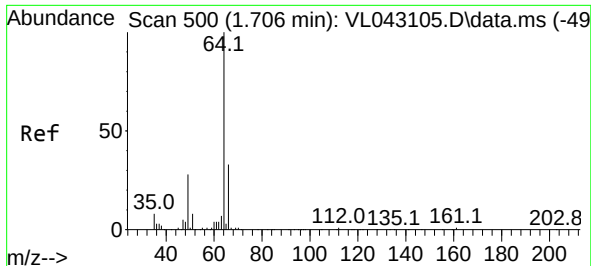


#6  
 Bromomethane  
 Concen: 8.593 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31



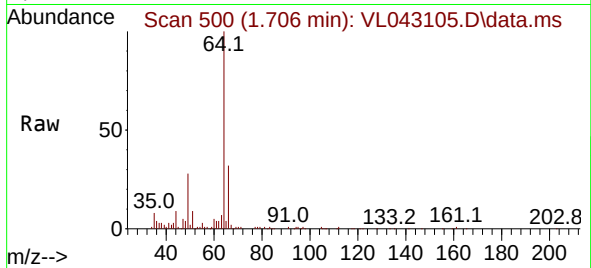
Tgt Ion: 94 Resp: 27062  
 Ion Ratio Lower Upper  
 94 100  
 96 90.3 72.2 108.4





#7  
Chloroethane  
Concen: 8.492 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

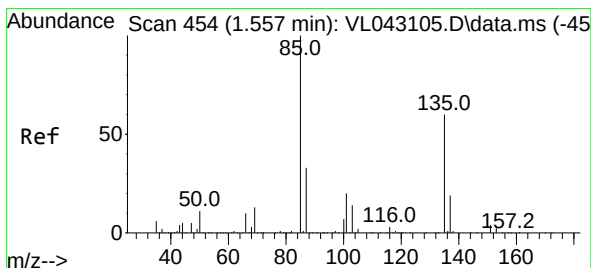
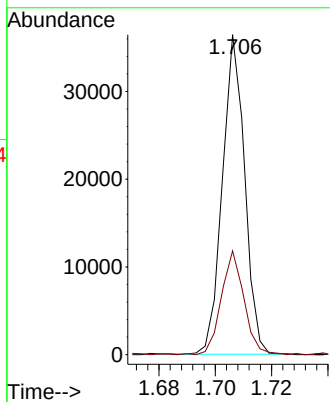
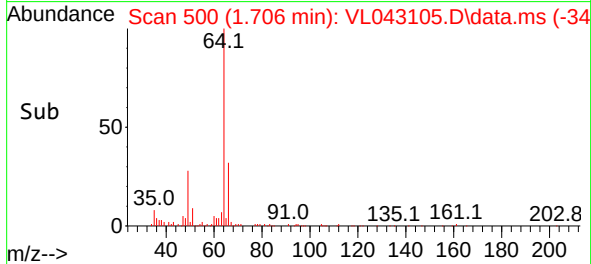
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



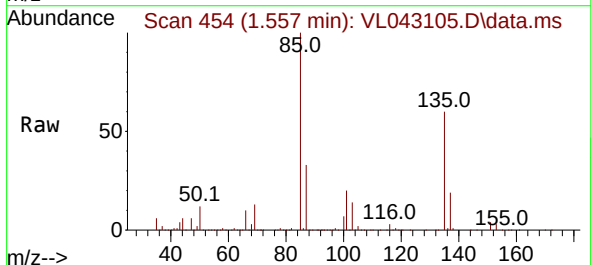
Tgt Ion: 64 Resp: 1994  
Ion Ratio Lower Upper  
64 100  
66 32.5 26.0 39.0

Manual Integrations  
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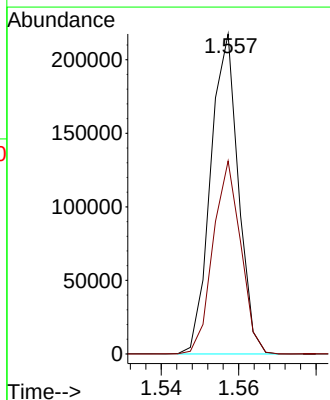
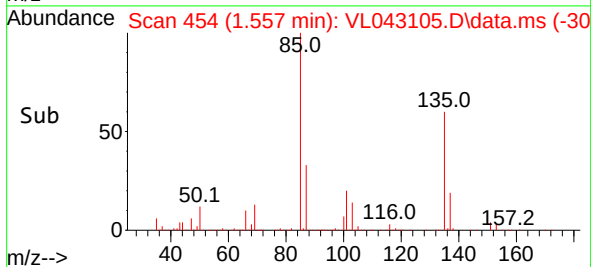
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

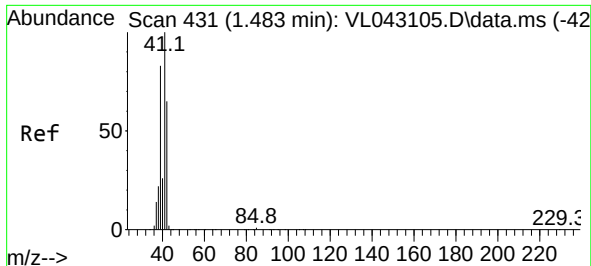


#8  
Dichlorotetrafluoroethane  
Concen: 9.049 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



Tgt Ion: 85 Resp: 108109  
Ion Ratio Lower Upper  
85 100  
135 60.3 48.2 72.4





#9

Propene

Concen: 9.602 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 68110

Ion Ratio Lower Upper

41 100

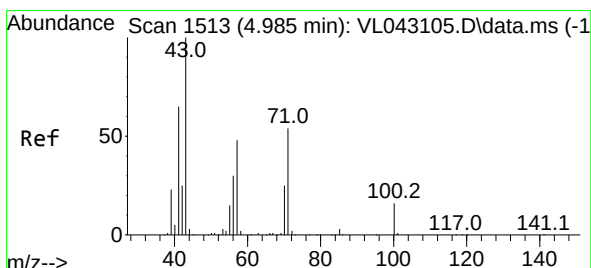
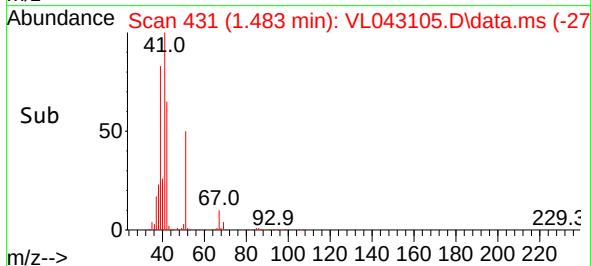
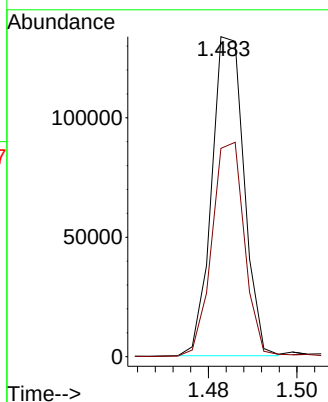
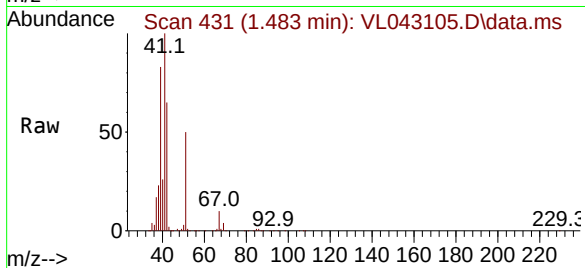
42 68.9 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 9.217 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.000 min

Lab File: VL043105.D

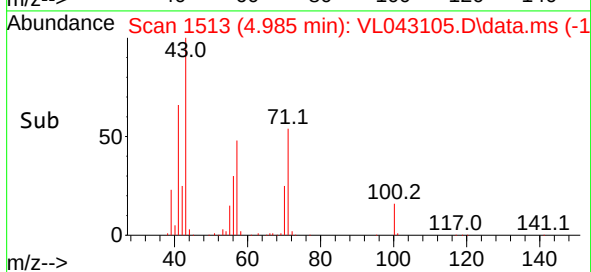
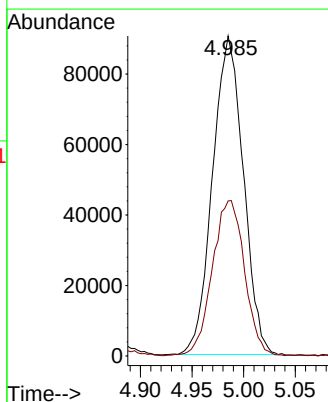
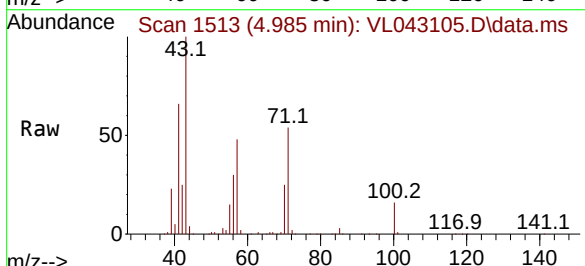
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 187423

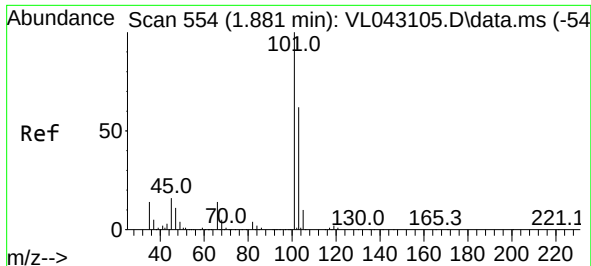
Ion Ratio Lower Upper

43 100

57 50.9 40.8 61.2

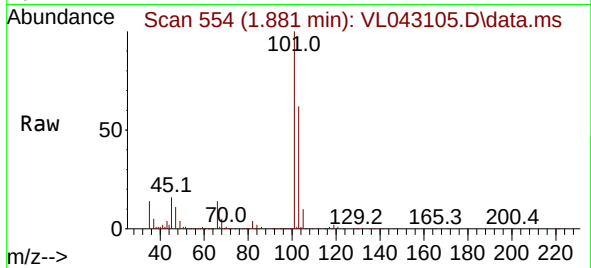






#11  
Trichlorofluoromethane  
Concen: 8.935 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

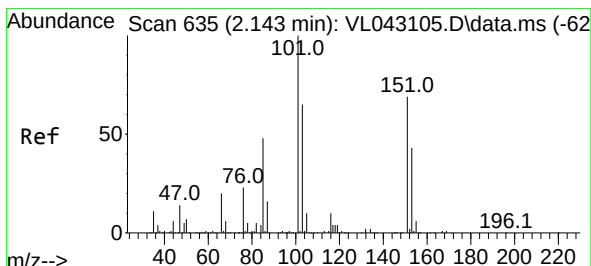
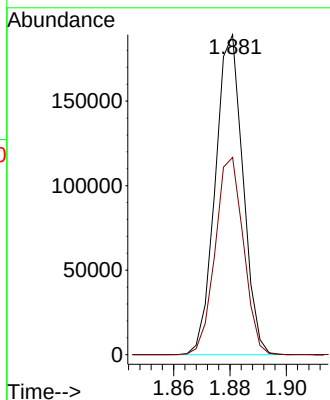
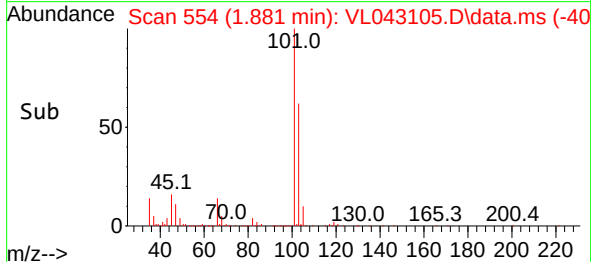
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



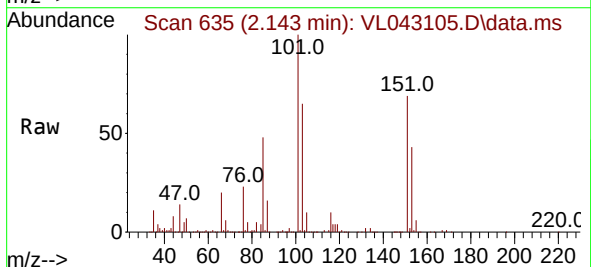
Tgt Ion:101 Resp: 129180  
Ion Ratio Lower Upper  
101 100  
103 61.6 49.3 73.9

Manual Integrations  
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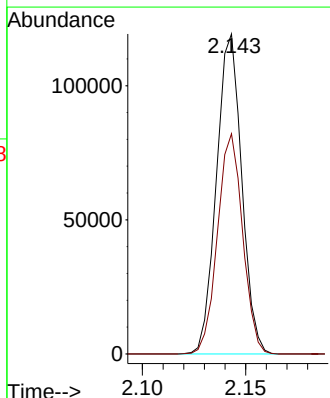
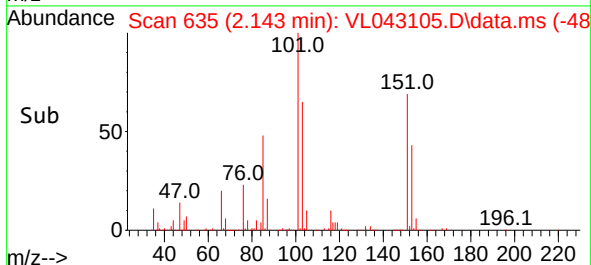
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

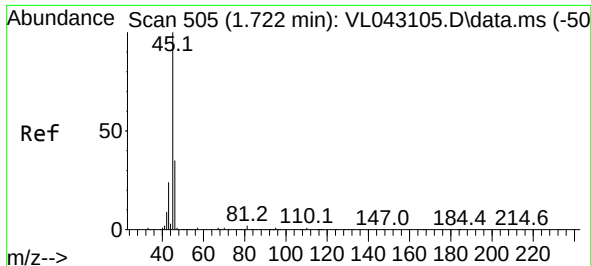


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 8.715 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



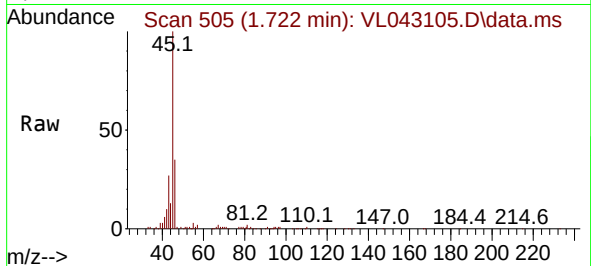
Tgt Ion:101 Resp: 101442  
Ion Ratio Lower Upper  
101 100  
151 68.4 54.7 82.1





#13  
Ethanol  
Concen: 7.640 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

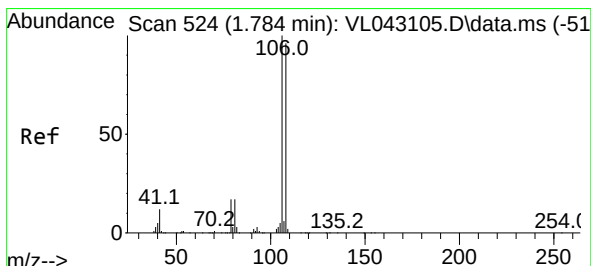
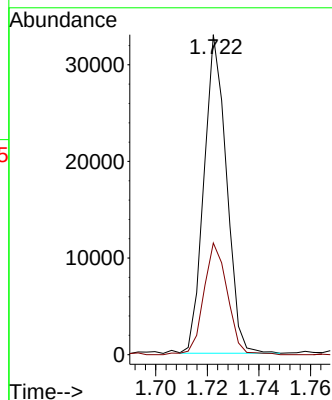
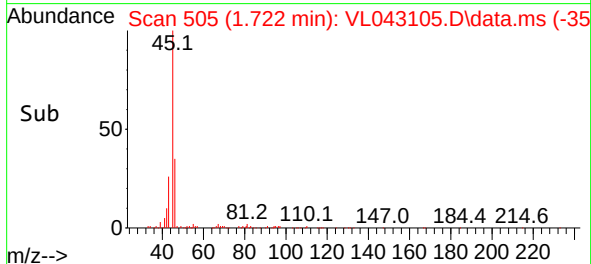
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



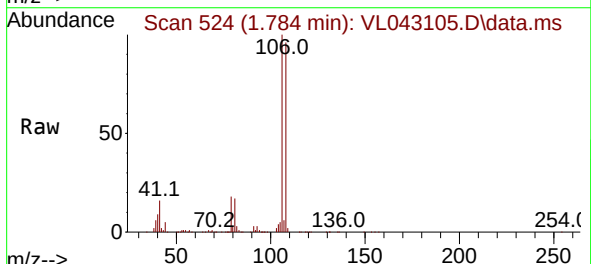
Tgt Ion: 45 Resp: 20045  
Ion Ratio Lower Upper  
45 100  
46 36.8 14.7 58.9

Manual Integrations  
APPROVED

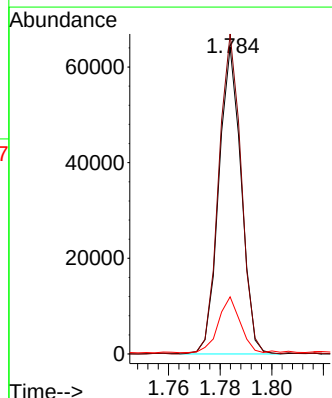
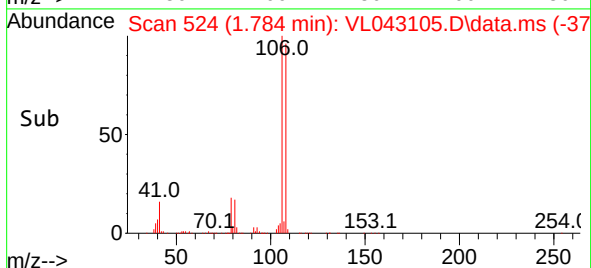
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

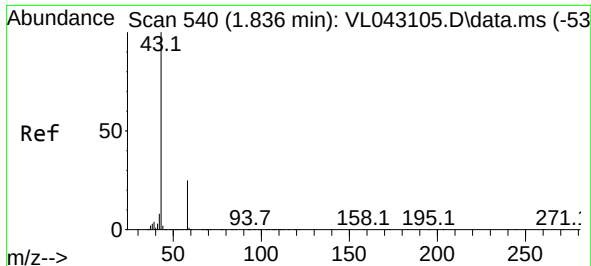


#14  
Bromoethene  
Concen: 8.916 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



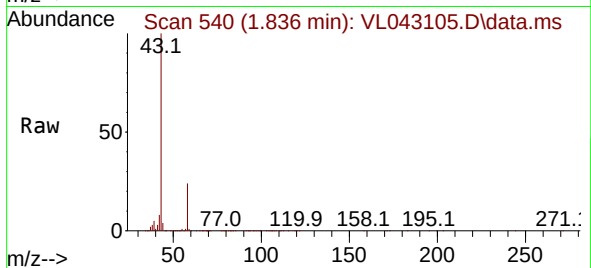
Tgt Ion:108 Resp: 38553  
Ion Ratio Lower Upper  
108 100  
106 105.5 84.4 126.6  
79 19.1 15.3 22.9





#15  
Acetone  
Concen: 8.047 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

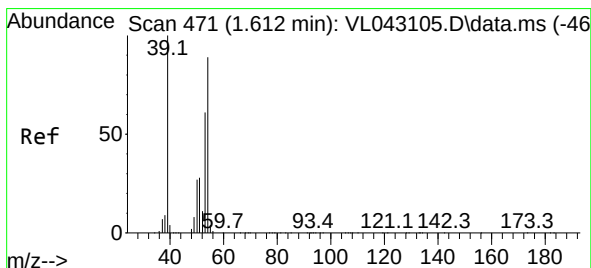
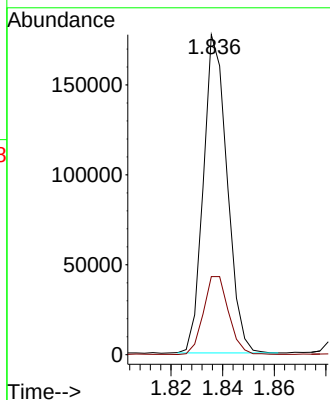
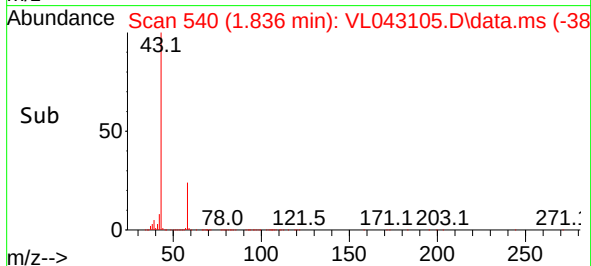
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



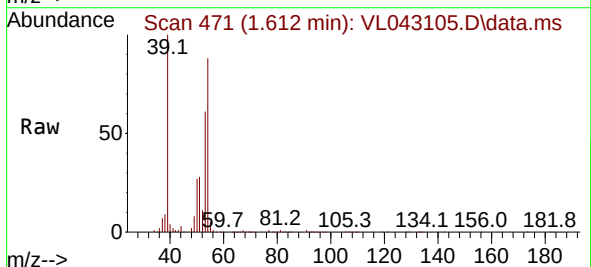
Tgt Ion: 43 Resp: 113399  
Ion Ratio Lower Upper  
43 100  
58 26.0 20.8 31.2

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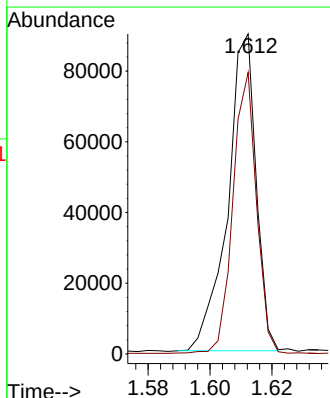
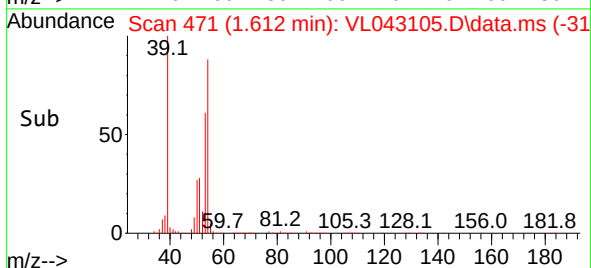
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

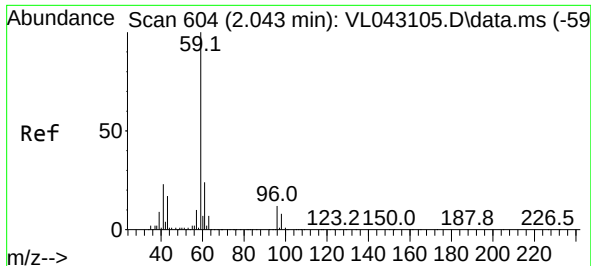


#16  
1,3-Butadiene  
Concen: 8.596 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



Tgt Ion: 39 Resp: 57406  
Ion Ratio Lower Upper  
39 100  
54 73.7 59.0 88.4





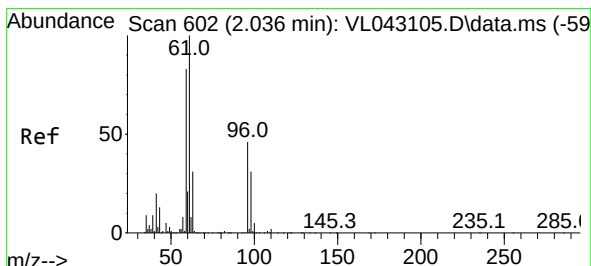
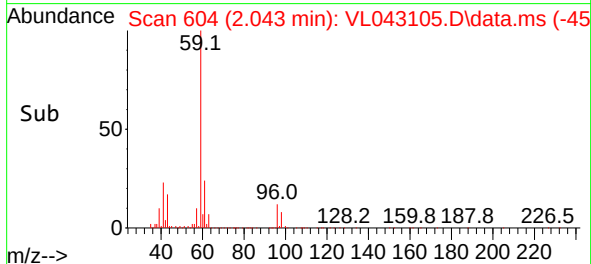
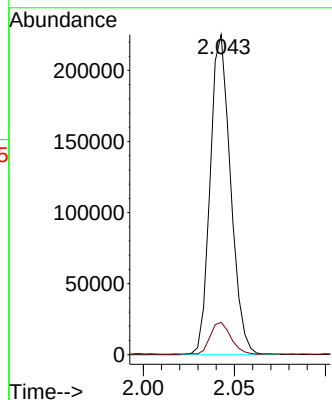
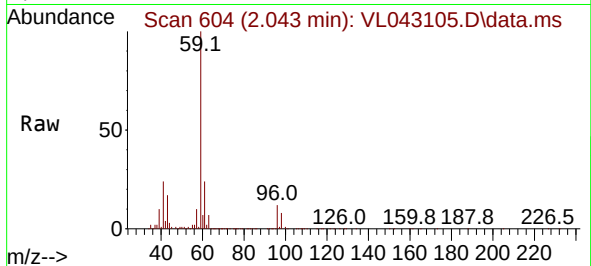
#17  
tert-Butyl alcohol  
Concen: 9.130 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 59 Resp: 175630  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.2 12.4

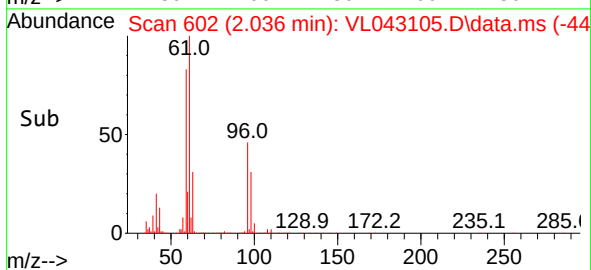
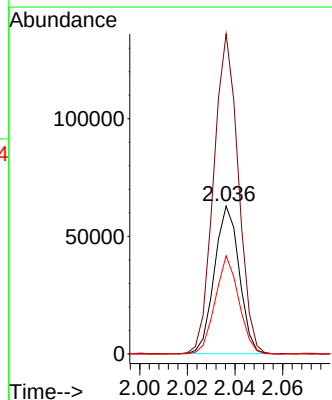
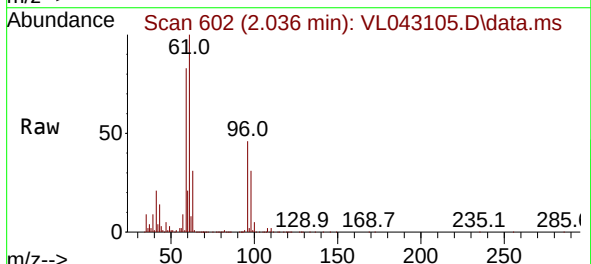
Manual Integrations  
APPROVED

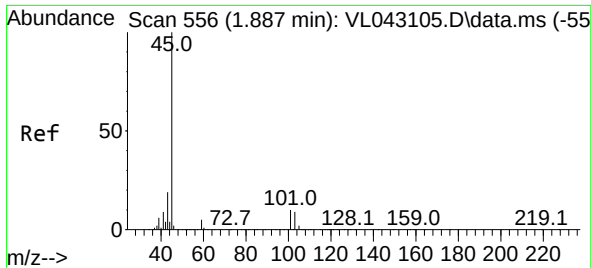
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#18  
1,1-Dichloroethene  
Concen: 8.949 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 96 Resp: 45413  
Ion Ratio Lower Upper  
96 100  
61 216.7 173.4 260.0  
98 66.5 53.2 79.8





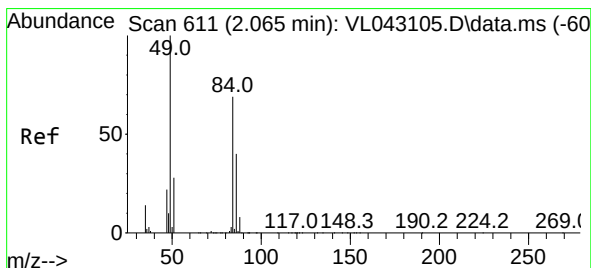
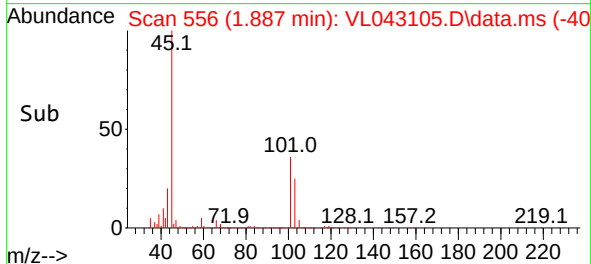
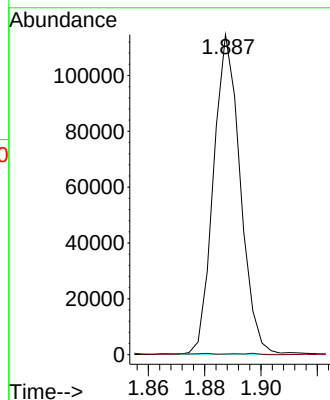
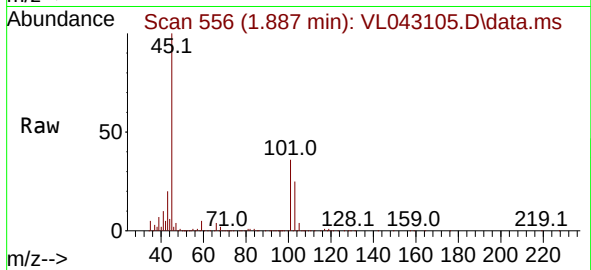
#19  
Isopropyl Alcohol  
Concen: 8.634 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 45 Resp: 7535  
Ion Ratio Lower Upper  
45 100  
58 41.1 31.3 46.9

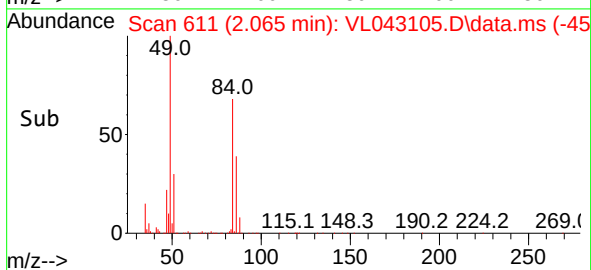
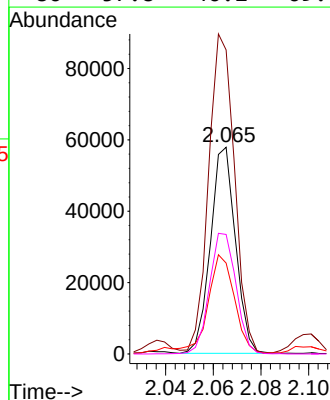
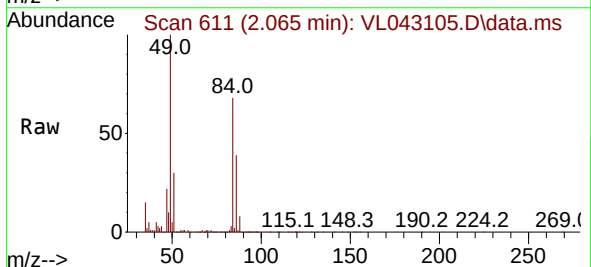
Manual Integrations  
APPROVED

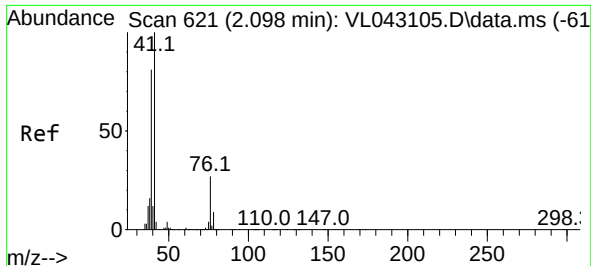
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#20  
Methylene Chloride  
Concen: 7.620 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212  
Ion Ratio Lower Upper  
84 100  
49 145.8 116.6 175.0  
51 43.5 34.8 52.2  
86 57.8 46.2 69.4





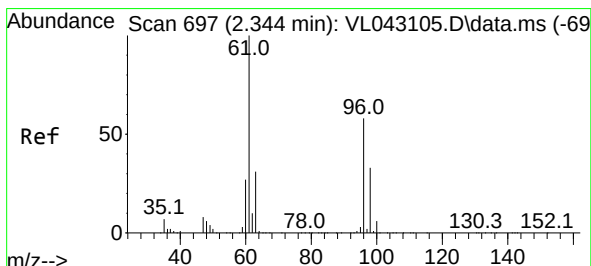
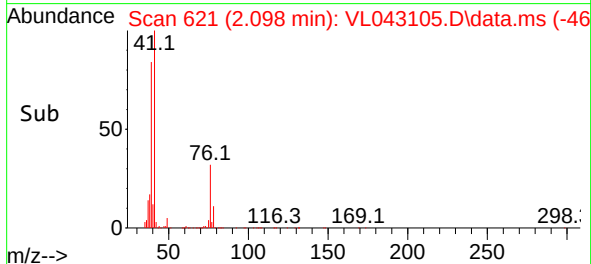
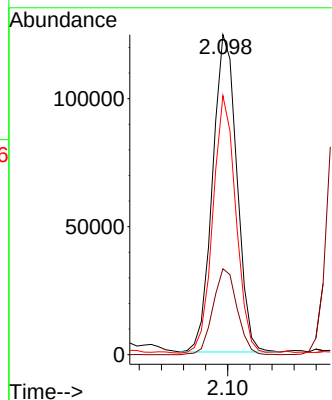
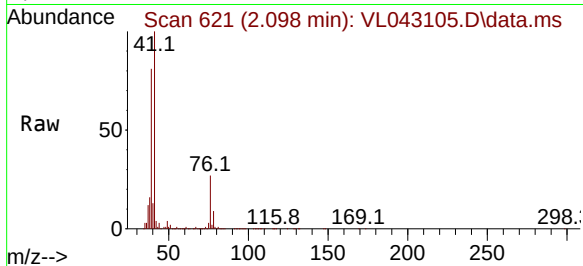
#21  
 Allyl Chloride  
 Concen: 9.145 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 41 Resp: 9462  
 Ion Ratio Lower Upper  
 41 100  
 76 26.9 21.5 32.3  
 39 76.4 60.8 91.2

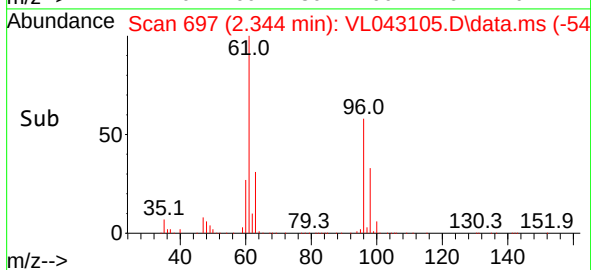
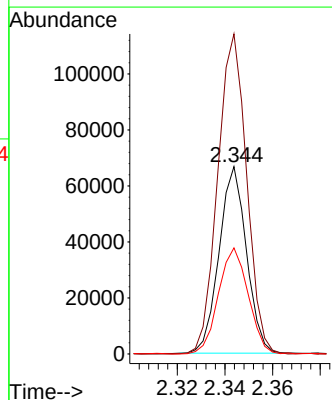
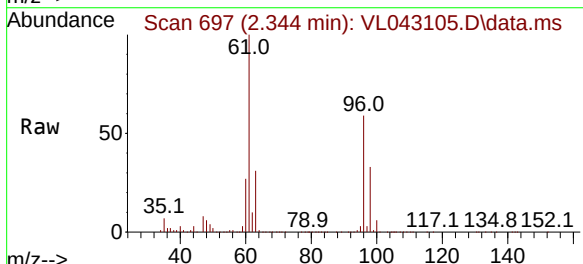
Manual Integrations  
 APPROVED

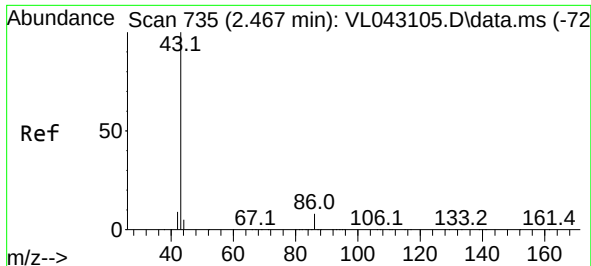
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 8.761 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

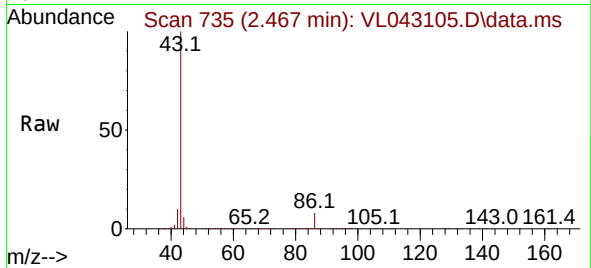
Tgt Ion: 96 Resp: 53146  
 Ion Ratio Lower Upper  
 96 100  
 61 171.3 137.0 205.6  
 98 56.9 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 8.218 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

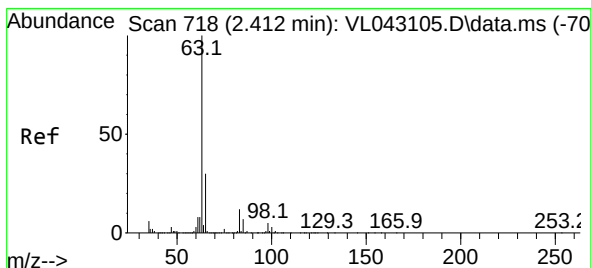
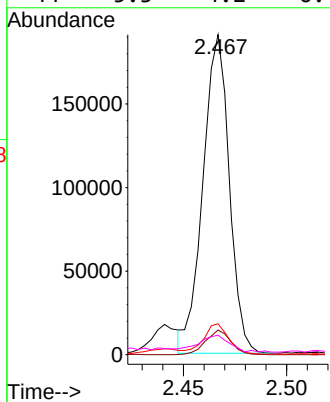
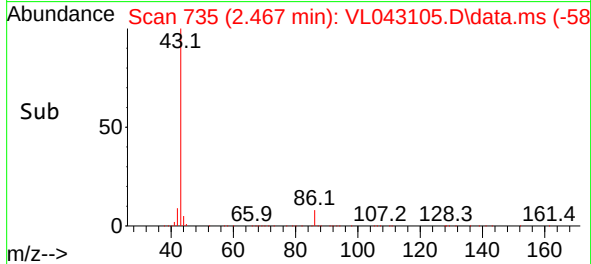
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



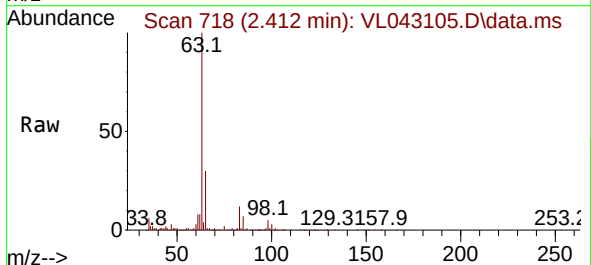
Tgt Ion: 43 Resp: 168700  
 Ion Ratio Lower Upper  
 43 100  
 86 7.7 6.2 9.2  
 42 9.5 7.6 11.4  
 44 5.3 4.2 6.4

Manual Integrations  
 APPROVED

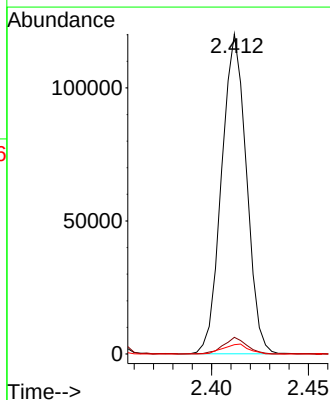
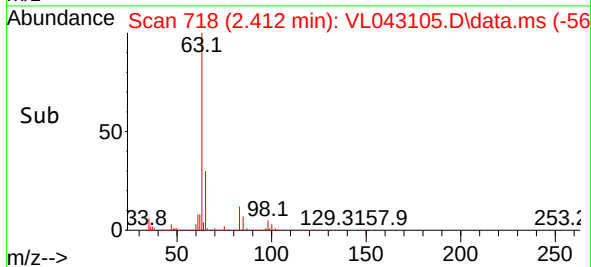
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

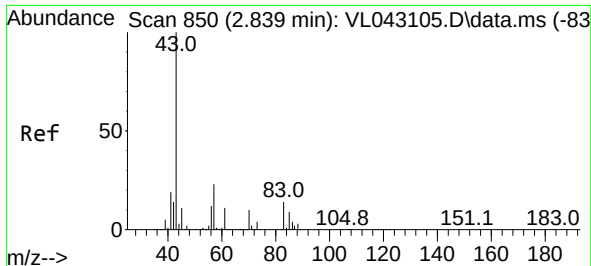


#24  
 1,1-Dichloroethane  
 Concen: 9.143 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31



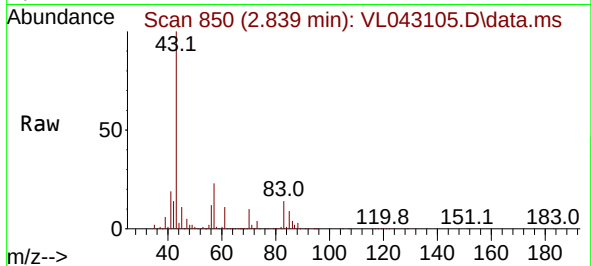
Tgt Ion: 63 Resp: 107153  
 Ion Ratio Lower Upper  
 63 100  
 98 5.2 2.6 7.8  
 100 2.9 1.5 4.4





#25  
Ethyl Acetate  
Concen: 9.371 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

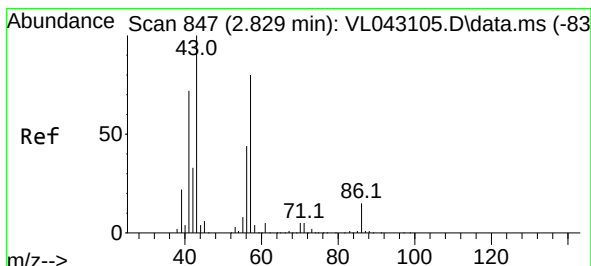
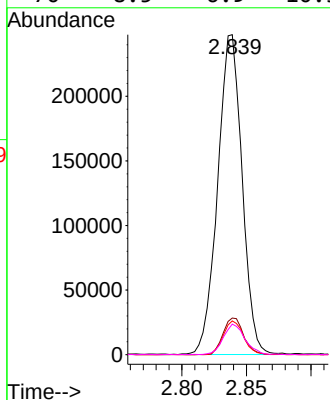
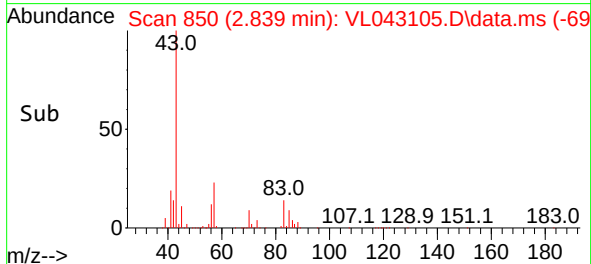
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



| Tgt Ion:  | 43  | Resp: | 325662 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 43        | 100 |       |        |
| 45        | 9.8 | 7.8   | 11.8   |
| 61        | 8.8 | 7.0   | 10.6   |
| 70        | 8.5 | 6.9   | 10.3   |

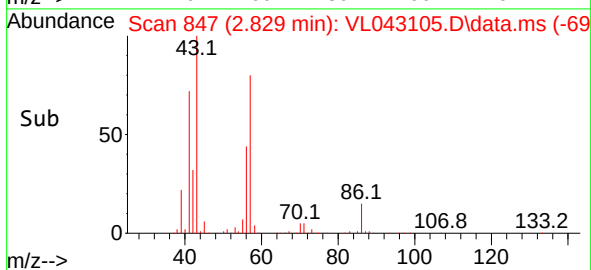
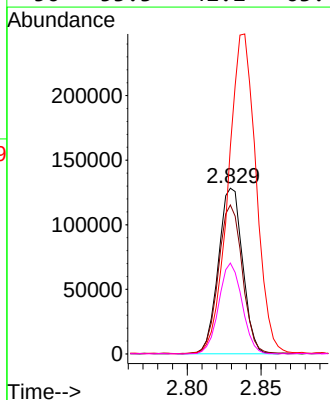
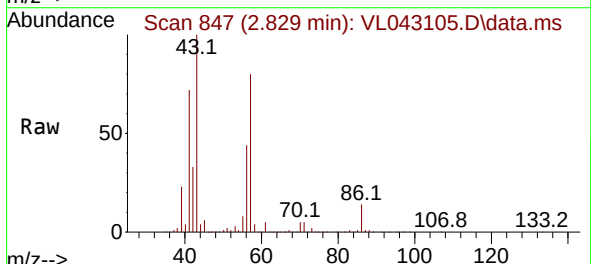
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

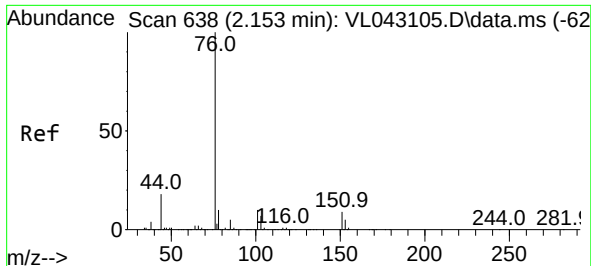


#26  
Hexane  
Concen: 9.128 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

| Tgt Ion:  | 57    | Resp: | 146168 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 41        | 90.2  | 71.4  | 107.0  |
| 43        | 222.4 | 178.5 | 267.7  |
| 56        | 53.3  | 42.2  | 63.4   |







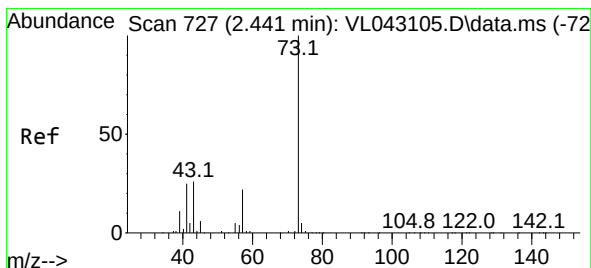
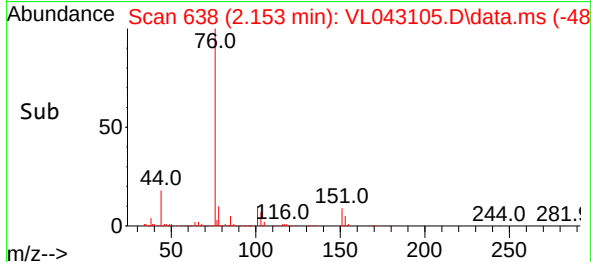
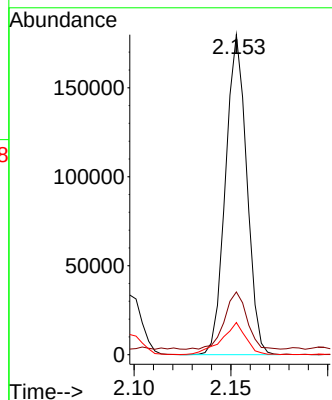
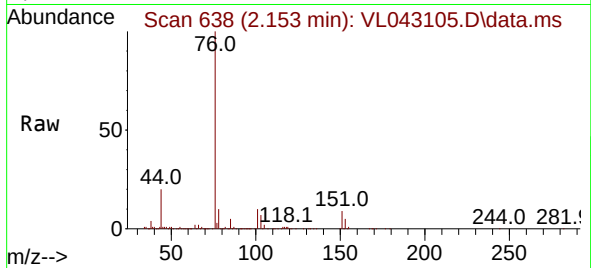
#27  
Carbon Disulfide  
Concen: 9.319 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 76 Resp: 136729  
Ion Ratio Lower Upper  
76 100  
44 20.1 16.7 25.1  
78 11.5 9.3 13.9

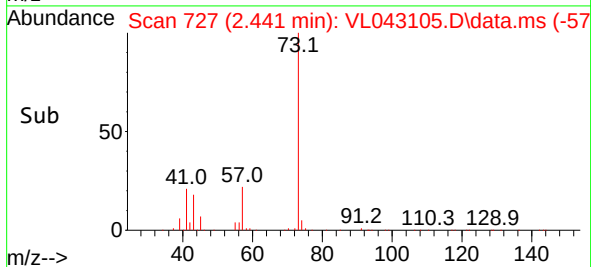
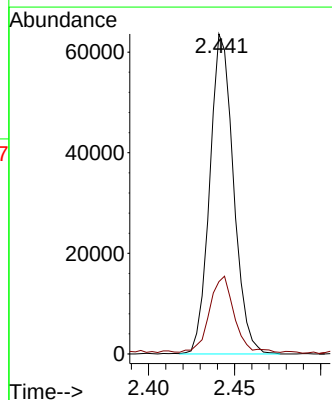
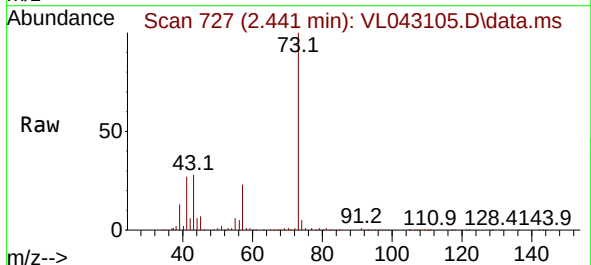
Manual Integrations  
APPROVED

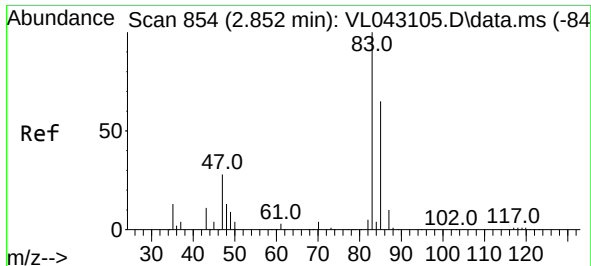
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#28  
Methyl tert-Butyl Ether  
Concen: 8.384 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076  
Ion Ratio Lower Upper  
73 100  
57 24.8 20.5 30.7





#29

Chloroform

Concen: 9.097 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 83 Resp: 21107

Ion Ratio Lower Upper

83 100

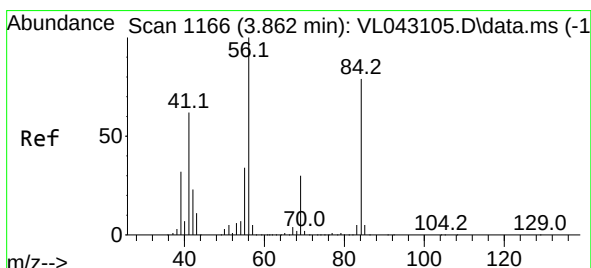
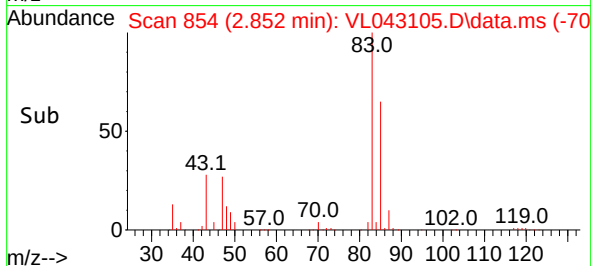
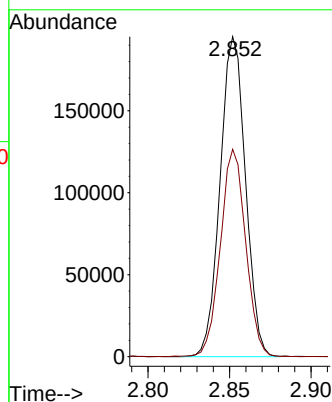
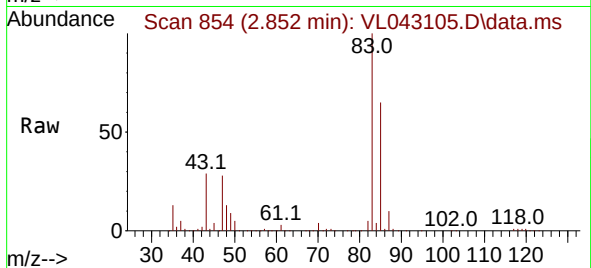
85 64.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 9.037 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

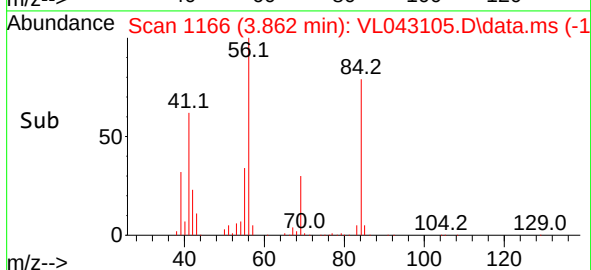
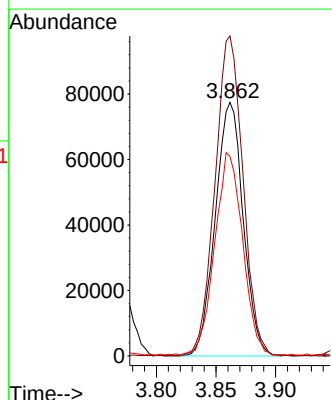
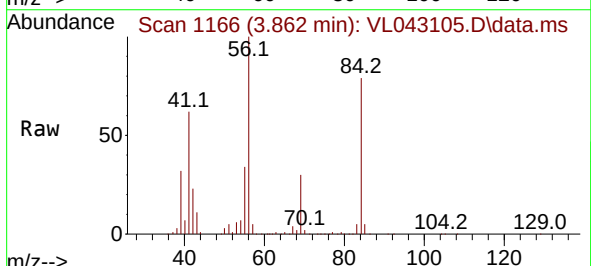
Tgt Ion: 84 Resp: 126226

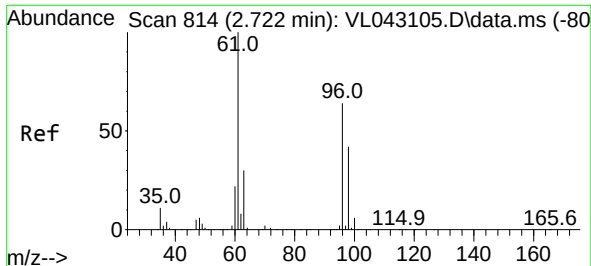
Ion Ratio Lower Upper

84 100

56 126.5 100.9 151.3

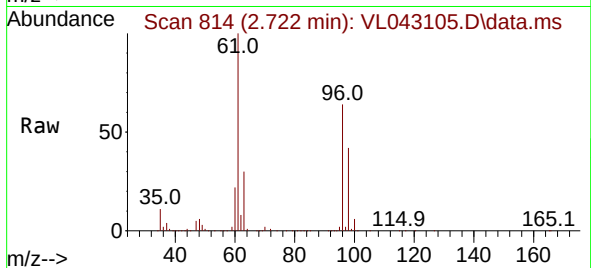
41 79.8 63.8 95.6





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.553 ppbv  
 RT: 2.722 min Scan# 814  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

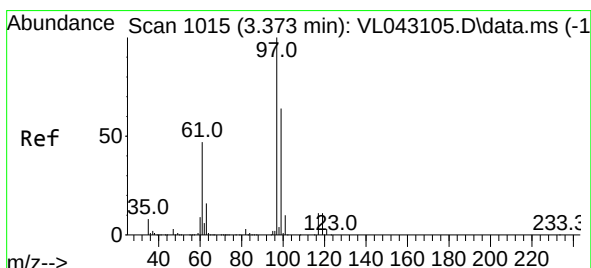
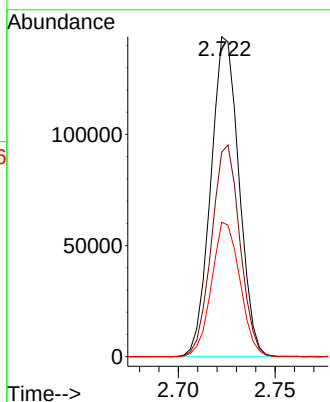
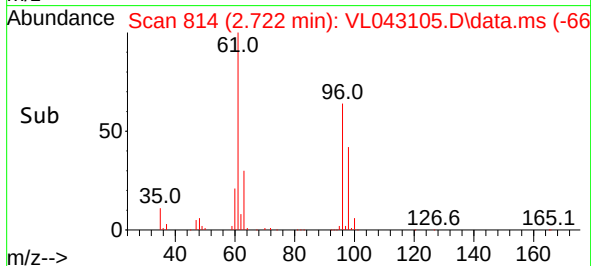
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



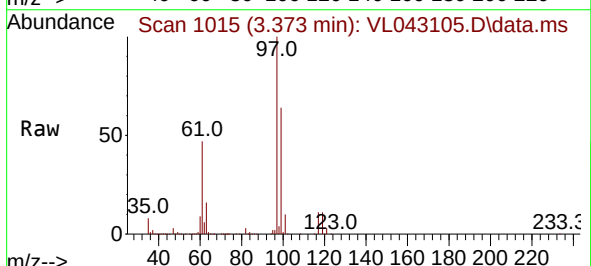
Tgt Ion: 61 Resp: 146072  
 Ion Ratio Lower Upper  
 61 100  
 96 63.8 51.0 76.6  
 98 41.9 33.5 50.3

Manual Integrations  
 APPROVED

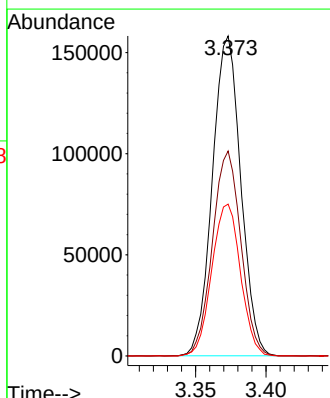
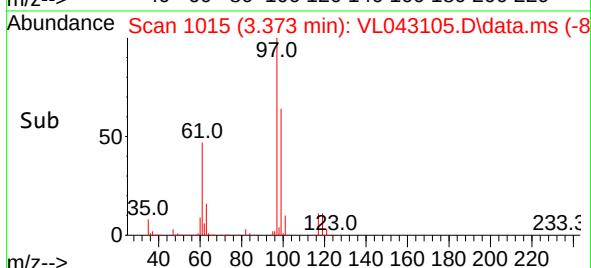
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

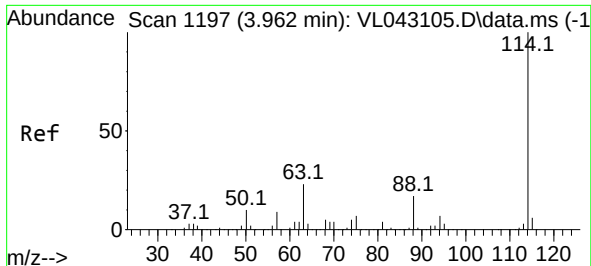


#32  
 1,1,1-Trichloroethane  
 Concen: 9.189 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31



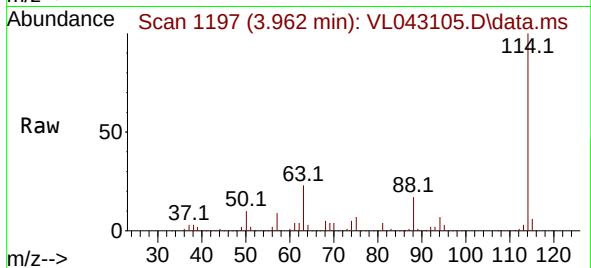
Tgt Ion: 97 Resp: 222043  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 51.3 76.9  
 61 48.0 38.4 57.6





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

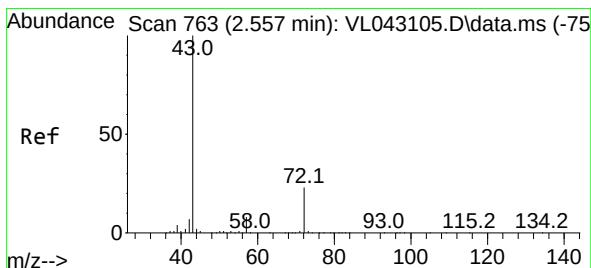
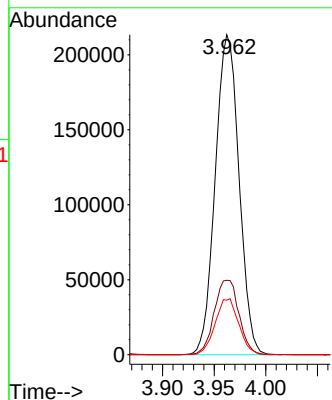
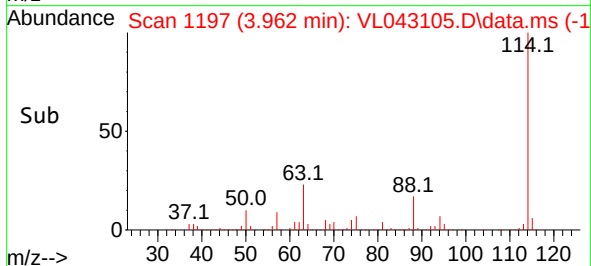
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



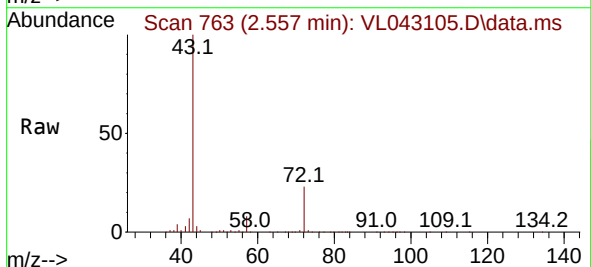
Tgt Ion:114 Resp: 341790  
Ion Ratio Lower Upper  
114 100  
63 24.1 19.3 28.9  
88 17.4 13.9 20.9

Manual Integrations  
APPROVED

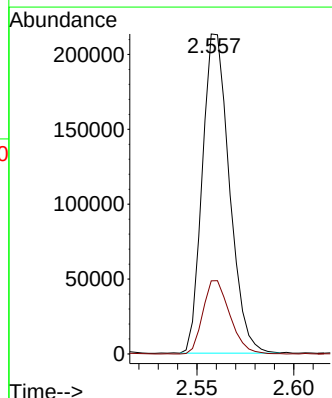
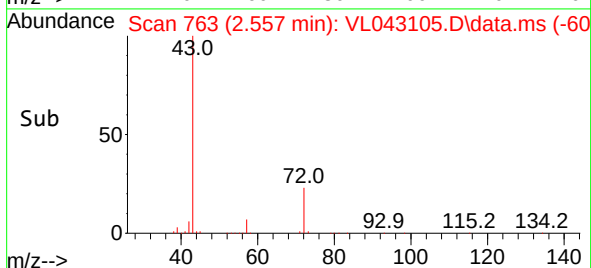
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

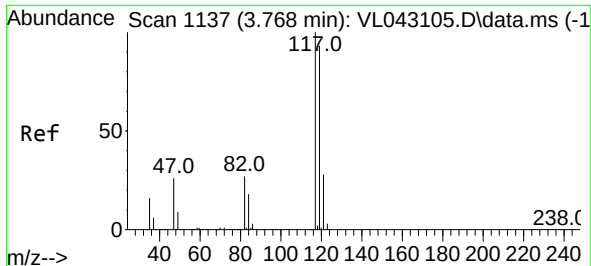


#34  
2-Butanone  
Concen: 8.971 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



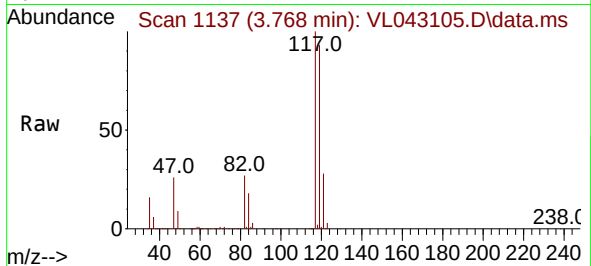
Tgt Ion: 43 Resp: 207274  
Ion Ratio Lower Upper  
43 100  
72 22.8 18.4 27.6





#35  
Carbon Tetrachloride  
Concen: 9.032 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

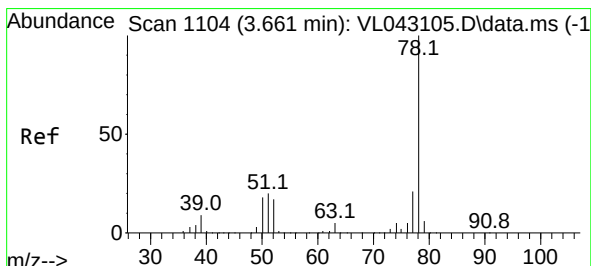
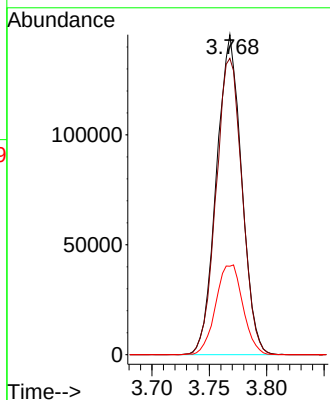
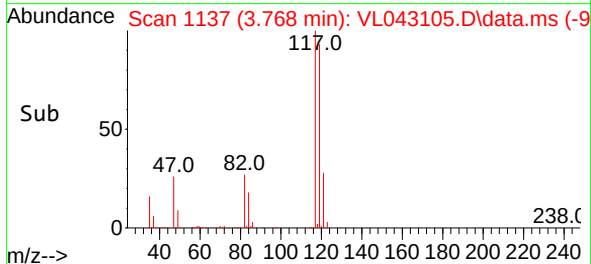
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 117 Resp: 22193  
Ion Ratio Lower Upper  
117 100  
119 92.6 74.1 111.1  
121 27.7 22.2 33.2

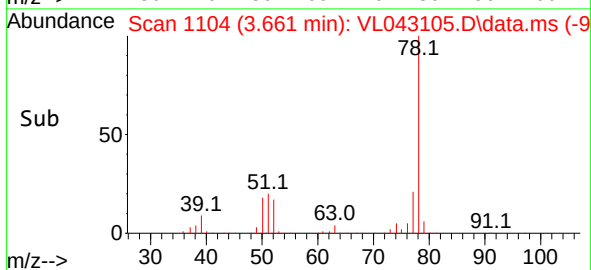
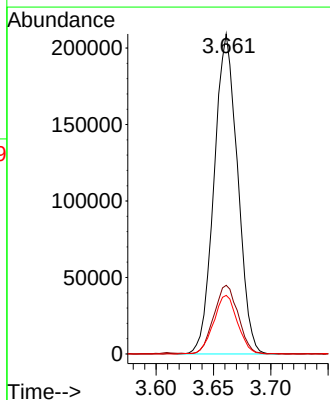
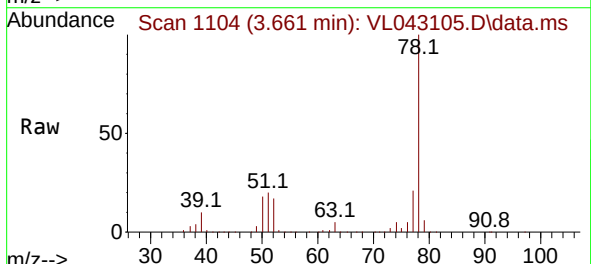
Manual Integrations  
APPROVED

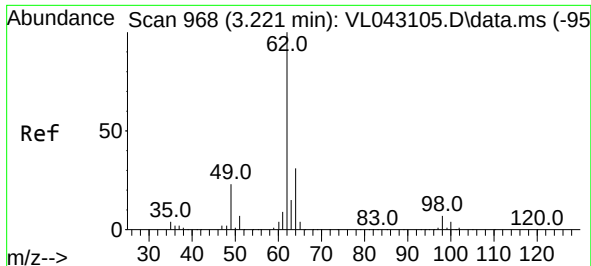
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#36  
Benzene  
Concen: 9.246 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 78 Resp: 297653  
Ion Ratio Lower Upper  
78 100  
77 21.3 17.0 25.6  
50 18.3 14.6 22.0





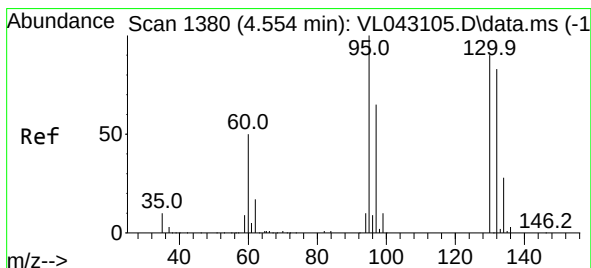
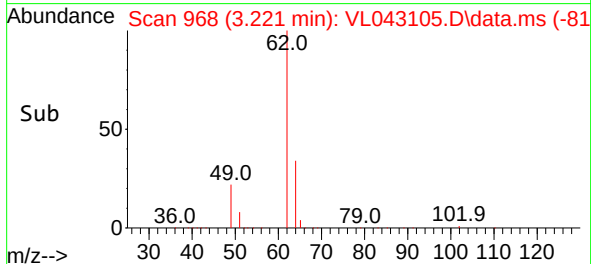
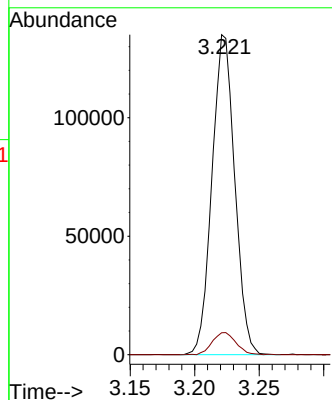
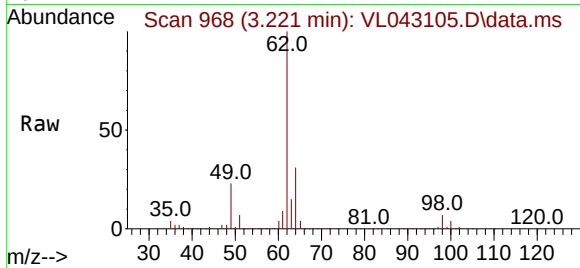
#37  
1,2-Dichloroethane  
Concen: 8.946 ppbv  
RT: 3.221 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 62 Resp: 165898  
Ion Ratio Lower Upper  
62 100  
98 7.2 5.8 8.6

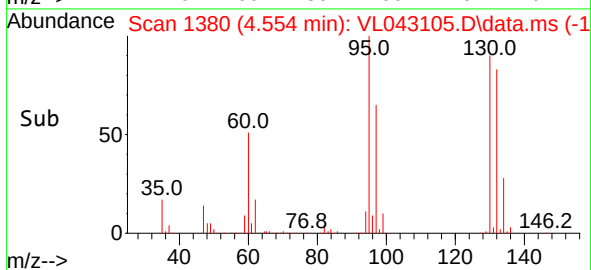
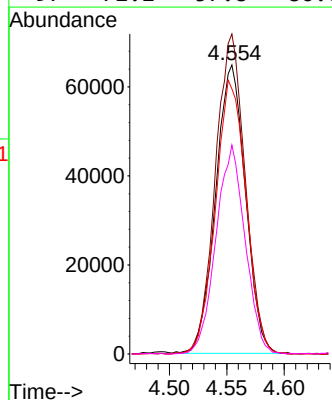
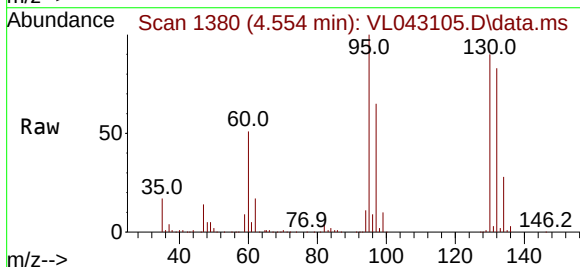
Manual Integrations  
APPROVED

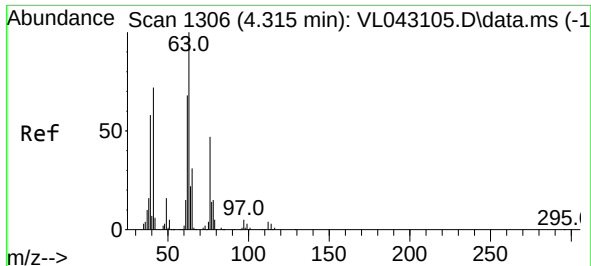
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 8.708 ppbv  
RT: 4.554 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

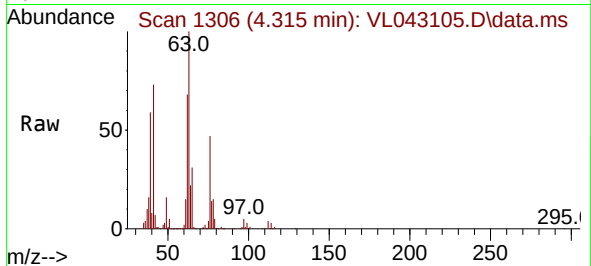
Tgt Ion:130 Resp: 116947  
Ion Ratio Lower Upper  
130 100  
95 110.8 88.6 133.0  
132 91.7 73.4 110.0  
97 72.2 57.8 86.6





#39  
1,2-Dichloropropane  
Concen: 9.207 ppbv  
RT: 4.315 min Scan# 1306  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

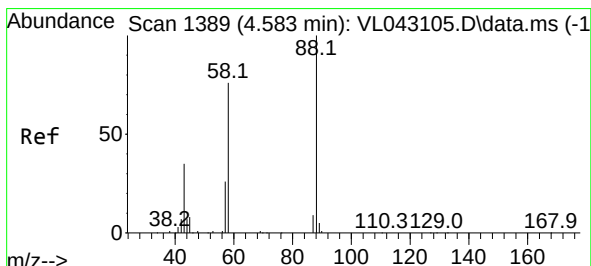
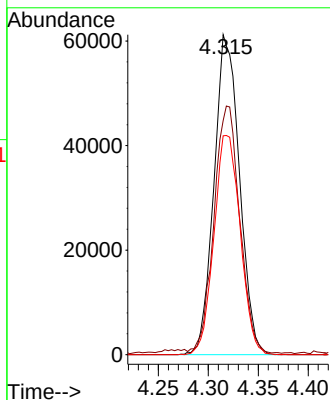
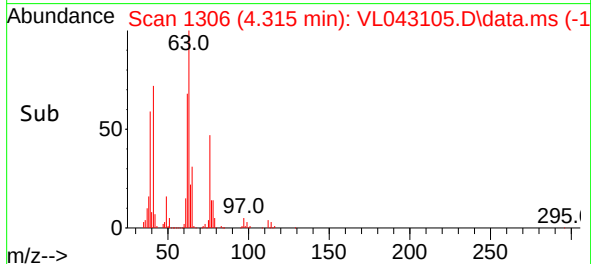
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



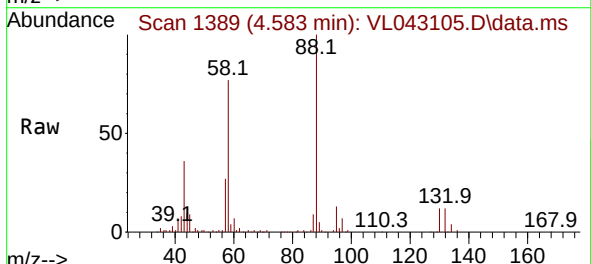
Tgt Ion: 63 Resp: 108440  
Ion Ratio Lower Upper  
63 100  
41 72.5 58.0 87.0  
62 68.4 54.7 82.1

Manual Integrations  
APPROVED

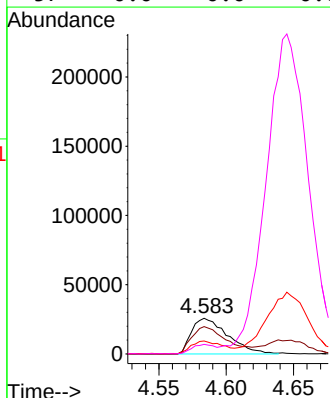
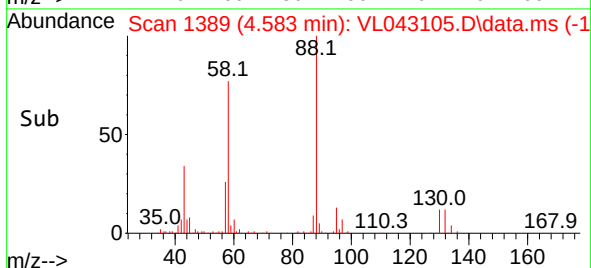
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

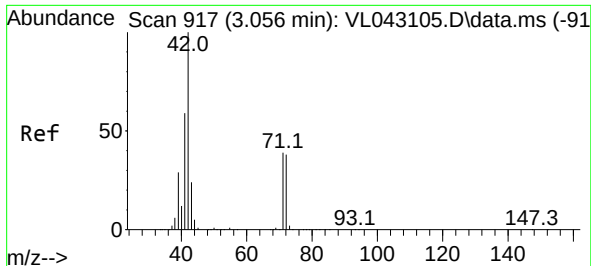


#40  
1,4-Dioxane  
Concen: 9.153 ppbv  
RT: 4.583 min Scan# 1389  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



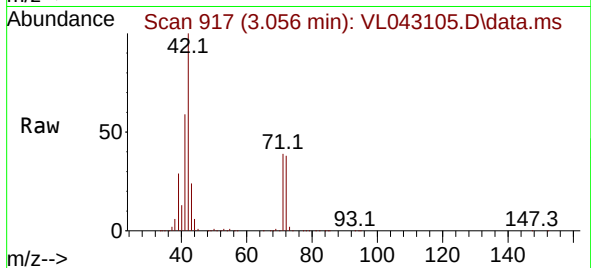
Tgt Ion: 88 Resp: 48201  
Ion Ratio Lower Upper  
88 100  
58 74.3 61.1 91.7  
43 33.3 24.0 36.0  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 9.076 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

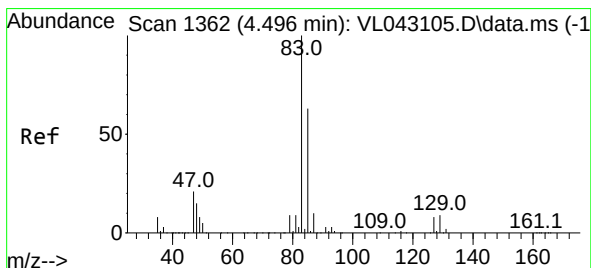
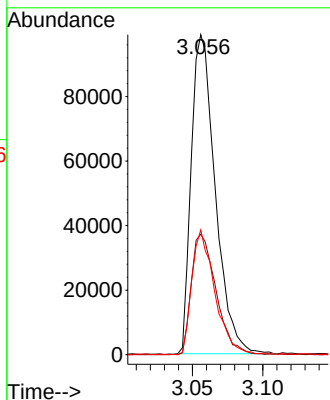
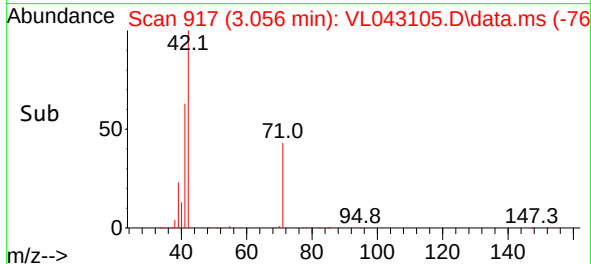
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 42 Resp: 117069  
Ion Ratio Lower Upper  
42 100  
72 39.1 31.3 46.9  
71 37.8 30.4 45.6

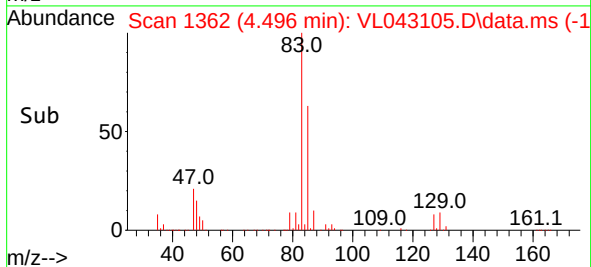
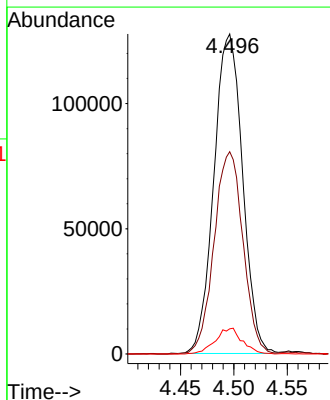
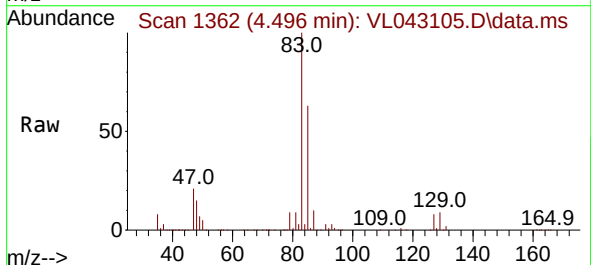
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

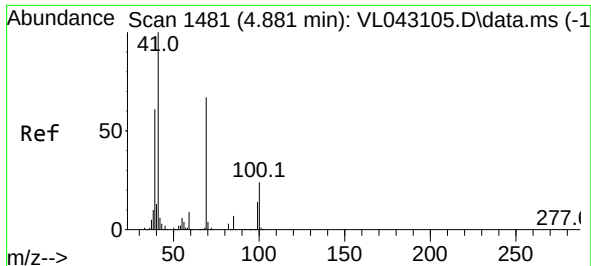


#42  
Bromodichloromethane  
Concen: 9.286 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 238353  
Ion Ratio Lower Upper  
83 100  
85 63.2 50.6 75.8  
127 7.9 6.3 9.5







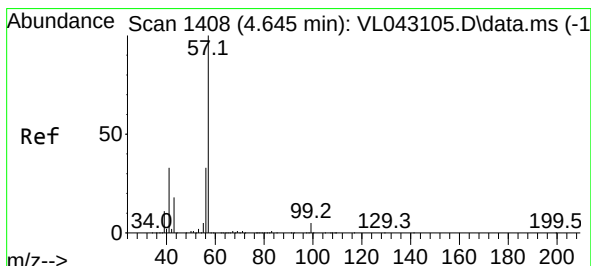
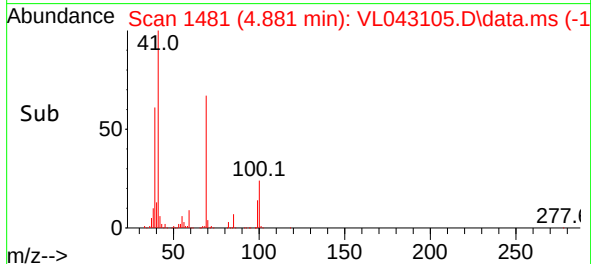
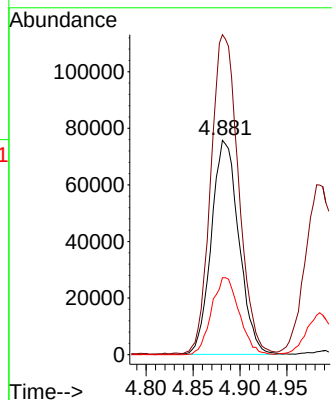
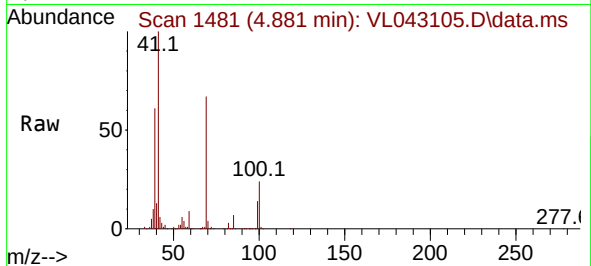
#43  
Methyl Methacrylate  
Concen: 9.371 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 69 Resp: 15392  
Ion Ratio Lower Upper  
69 100  
41 149.8 120.5 180.7  
100 36.2 29.0 43.4

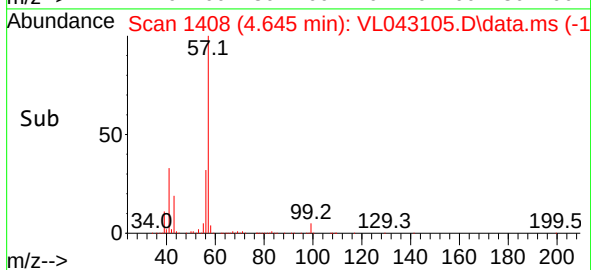
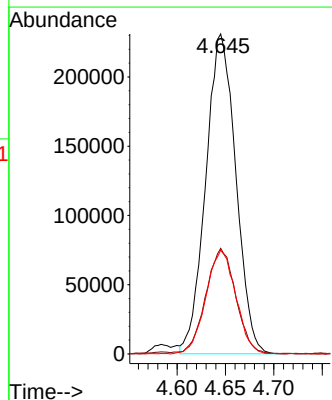
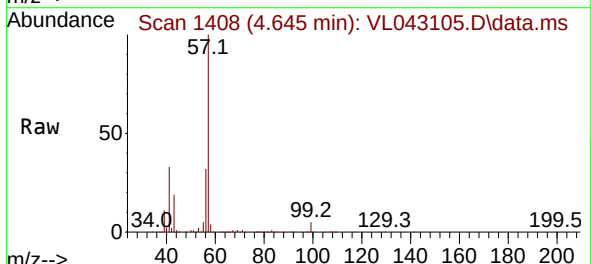
Manual Integrations  
APPROVED

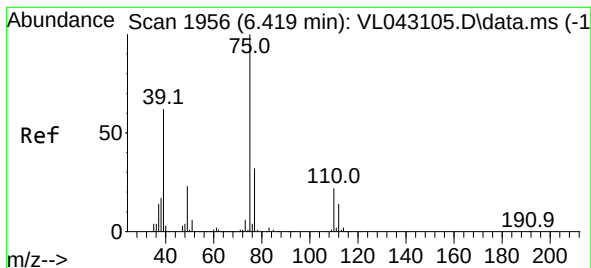
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.273 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 499148  
Ion Ratio Lower Upper  
57 100  
41 33.2 26.3 39.5  
56 32.1 25.9 38.9





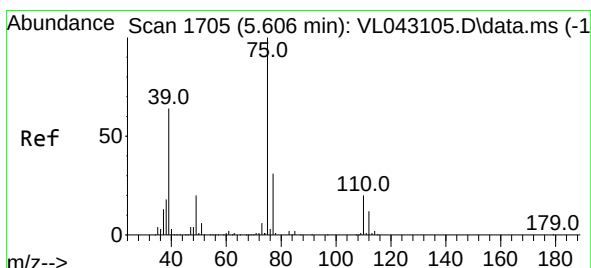
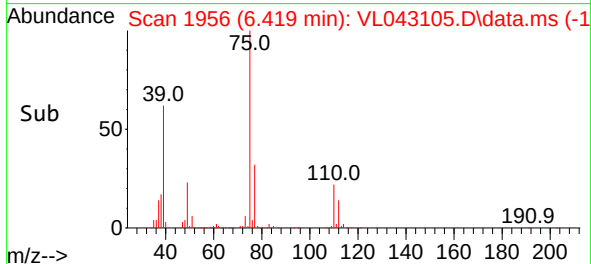
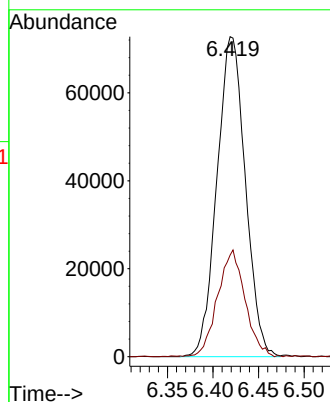
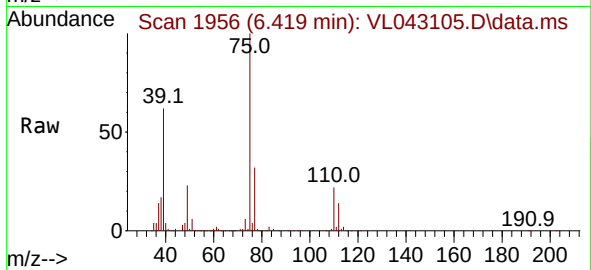
#45  
 t-1,3-Dichloropropene  
 Concen: 9.620 ppbv  
 RT: 6.419 min Scan# 1956  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 75 Resp: 157850  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 25.4 38.2

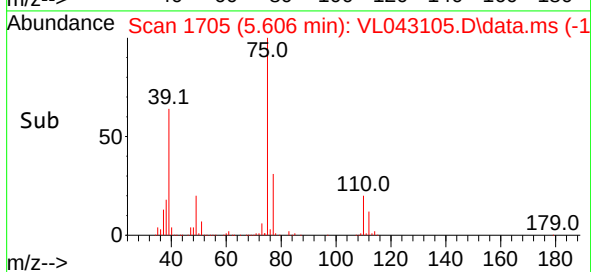
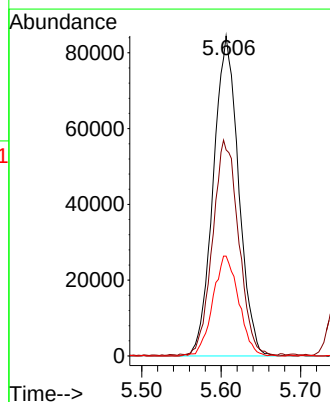
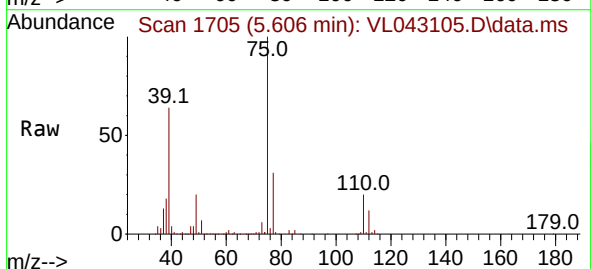
Manual Integrations  
 APPROVED

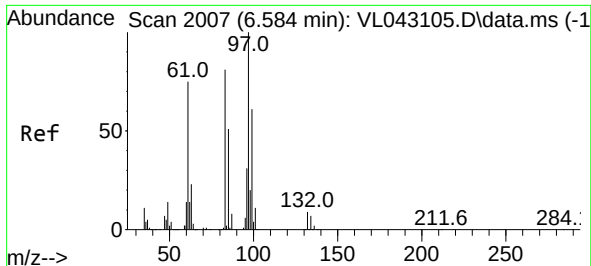
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.525 ppbv  
 RT: 5.606 min Scan# 1705  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

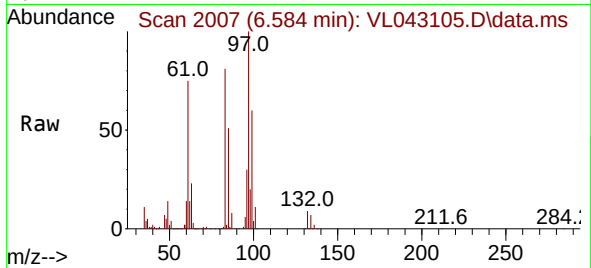
Tgt Ion: 75 Resp: 186533  
 Ion Ratio Lower Upper  
 75 100  
 39 63.8 51.0 76.6  
 77 31.2 25.0 37.4





#47  
1,1,2-Trichloroethane  
Concen: 9.082 ppbv  
RT: 6.584 min Scan# 2007  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

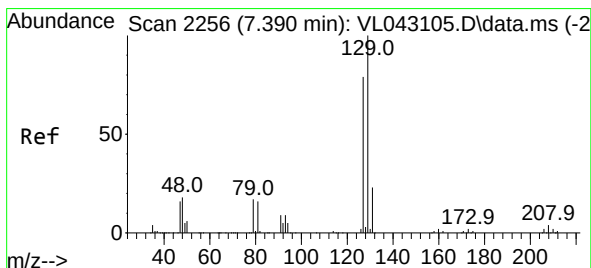
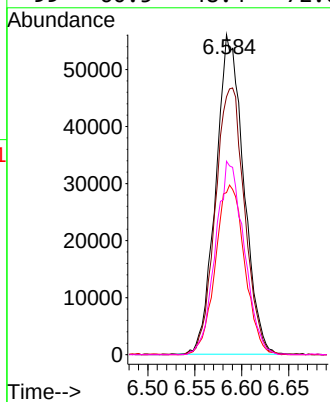
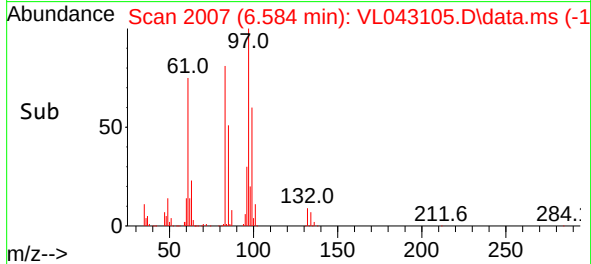
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



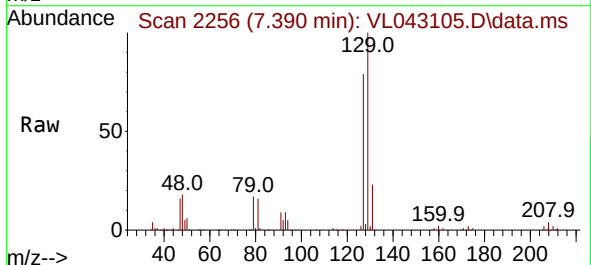
Tgt Ion: 97 Resp: 115419  
Ion Ratio Lower Upper  
97 100  
83 80.7 64.6 96.8  
85 50.7 40.6 60.8  
99 60.5 48.4 72.6

Manual Integrations  
APPROVED

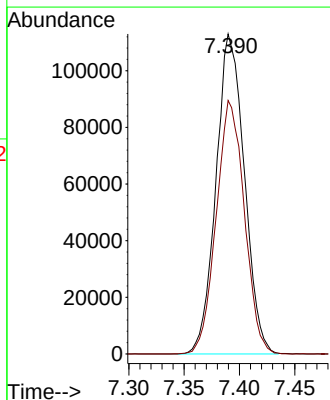
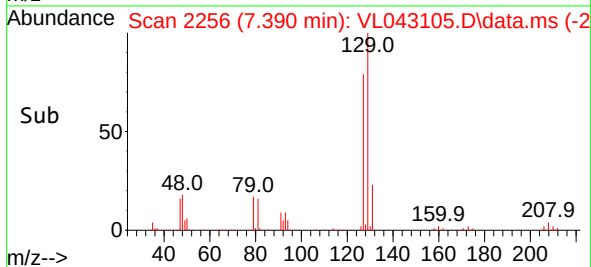
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

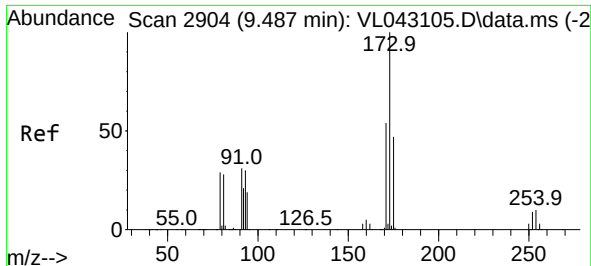


#48  
Dibromochloromethane  
Concen: 9.476 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



Tgt Ion:129 Resp: 201349  
Ion Ratio Lower Upper  
129 100  
127 78.6 39.3 117.9





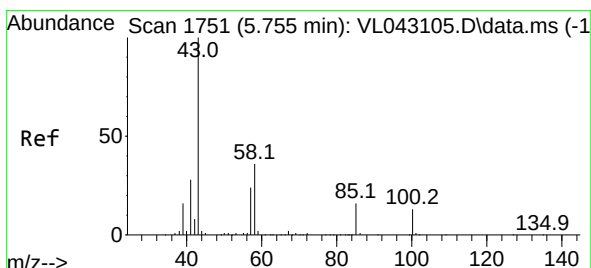
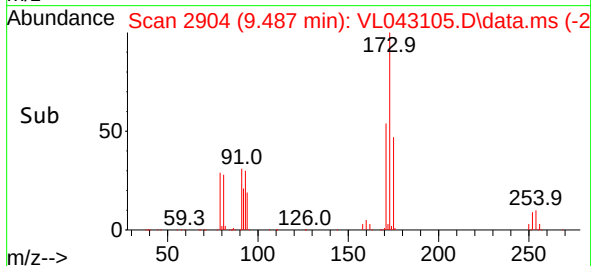
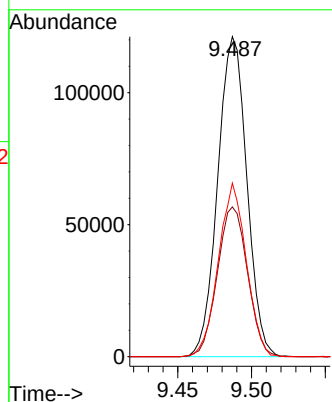
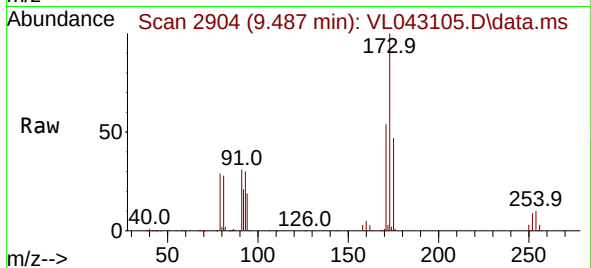
#49  
Bromoform  
Concen: 9.633 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:173 Resp: 16637  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
171 52.1 41.7 62.5

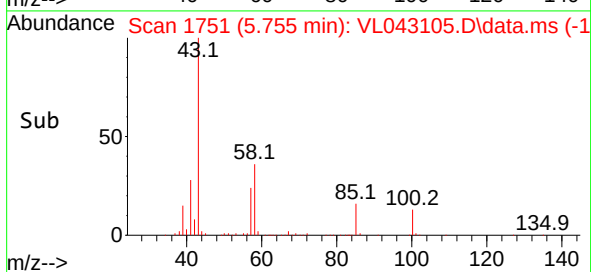
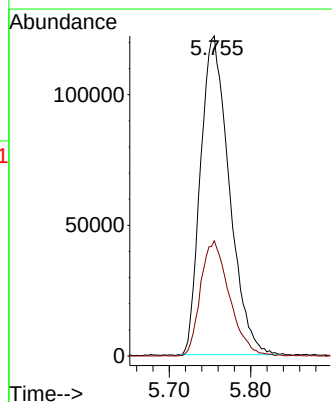
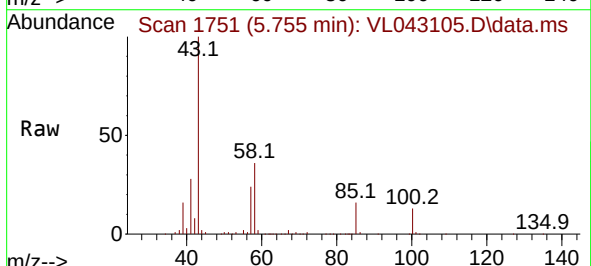
Manual Integrations  
APPROVED

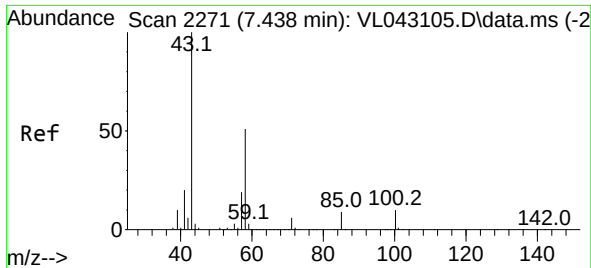
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#50  
4-Methyl-2-Pentanone  
Concen: 9.362 ppbv  
RT: 5.755 min Scan# 1751  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

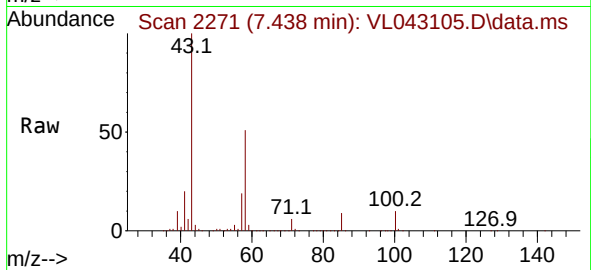
Tgt Ion: 43 Resp: 298401  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.1 43.7





#51  
2-Hexanone  
Concen: 9.940 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

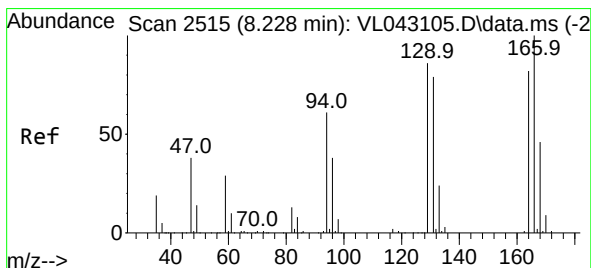
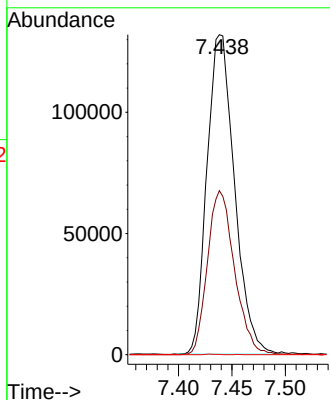
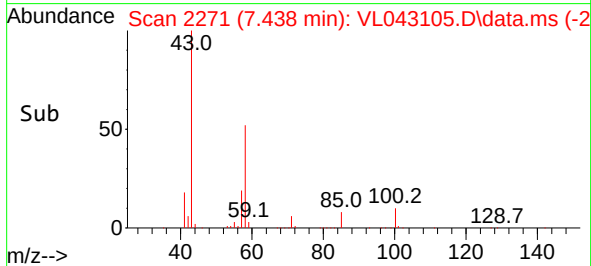
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 43 Resp: 23639  
Ion Ratio Lower Upper  
43 100  
58 50.6 40.4 60.6  
98 0.1 0.1 0.1

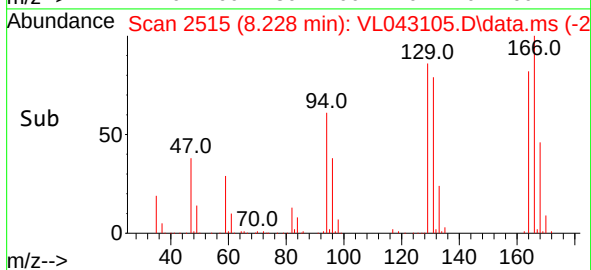
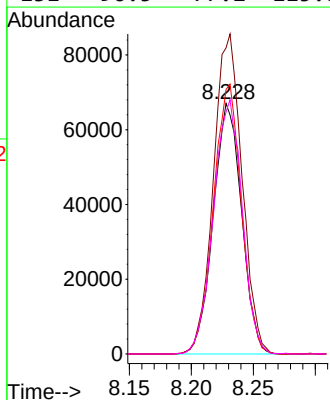
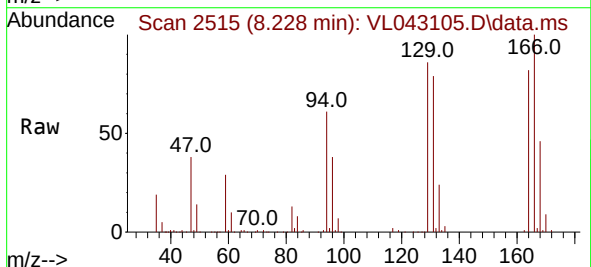
Manual Integrations  
APPROVED

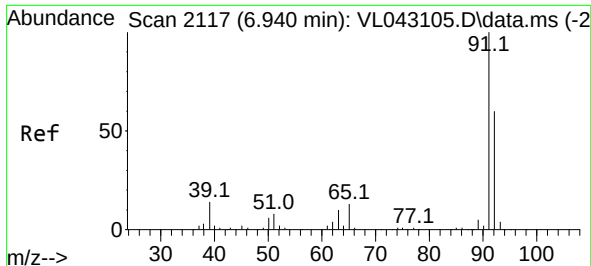
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#52  
Tetrachloroethene  
Concen: 9.192 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:164 Resp: 106710  
Ion Ratio Lower Upper  
164 100  
166 122.0 97.6 146.4  
129 105.6 84.5 126.7  
131 96.5 77.2 115.8





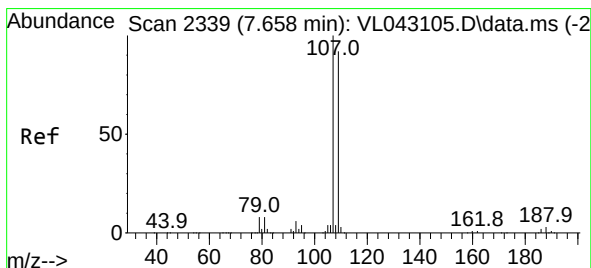
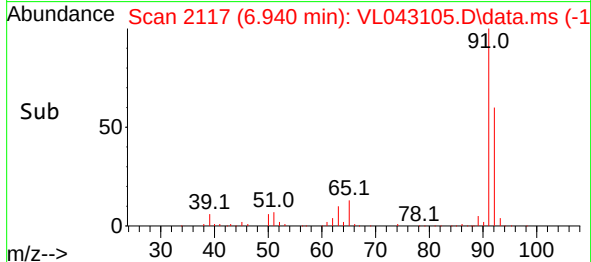
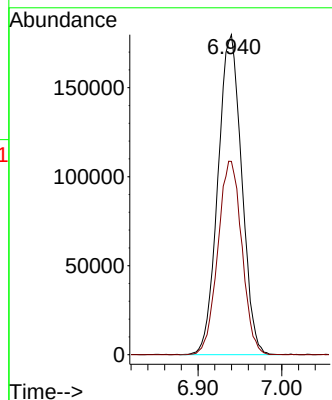
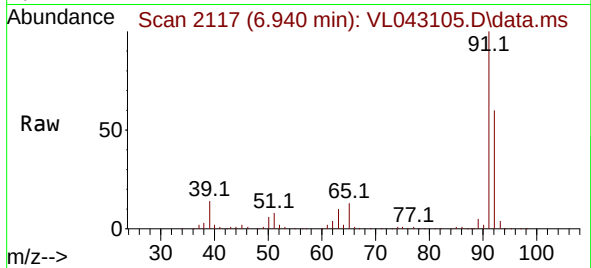
#53  
Toluene  
Concen: 9.266 ppbv  
RT: 6.940 min Scan# 2117  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 35400  
Ion Ratio Lower Upper  
91 100  
92 61.0 48.8 73.2

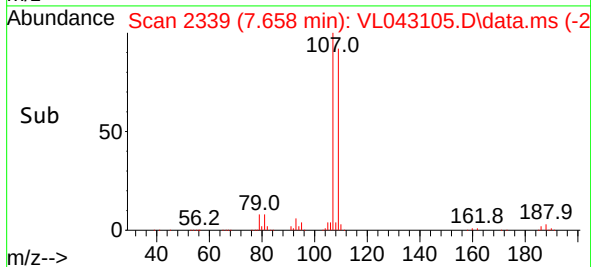
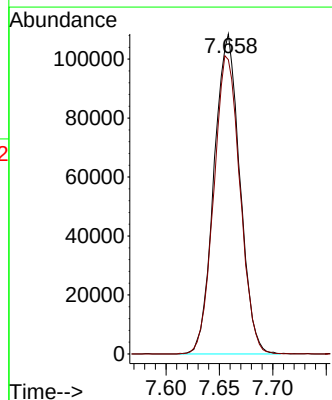
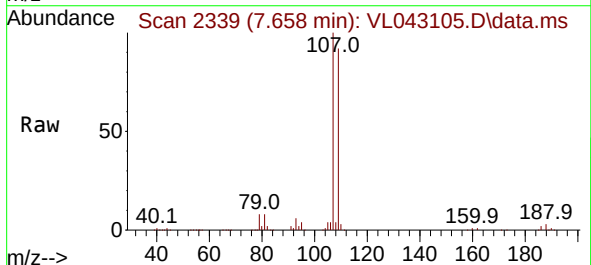
Manual Integrations  
APPROVED

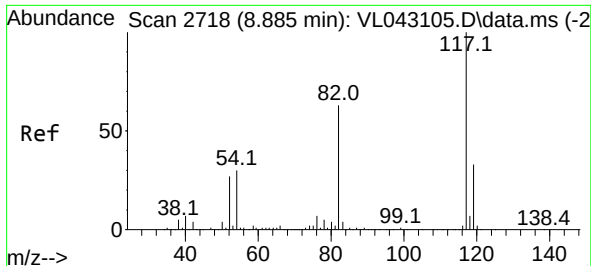
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#54  
1,2-Dibromoethane  
Concen: 9.080 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

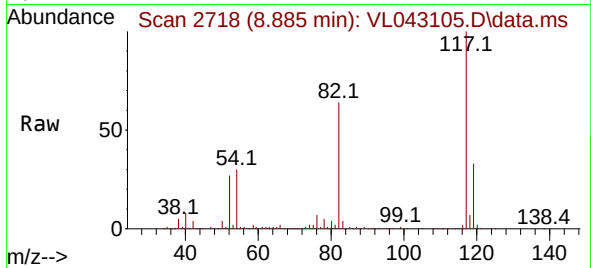
Tgt Ion:107 Resp: 182074  
Ion Ratio Lower Upper  
107 100  
109 91.8 73.4 110.2





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

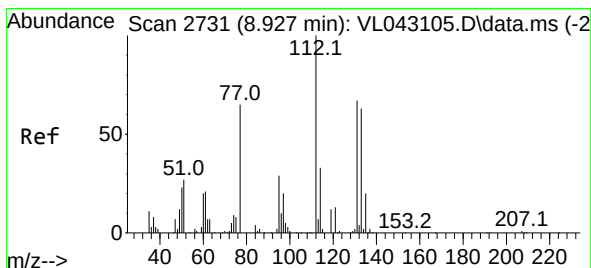
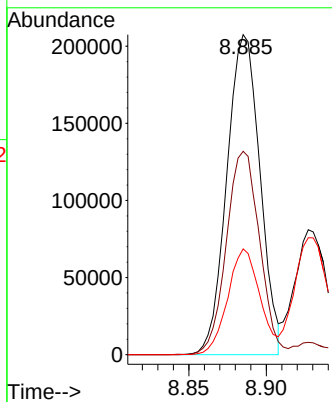
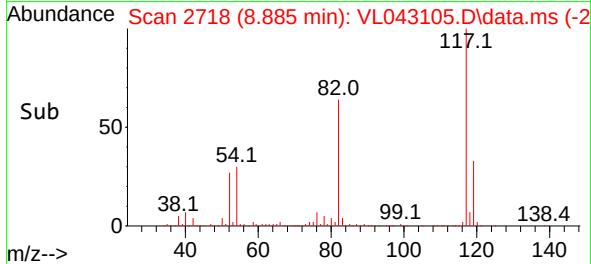
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:117 Resp: 309230  
Ion Ratio Lower Upper  
117 100  
82 67.3 53.8 80.8  
119 33.4 25.4 38.0

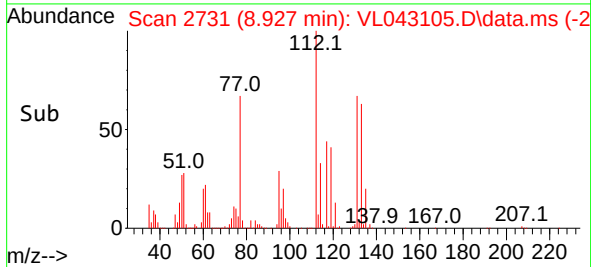
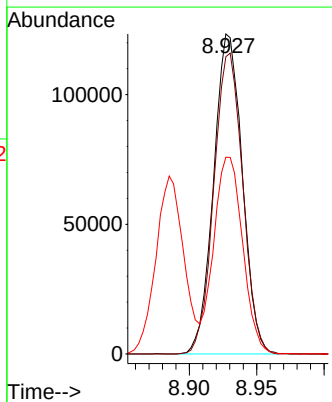
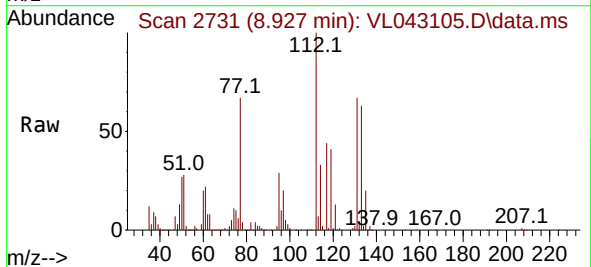
Manual Integrations  
APPROVED

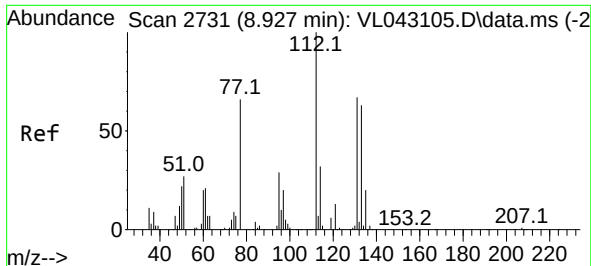
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.367 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585  
Ion Ratio Lower Upper  
131 100  
133 94.6 75.7 113.5  
119 63.3 50.6 76.0





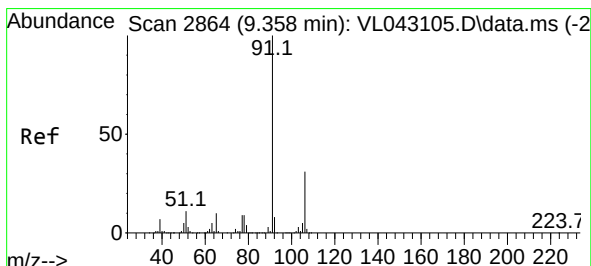
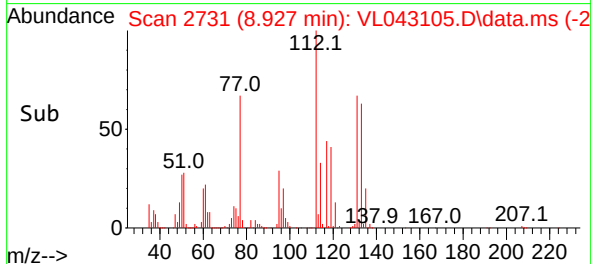
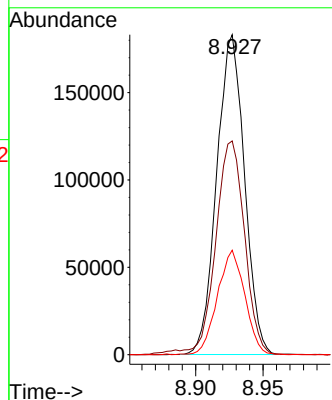
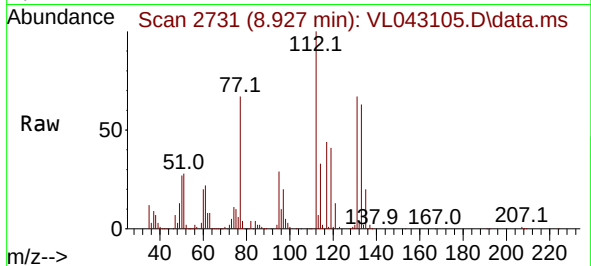
#57  
Chlorobenzene  
Concen: 9.076 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:112 Resp: 262560  
Ion Ratio Lower Upper  
112 100  
77 66.6 53.3 79.9  
114 32.5 29.3 35.8

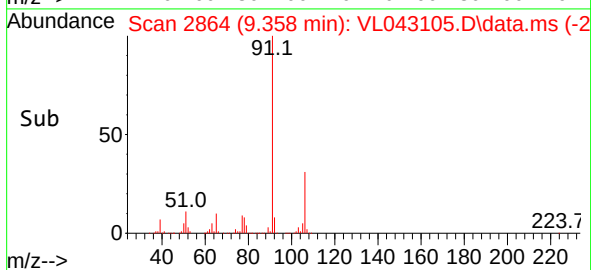
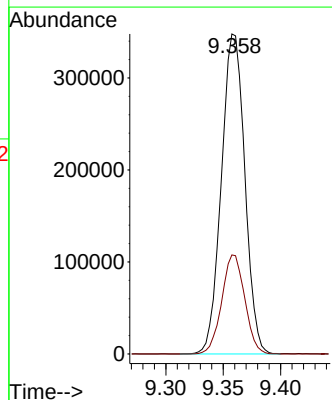
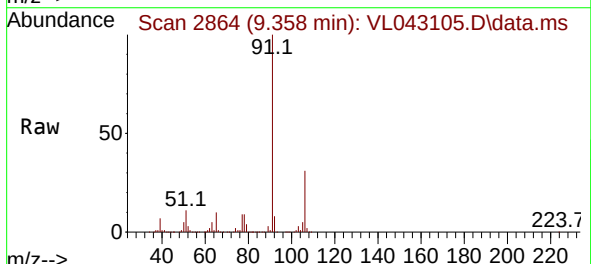
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

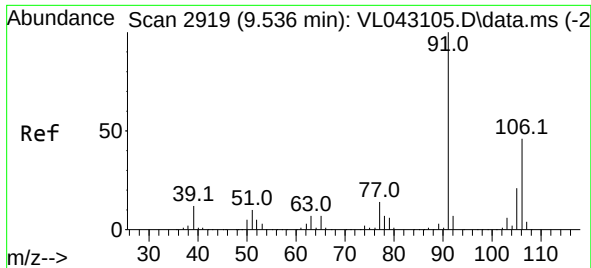


#58  
Ethyl Benzene  
Concen: 9.241 ppbv  
RT: 9.358 min Scan# 2864  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 494344  
Ion Ratio Lower Upper  
91 100  
106 31.0 24.8 37.2







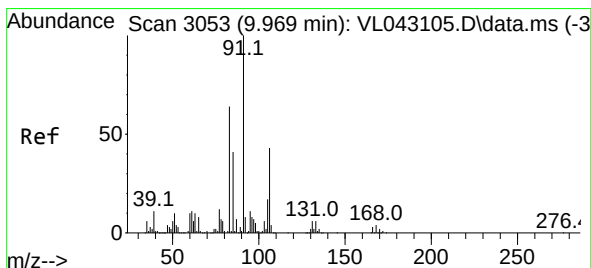
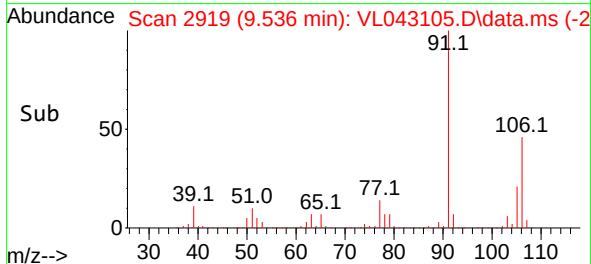
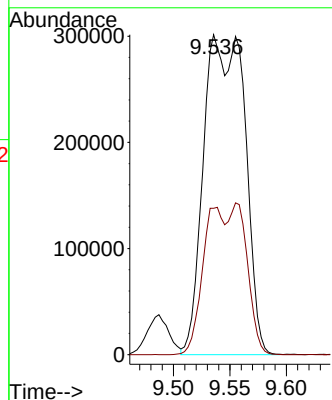
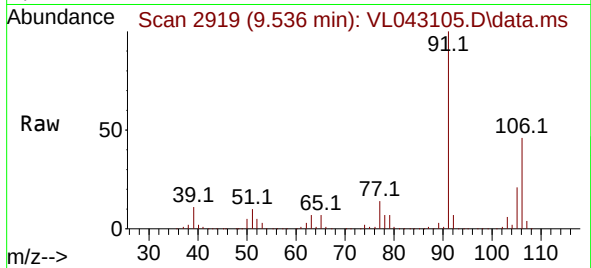
#59  
m/p-Xylene  
Concen: 18.067 ppbv m  
RT: 9.536 min Scan# 2919  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 765374  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

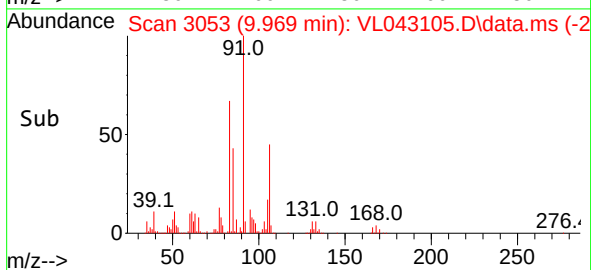
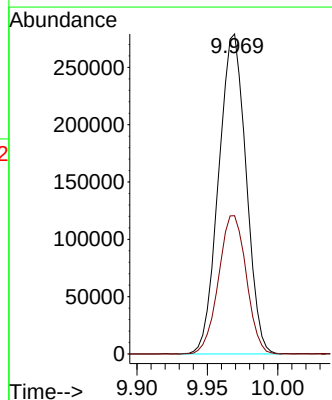
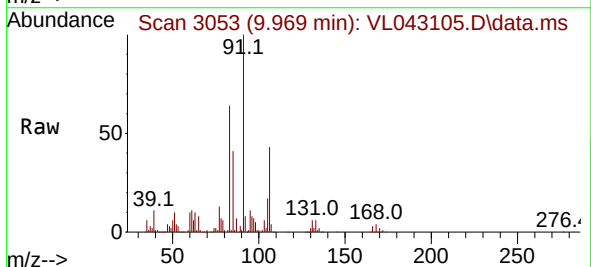
Manual Integrations  
APPROVED

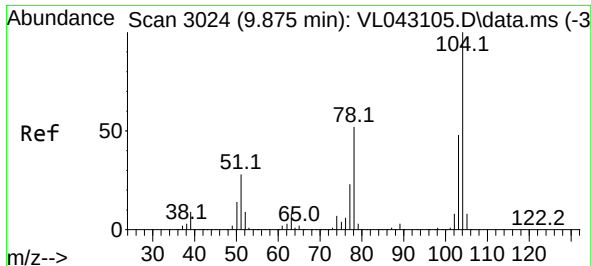
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#60  
o-Xylene  
Concen: 9.053 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 378462  
Ion Ratio Lower Upper  
91 100  
106 43.9 21.9 65.8





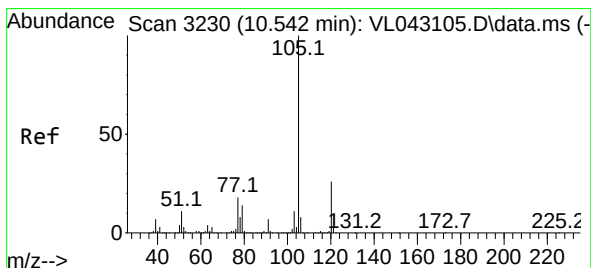
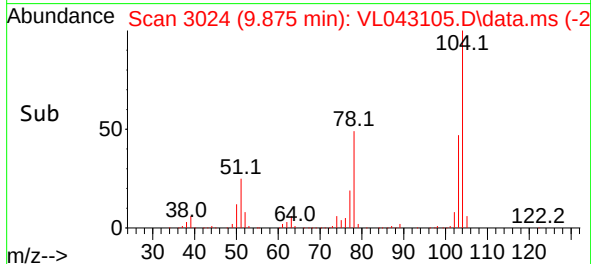
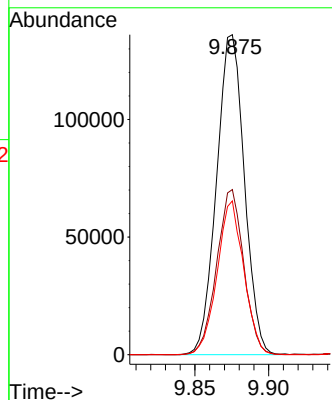
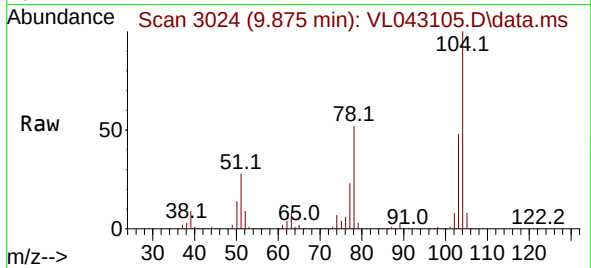
#61  
Styrene  
Concen: 9.477 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:104 Resp: 17885  
Ion Ratio Lower Upper  
104 100  
78 50.2 40.2 60.2  
103 46.1 36.9 55.3

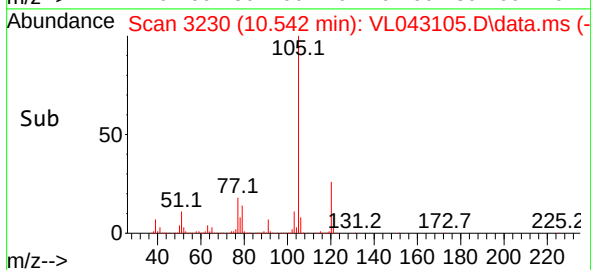
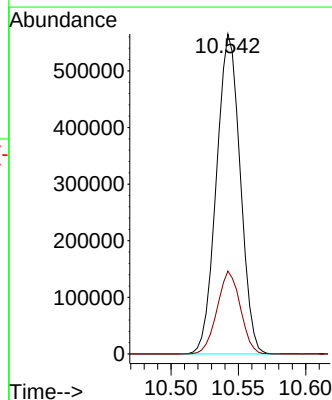
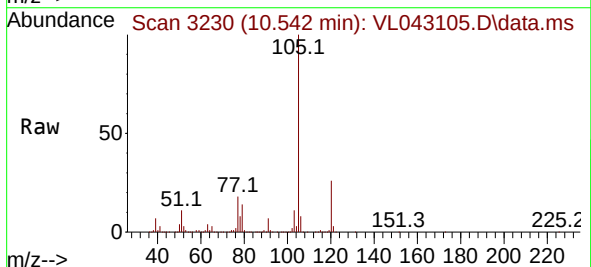
Manual Integrations  
APPROVED

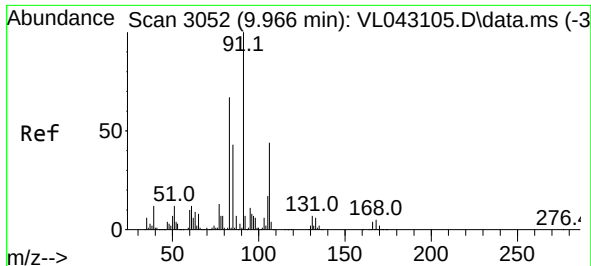
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#62  
Isopropylbenzene  
Concen: 9.173 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 692992  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.2 30.4





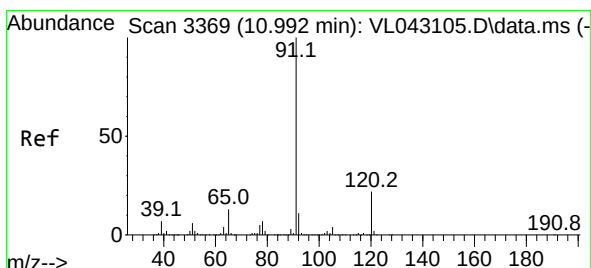
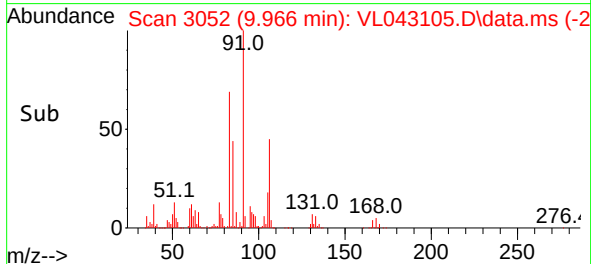
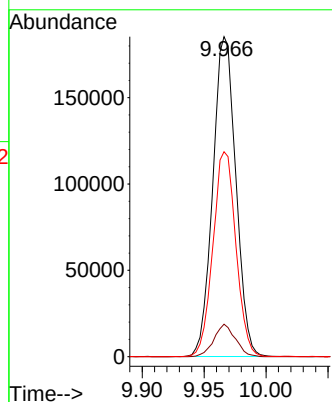
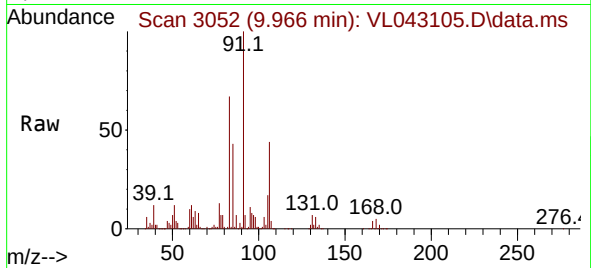
#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.582 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 83 Resp: 24024  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.0 32.0 96.0

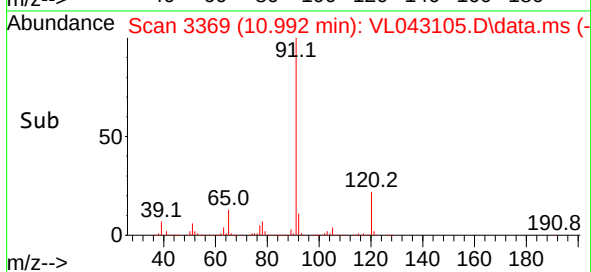
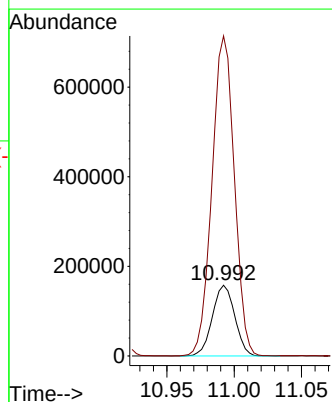
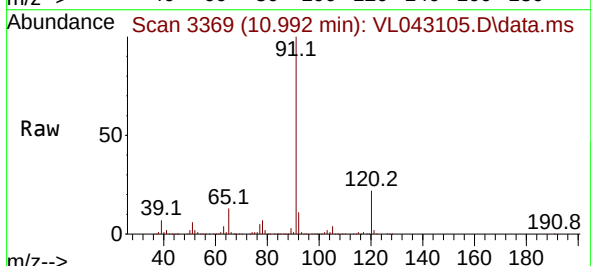
Manual Integrations  
APPROVED

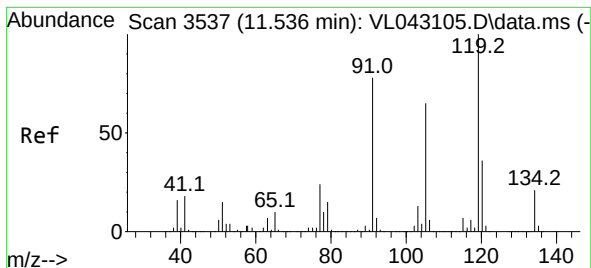
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#64  
n-propylbenzene  
Concen: 9.112 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:120 Resp: 182233  
Ion Ratio Lower Upper  
120 100  
91 452.0 361.6 542.4





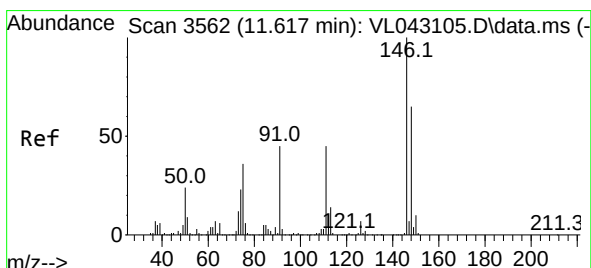
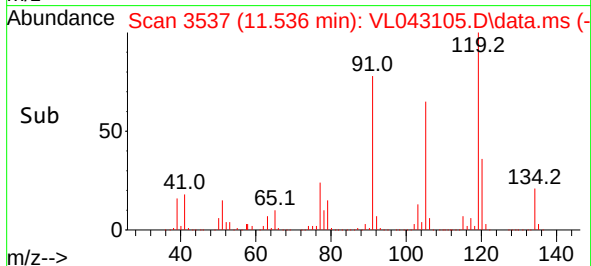
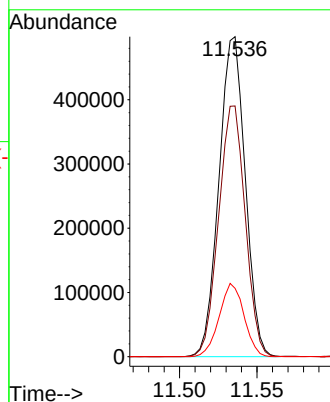
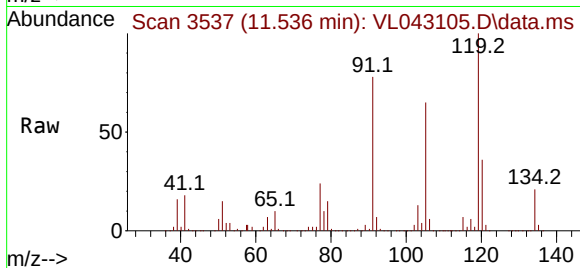
#65  
tert-Butylbenzene  
Concen: 8.810 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 119 Resp: 587750  
Ion Ratio Lower Upper  
119 100  
91 79.1 63.4 95.0  
134 21.6 17.3 25.9

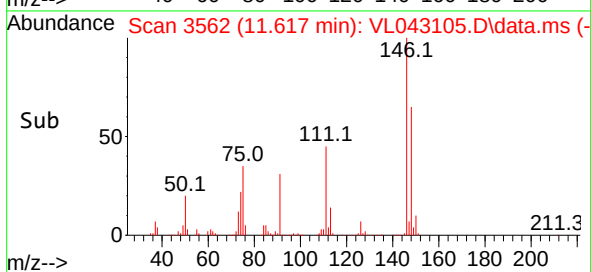
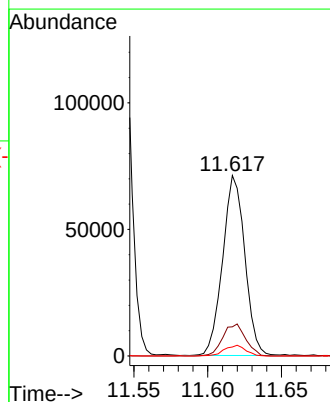
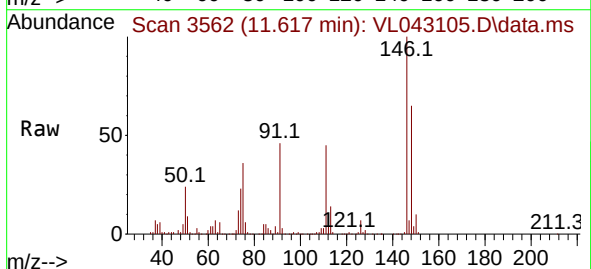
Manual Integrations  
APPROVED

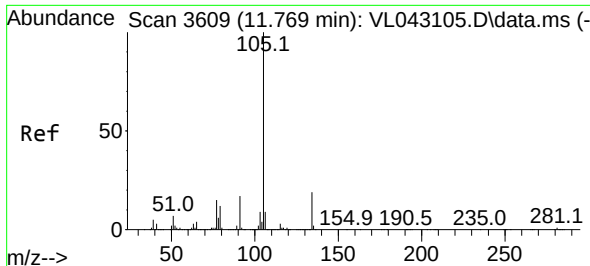
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#66  
Benzyl Chloride  
Concen: 10.009 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

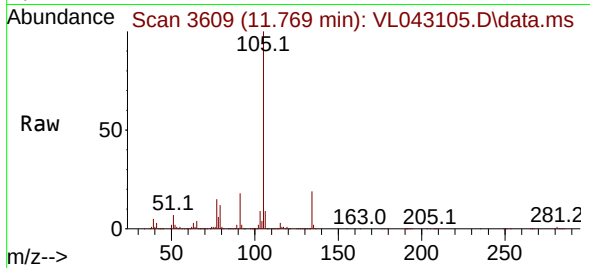
Tgt Ion: 91 Resp: 74574  
Ion Ratio Lower Upper  
91 100  
126 18.3 14.6 22.0  
128 5.7 4.6 6.8





#67  
sec-Butylbenzene  
Concen: 8.809 ppbv  
RT: 11.769 min Scan# 3609  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

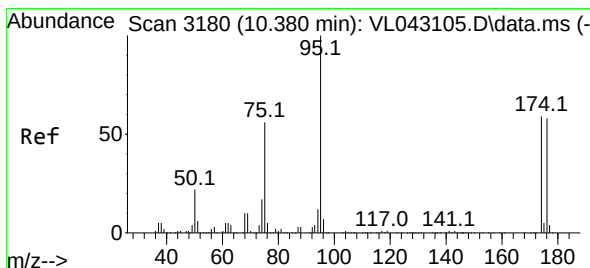
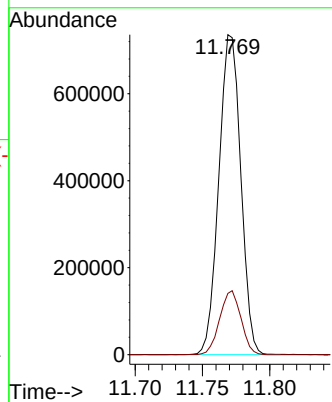
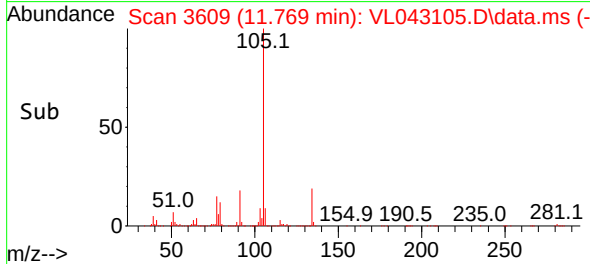
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:105 Resp: 834052  
Ion Ratio Lower Upper  
105 100  
134 19.4 15.5 23.3

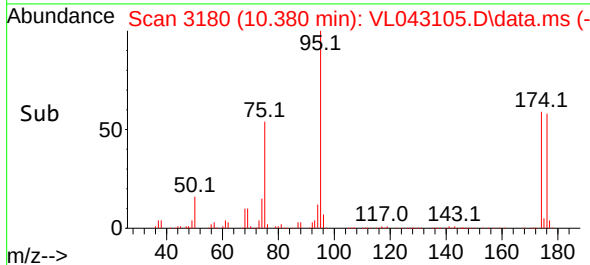
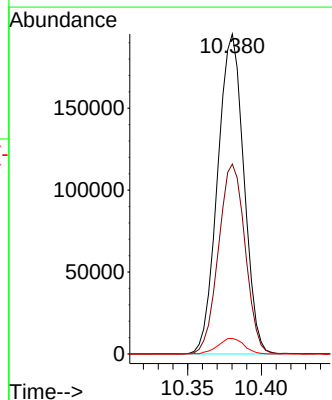
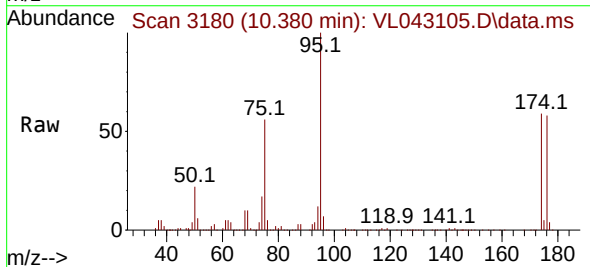
Manual Integrations  
APPROVED

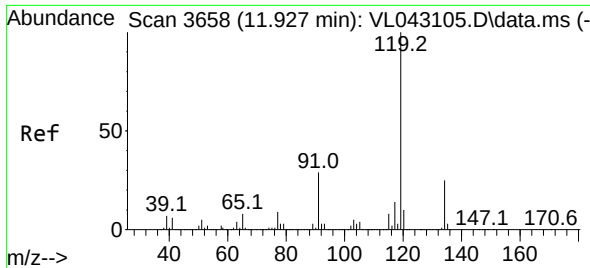
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.046 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

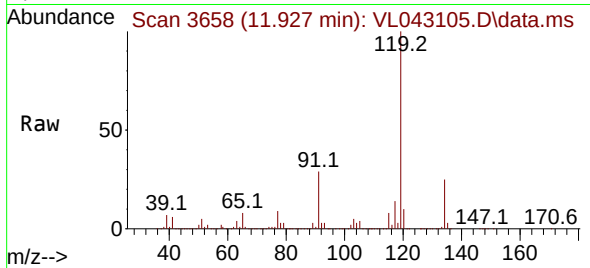
Tgt Ion: 95 Resp: 241468  
Ion Ratio Lower Upper  
95 100  
174 60.4 48.3 72.5  
175 4.8 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 8.955 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

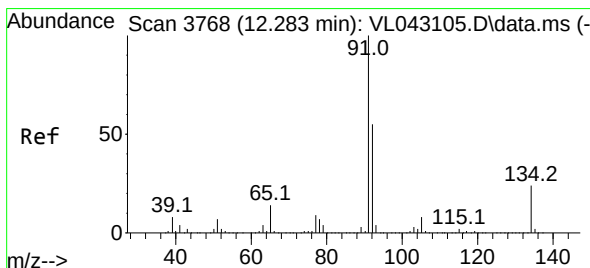
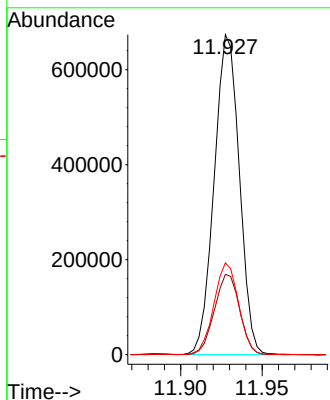
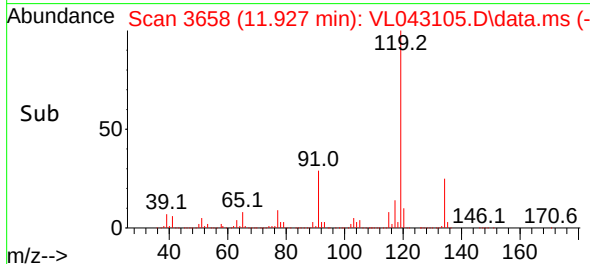
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



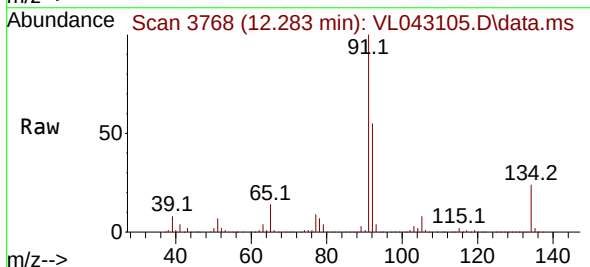
Tgt Ion: 119 Resp: 720433  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 28.3 22.6 33.8

Manual Integrations  
APPROVED

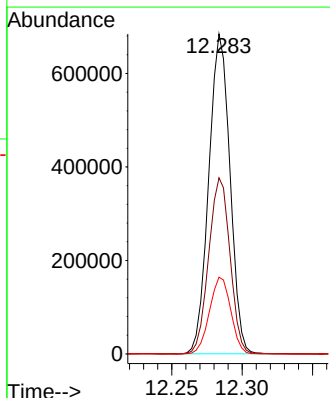
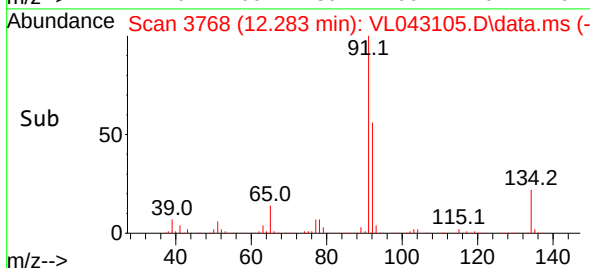
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

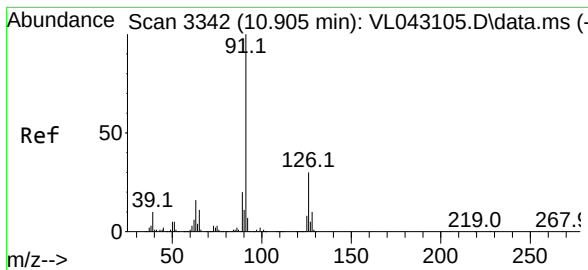


#70  
n-Butylbenzene  
Concen: 9.053 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



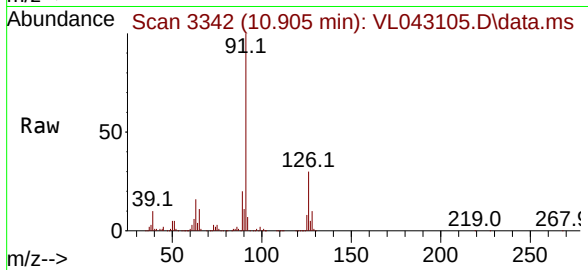
Tgt Ion: 91 Resp: 717743  
Ion Ratio Lower Upper  
91 100  
92 55.6 44.5 66.7  
134 24.1 19.3 28.9





#71  
2-Chlorotoluene  
Concen: 9.111 ppbv  
RT: 10.905 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

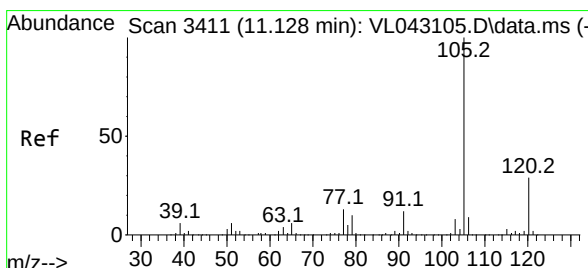
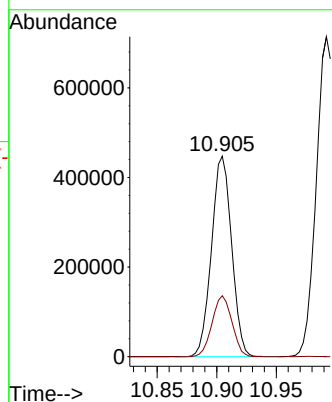
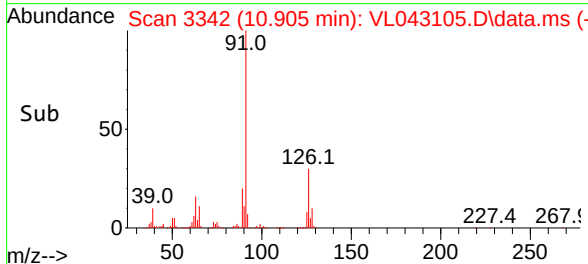
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



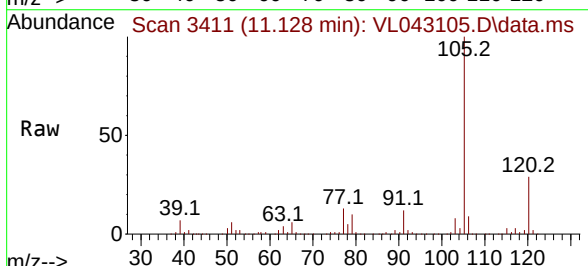
Tgt Ion: 91 Resp: 52496  
Ion Ratio Lower Upper  
91 100  
126 30.0 12.0 48.0

Manual Integrations  
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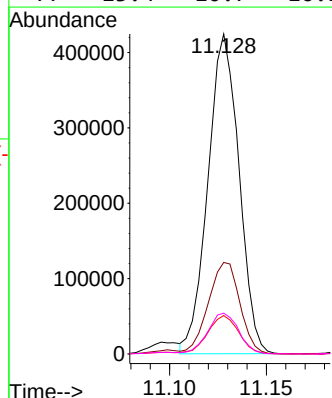
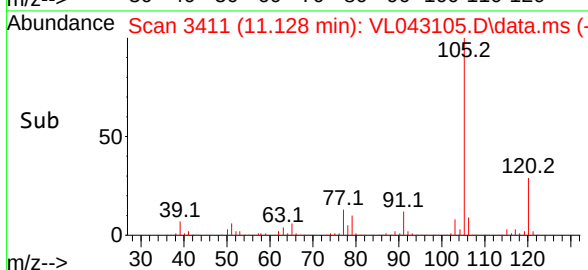
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

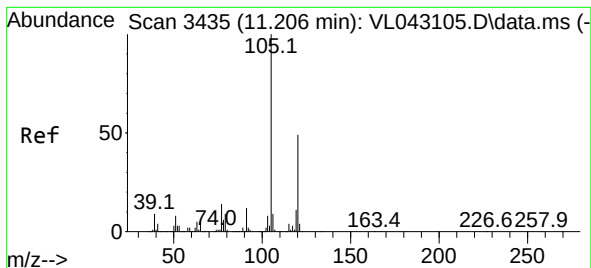


#72  
4-Ethyltoluene  
Concen: 9.202 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



Tgt Ion:105 Resp: 473042  
Ion Ratio Lower Upper  
105 100  
120 30.3 24.2 36.4  
91 12.5 10.0 15.0  
77 13.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 9.195 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 389818

Ion Ratio Lower Upper

105 100

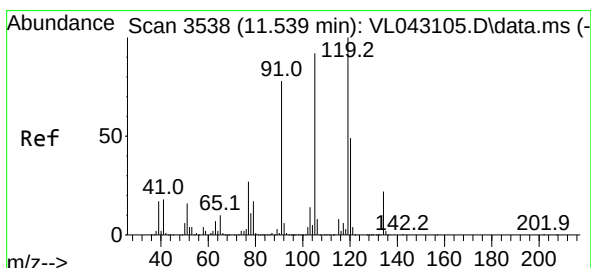
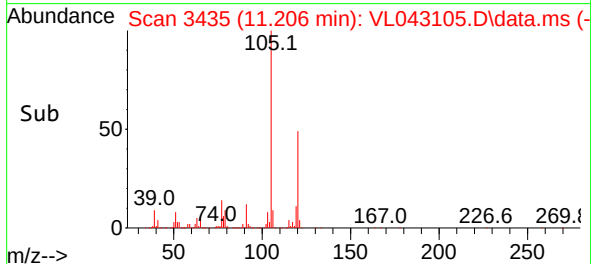
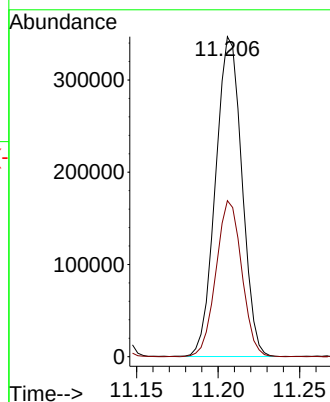
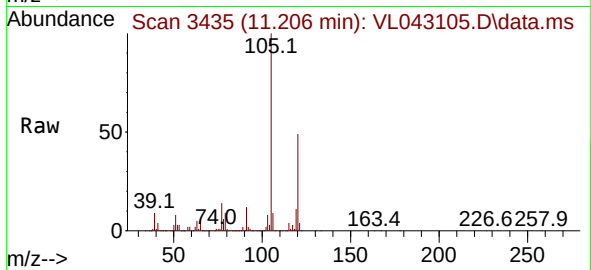
120 48.8 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.676 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619

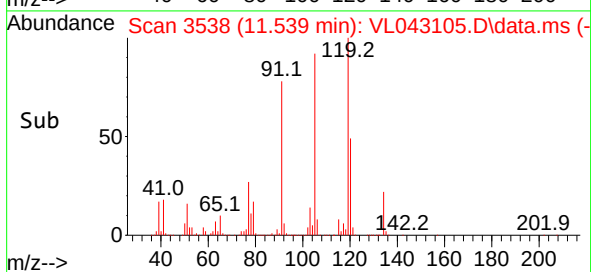
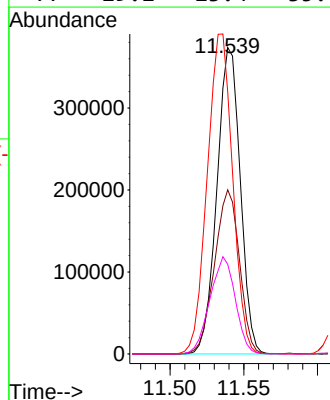
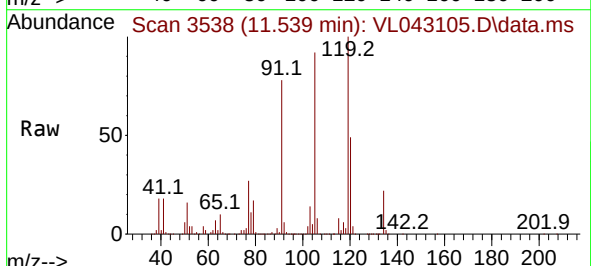
Ion Ratio Lower Upper

105 100

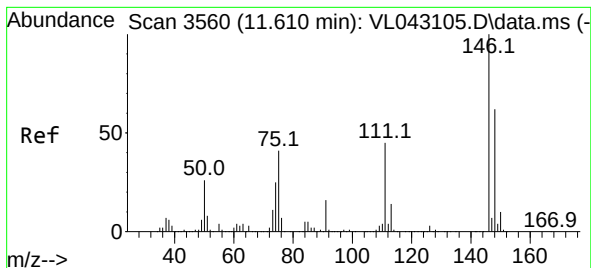
120 53.5 42.8 64.2

91 85.4 68.3 102.5

77 29.2 23.4 35.0







#75

1,3-Dichlorobenzene

Concen: 9.192 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

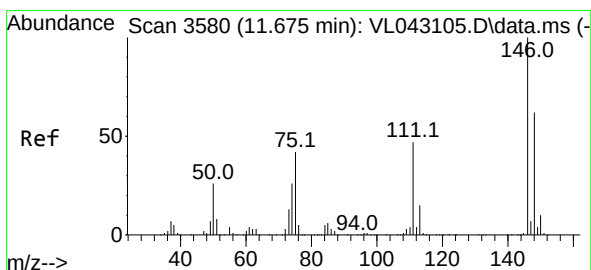
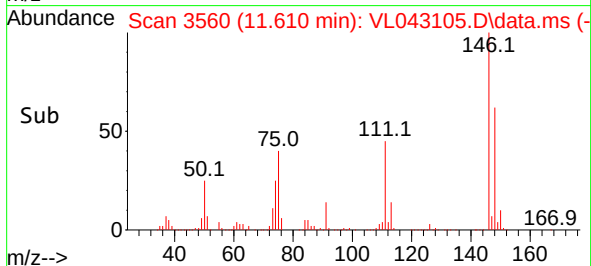
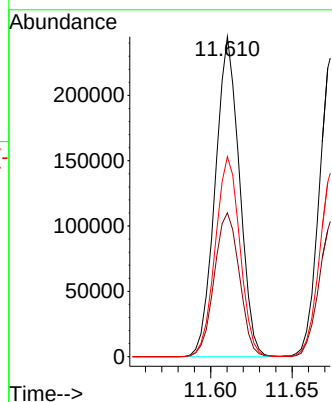
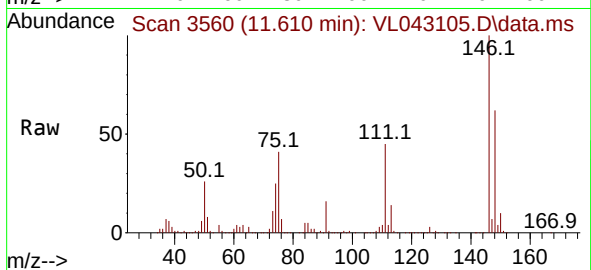
ClientSampleId :

VSTDICCC010

Tgt Ion:146 Resp: 252920  
 Ion Ratio Lower Upper  
 146 100  
 111 46.6 23.3 69.9  
 148 63.3 31.6 95.0

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 9.171 ppbv

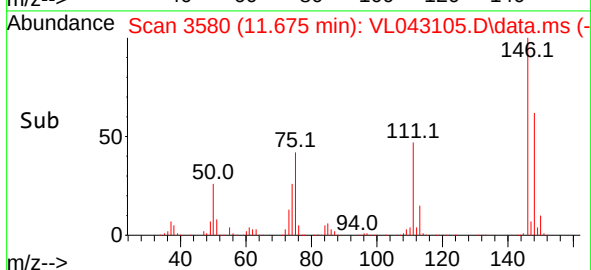
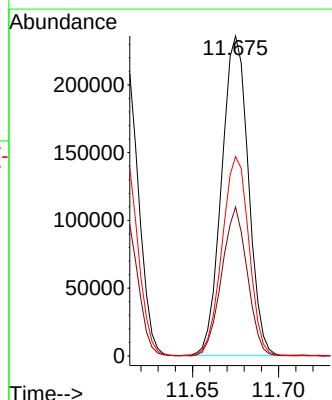
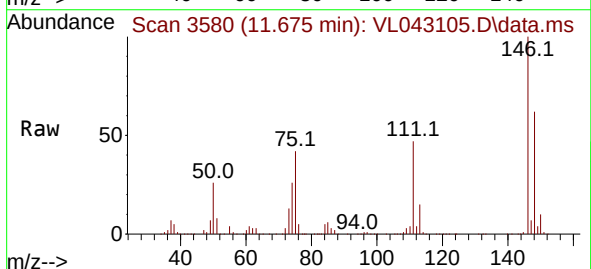
RT: 11.675 min Scan# 3580

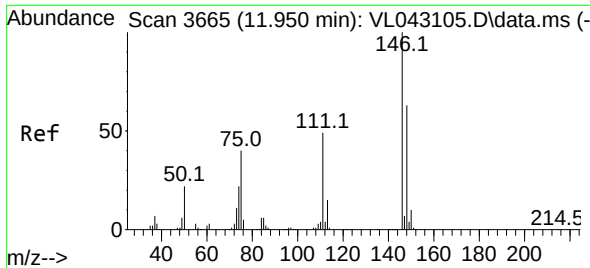
Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion:146 Resp: 254461  
 Ion Ratio Lower Upper  
 146 100  
 111 44.7 22.4 67.0  
 148 63.1 31.6 94.7





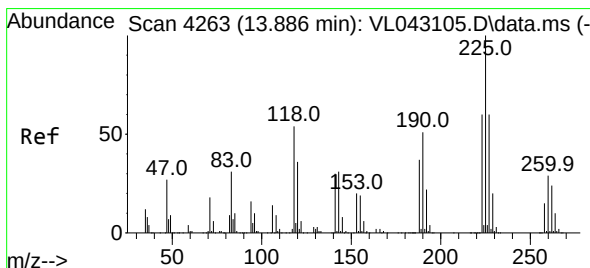
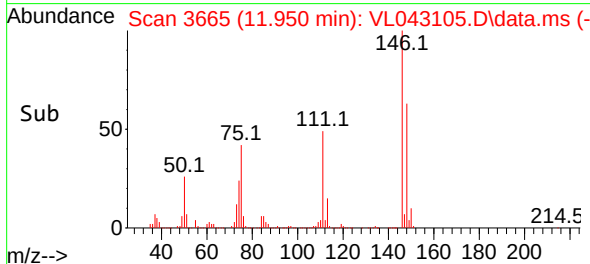
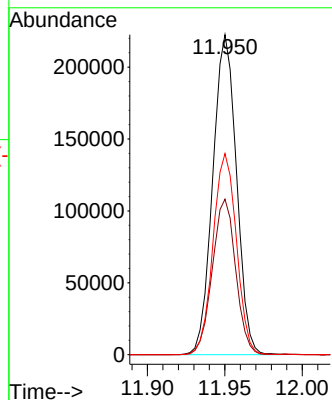
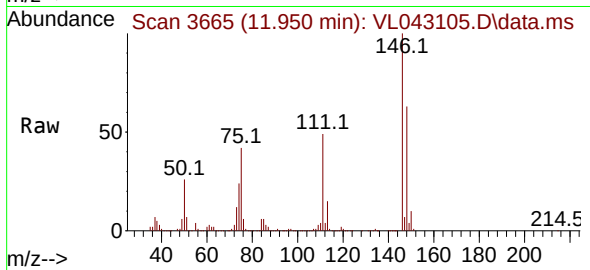
#77  
1,2-Dichlorobenzene  
Concen: 8.893 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:146 Resp: 236724  
Ion Ratio Lower Upper  
146 100  
111 48.0 24.0 72.0  
148 62.2 31.1 93.3

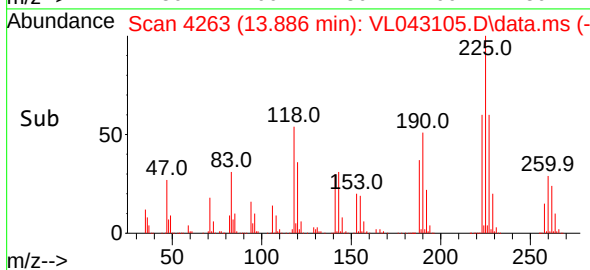
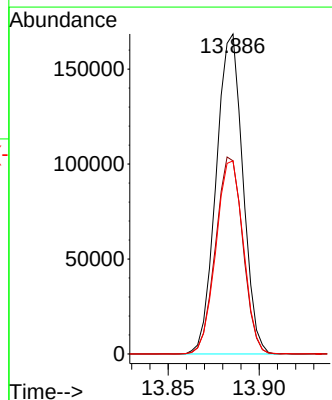
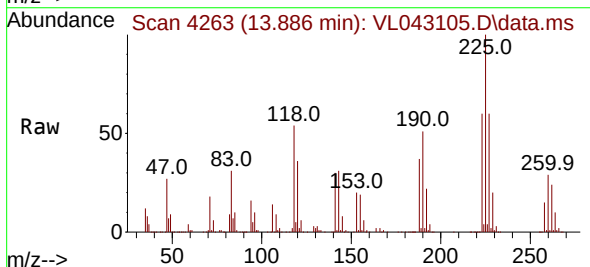
Manual Integrations  
APPROVED

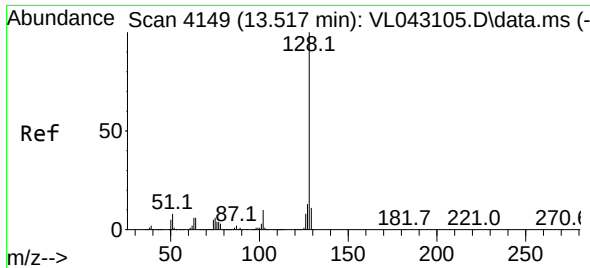
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.334 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

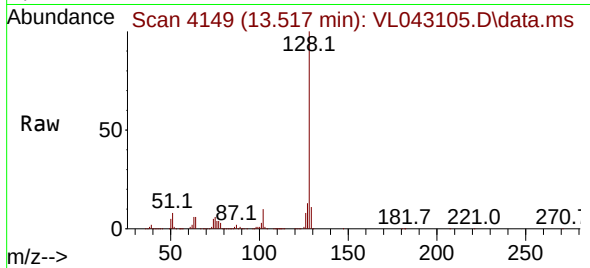
Tgt Ion:225 Resp: 171777  
Ion Ratio Lower Upper  
225 100  
223 62.8 50.2 75.4  
227 62.0 49.6 74.4





#79  
Naphthalene  
Concen: 9.972 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

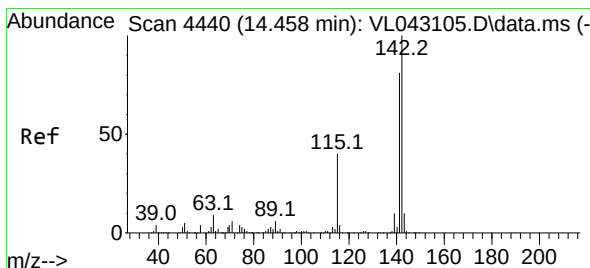
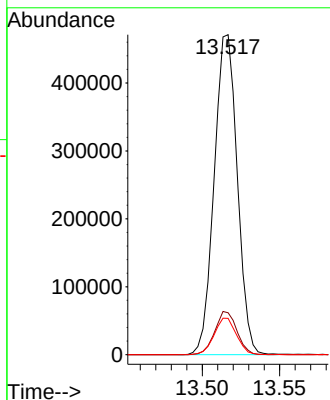
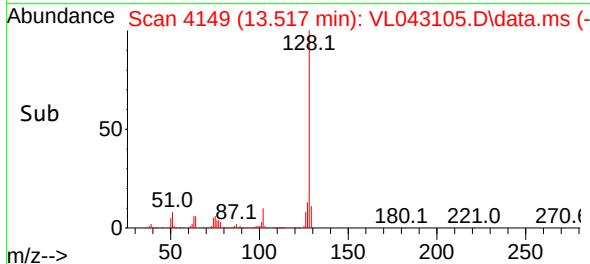
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



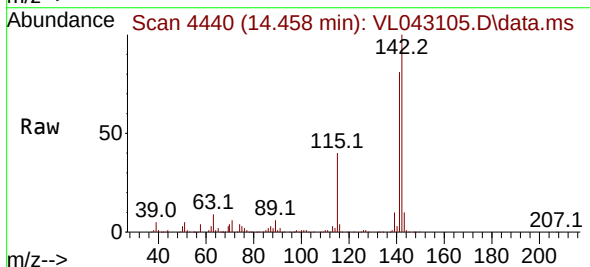
Tgt Ion:128 Resp: 488672  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 11.4 9.1 13.7

Manual Integrations  
APPROVED

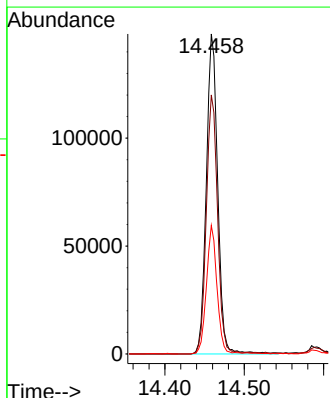
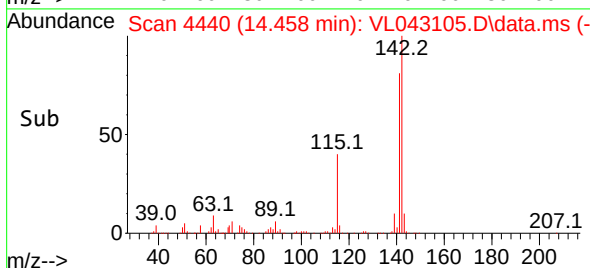
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

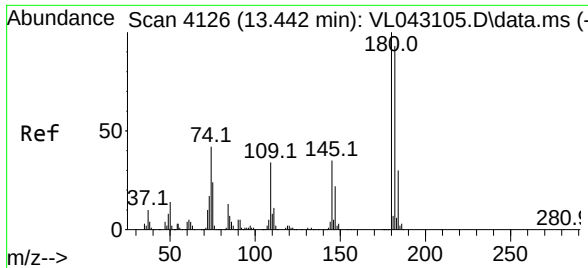


#80  
Naphthalene,2-methyl-  
Concen: 11.431 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31



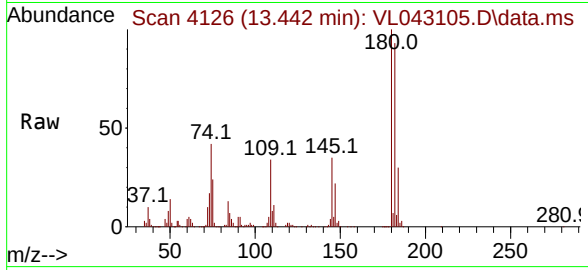
Tgt Ion:142 Resp: 147897  
Ion Ratio Lower Upper  
142 100  
141 80.8 64.6 97.0  
115 37.8 30.2 45.4





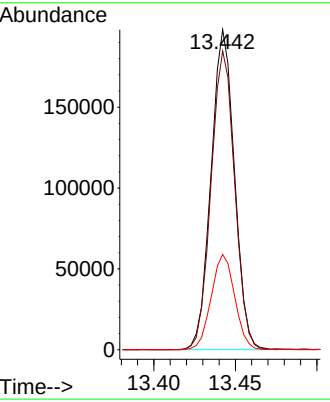
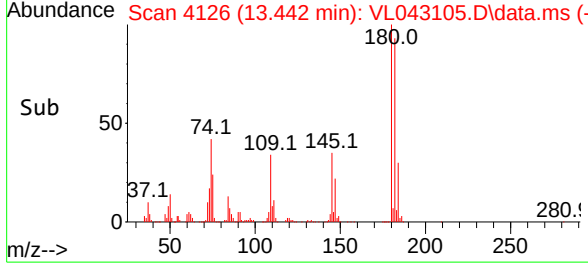
#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.582 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Instrument : MSVOA\_L  
 ClientSampleId : VSTDICCC010



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 197210     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.4  | 75.5 113.3 |
| 184         | 29.9  | 23.9 35.9  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043106.D  
 Acq On : 14 Oct 2025 11:27  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.791  | 49    | 105309   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 342939   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 313603   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 244329   | 10.024   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 100.200% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 31189    | 2.083    | ppbv  | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 33217    | 2.050    | ppbv  | 96       |
| 4) Chloromethane              | 1.535  | 50    | 12185    | 2.054    | ppbv  | 93       |
| 5) Vinyl Chloride             | 1.583  | 62    | 11114    | 1.911    | ppbv  | 92       |
| 6) Bromomethane               | 1.671  | 94    | 6672     | 2.092    | ppbv  | 95       |
| 7) Chloroethane               | 1.706  | 64    | 5008     | 2.106    | ppbv  | 97       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 25897    | 2.140    | ppbv  | 100      |
| 9) Propene                    | 1.486  | 41    | 15177    | 2.112    | ppbv  | 94       |
| 10) Heptane                   | 4.982  | 43    | 42790    | 2.078    | ppbv  | 97       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 31114    | 2.125    | ppbv  | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 25091    | 2.128    | ppbv  | 100      |
| 13) Ethanol                   | 1.722  | 45    | 6363     | 2.394    | ppbv  | 95       |
| 14) Bromoethene               | 1.784  | 108   | 9087     | 2.075    | ppbv  | 97       |
| 15) Acetone                   | 1.836  | 43    | 31756    | 2.225    | ppbv  | 97       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 13668    | 2.021    | ppbv  | 99       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 40738    | 2.091    | ppbv  | 96       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 10794    | 2.100    | ppbv  | 99       |
| 19) Isopropyl Alcohol         | 1.888  | 45    | 18326    | 2.073    | ppbv  | # 40     |
| 20) Methylene Chloride        | 2.062  | 84    | 10694    | 1.906    | ppbv  | # 82     |
| 21) Allyl Chloride            | 2.098  | 41    | 21902    | 2.090    | ppbv  | 93       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 12511    | 2.036    | ppbv  | 98       |
| 23) Vinyl Acetate             | 2.464  | 43    | 48282    | 2.322    | ppbv  | # 96     |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 25066    | 2.112    | ppbv  | 99       |
| 25) Ethyl Acetate             | 2.836  | 43    | 74929    | 2.129    | ppbv  | 99       |
| 26) Hexane                    | 2.829  | 57    | 32595    | 2.010    | ppbv  | 93       |
| 27) Carbon Disulfide          | 2.153  | 76    | 31705    | 2.134    | ppbv  | 95       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 16207    | 2.196    | ppbv  | 98       |
| 29) Chloroform                | 2.849  | 83    | 48367    | 2.058    | ppbv  | 99       |
| 30) Cyclohexane               | 3.859  | 84    | 29270    | 2.069    | ppbv  | 99       |
| 31) cis-1,2-Dichloroethene    | 2.723  | 61    | 31925    | 2.061    | ppbv  | 97       |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97    | 51049    | 2.086    | ppbv  | 98       |
| 34) 2-Butanone                | 2.558  | 43    | 48458    | 2.090    | ppbv  | 99       |
| 35) Carbon Tetrachloride      | 3.765  | 117   | 51073    | 2.071    | ppbv  | 97       |
| 36) Benzene                   | 3.658  | 78    | 70156    | 2.172    | ppbv  | 98       |
| 37) 1,2-Dichloroethane        | 3.218  | 62    | 38767    | 2.083    | ppbv  | 100      |
| 38) Trichloroethene           | 4.551  | 130   | 27272    | 2.024    | ppbv  | 96       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 25427    | 2.151    | ppbv  | 92       |
| 40) 1,4-Dioxane               | 4.584  | 88    | 11102m   | 2.101    | ppbv  |          |
| 41) Tetrahydrofuran           | 3.059  | 42    | 26362    | 2.037    | ppbv  | 98       |
| 42) Bromodichloromethane      | 4.496  | 83    | 54224    | 2.106    | ppbv  | # 93     |
| 43) Methyl Methacrylate       | 4.878  | 69    | 33805    | 2.051    | ppbv  | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.642  | 57    | 115417   | 2.137    | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.416  | 75    | 34728    | 2.109    | ppbv  | 90       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043106.D  
 Acq On : 14 Oct 2025 11:27  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

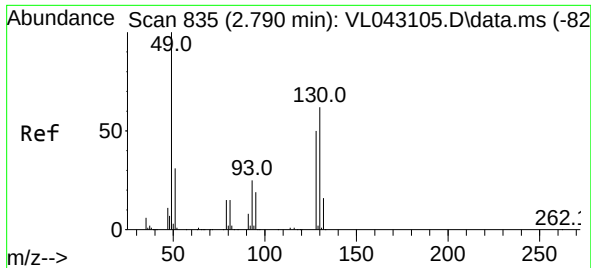
Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 41365m   | 2.105 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 26359    | 2.067 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.390  | 129  | 45751    | 2.146 | ppbv   | 99       |
| 49) Bromoform                 | 9.484  | 173  | 37314    | 2.153 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 66811    | 2.089 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.438  | 43   | 50642    | 2.122 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 24183    | 2.076 | ppbv   | 91       |
| 53) Toluene                   | 6.937  | 91   | 80660    | 2.104 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 42320    | 2.103 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 41712    | 2.110 | ppbv   | 94       |
| 57) Chlorobenzene             | 8.924  | 112  | 62714    | 2.138 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.354  | 91   | 114403   | 2.109 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.532  | 91   | 185190m  | 4.311 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 91223    | 2.152 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 41631    | 2.175 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 164073   | 2.142 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 58510    | 2.061 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 43648    | 2.152 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 148300   | 2.192 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 15656    | 2.072 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 210525   | 2.193 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 180060   | 2.207 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 178676   | 2.222 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 126551   | 2.166 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 113233   | 2.172 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 92650    | 2.155 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 104352   | 2.169 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 62709    | 2.247 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 60877    | 2.164 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 57304    | 2.123 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 46796    | 2.239 | ppbv   | 98       |
| 79) Naphthalene               | 13.514 | 128  | 123642   | 2.488 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 32308    | 2.462 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 50394    | 2.414 | ppbv   | 99       |

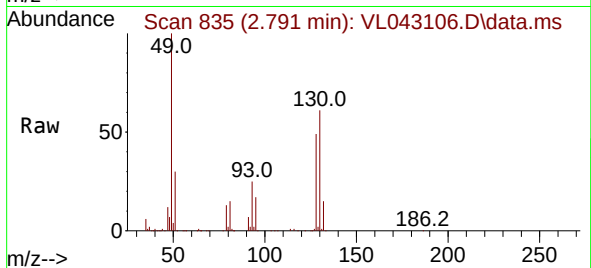
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 835  
Delta R.T. 0.001 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

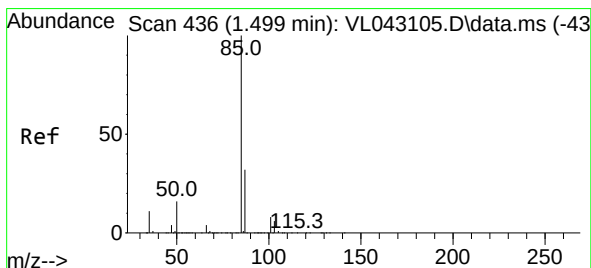
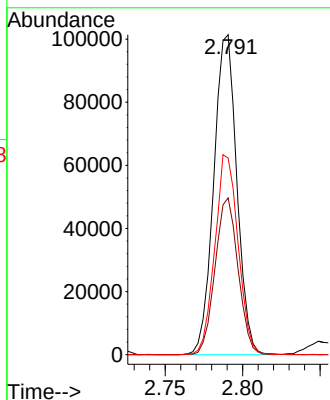
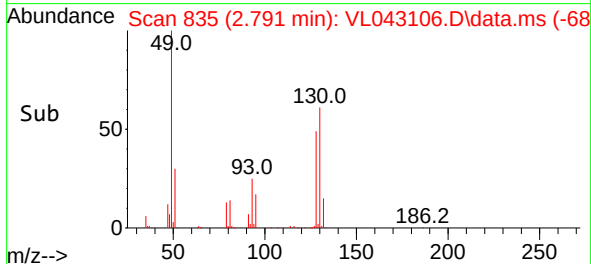
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 49 Resp: 105309  
Ion Ratio Lower Upper  
49 100  
128 48.8 24.4 73.4  
130 62.8 31.0 93.0

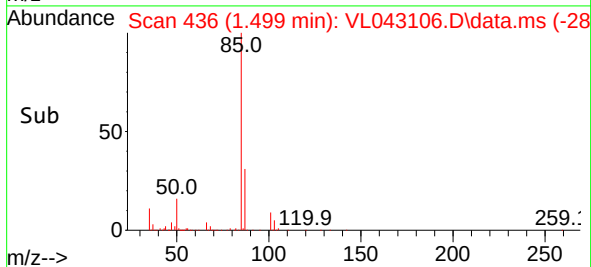
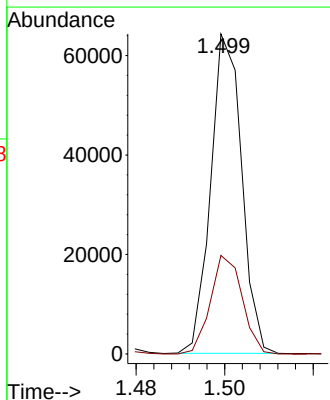
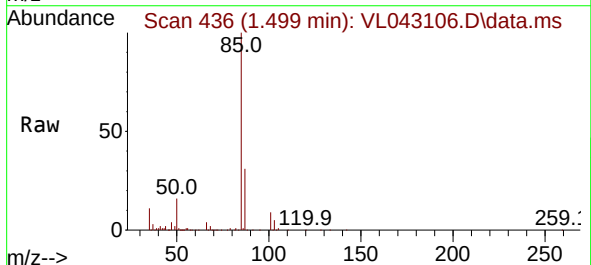
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

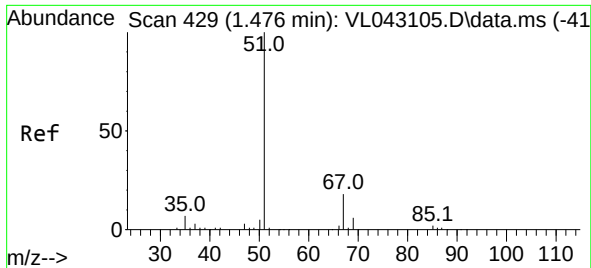


#2  
Dichlorodifluoromethane  
Concen: 2.083 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189  
Ion Ratio Lower Upper  
85 100  
87 30.9 25.3 37.9







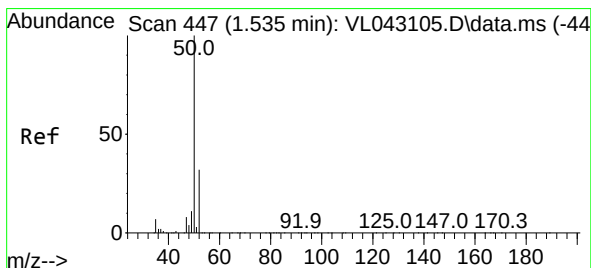
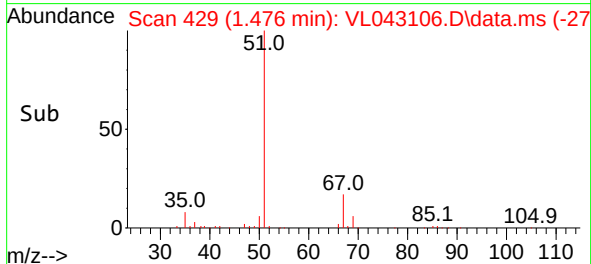
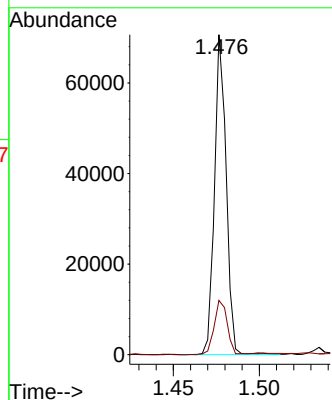
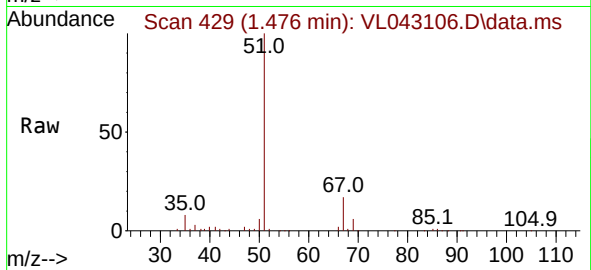
#3  
Chlorodifluoromethane  
Concen: 2.050 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 51 Resp: 3321  
Ion Ratio Lower Upper  
51 100  
67 20.6 15.1 22.7

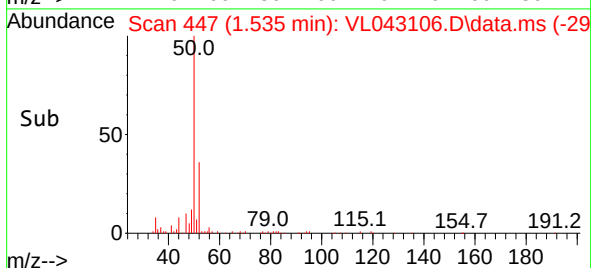
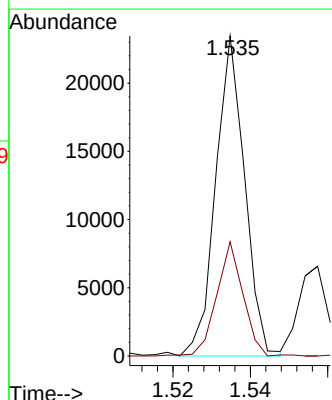
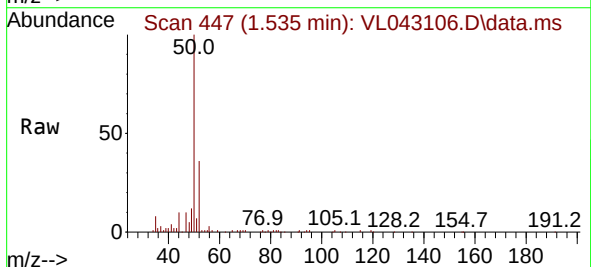
Manual Integrations  
APPROVED

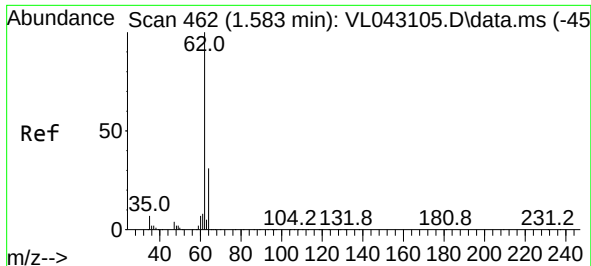
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#4  
Chloromethane  
Concen: 2.054 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

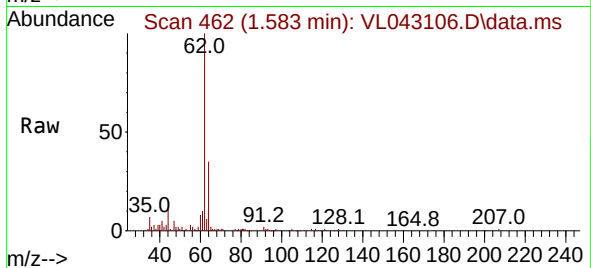
Tgt Ion: 50 Resp: 12185  
Ion Ratio Lower Upper  
50 100  
52 35.4 25.2 37.8





#5  
 Vinyl Chloride  
 Concen: 1.911 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

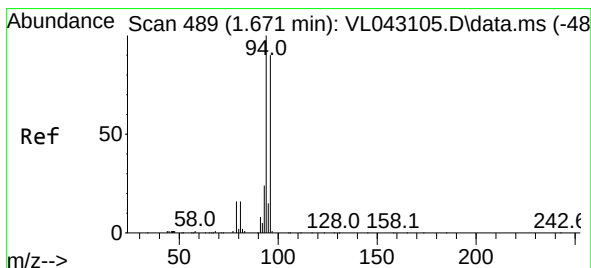
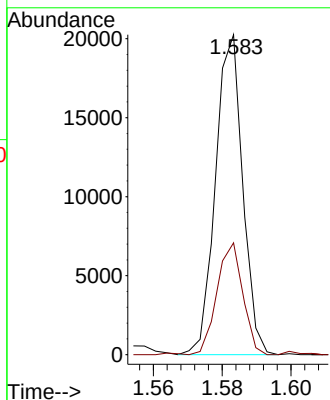
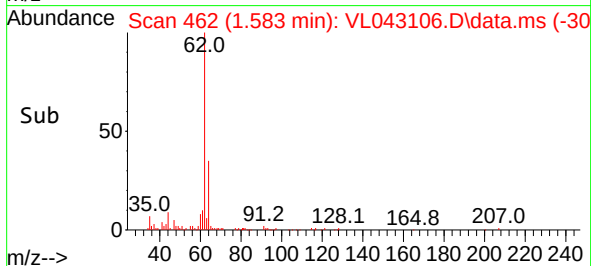
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



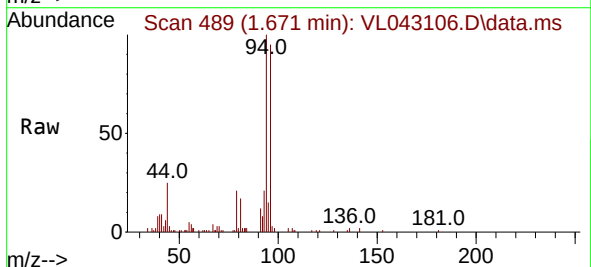
Tgt Ion: 62 Resp: 11114  
 Ion Ratio Lower Upper  
 62 100  
 64 35.0 24.6 36.8

Manual Integrations  
 APPROVED

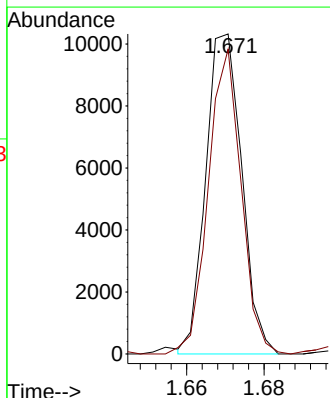
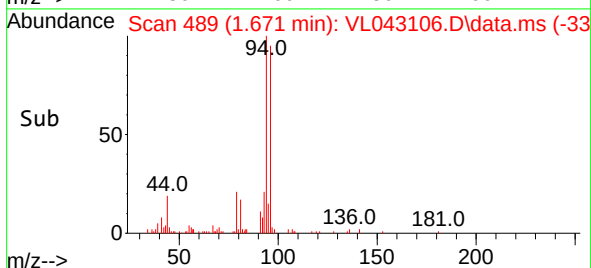
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

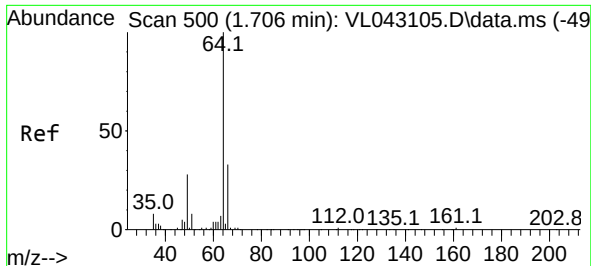


#6  
 Bromomethane  
 Concen: 2.092 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27



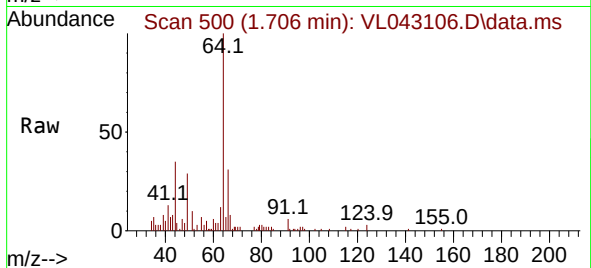
Tgt Ion: 94 Resp: 6672  
 Ion Ratio Lower Upper  
 94 100  
 96 94.6 72.2 108.4





#7  
Chloroethane  
Concen: 2.106 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

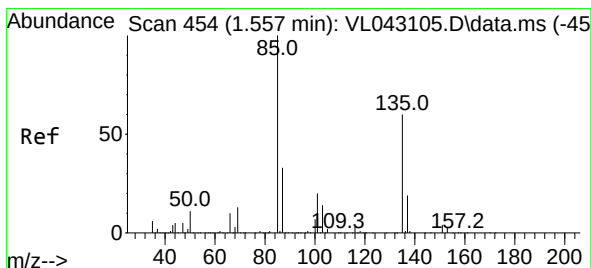
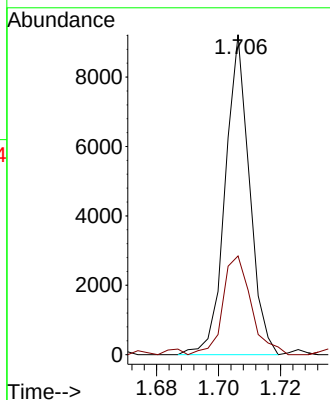
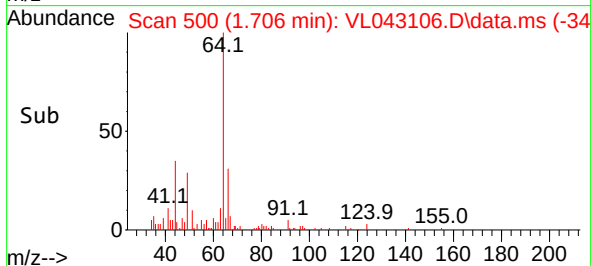
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



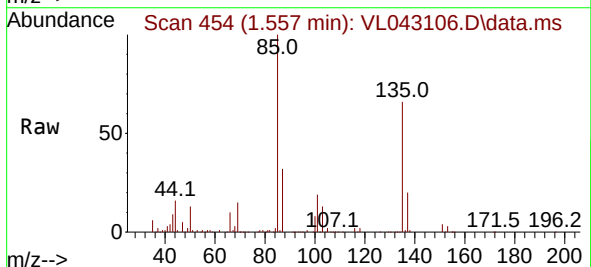
Tgt Ion: 64 Resp: 5008  
Ion Ratio Lower Upper  
64 100  
66 30.8 26.0 39.0

Manual Integrations  
APPROVED

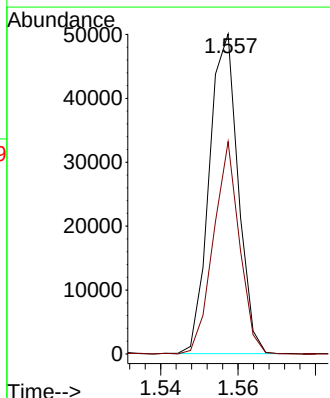
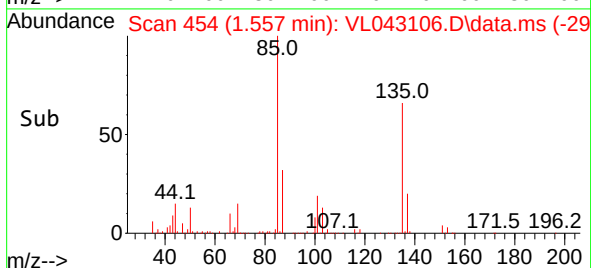
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

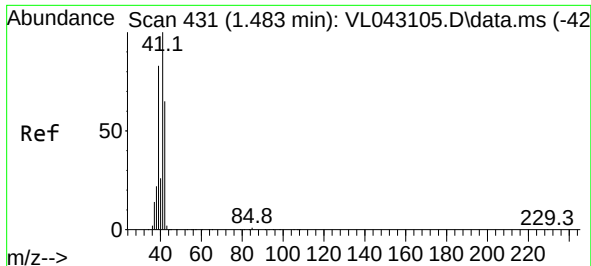


#8  
Dichlorotetrafluoroethane  
Concen: 2.140 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



Tgt Ion: 85 Resp: 25897  
Ion Ratio Lower Upper  
85 100  
135 60.1 48.2 72.4





#9

Propene

Concen: 2.112 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1517

Ion Ratio Lower Upper

41 100

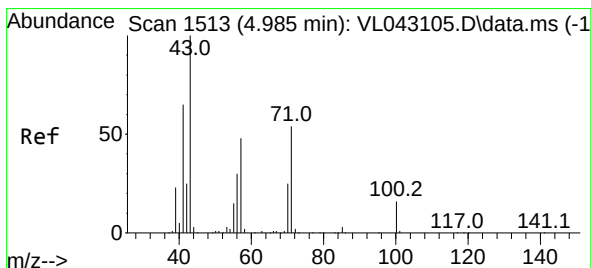
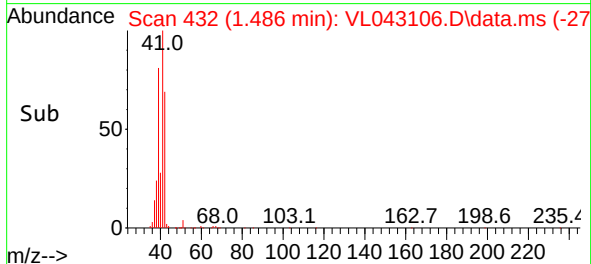
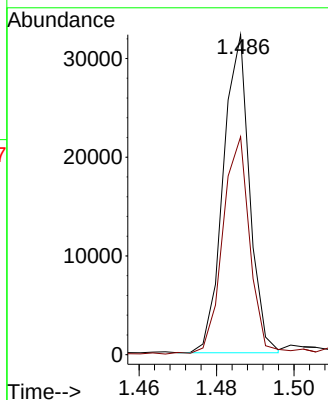
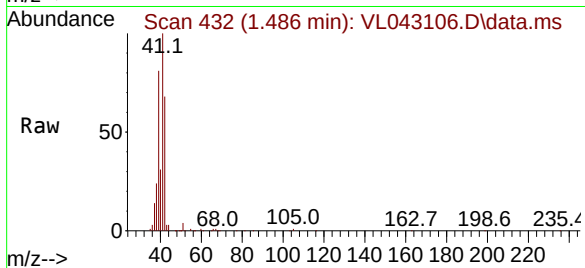
42 74.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 2.078 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043106.D

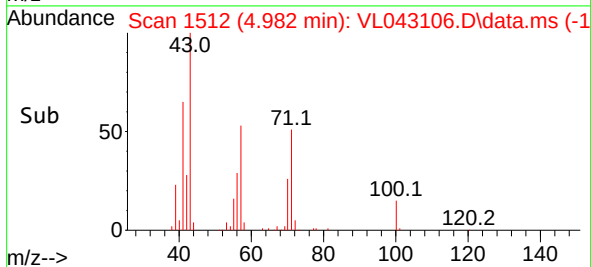
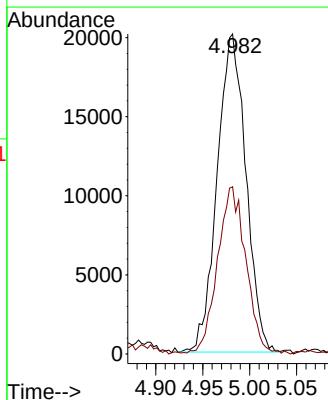
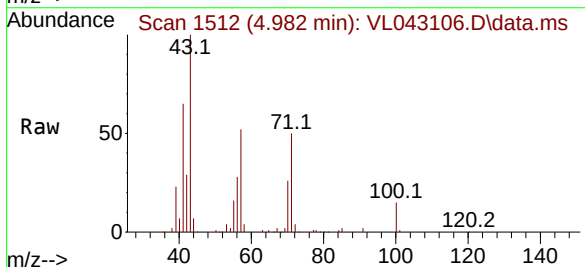
Acq: 14 Oct 2025 11:27

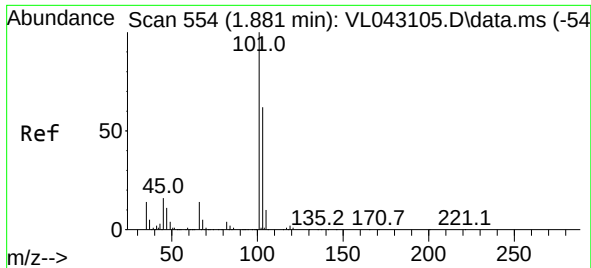
Tgt Ion: 43 Resp: 42790

Ion Ratio Lower Upper

43 100

57 52.8 40.8 61.2





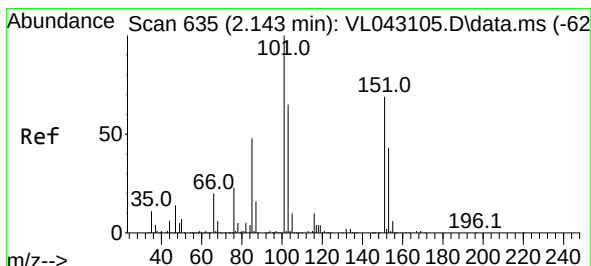
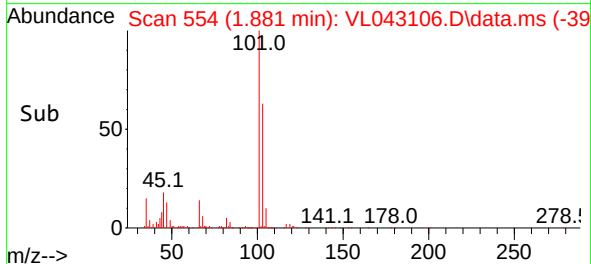
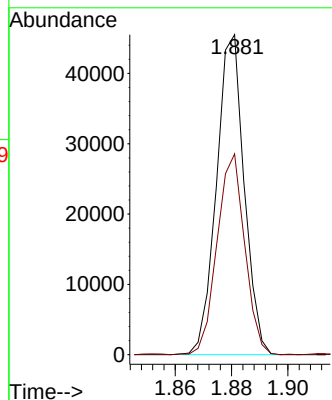
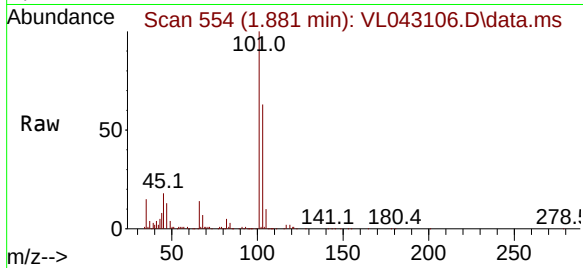
#11  
Trichlorofluoromethane  
Concen: 2.125 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:101 Resp: 31114  
Ion Ratio Lower Upper  
101 100  
103 62.8 49.3 73.9

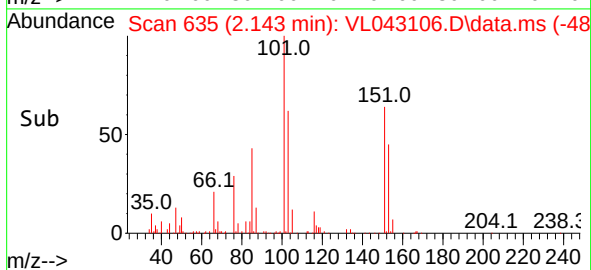
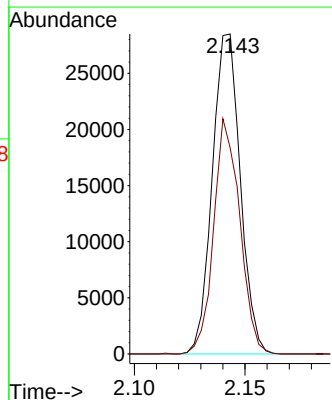
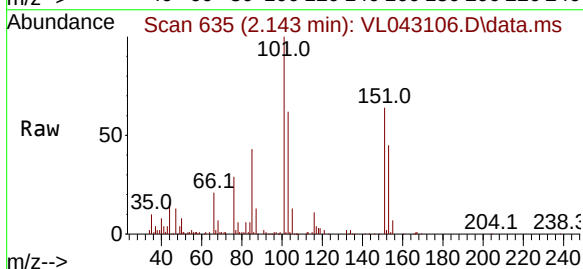
Manual Integrations  
APPROVED

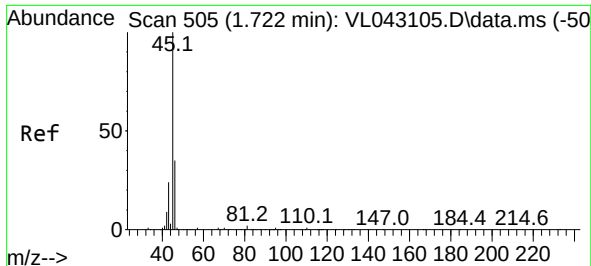
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.128 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

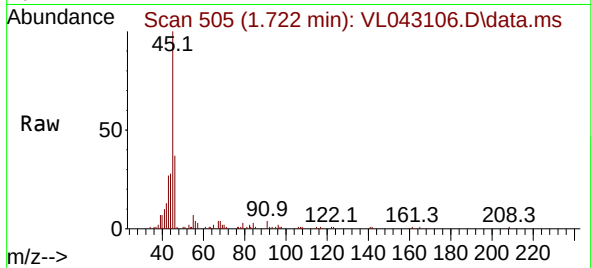
Tgt Ion:101 Resp: 25091  
Ion Ratio Lower Upper  
101 100  
151 68.5 54.7 82.1





#13  
Ethanol  
Concen: 2.394 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

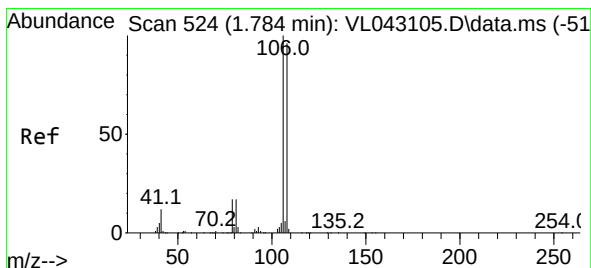
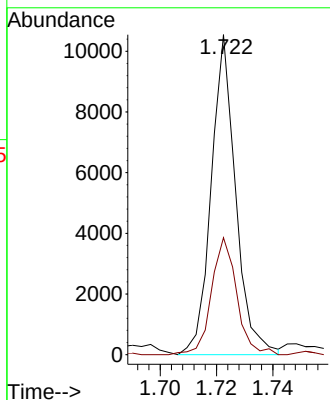
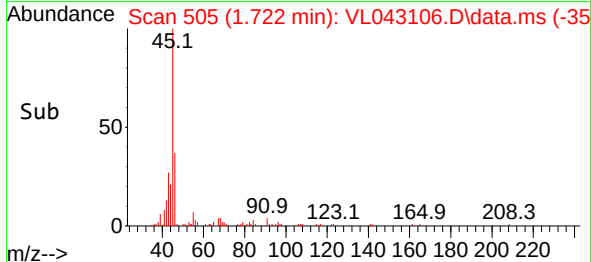
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



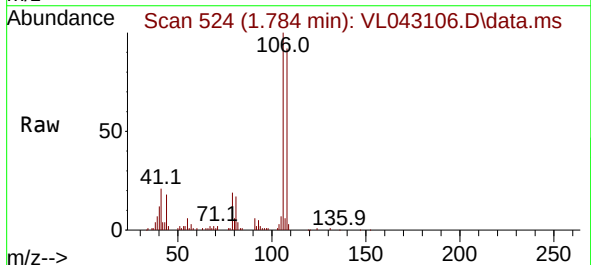
Tgt Ion: 45 Resp: 636  
Ion Ratio Lower Upper  
45 100  
46 39.6 14.7 58.9

Manual Integrations  
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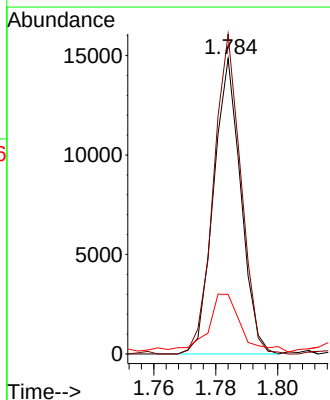
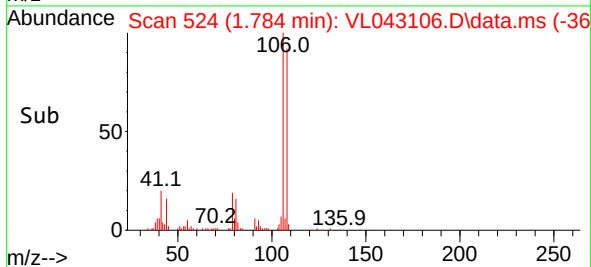
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

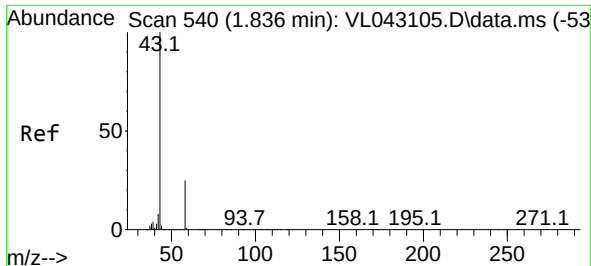


#14  
Bromoethene  
Concen: 2.075 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



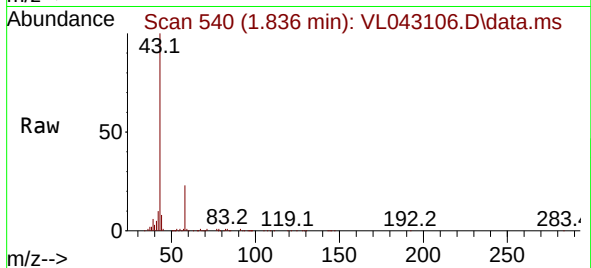
Tgt Ion:108 Resp: 9087  
Ion Ratio Lower Upper  
108 100  
106 109.1 84.4 126.6  
79 19.1 15.3 22.9





#15  
Acetone  
Concen: 2.225 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

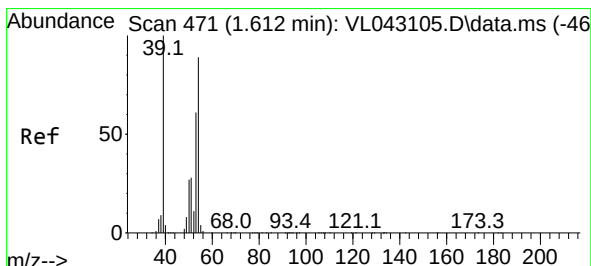
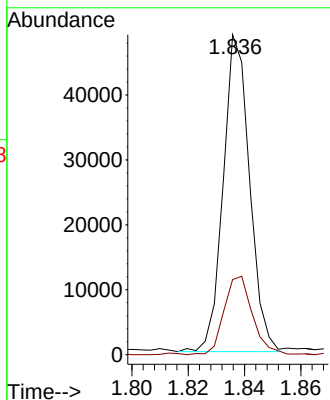
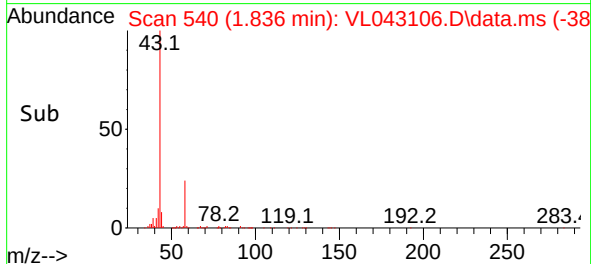
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



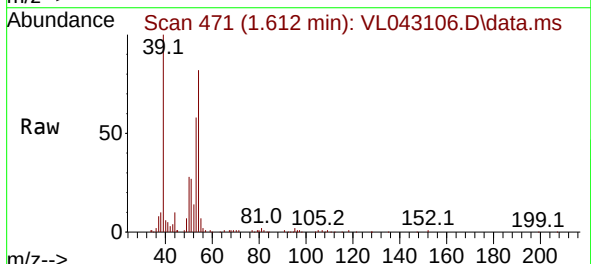
Tgt Ion: 43 Resp: 31750  
Ion Ratio Lower Upper  
43 100  
58 27.3 20.8 31.2

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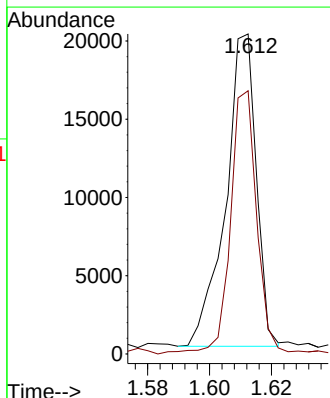
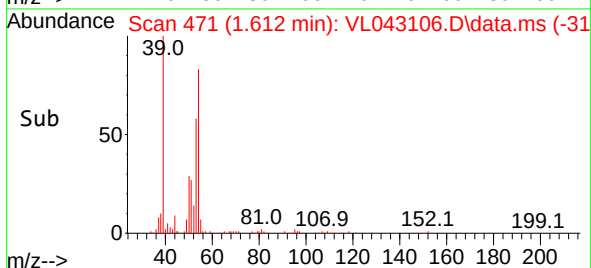
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

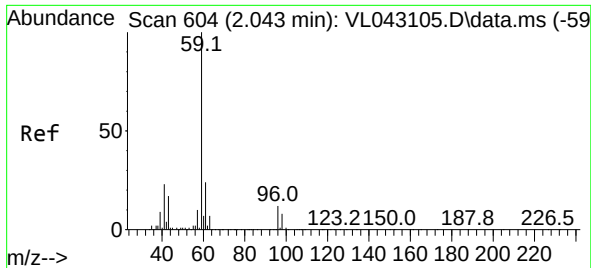


#16  
1,3-Butadiene  
Concen: 2.021 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



Tgt Ion: 39 Resp: 13668  
Ion Ratio Lower Upper  
39 100  
54 74.3 59.0 88.4





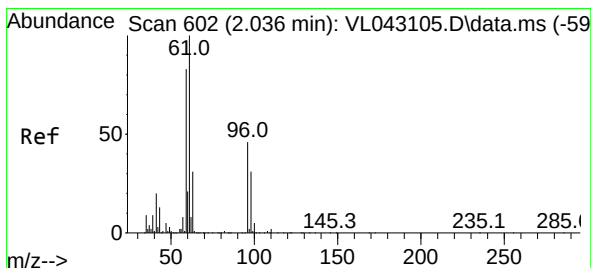
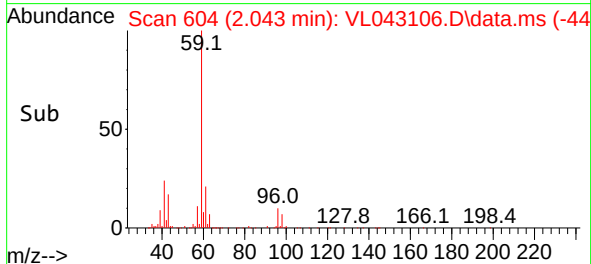
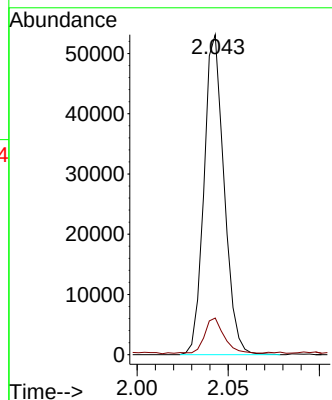
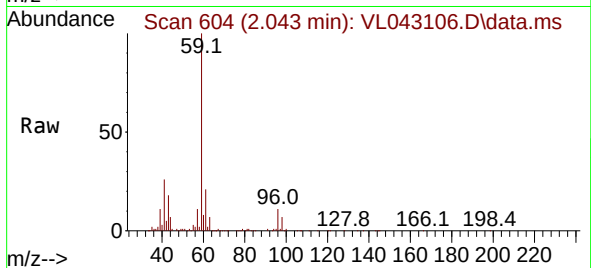
#17  
tert-Butyl alcohol  
Concen: 2.091 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 59 Resp: 40738  
Ion Ratio Lower Upper  
59 100  
57 11.9 8.2 12.4

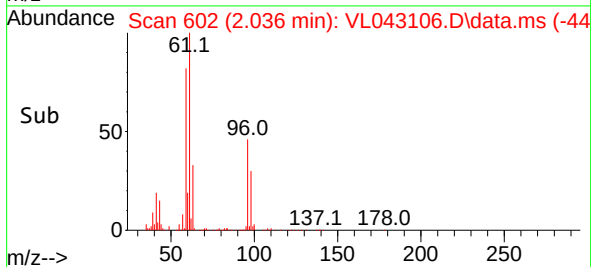
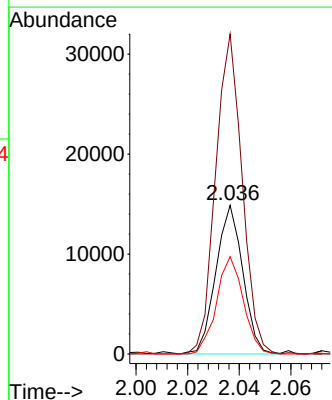
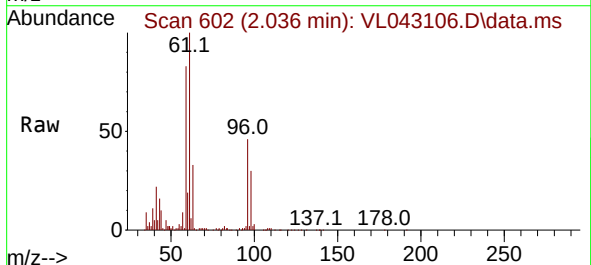
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

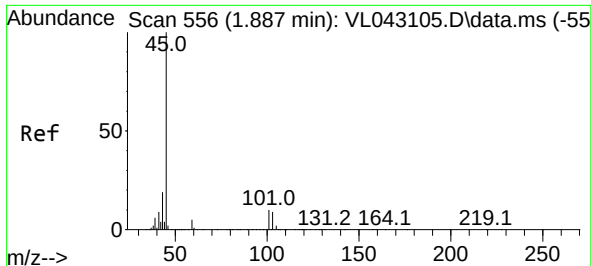


#18  
1,1-Dichloroethene  
Concen: 2.100 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 96 Resp: 10794  
Ion Ratio Lower Upper  
96 100  
61 215.2 173.4 260.0  
98 65.4 53.2 79.8

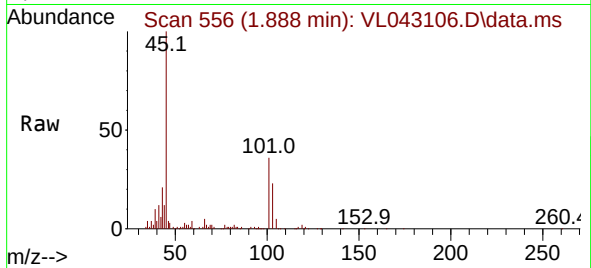






#19  
Isopropyl Alcohol  
Concen: 2.073 ppbv  
RT: 1.888 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

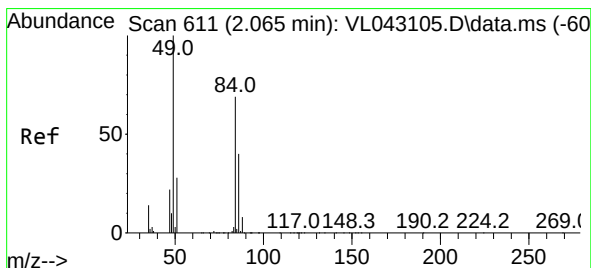
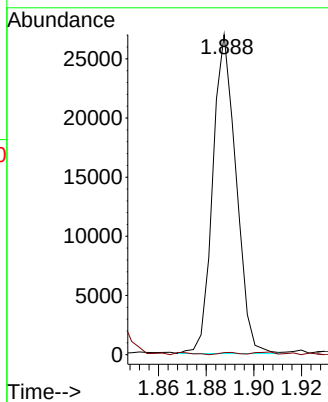
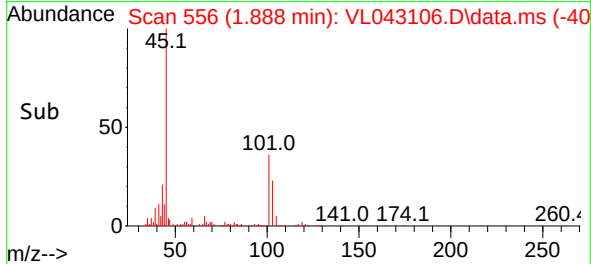
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



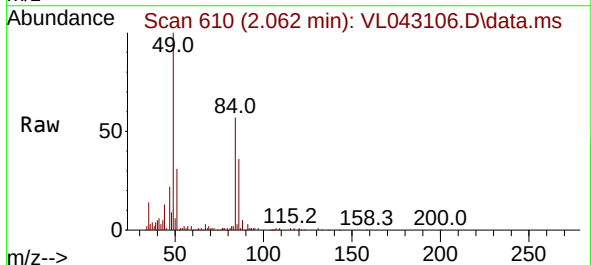
Tgt Ion: 45 Resp: 18320  
Ion Ratio Lower Upper  
45 100  
58 2.3 31.3 46.9

Manual Integrations  
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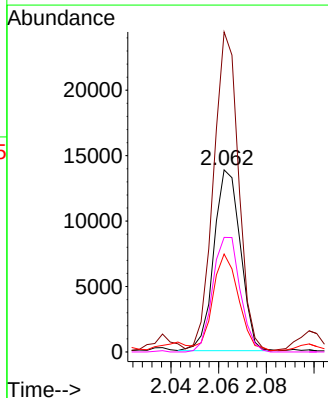
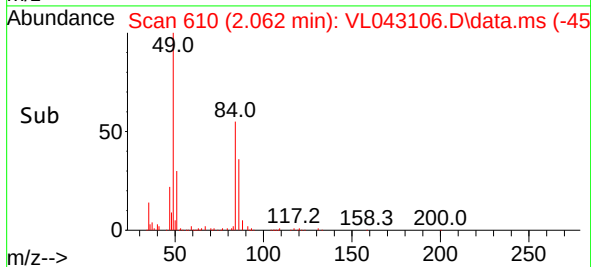
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

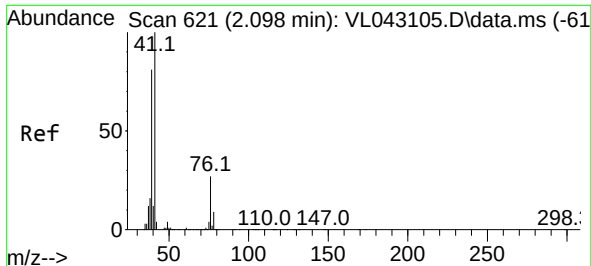


#20  
Methylene Chloride  
Concen: 1.906 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



Tgt Ion: 84 Resp: 10694  
Ion Ratio Lower Upper  
84 100  
49 175.6 116.6 175.0#  
51 53.2 34.8 52.2#  
86 63.4 46.2 69.4





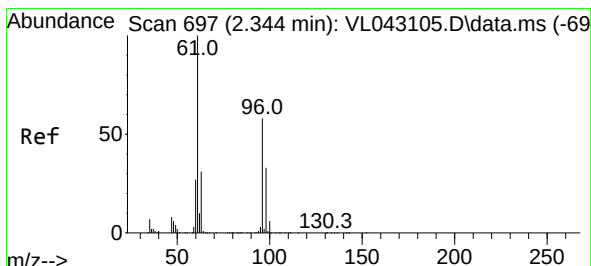
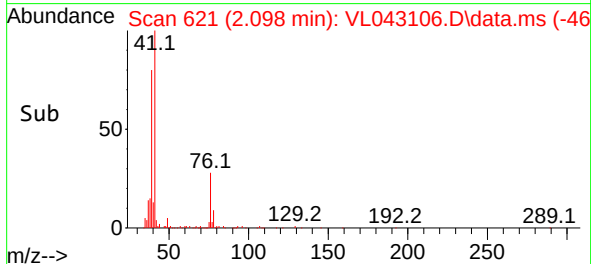
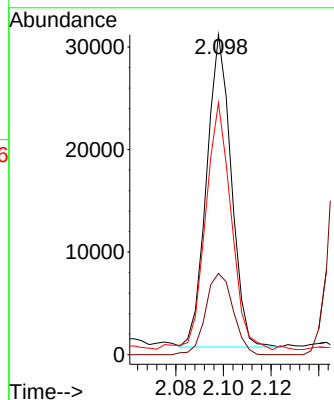
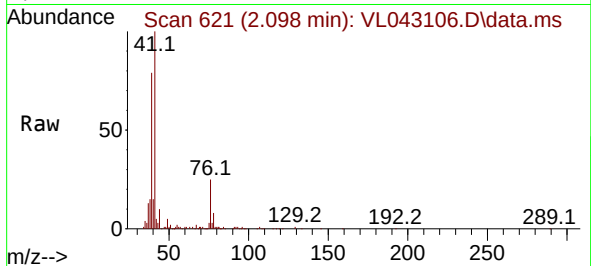
#21  
 Allyl Chloride  
 Concen: 2.090 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Tgt Ion: 41 Resp: 2190  
 Ion Ratio Lower Upper  
 41 100  
 76 28.9 21.5 32.3  
 39 83.1 60.8 91.2

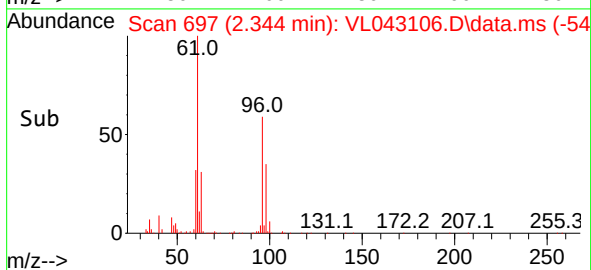
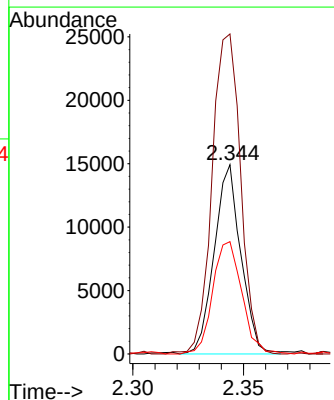
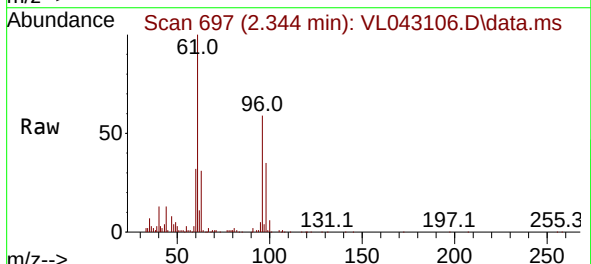
Manual Integrations  
 APPROVED

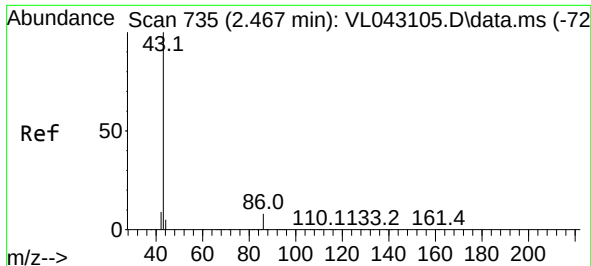
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 2.036 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

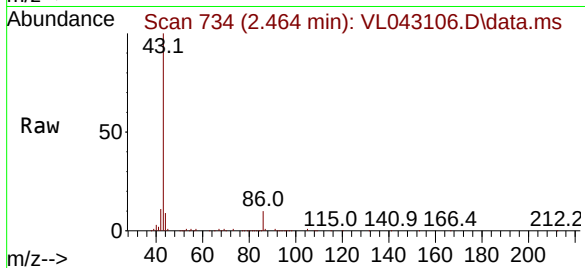
Tgt Ion: 96 Resp: 12511  
 Ion Ratio Lower Upper  
 96 100  
 61 169.0 137.0 205.6  
 98 59.3 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 2.322 ppbv  
 RT: 2.464 min Scan# 718  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

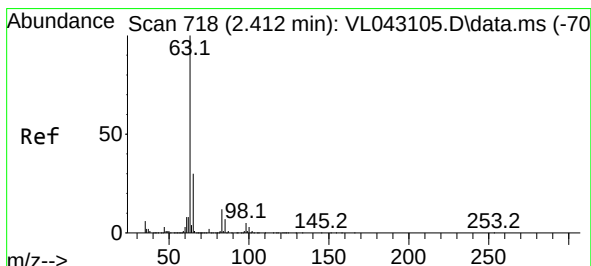
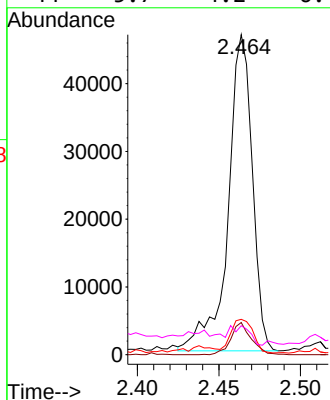
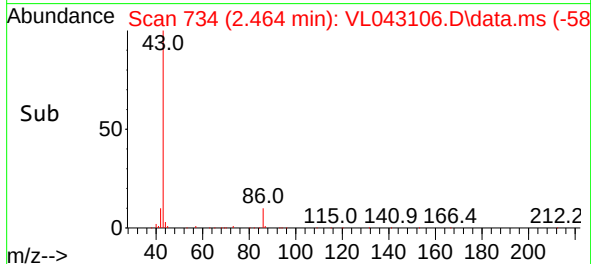
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



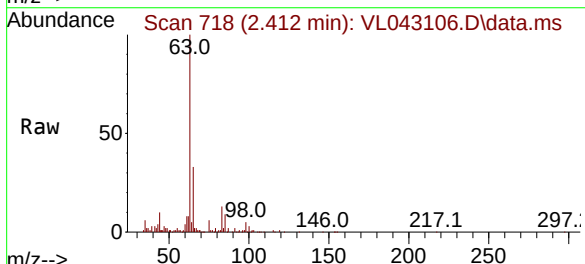
Tgt Ion: 43 Resp: 4828  
 Ion Ratio Lower Upper  
 43 100  
 86 10.1 6.2 9.2  
 42 10.6 7.6 11.4  
 44 5.7 4.2 6.4

Manual Integrations  
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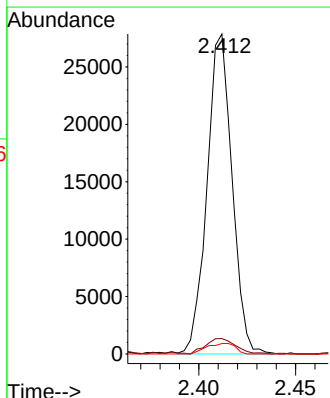
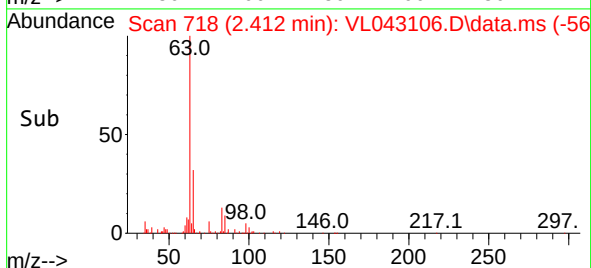
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

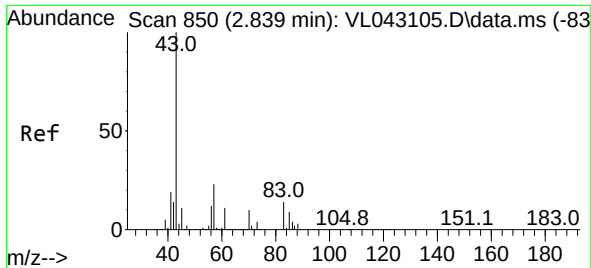


#24  
 1,1-Dichloroethane  
 Concen: 2.112 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27



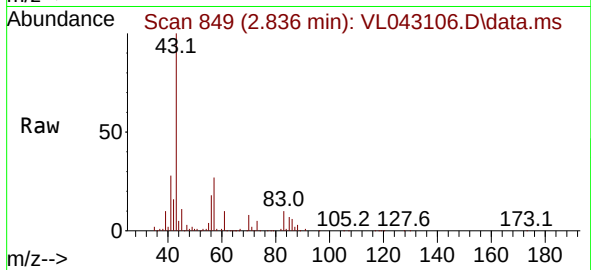
Tgt Ion: 63 Resp: 25066  
 Ion Ratio Lower Upper  
 63 100  
 98 4.9 2.6 7.8  
 100 3.2 1.5 4.4





#25  
Ethyl Acetate  
Concen: 2.129 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

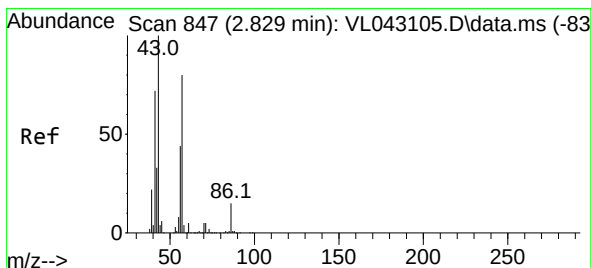
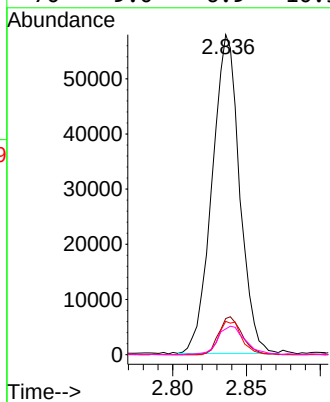
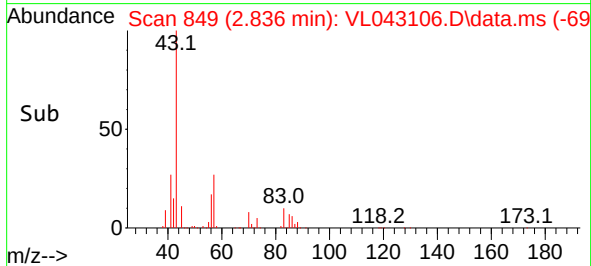
Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002



|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 74929 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 10.1     | 7.8 11.8    |
| 61 8.9      | 7.0 10.6    |
| 70 9.0      | 6.9 10.3    |

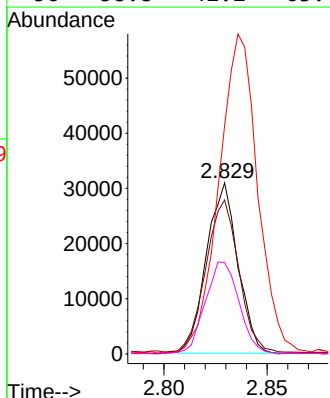
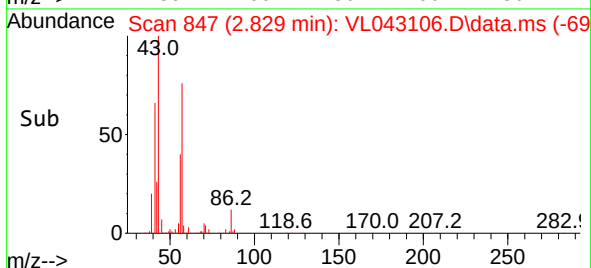
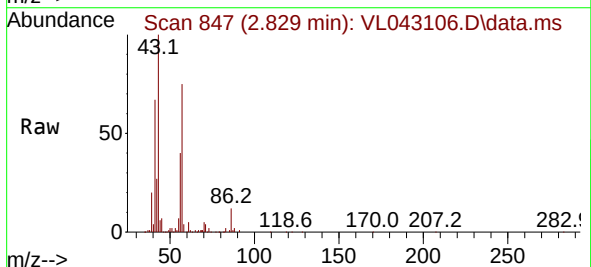
Manual Integrations  
APPROVED

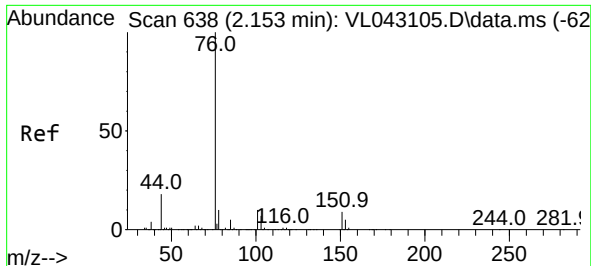
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#26  
Hexane  
Concen: 2.010 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 32595 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 96.4     | 71.4 107.0  |
| 43 233.0    | 178.5 267.7 |
| 56 58.8     | 42.2 63.4   |





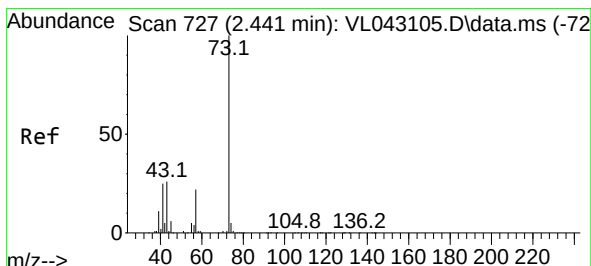
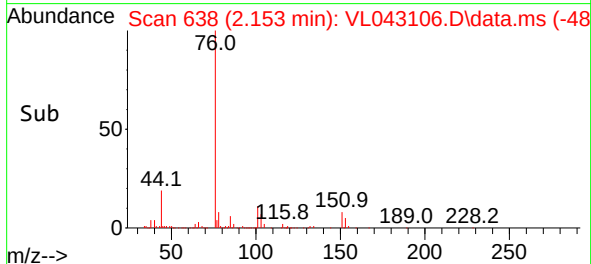
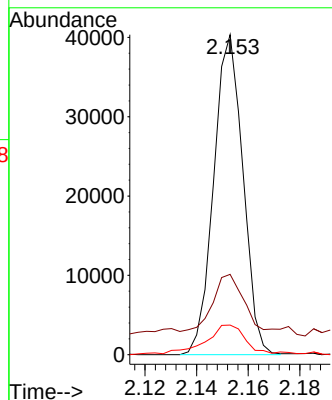
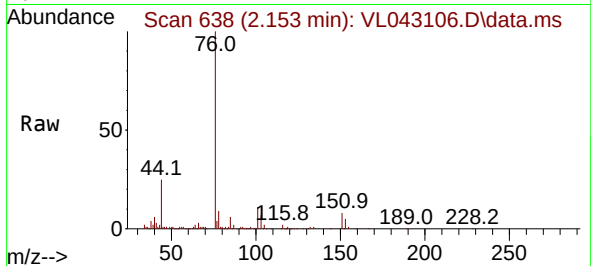
#27  
Carbon Disulfide  
Concen: 2.134 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 76 Resp: 3170  
Ion Ratio Lower Upper  
76 100  
44 23.1 16.7 25.1  
78 13.6 9.3 13.9

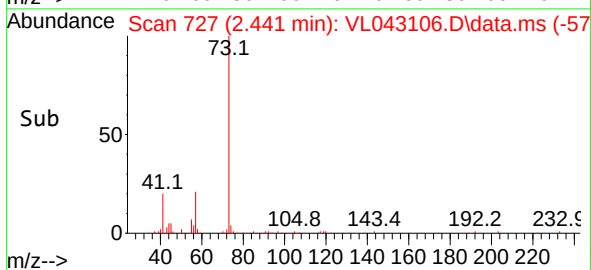
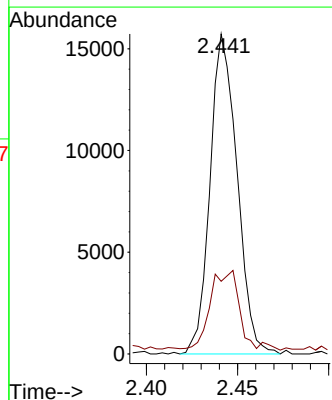
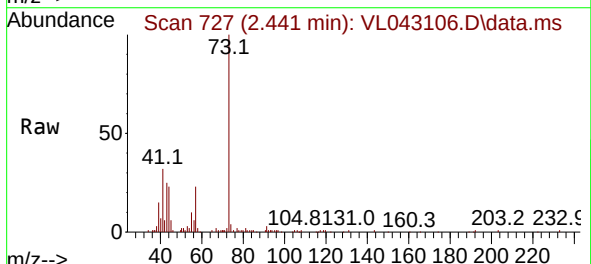
Manual Integrations  
APPROVED

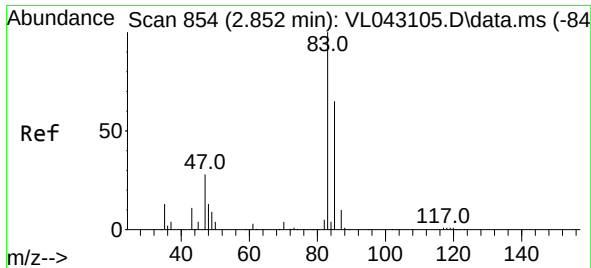
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#28  
Methyl tert-Butyl Ether  
Concen: 2.196 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 73 Resp: 16207  
Ion Ratio Lower Upper  
73 100  
57 26.6 20.5 30.7





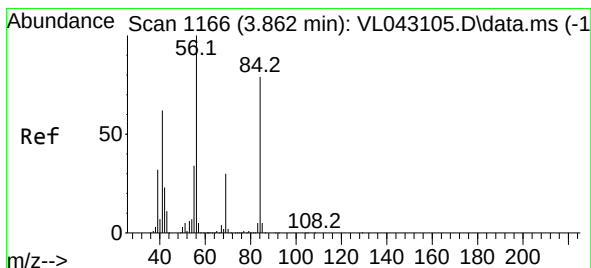
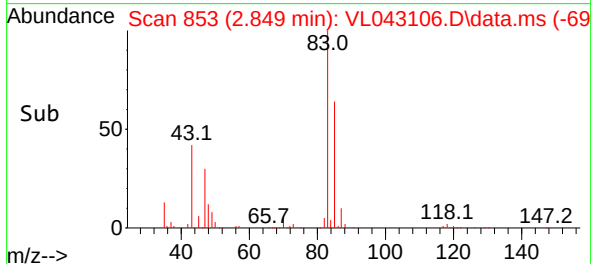
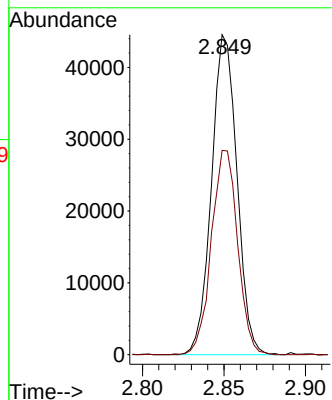
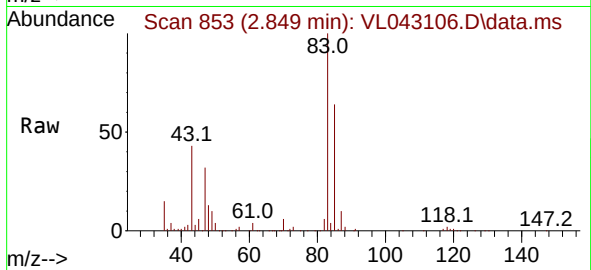
#29  
Chloroform  
Concen: 2.058 ppbv  
RT: 2.849 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 83 Resp: 4836  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.8 77.6

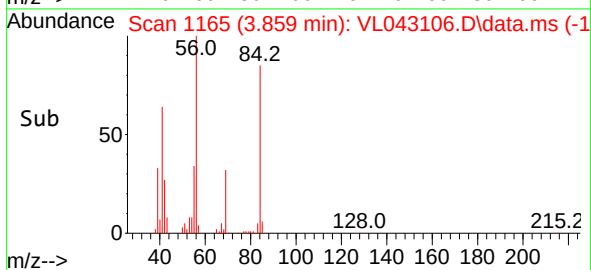
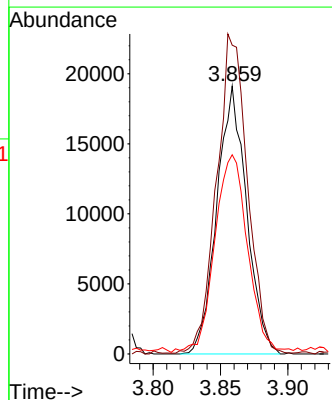
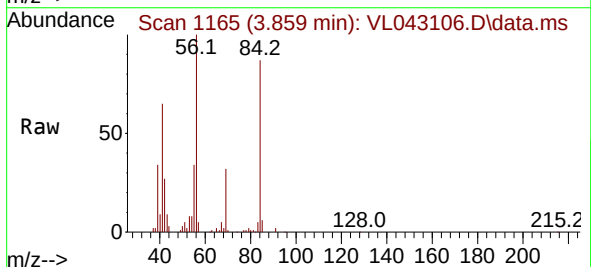
Manual Integrations  
APPROVED

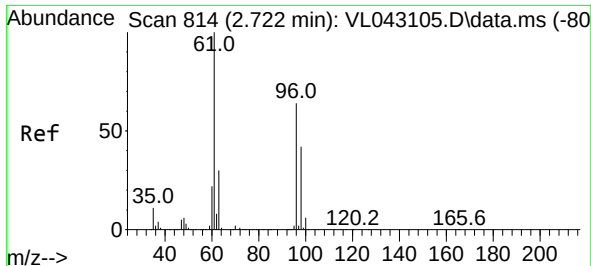
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#30  
Cyclohexane  
Concen: 2.069 ppbv  
RT: 3.859 min Scan# 1165  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 29270  
Ion Ratio Lower Upper  
84 100  
56 125.6 100.9 151.3  
41 79.0 63.8 95.6





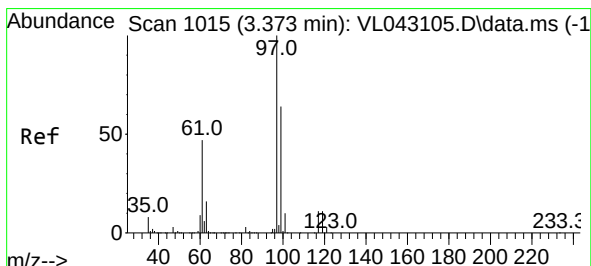
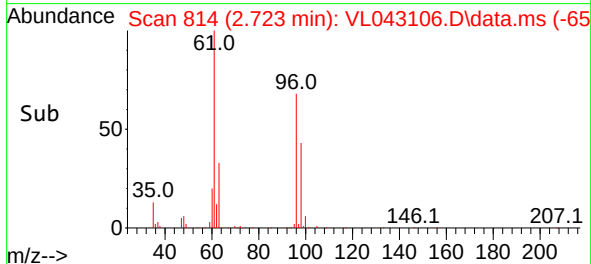
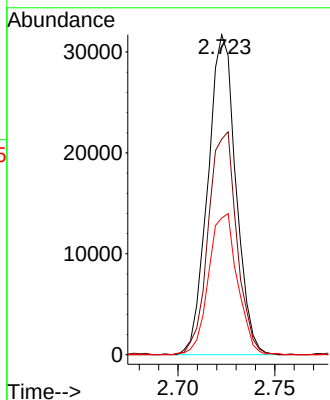
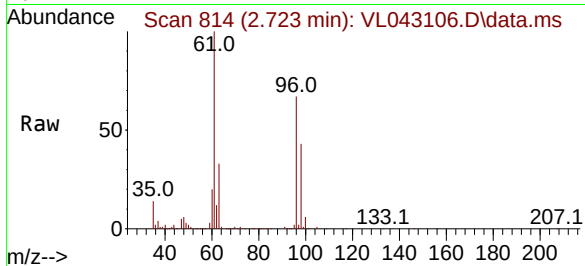
#31  
 cis-1,2-Dichloroethene  
 Concen: 2.061 ppbv  
 RT: 2.723 min Scan# 814  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Tgt Ion: 61 Resp: 31925  
 Ion Ratio Lower Upper  
 61 100  
 96 67.3 51.0 76.6  
 98 42.3 33.5 50.3

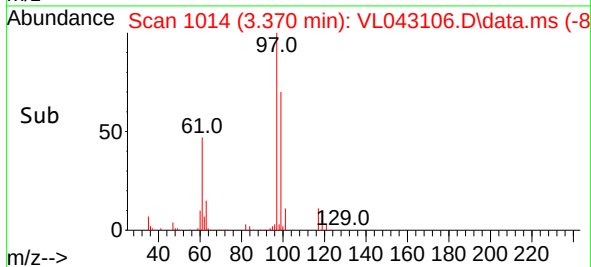
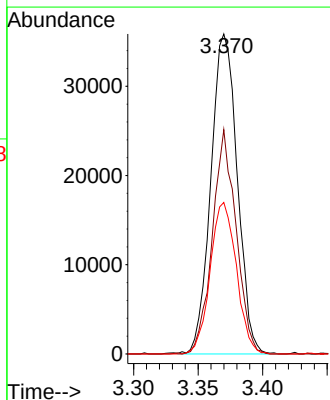
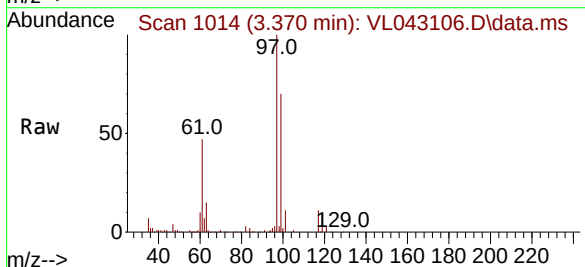
Manual Integrations  
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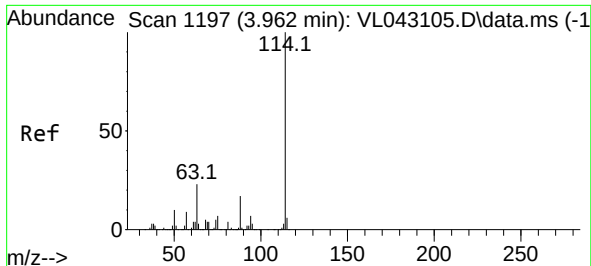
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#32  
 1,1,1-Trichloroethane  
 Concen: 2.086 ppbv  
 RT: 3.370 min Scan# 1014  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

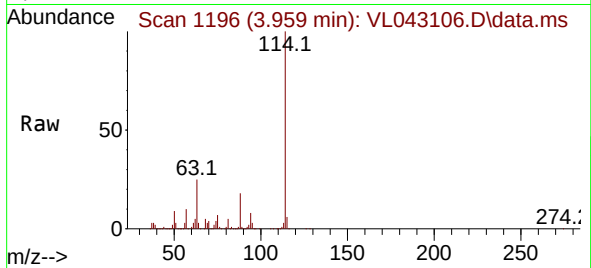
Tgt Ion: 97 Resp: 51049  
 Ion Ratio Lower Upper  
 97 100  
 99 62.8 51.3 76.9  
 61 46.9 38.4 57.6





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

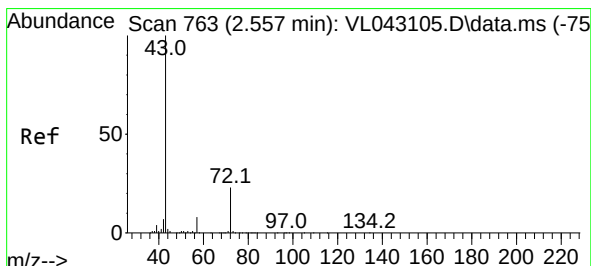
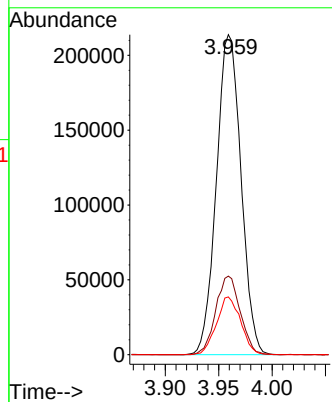
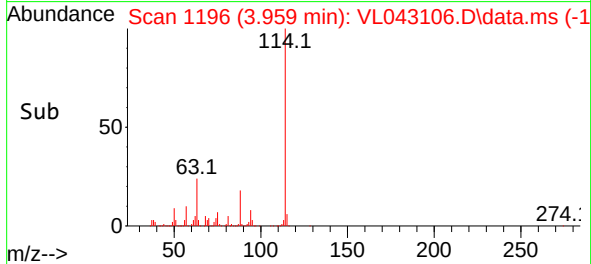
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion:114 Resp: 342939  
Ion Ratio Lower Upper  
114 100  
63 24.5 19.3 28.9  
88 17.8 13.9 20.9

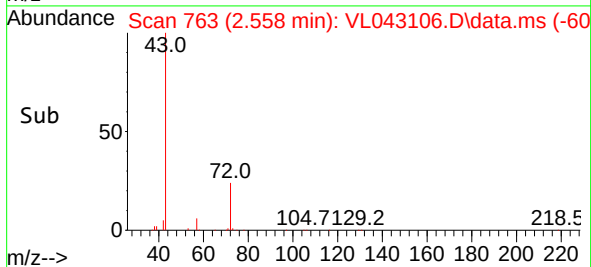
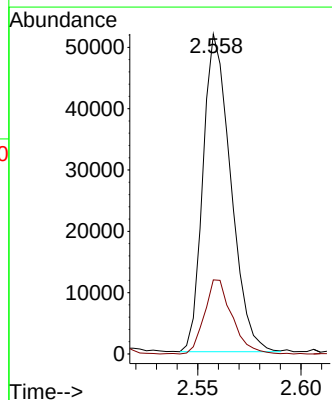
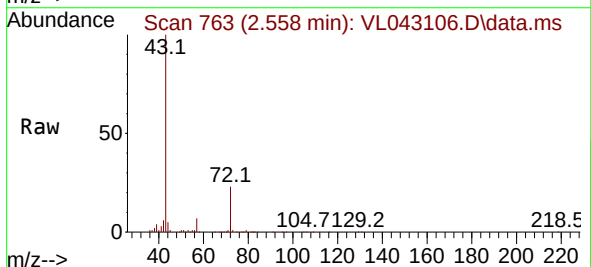
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

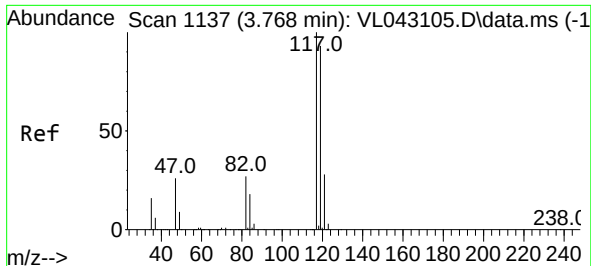


#34  
2-Butanone  
Concen: 2.090 ppbv  
RT: 2.558 min Scan# 763  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 48458  
Ion Ratio Lower Upper  
43 100  
72 23.3 18.4 27.6







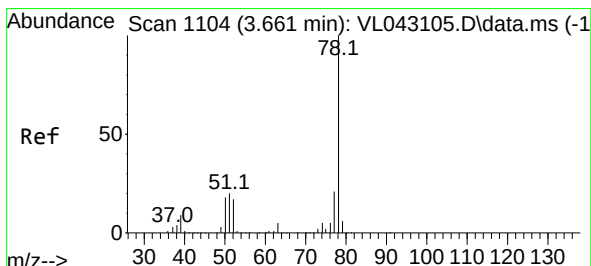
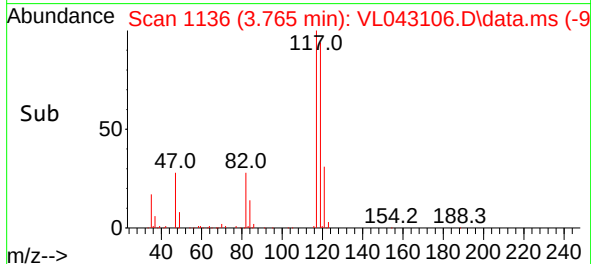
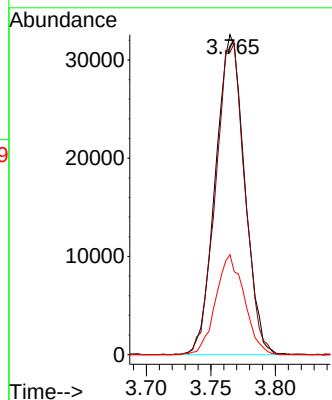
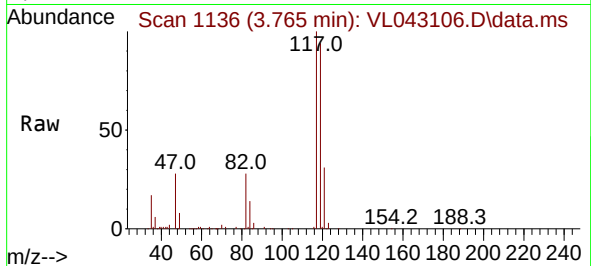
#35  
Carbon Tetrachloride  
Concen: 2.071 ppbv  
RT: 3.765 min Scan# 1107  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

Tgt Ion: 117 Resp: 5107  
Ion Ratio Lower Upper  
117 100  
119 94.2 74.1 111.1  
121 31.3 22.2 33.2

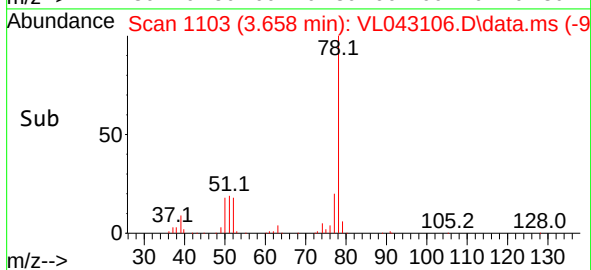
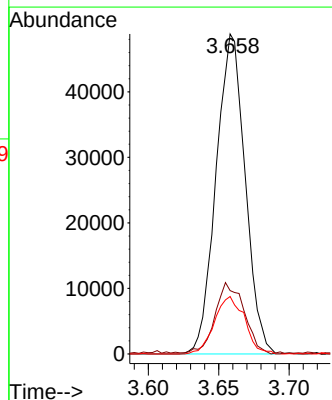
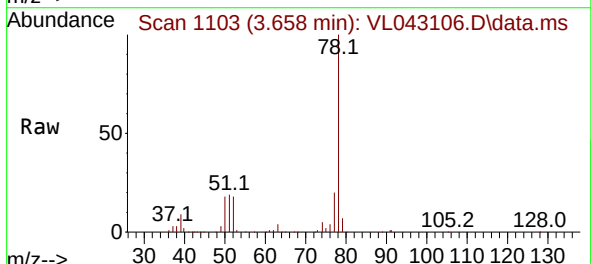
Manual Integrations  
APPROVED

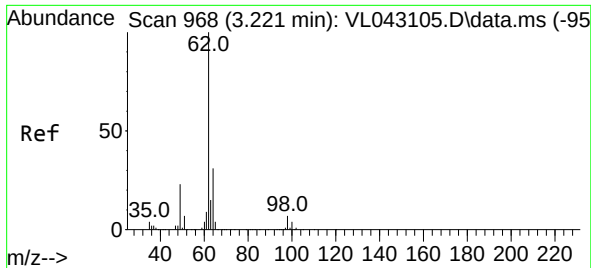
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#36  
Benzene  
Concen: 2.172 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 78 Resp: 70156  
Ion Ratio Lower Upper  
78 100  
77 19.5 17.0 25.6  
50 18.0 14.6 22.0





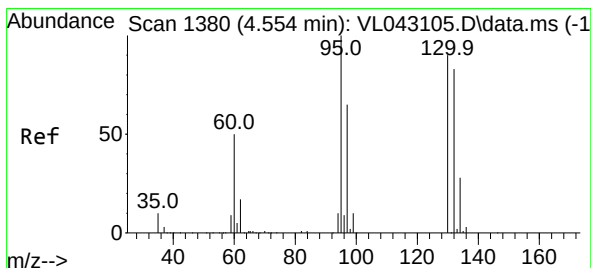
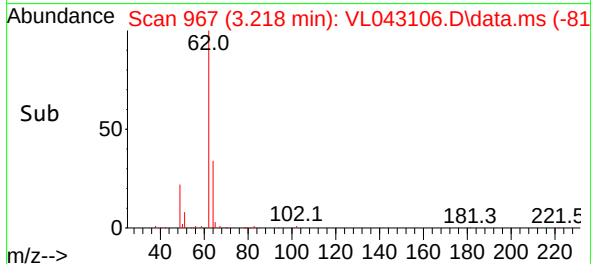
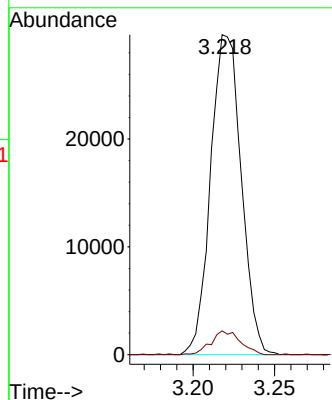
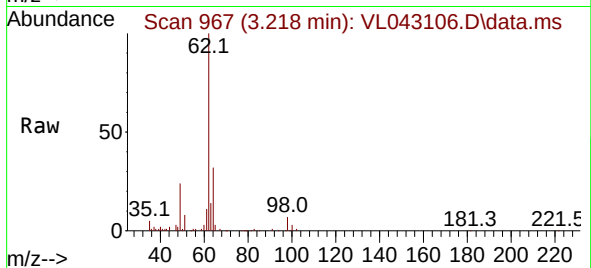
#37  
1,2-Dichloroethane  
Concen: 2.083 ppbv  
RT: 3.218 min Scan# 90  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 62 Resp: 3876  
Ion Ratio Lower Upper  
62 100  
98 7.3 5.8 8.6

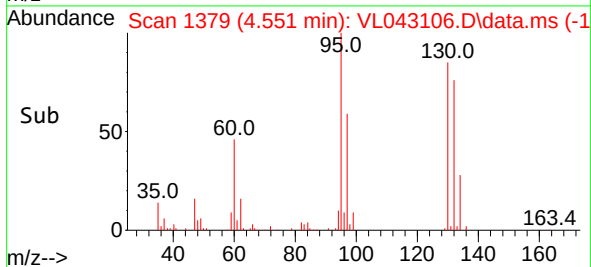
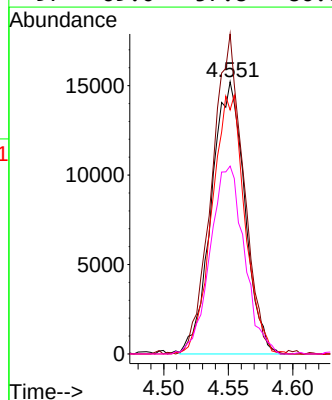
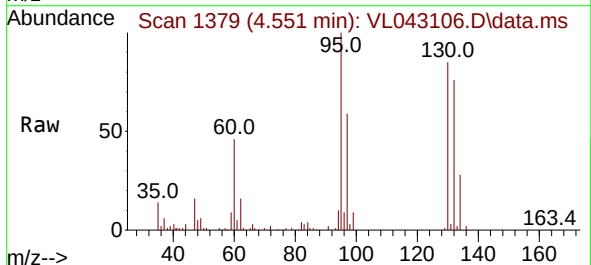
Manual Integrations  
APPROVED

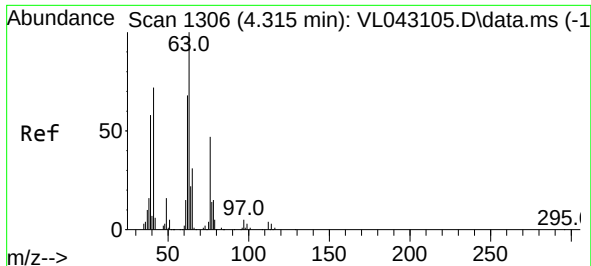
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 2.024 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

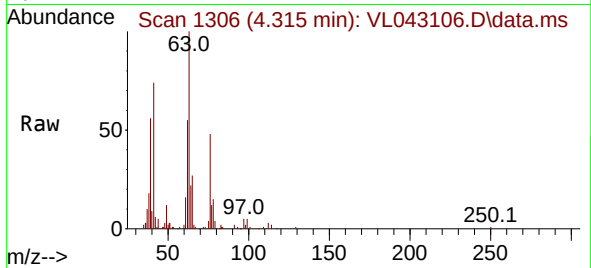
Tgt Ion:130 Resp: 27272  
Ion Ratio Lower Upper  
130 100  
95 117.1 88.6 133.0  
132 89.0 73.4 110.0  
97 69.0 57.8 86.6





#39  
 1,2-Dichloropropane  
 Concen: 2.151 ppbv  
 RT: 4.315 min Scan# 1306  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

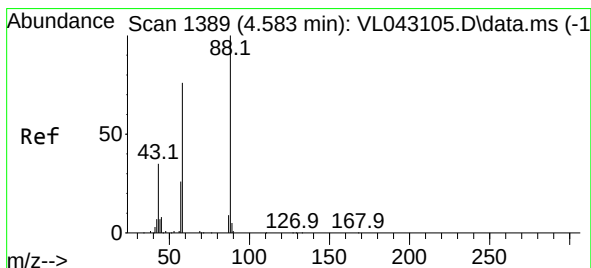
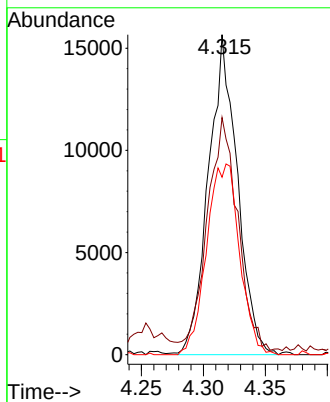
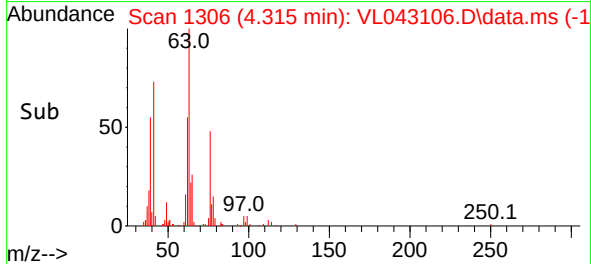
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2542  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 72.3  | 58.0  | 87.0  |
| 62       | 55.5  | 54.7  | 82.1  |

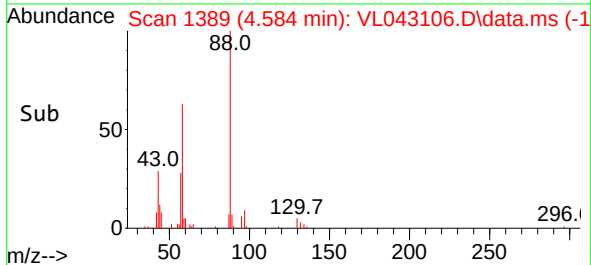
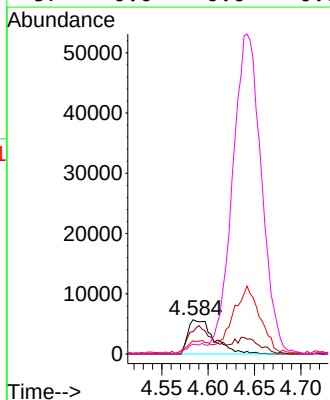
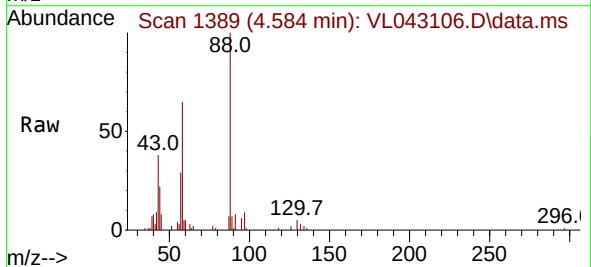
Manual Integrations  
 APPROVED

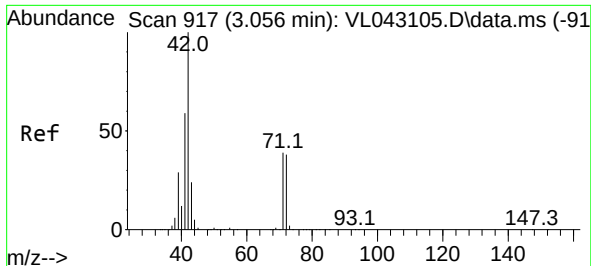
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#40  
 1,4-Dioxane  
 Concen: 2.101 ppbv m  
 RT: 4.584 min Scan# 1389  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

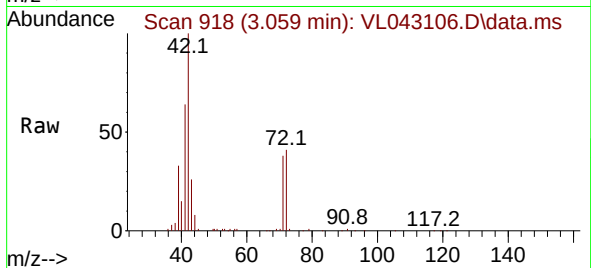
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 11102 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 0.0   | 61.1  | 91.7# |
| 43       | 0.0   | 24.0  | 36.0# |
| 57       | 0.0   | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 2.037 ppbv  
RT: 3.059 min Scan# 917  
Delta R.T. 0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

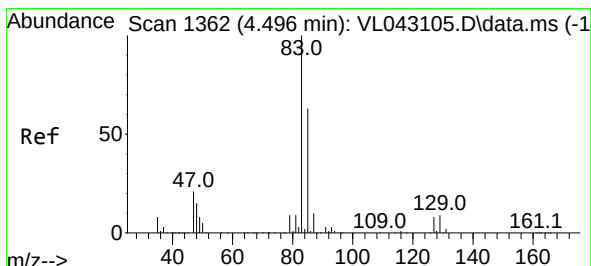
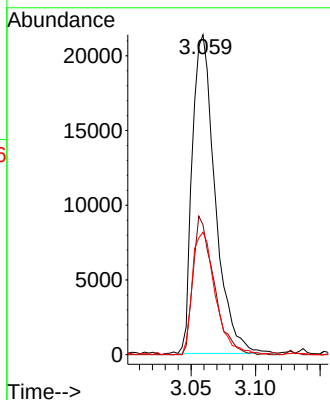
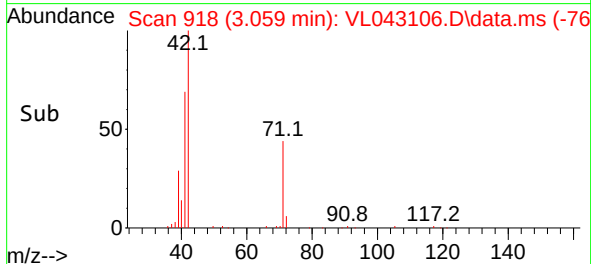
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 42 Resp: 2636  
Ion Ratio Lower Upper  
42 100  
72 39.7 31.3 46.9  
71 39.4 30.4 45.6

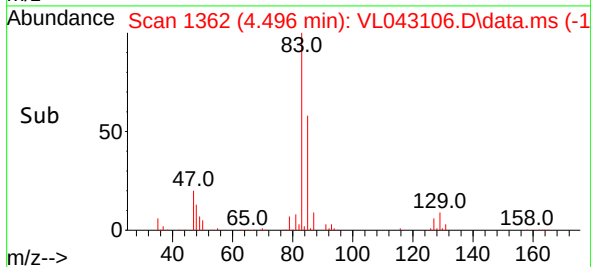
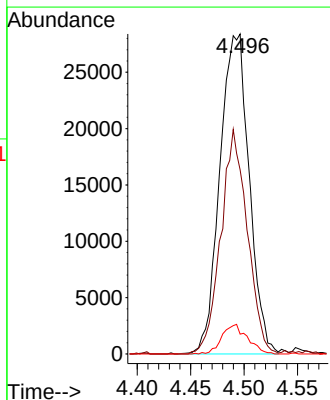
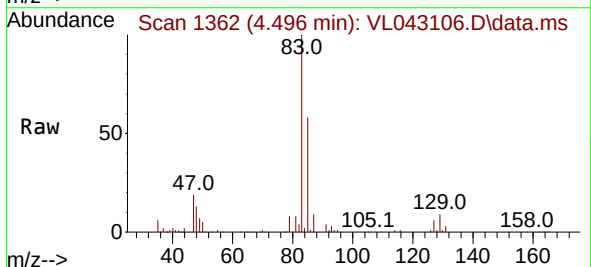
Manual Integrations  
APPROVED

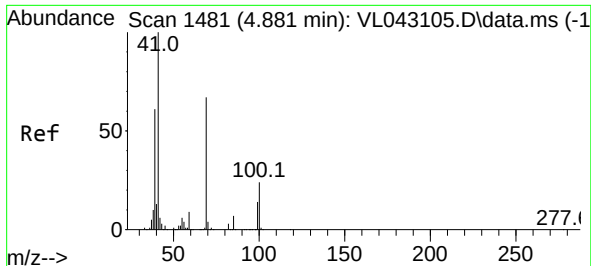
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#42  
Bromodichloromethane  
Concen: 2.106 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 83 Resp: 54224  
Ion Ratio Lower Upper  
83 100  
85 57.6 50.6 75.8  
127 6.2 6.3 9.5#





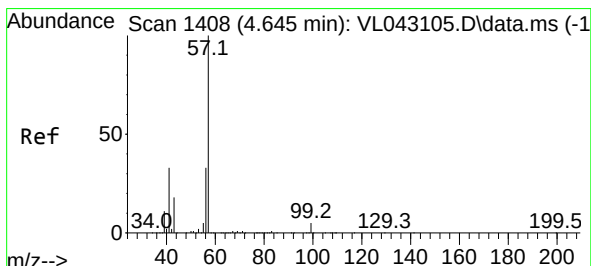
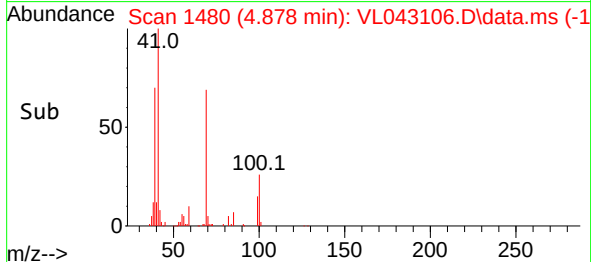
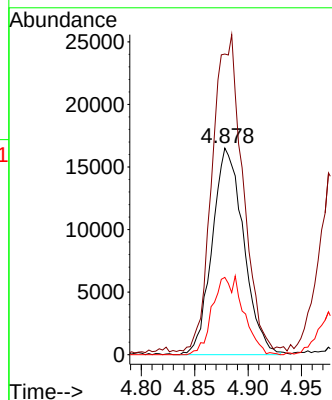
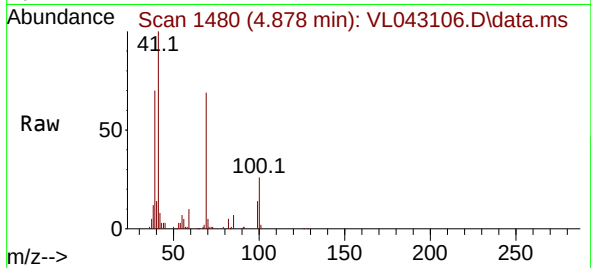
#43  
Methyl Methacrylate  
Concen: 2.051 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 69 Resp: 3380  
Ion Ratio Lower Upper  
69 100  
41 151.4 120.5 180.7  
100 37.3 29.0 43.4

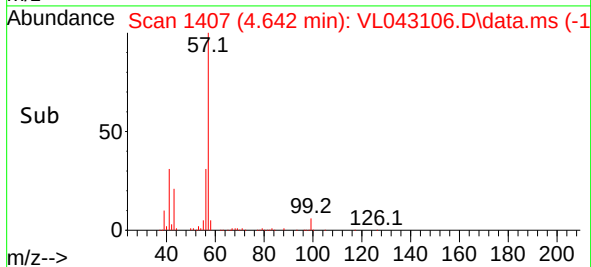
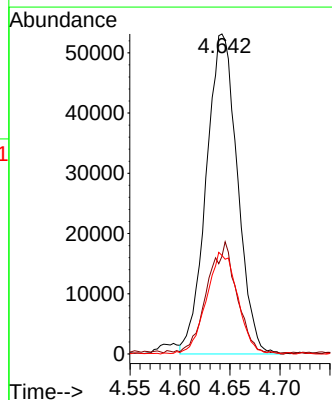
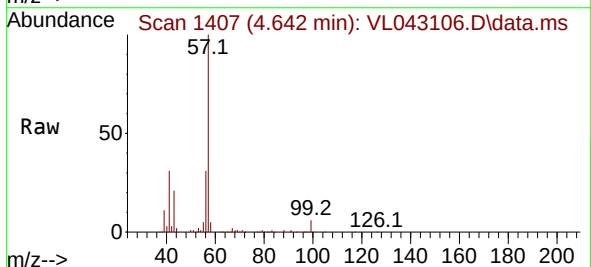
Manual Integrations  
APPROVED

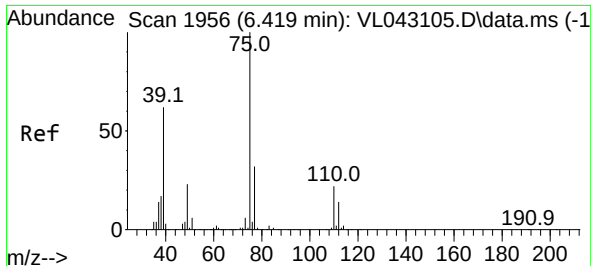
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#44  
2,2,4-Trimethylpentane  
Concen: 2.137 ppbv  
RT: 4.642 min Scan# 1407  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

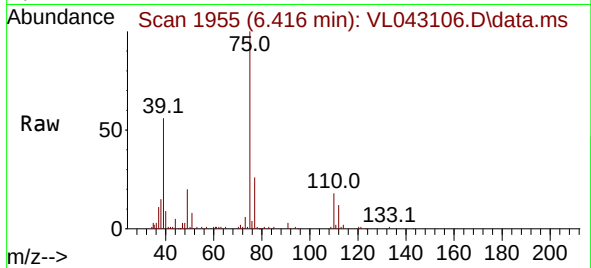
Tgt Ion: 57 Resp: 115417  
Ion Ratio Lower Upper  
57 100  
41 34.0 26.3 39.5  
56 31.9 25.9 38.9





#45  
 t-1,3-Dichloropropene  
 Concen: 2.109 ppbv  
 RT: 6.416 min Scan# 1955  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

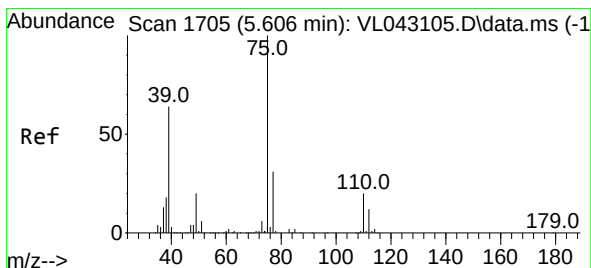
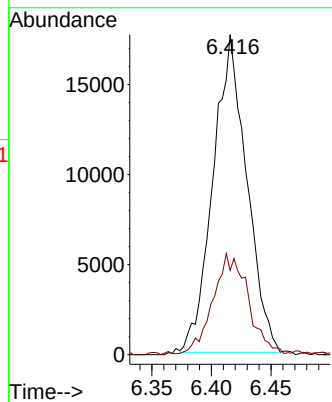
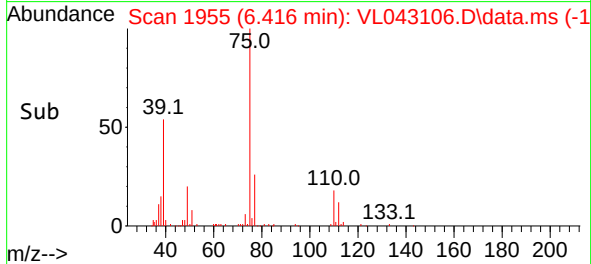
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



Tgt Ion: 75 Resp: 34728  
 Ion Ratio Lower Upper  
 75 100  
 77 26.3 25.4 38.2

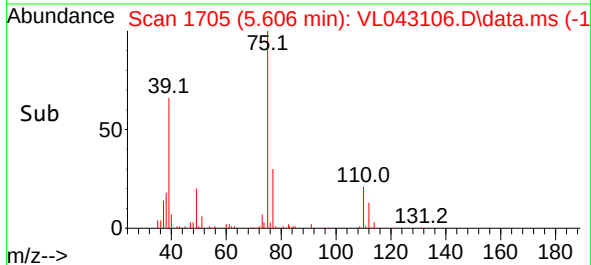
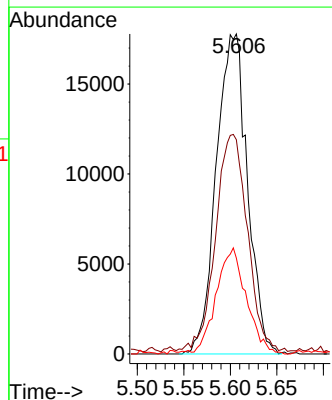
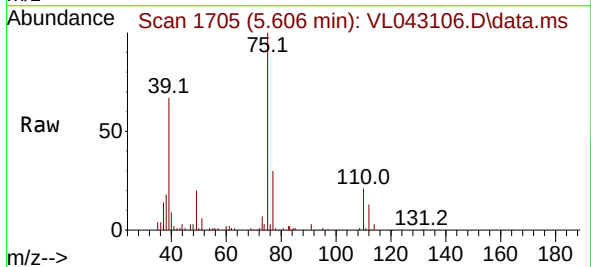
Manual Integrations  
 APPROVED

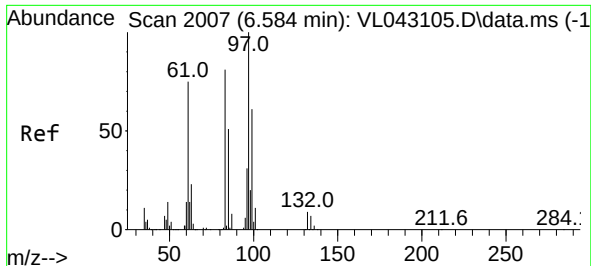
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 2.105 ppbv m  
 RT: 5.606 min Scan# 1705  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 41365  
 Ion Ratio Lower Upper  
 75 100  
 39 66.9 51.0 76.6  
 77 30.0 25.0 37.4





#47  
1,1,2-Trichloroethane  
Concen: 2.067 ppbv  
RT: 6.584 min Scan# 2007  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

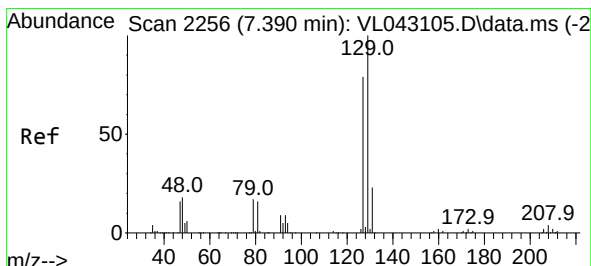
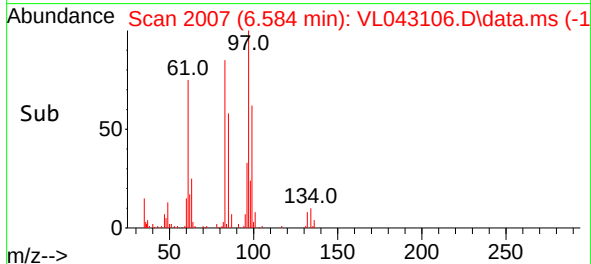
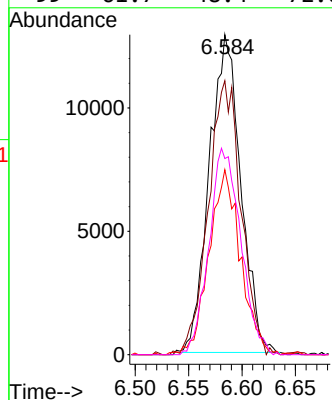
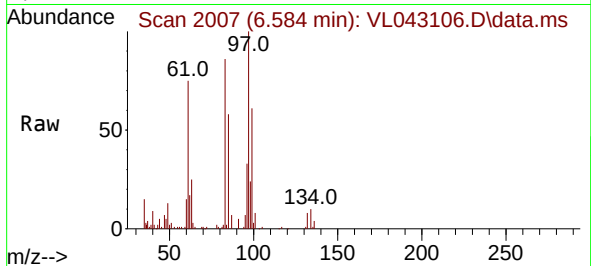
ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 2635  
Ion Ratio Lower Upper  
97 100  
83 86.2 64.6 96.8  
85 58.2 40.6 60.8  
99 61.7 48.4 72.6

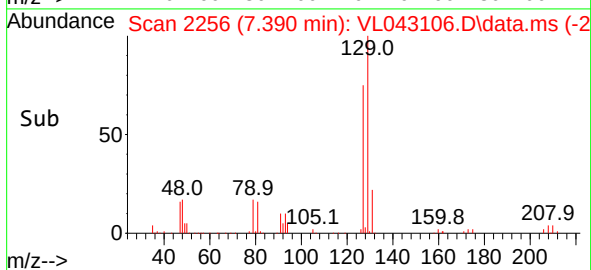
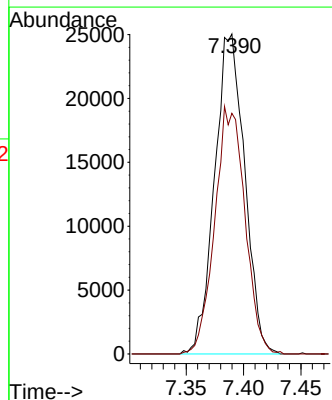
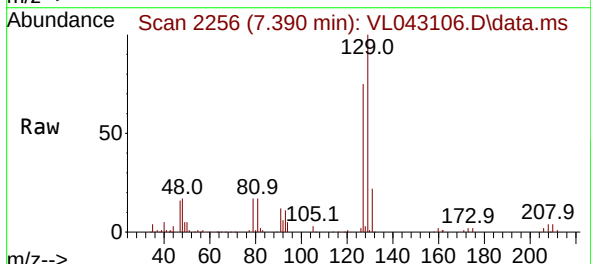
Manual Integrations  
APPROVED

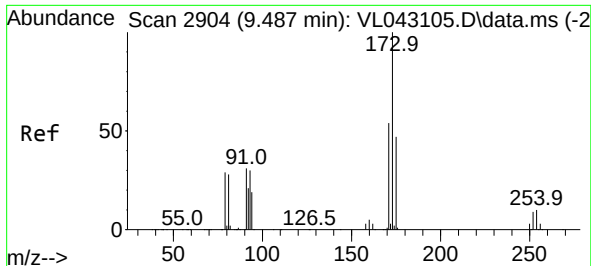
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#48  
Dibromochloromethane  
Concen: 2.146 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:129 Resp: 45751  
Ion Ratio Lower Upper  
129 100  
127 77.3 39.3 117.9





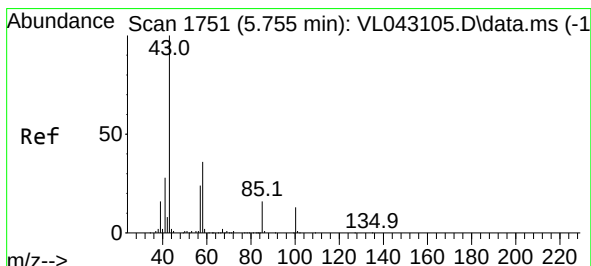
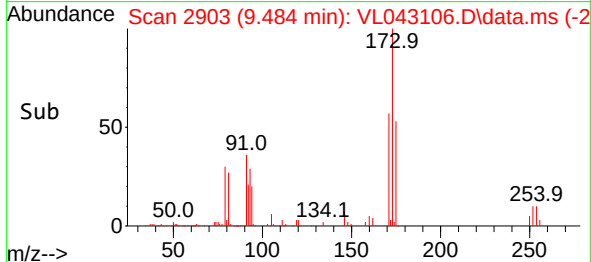
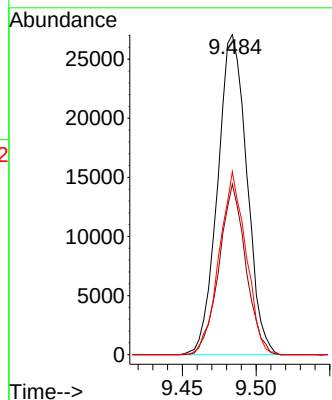
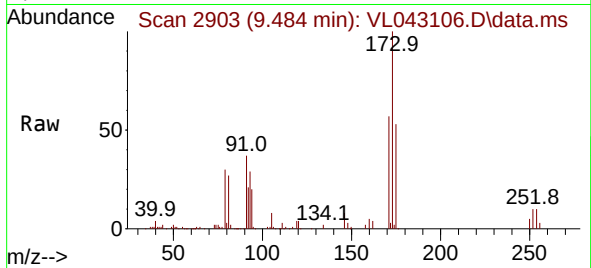
#49  
Bromoform  
Concen: 2.153 ppbv  
RT: 9.484 min Scan# 2904  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:173 Resp: 37314  
Ion Ratio Lower Upper  
173 100  
175 48.7 38.8 58.2  
171 52.7 41.7 62.5

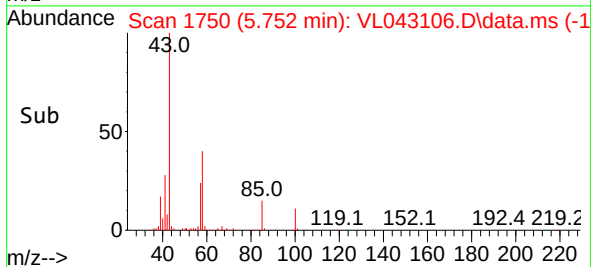
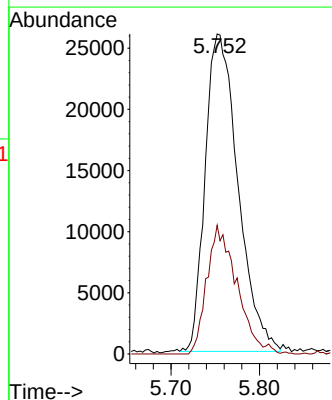
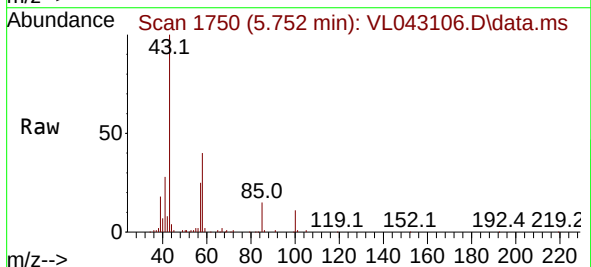
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

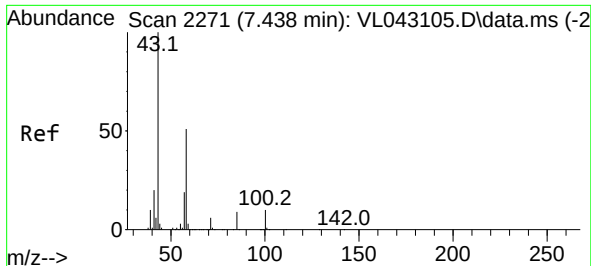


#50  
4-Methyl-2-Pentanone  
Concen: 2.089 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811  
Ion Ratio Lower Upper  
43 100  
58 37.2 29.1 43.7







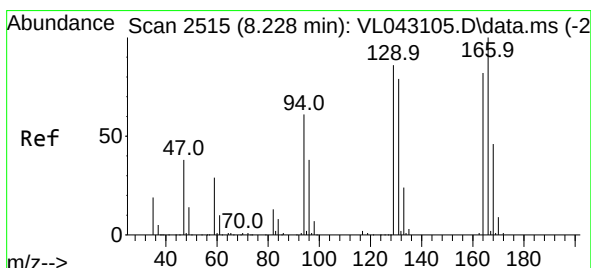
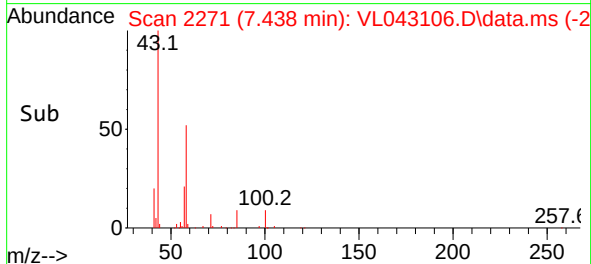
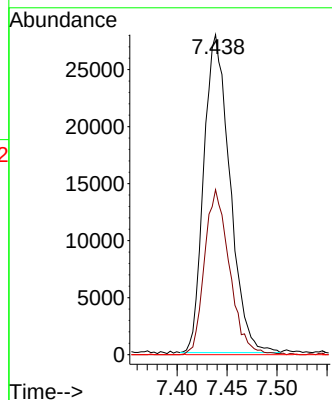
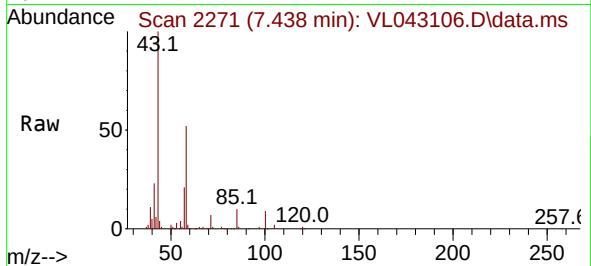
#51  
2-Hexanone  
Concen: 2.122 ppbv  
RT: 7.438 min Scan# 2271  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 5064  
Ion Ratio Lower Upper  
43 100  
58 49.8 40.4 60.6  
98 0.0 0.1 0.1

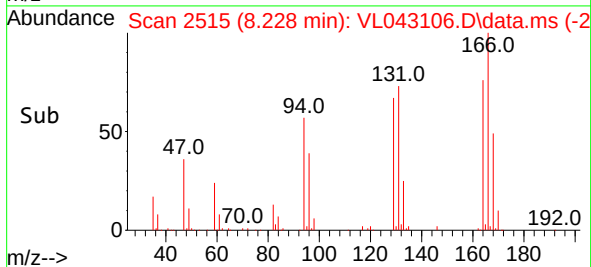
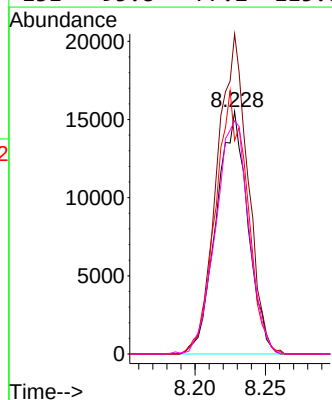
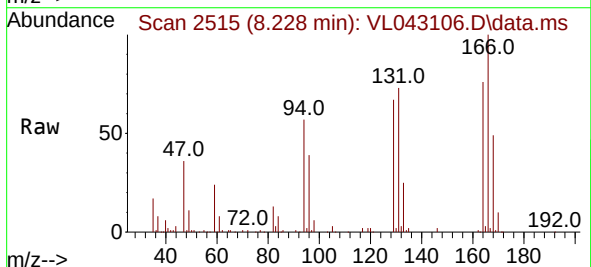
Manual Integrations  
APPROVED

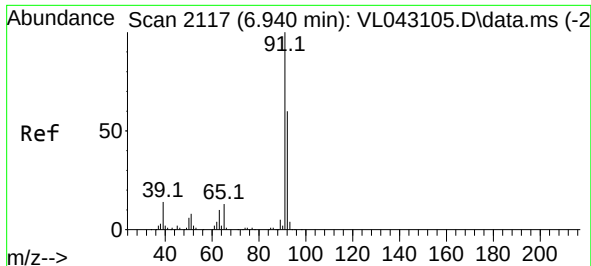
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#52  
Tetrachloroethene  
Concen: 2.076 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:164 Resp: 24183  
Ion Ratio Lower Upper  
164 100  
166 132.0 97.6 146.4  
129 88.0 84.5 126.7  
131 95.8 77.2 115.8





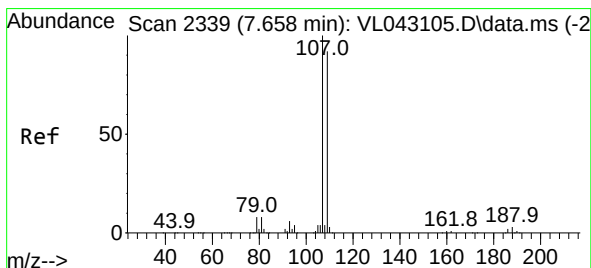
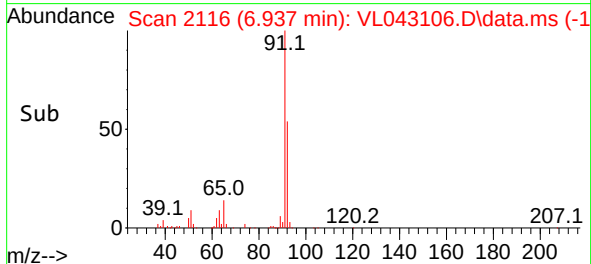
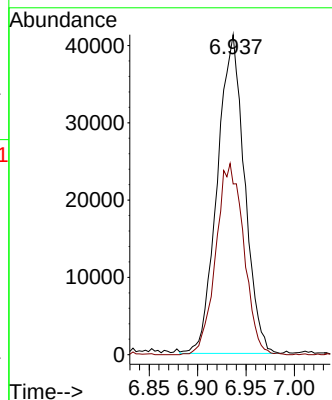
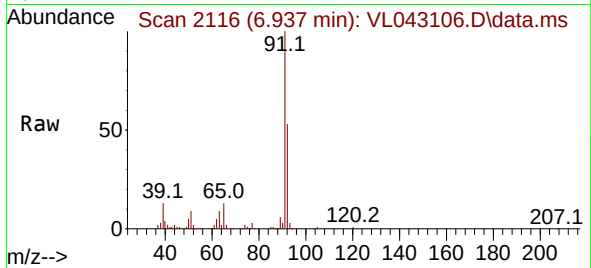
#53  
Toluene  
Concen: 2.104 ppbv  
RT: 6.937 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 91 Resp: 80660  
Ion Ratio Lower Upper  
91 100  
92 61.5 48.8 73.2

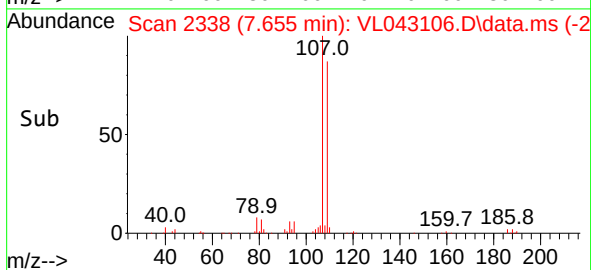
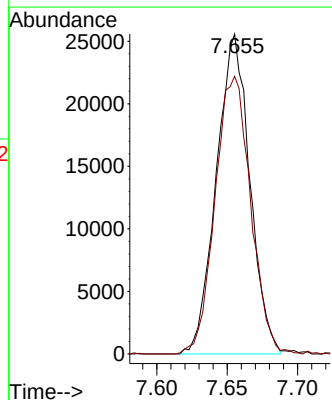
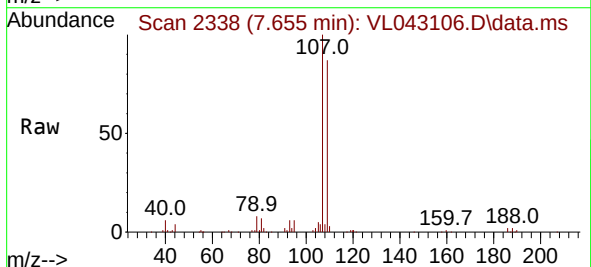
Manual Integrations  
APPROVED

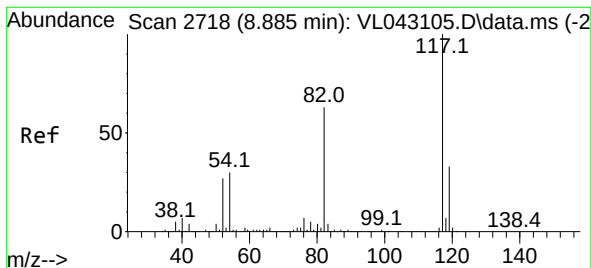
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#54  
1,2-Dibromoethane  
Concen: 2.103 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:107 Resp: 42320  
Ion Ratio Lower Upper  
107 100  
109 86.5 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2718

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

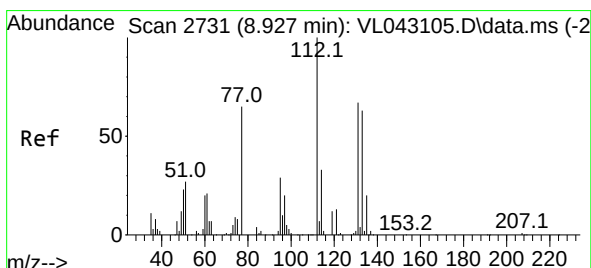
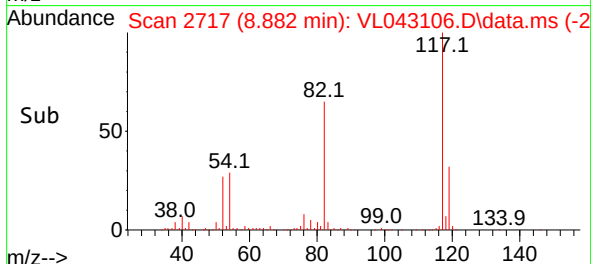
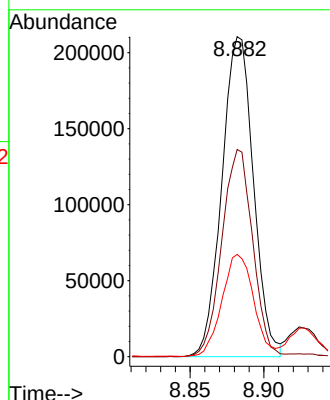
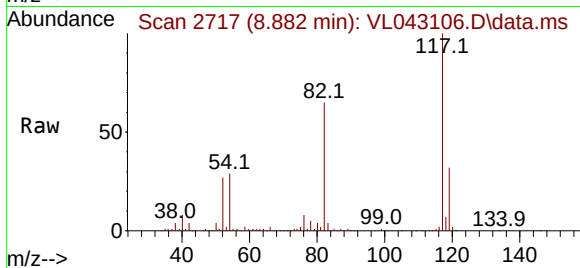
ClientSampleId :

VSTDICC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 31360 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 63.9  | 53.8  | 80.8  |
| 119       | 32.3  | 25.4  | 38.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.110 ppbv

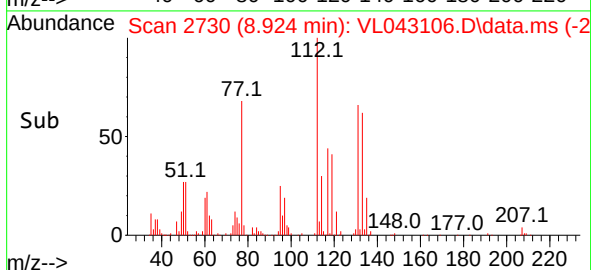
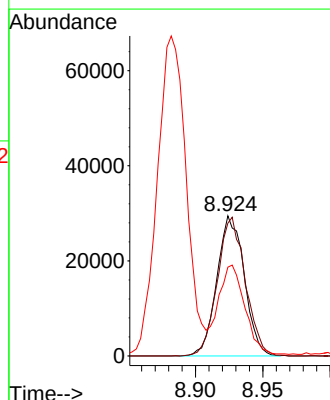
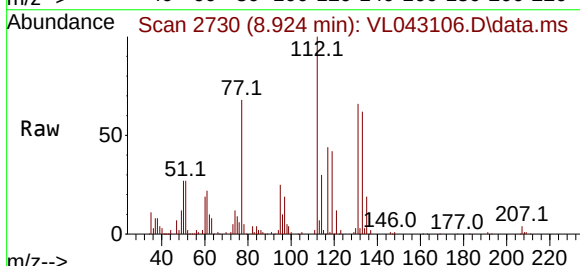
RT: 8.924 min Scan# 2730

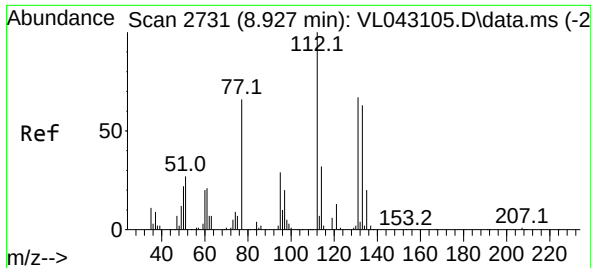
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 131   | Resp: | 41712 |
| Ion Ratio | Lower | Upper |       |
| 131       | 100   |       |       |
| 133       | 101.2 | 75.7  | 113.5 |
| 119       | 59.2  | 50.6  | 76.0  |





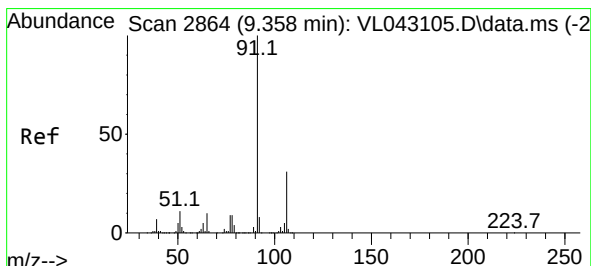
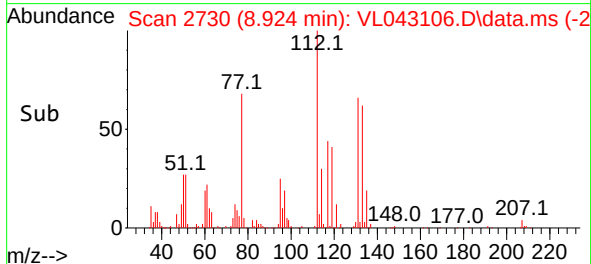
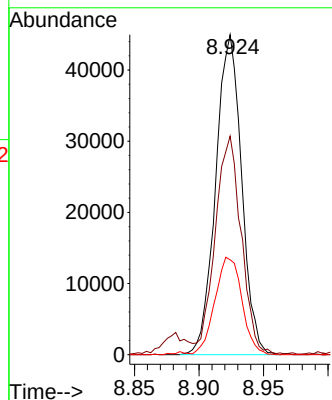
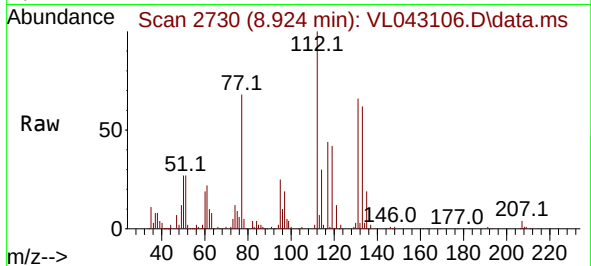
#57  
Chlorobenzene  
Concen: 2.138 ppbv  
RT: 8.924 min Scan# 2731  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

Tgt Ion:112 Resp: 62714  
Ion Ratio Lower Upper  
112 100  
77 67.8 53.3 79.9  
114 29.6 29.3 35.8

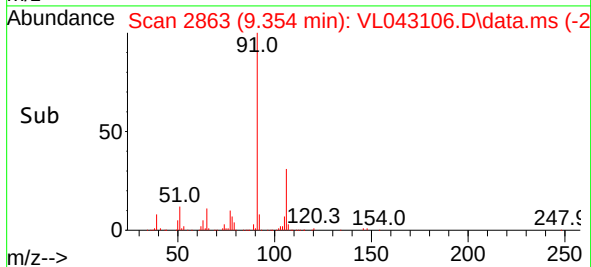
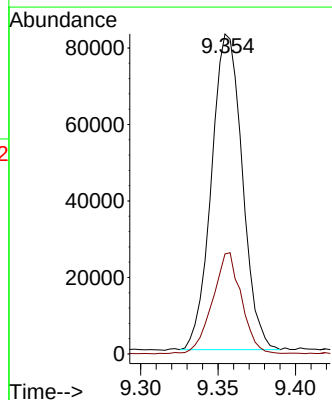
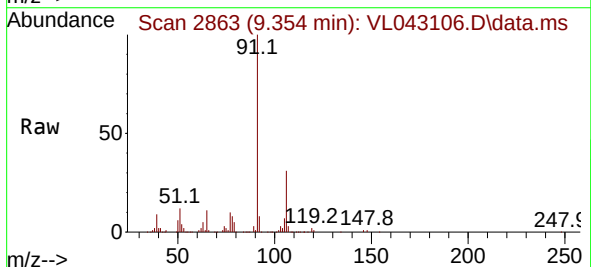
Manual Integrations  
APPROVED

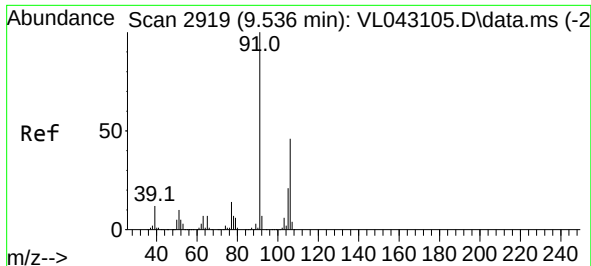
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#58  
Ethyl Benzene  
Concen: 2.109 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

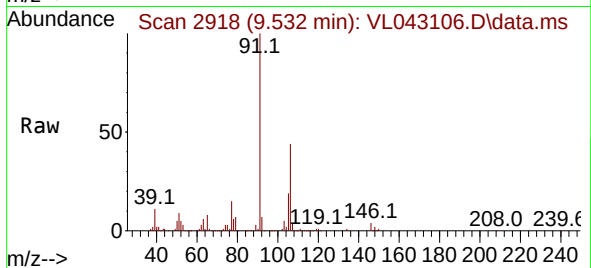
Tgt Ion: 91 Resp: 114403  
Ion Ratio Lower Upper  
91 100  
106 31.5 24.8 37.2





#59  
m/p-Xylene  
Concen: 4.311 ppbv m  
RT: 9.532 min Scan# 2919  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

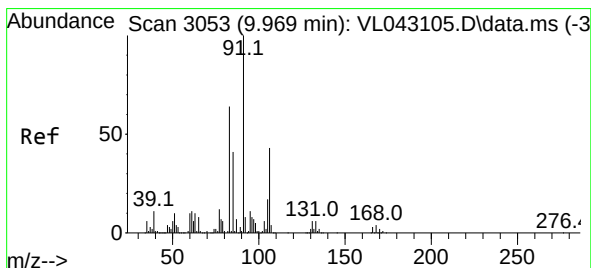
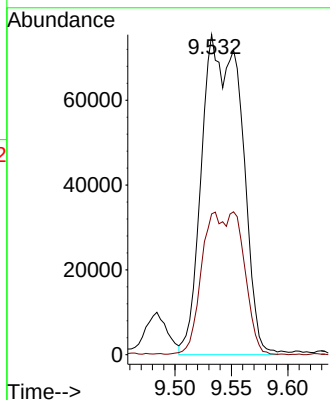
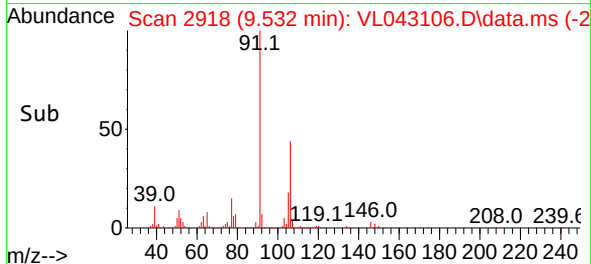
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



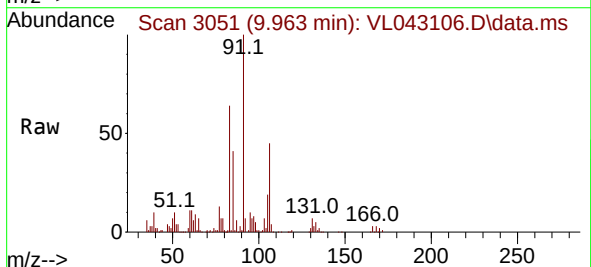
Tgt Ion: 91 Resp: 185190  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

Manual Integrations  
APPROVED

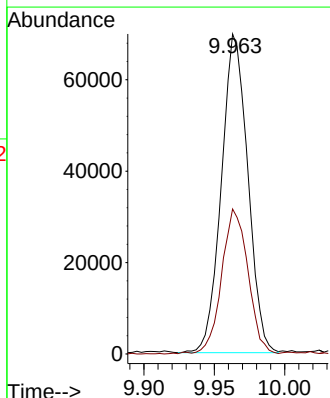
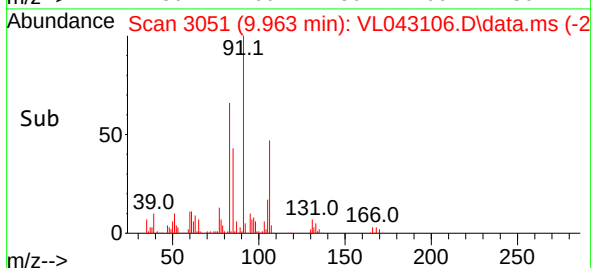
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

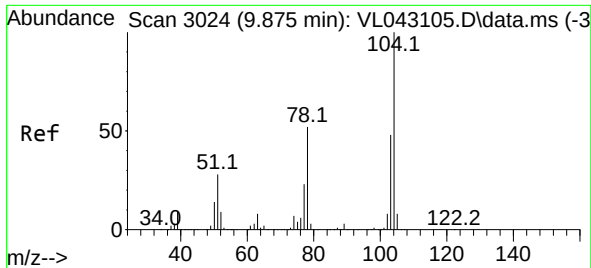


#60  
o-Xylene  
Concen: 2.152 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. -0.006 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



Tgt Ion: 91 Resp: 91223  
Ion Ratio Lower Upper  
91 100  
106 45.2 21.9 65.8





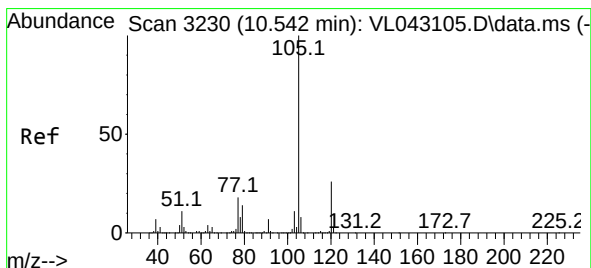
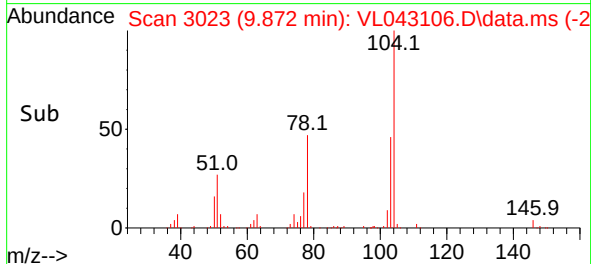
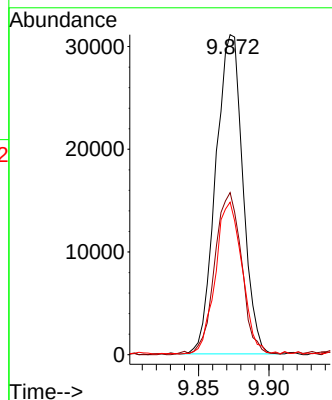
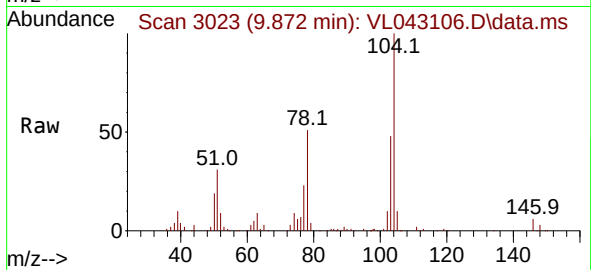
#61  
Styrene  
Concen: 2.175 ppbv  
RT: 9.872 min Scan# 3024  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC002

Tgt Ion:104 Resp: 4163  
Ion Ratio Lower Upper  
104 100  
78 51.1 40.2 60.2  
103 47.4 36.9 55.3

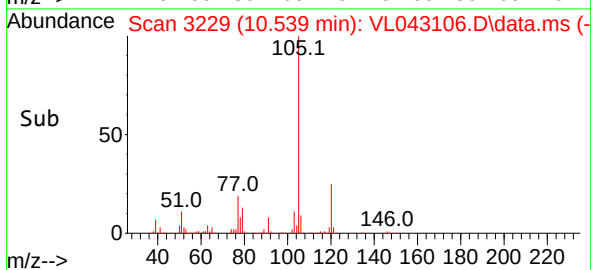
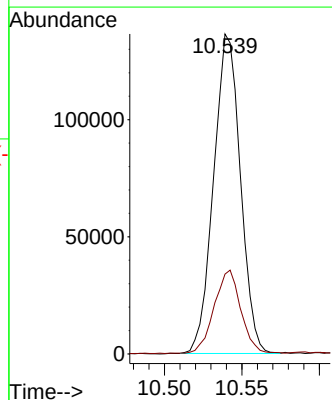
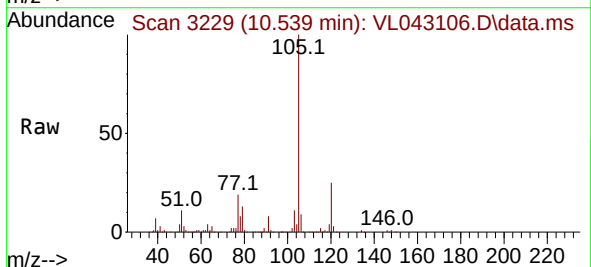
Manual Integrations  
APPROVED

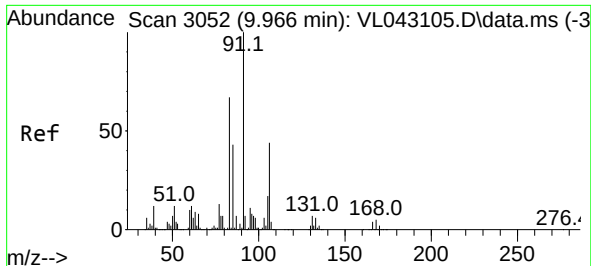
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#62  
Isopropylbenzene  
Concen: 2.142 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 164073  
Ion Ratio Lower Upper  
105 100  
120 26.1 20.2 30.4





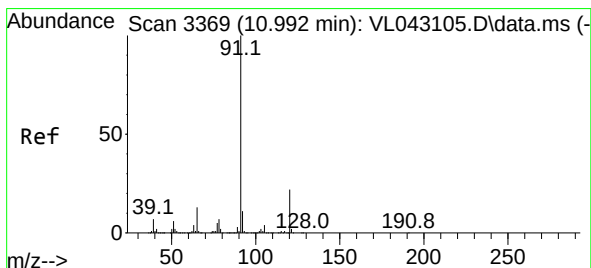
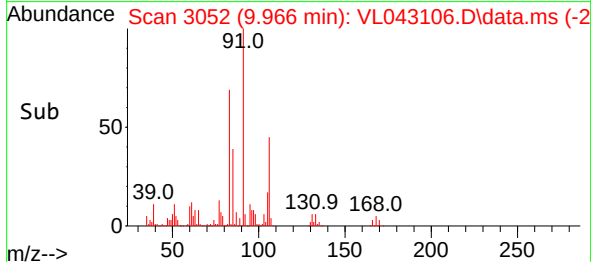
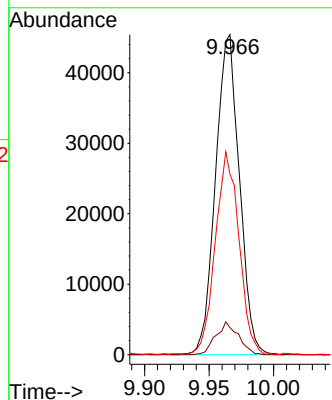
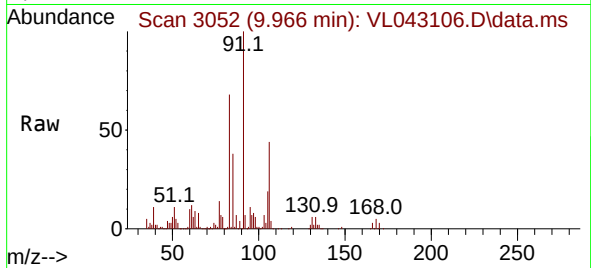
#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.061 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 83 Resp: 58510  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.3  
85 63.2 32.0 96.0

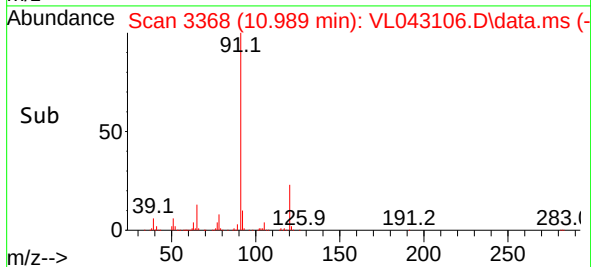
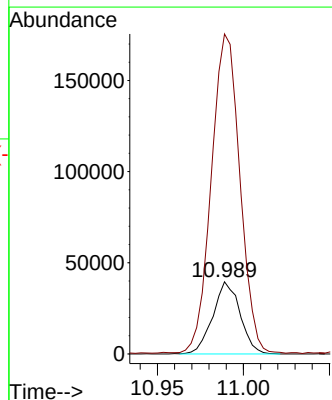
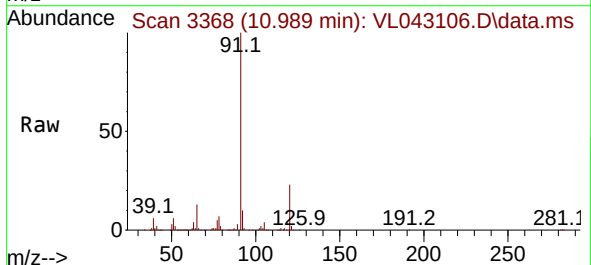
Manual Integrations  
APPROVED

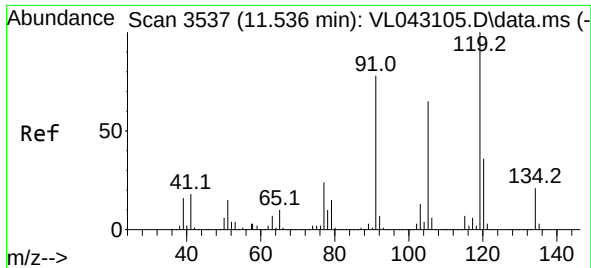
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#64  
n-propylbenzene  
Concen: 2.152 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:120 Resp: 43648  
Ion Ratio Lower Upper  
120 100  
91 462.4 361.6 542.4





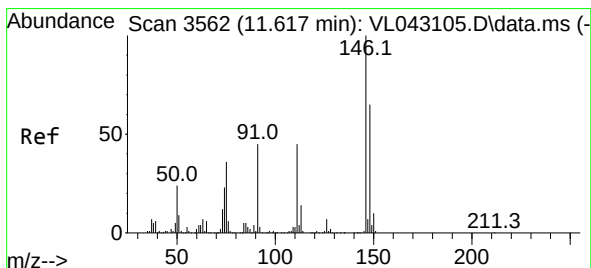
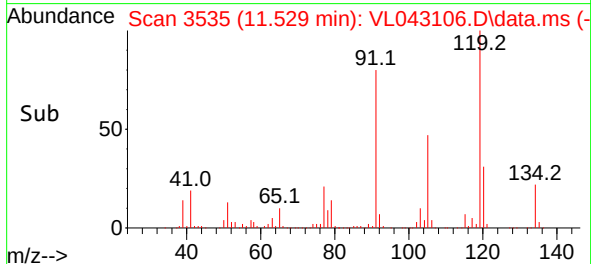
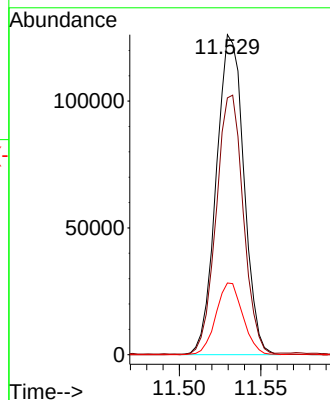
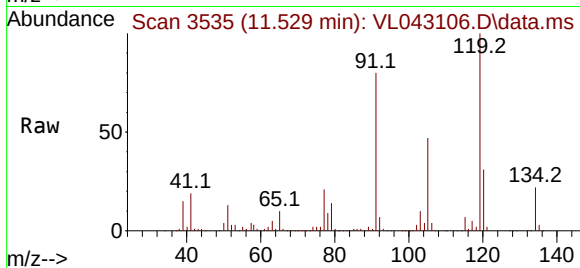
#65  
tert-Butylbenzene  
Concen: 2.192 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.006 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:119 Resp: 148300  
Ion Ratio Lower Upper  
119 100  
91 80.2 63.4 95.0  
134 22.0 17.3 25.9

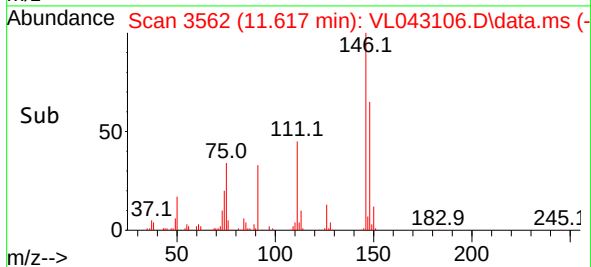
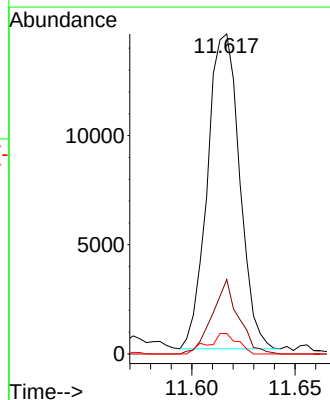
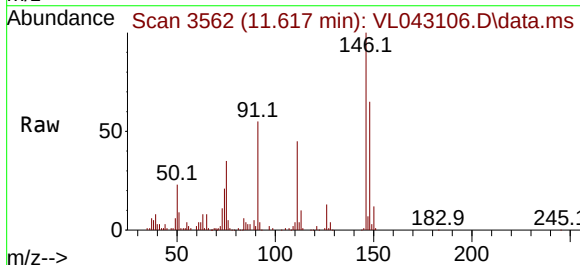
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

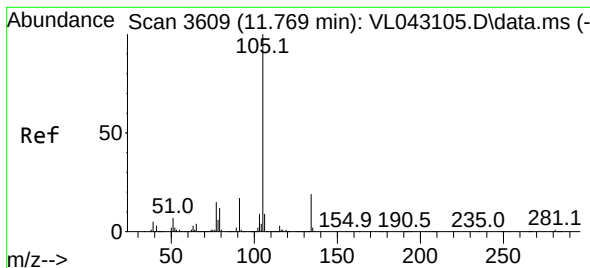


#66  
Benzyl Chloride  
Concen: 2.072 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 15656  
Ion Ratio Lower Upper  
91 100  
126 19.2 14.6 22.0  
128 5.9 4.6 6.8

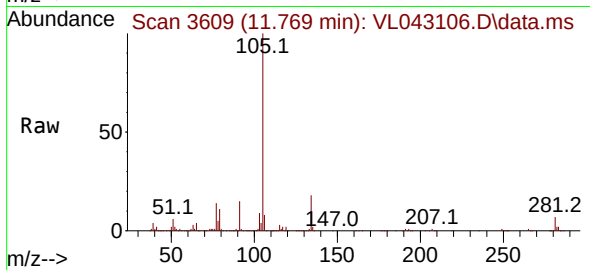






#67  
 sec-Butylbenzene  
 Concen: 2.193 ppbv  
 RT: 11.769 min Scan# 3179  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

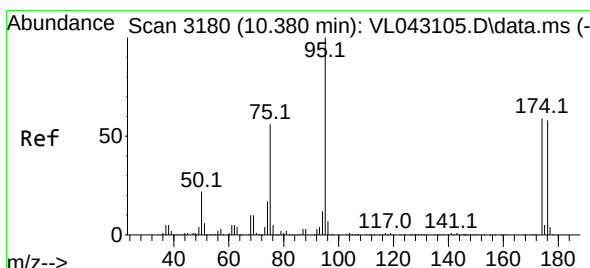
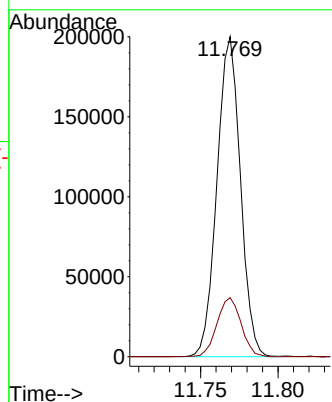
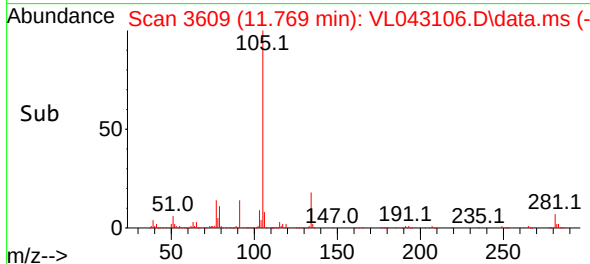
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



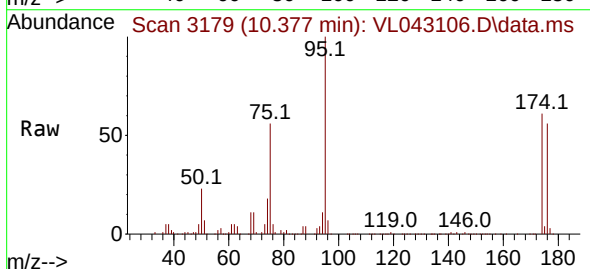
Tgt Ion:105 Resp: 210529  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 15.5 23.3

Manual Integrations  
 APPROVED

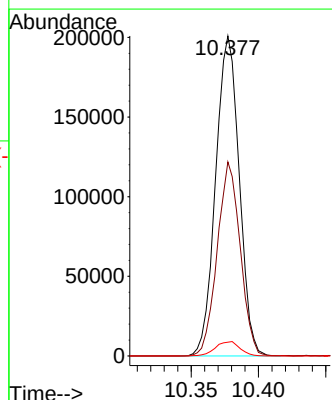
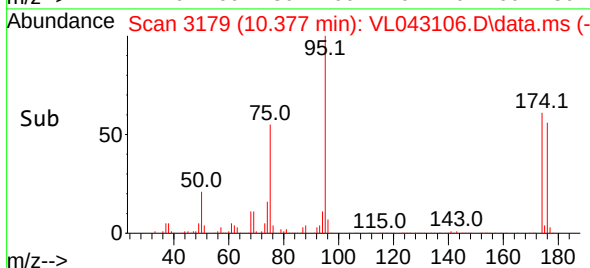
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

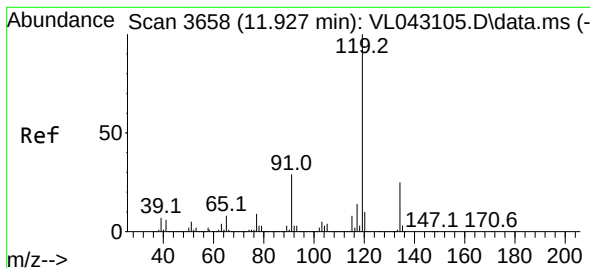


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.024 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27



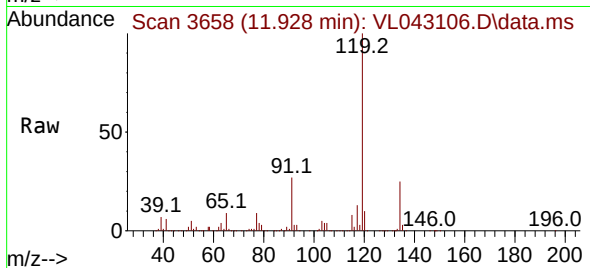
Tgt Ion: 95 Resp: 244329  
 Ion Ratio Lower Upper  
 95 100  
 174 59.2 48.3 72.5  
 175 4.7 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 2.207 ppbv  
RT: 11.928 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

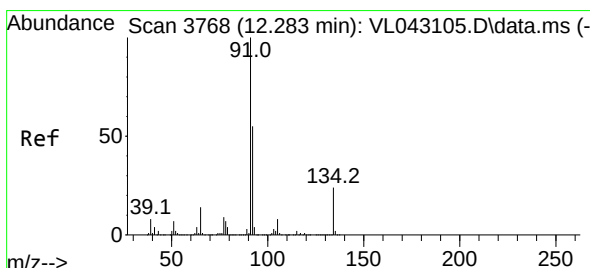
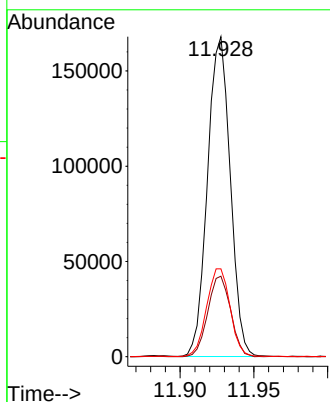
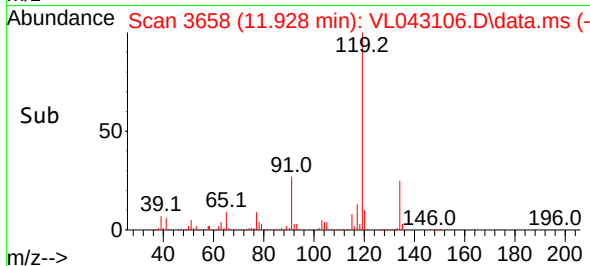
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



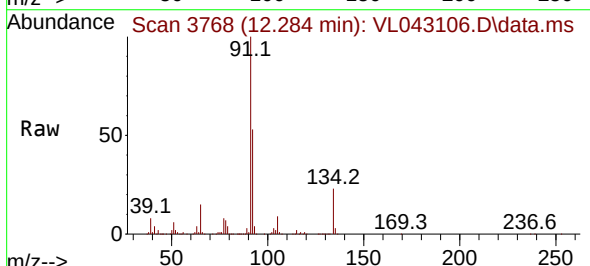
Tgt Ion:119 Resp: 180060  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 29.0 22.6 33.8

Manual Integrations  
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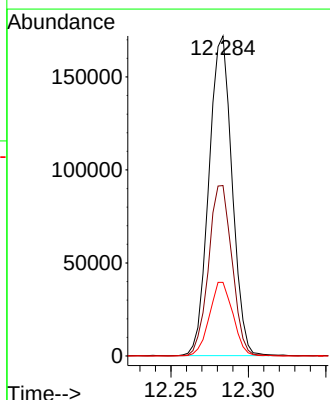
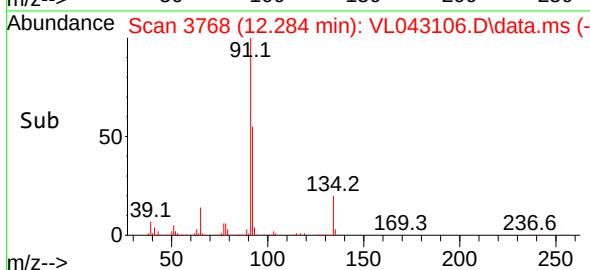
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

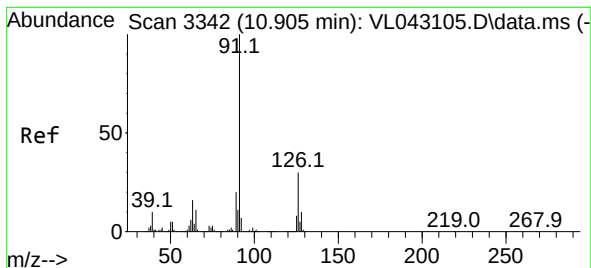


#70  
n-Butylbenzene  
Concen: 2.222 ppbv  
RT: 12.284 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



Tgt Ion: 91 Resp: 178676  
Ion Ratio Lower Upper  
91 100  
92 54.2 44.5 66.7  
134 23.4 19.3 28.9





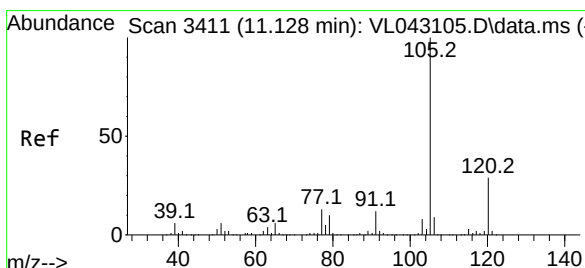
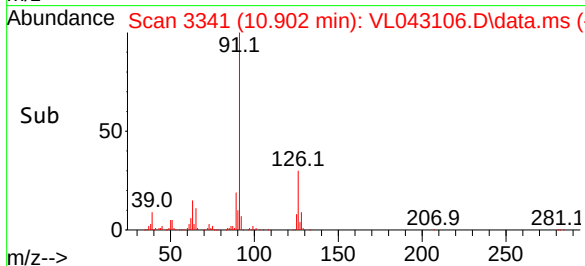
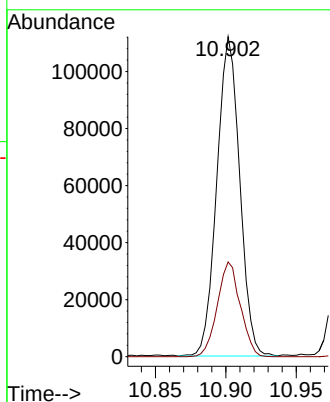
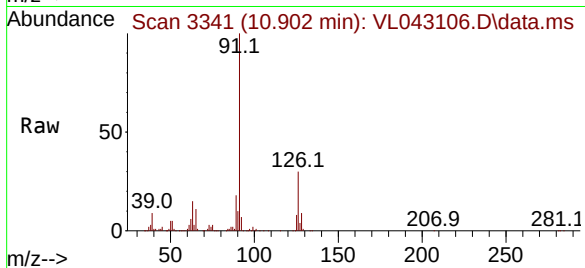
#71  
2-Chlorotoluene  
Concen: 2.166 ppbv  
RT: 10.902 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 91 Resp: 12655  
Ion Ratio Lower Upper  
91 100  
126 29.7 12.0 48.0

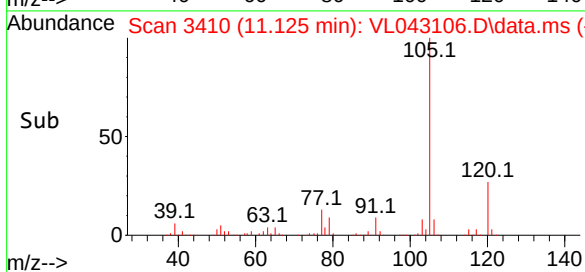
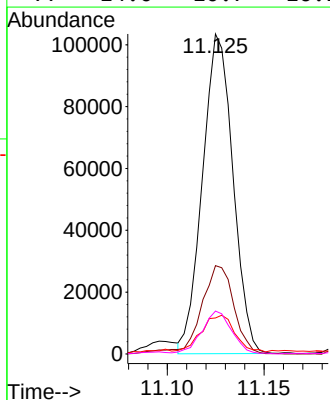
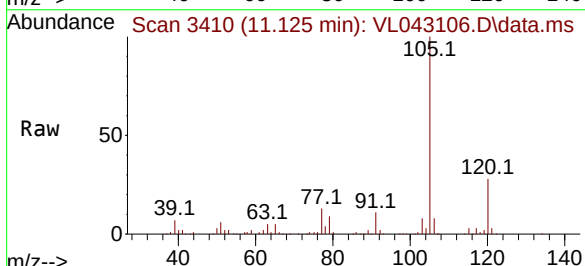
Manual Integrations  
APPROVED

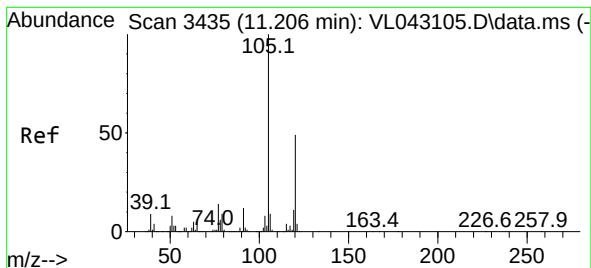
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#72  
4-Ethyltoluene  
Concen: 2.172 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 113233  
Ion Ratio Lower Upper  
105 100  
120 29.8 24.2 36.4  
91 14.8 10.0 15.0  
77 14.0 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 2.155 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

ClientSampleId :

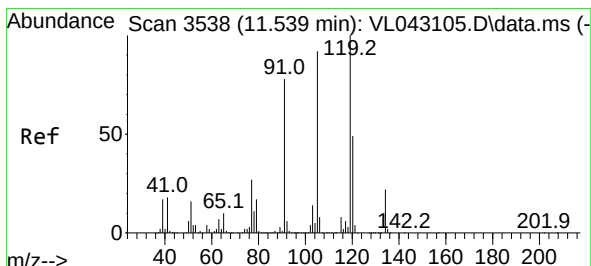
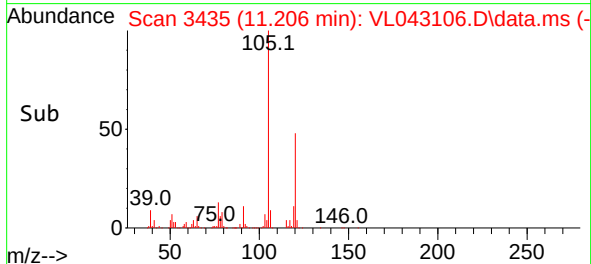
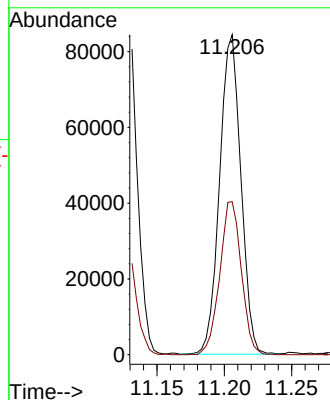
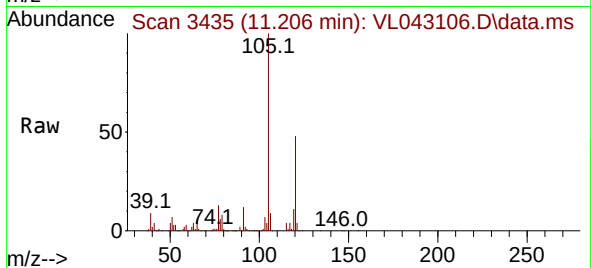
VSTDICC002

Tgt Ion:105 Resp: 92650  
 Ion Ratio Lower Upper  
 105 100  
 120 47.9 39.0 58.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.169 ppbv

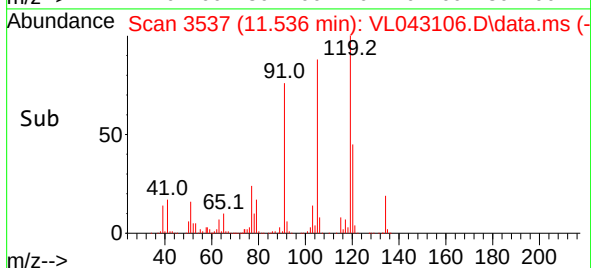
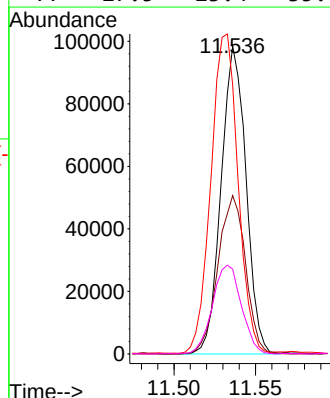
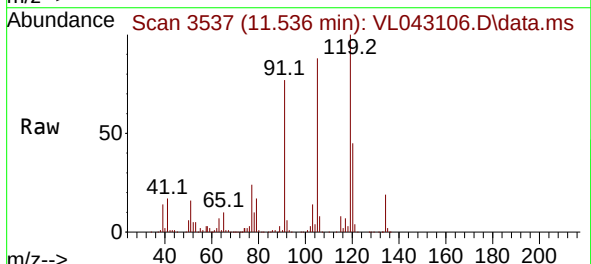
RT: 11.536 min Scan# 3537

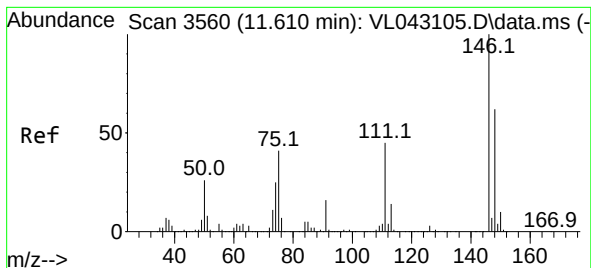
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352  
 Ion Ratio Lower Upper  
 105 100  
 120 51.4 42.8 64.2  
 91 87.0 68.3 102.5  
 77 27.5 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

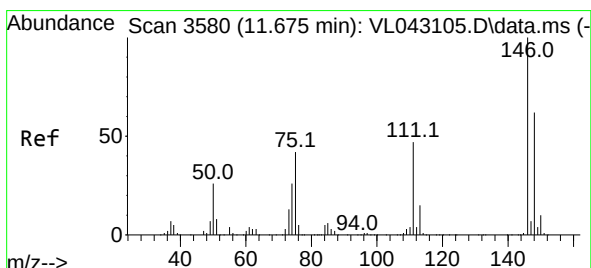
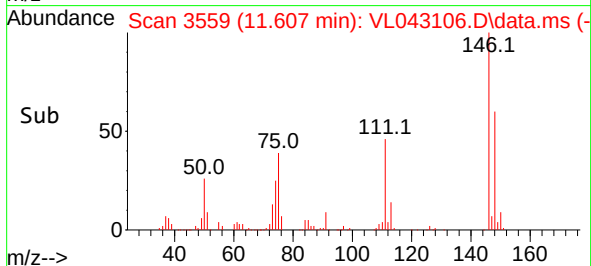
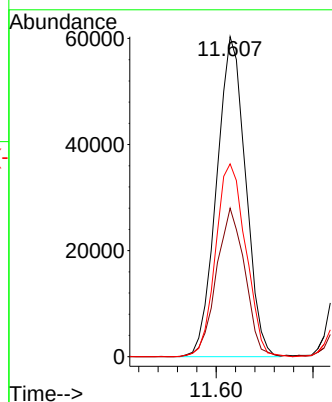
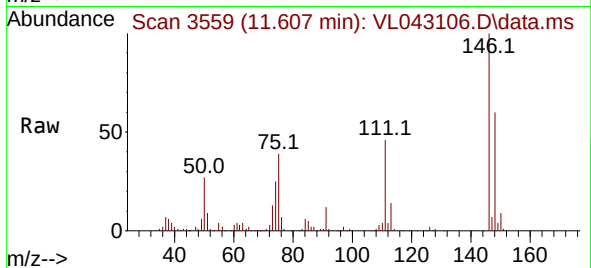
ClientSampleId :

VSTDIC002

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 62709     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 45.8  | 23.3 69.9 |
| 148         | 62.6  | 31.6 95.0 |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#76

1,4-Dichlorobenzene

Concen: 2.164 ppbv

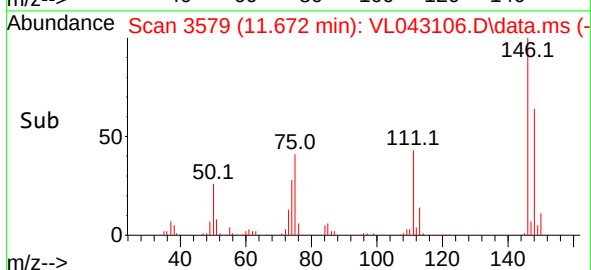
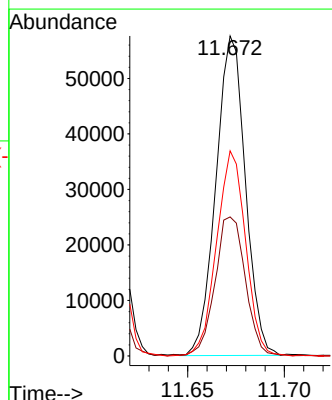
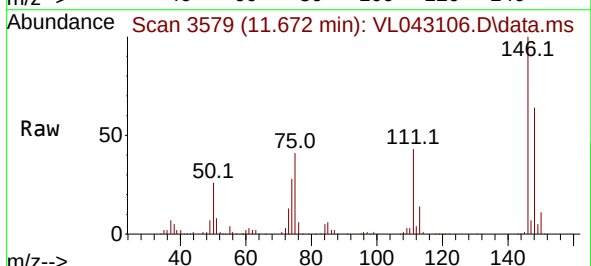
RT: 11.672 min Scan# 3579

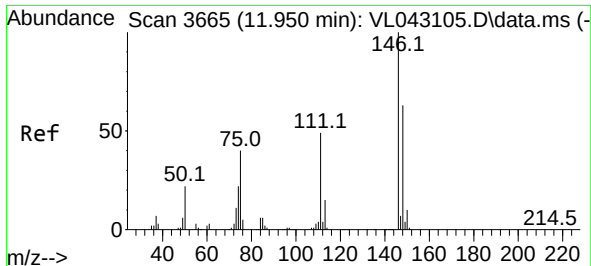
Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 60877     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 44.9  | 22.4 67.0 |
| 148         | 63.3  | 31.6 94.7 |





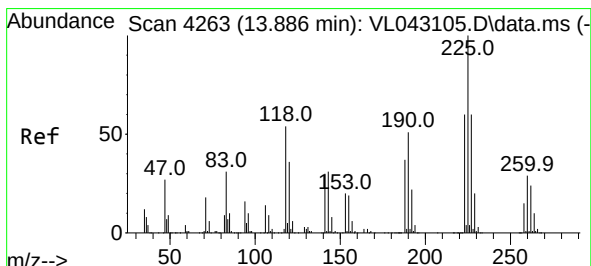
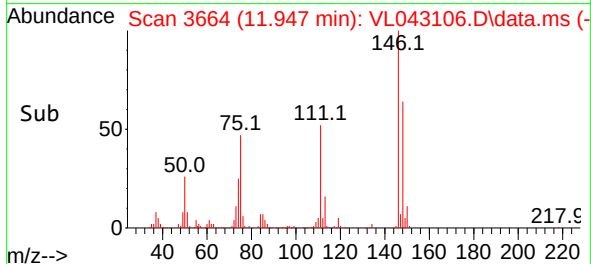
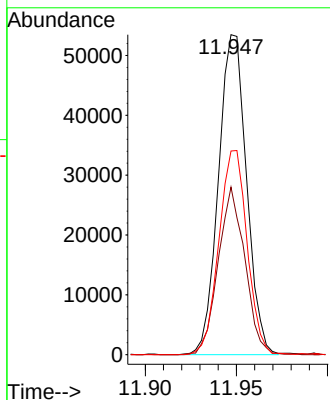
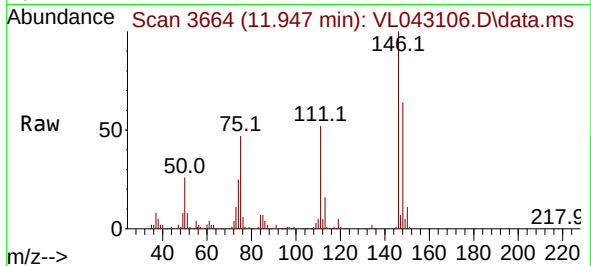
#77  
1,2-Dichlorobenzene  
Concen: 2.123 ppbv  
RT: 11.947 min Scan# 3665  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:146 Resp: 57304  
Ion Ratio Lower Upper  
146 100  
111 49.7 24.0 72.0  
148 64.3 31.1 93.3

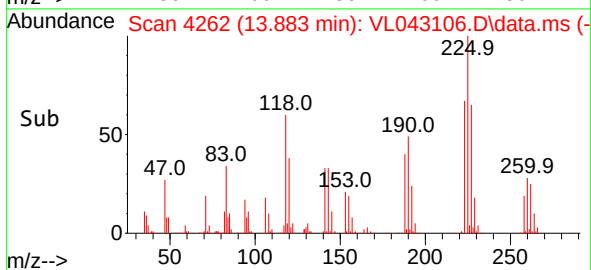
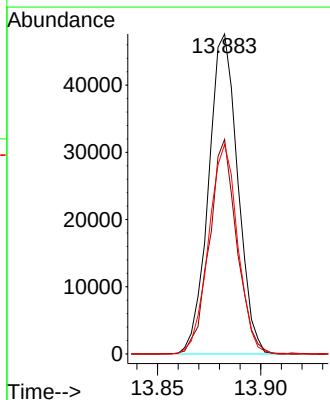
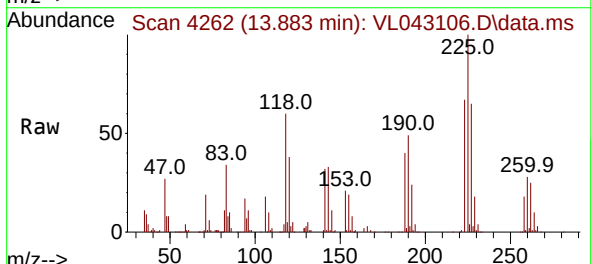
Manual Integrations  
APPROVED

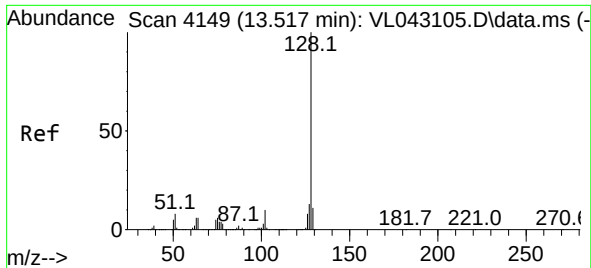
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 2.239 ppbv  
RT: 13.883 min Scan# 4262  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

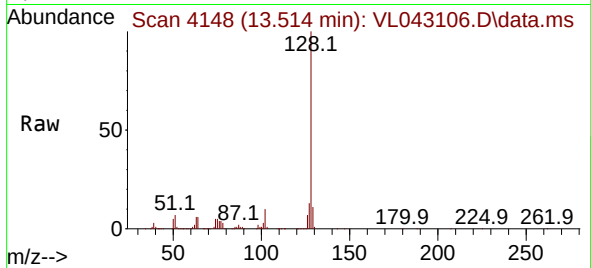
Tgt Ion:225 Resp: 46796  
Ion Ratio Lower Upper  
225 100  
223 63.2 50.2 75.4  
227 65.2 49.6 74.4





#79  
Naphthalene  
Concen: 2.488 ppbv  
RT: 13.514 min Scan# 4149  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

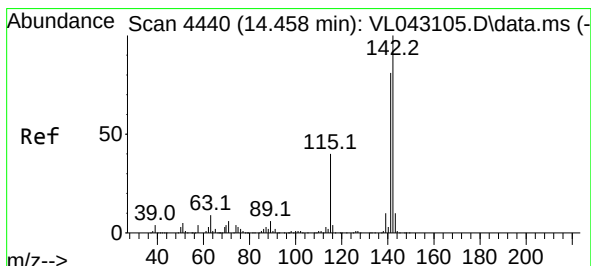
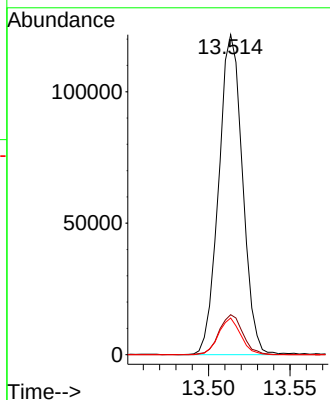
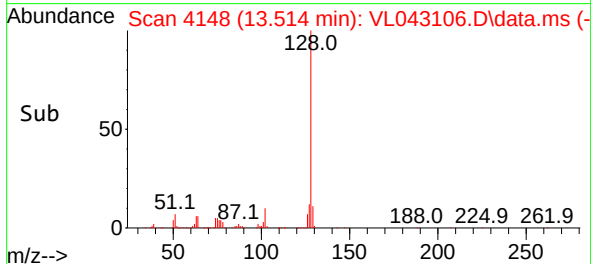
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



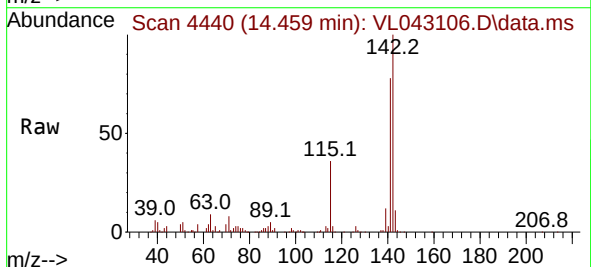
Tgt Ion:128 Resp: 12364  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 11.4 9.1 13.7

Manual Integrations  
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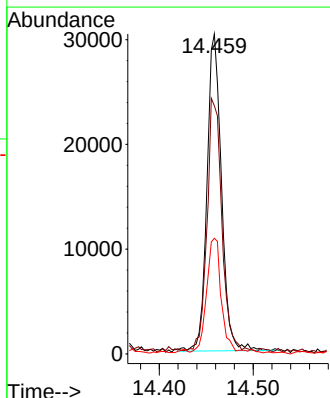
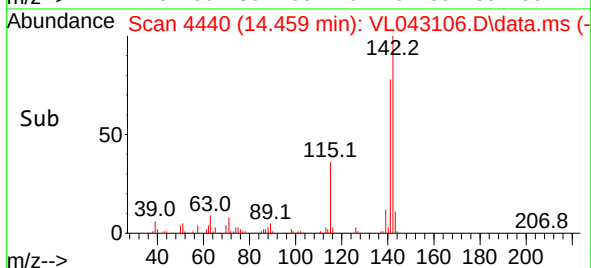
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

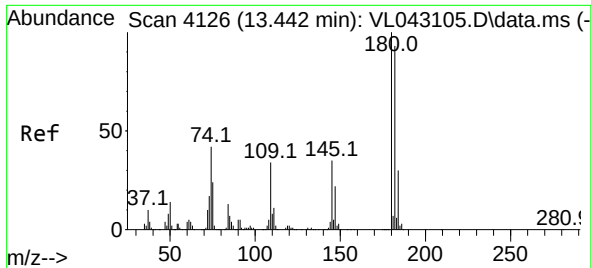


#80  
Naphthalene,2-methyl-  
Concen: 2.462 ppbv  
RT: 14.459 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27



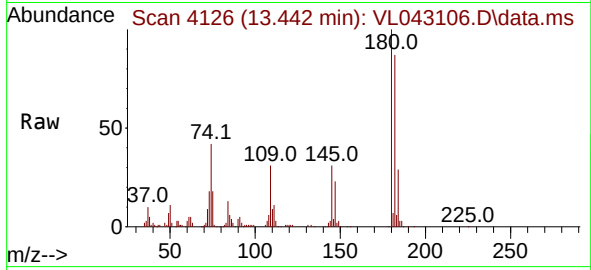
Tgt Ion:142 Resp: 32308  
Ion Ratio Lower Upper  
142 100  
141 82.6 64.6 97.0  
115 39.7 30.2 45.4





#81  
1,2,4-Trichlorobenzene  
Concen: 2.414 ppbv  
RT: 13.442 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

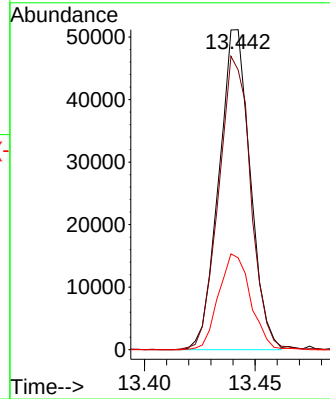
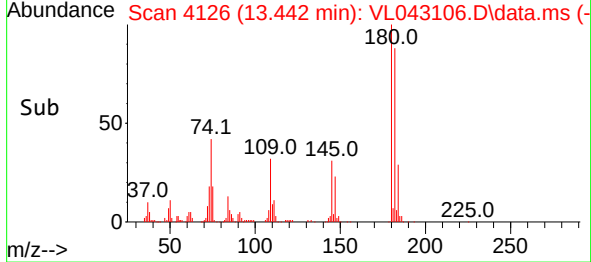
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 50394      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 93.9  | 75.5 113.3 |
| 184         | 30.6  | 23.9 35.9  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043107.D  
 Acq On : 14 Oct 2025 12:01  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 102307   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 336268   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 305409   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 235307   | 9.912    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 15620    | 1.074    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 16692    | 1.061    | ppbv # | 91       |
| 4) Chloromethane              | 1.534  | 50    | 6353     | 1.103    | ppbv   | 93       |
| 5) Vinyl Chloride             | 1.580  | 62    | 5694     | 1.008    | ppbv   | 96       |
| 6) Bromomethane               | 1.667  | 94    | 3462     | 1.117    | ppbv   | 98       |
| 7) Chloroethane               | 1.706  | 64    | 2615     | 1.132    | ppbv # | 82       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 12940    | 1.101    | ppbv   | 98       |
| 9) Propene                    | 1.483  | 41    | 7291     | 1.045    | ppbv   | 100      |
| 10) Heptane                   | 4.978  | 43    | 22011    | 1.100    | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 14927    | 1.049    | ppbv   | 85       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 12484    | 1.090    | ppbv   | 99       |
| 13) Ethanol                   | 1.722  | 45    | 3143     | 1.217    | ppbv   | 83       |
| 14) Bromoethene               | 1.780  | 108   | 4440     | 1.043    | ppbv # | 90       |
| 15) Acetone                   | 1.835  | 43    | 15572    | 1.123    | ppbv   | 90       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 7157     | 1.089    | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 20941    | 1.106    | ppbv # | 90       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 5510     | 1.103    | ppbv   | 88       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 9796     | 1.141    | ppbv # | 85       |
| 20) Methylene Chloride        | 2.062  | 84    | 6261     | 1.149    | ppbv   | 96       |
| 21) Allyl Chloride            | 2.094  | 41    | 10737    | 1.055    | ppbv # | 82       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 7119     | 1.193    | ppbv   | 92       |
| 23) Vinyl Acetate             | 2.463  | 43    | 19477    | 0.964    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 2.405  | 63    | 12656    | 1.097    | ppbv # | 94       |
| 25) Ethyl Acetate             | 2.832  | 43    | 37093    | 1.085    | ppbv   | 98       |
| 26) Hexane                    | 2.826  | 57    | 17152    | 1.089    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.149  | 76    | 15760    | 1.092    | ppbv # | 60       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 7847     | 1.095    | ppbv # | 87       |
| 29) Chloroform                | 2.845  | 83    | 24527    | 1.074    | ppbv   | 90       |
| 30) Cyclohexane               | 3.855  | 84    | 14819    | 1.078    | ppbv   | 97       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 16311    | 1.084    | ppbv   | 93       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 24948    | 1.049    | ppbv   | 98       |
| 34) 2-Butanone                | 2.557  | 43    | 23811    | 1.047    | ppbv   | 100      |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 24969    | 1.033    | ppbv   | 93       |
| 36) Benzene                   | 3.651  | 78    | 32940    | 1.040    | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 19213    | 1.053    | ppbv   | 100      |
| 38) Trichloroethene           | 4.544  | 130   | 13512    | 1.023    | ppbv   | 96       |
| 39) 1,2-Dichloropropane       | 4.311  | 63    | 12435    | 1.073    | ppbv   | 92       |
| 40) 1,4-Dioxane               | 4.593  | 88    | 5579m    | 1.077    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.056  | 42    | 13251    | 1.044    | ppbv   | 99       |
| 42) Bromodichloromethane      | 4.486  | 83    | 26069    | 1.032    | ppbv # | 94       |
| 43) Methyl Methacrylate       | 4.878  | 69    | 17195    | 1.064    | ppbv   | 97       |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 57382    | 1.084    | ppbv   | 96       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 16874m   | 1.045    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043107.D  
 Acq On : 14 Oct 2025 12:01  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

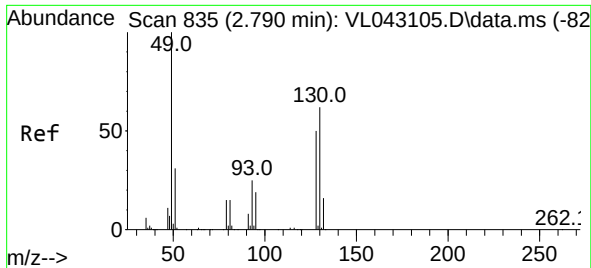
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 19830    | 1.029 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 12876    | 1.030 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.383  | 129  | 21874    | 1.046 | ppbv   | 97       |
| 49) Bromoform                 | 9.480  | 173  | 17320    | 1.019 | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 33269m   | 1.061 | ppbv   |          |
| 51) 2-Hexanone                | 7.441  | 43   | 23817    | 1.018 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.224  | 164  | 12319    | 1.079 | ppbv   | 91       |
| 53) Toluene                   | 6.930  | 91   | 39079    | 1.040 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 19711    | 0.999 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 20279    | 1.053 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.920  | 112  | 30824    | 1.079 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.351  | 91   | 55420    | 1.049 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.552  | 91   | 88998m   | 2.127 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 44925    | 1.088 | ppbv   | 100      |
| 61) Styrene                   | 9.869  | 104  | 19809    | 1.063 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105  | 81579    | 1.093 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 28230    | 1.021 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.985 | 120  | 21685    | 1.098 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 72781    | 1.105 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.613 | 91   | 7918     | 1.076 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 103152   | 1.103 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 88443    | 1.113 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 86120    | 1.100 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 60994    | 1.072 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 53788    | 1.059 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 44786    | 1.070 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 52118    | 1.112 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 29186    | 1.074 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 29225    | 1.066 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 29146    | 1.109 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 23330    | 1.146 | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 53930    | 1.114 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 10851    | 0.849 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 22161    | 1.090 | ppbv   | 98       |

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





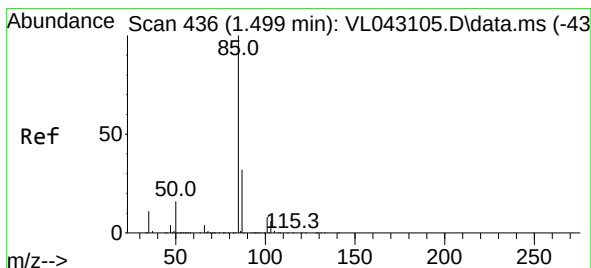
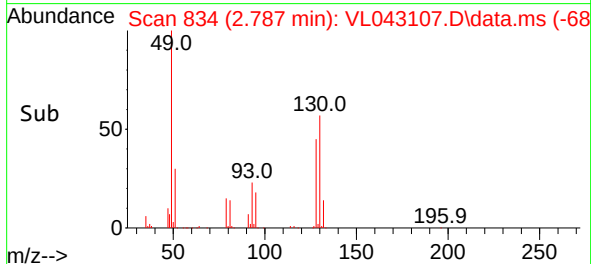
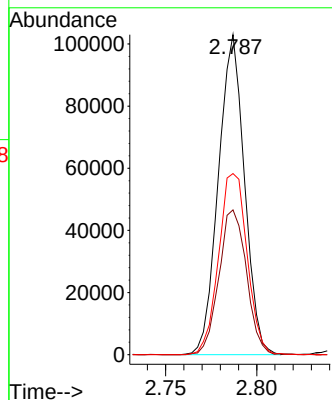
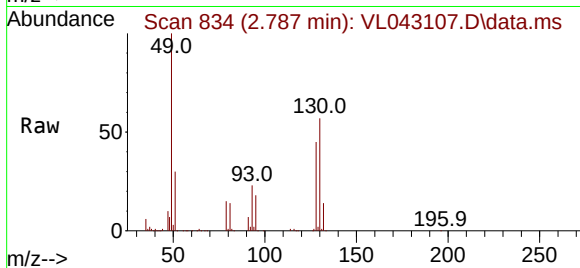
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 49 Resp: 10230  
Ion Ratio Lower Upper  
49 100  
128 48.0 24.4 73.4  
130 62.0 31.0 93.0

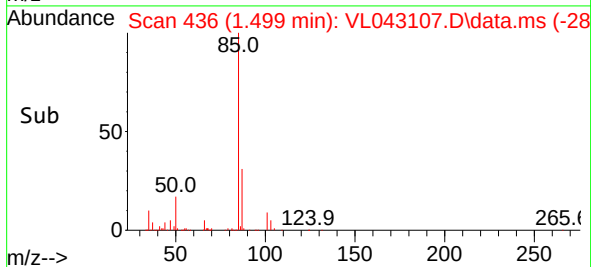
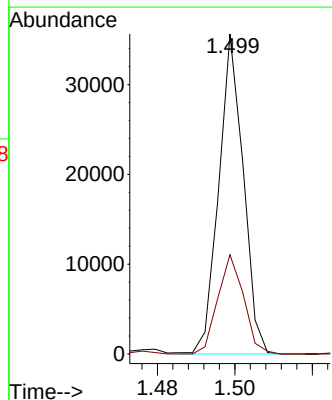
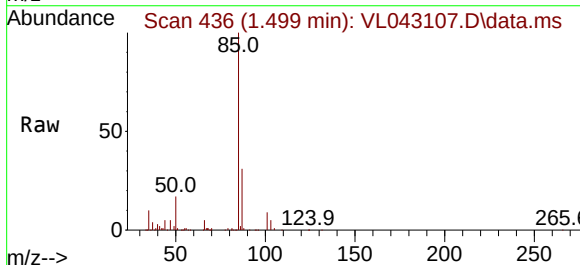
Manual Integrations  
APPROVED

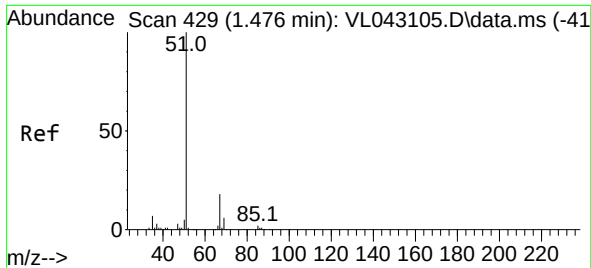
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#2  
Dichlorodifluoromethane  
Concen: 1.074 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620  
Ion Ratio Lower Upper  
85 100  
87 31.0 25.3 37.9





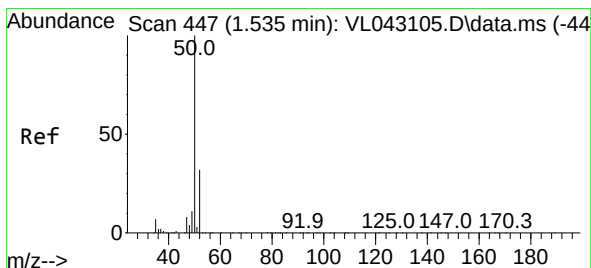
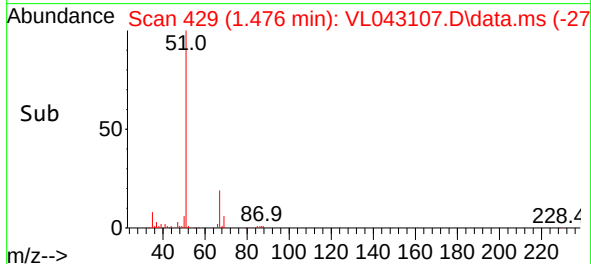
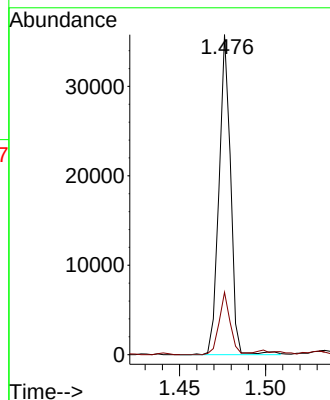
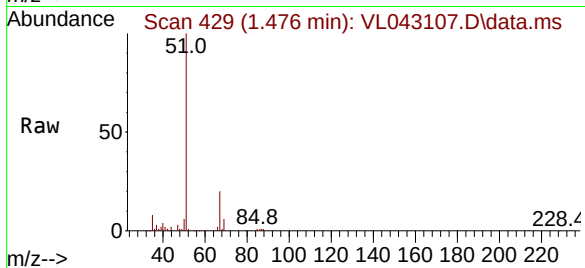
#3  
Chlorodifluoromethane  
Concen: 1.061 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument : MSVOA\_L  
ClientSampleId : VSTDICC001

Tgt Ion: 51 Resp: 16692  
Ion Ratio Lower Upper  
51 100  
67 22.8 15.1 22.7

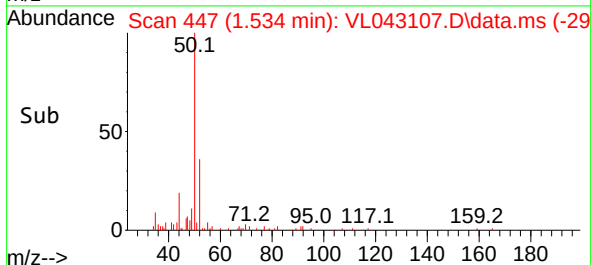
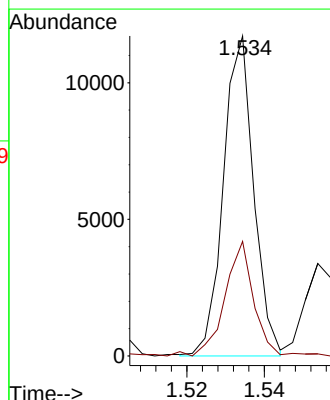
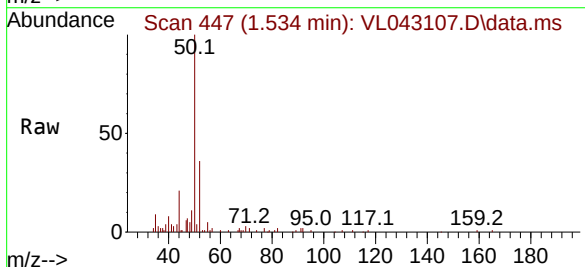
Manual Integrations  
APPROVED

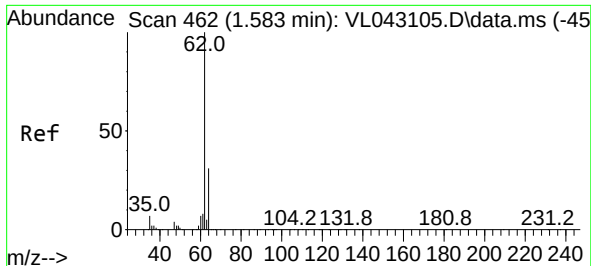
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#4  
Chloromethane  
Concen: 1.103 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

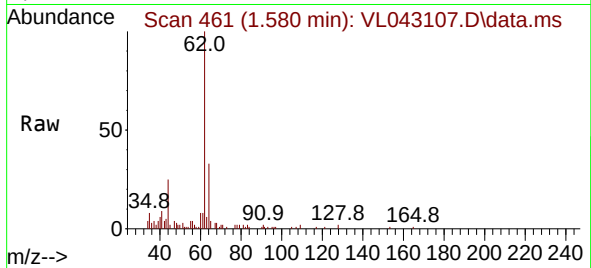
Tgt Ion: 50 Resp: 6353  
Ion Ratio Lower Upper  
50 100  
52 35.6 25.2 37.8





#5  
 Vinyl Chloride  
 Concen: 1.008 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

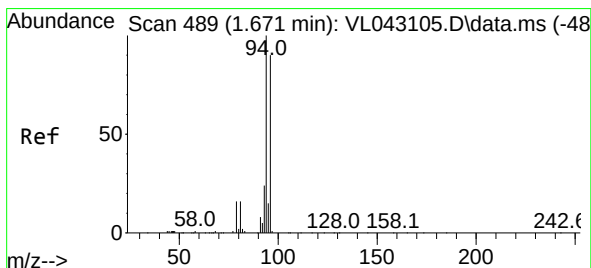
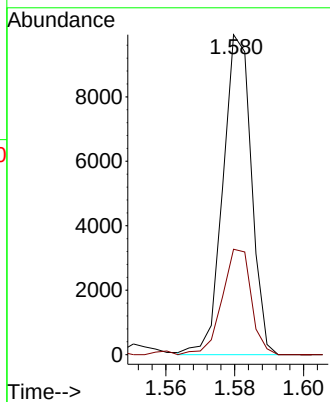
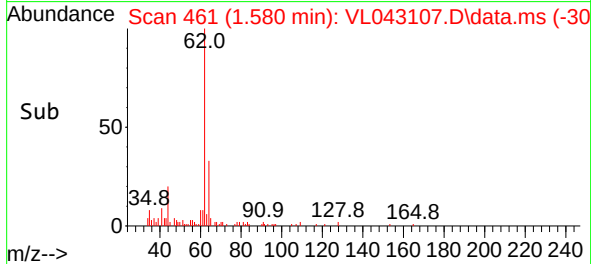
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



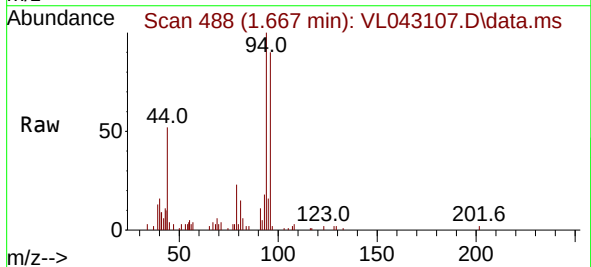
Tgt Ion: 62 Resp: 5694  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 24.6 36.8

Manual Integrations  
 APPROVED

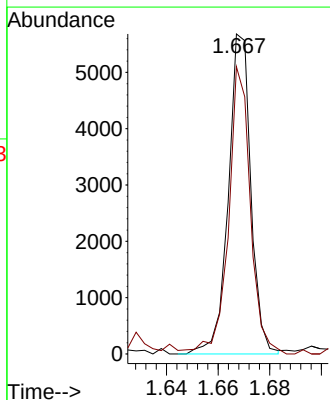
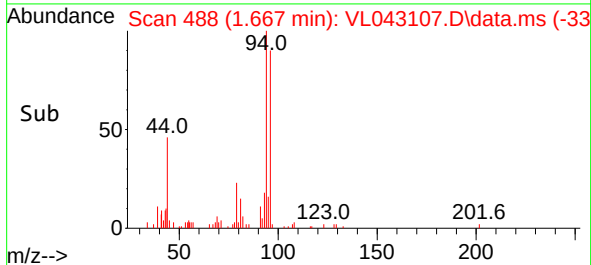
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

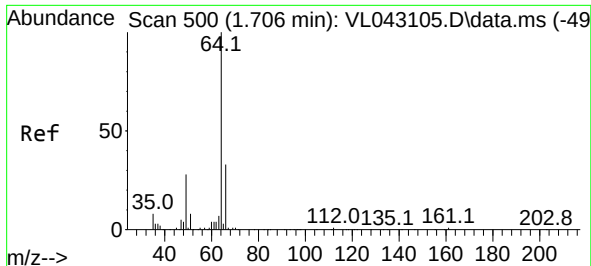


#6  
 Bromomethane  
 Concen: 1.117 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01



Tgt Ion: 94 Resp: 3462  
 Ion Ratio Lower Upper  
 94 100  
 96 88.6 72.2 108.4





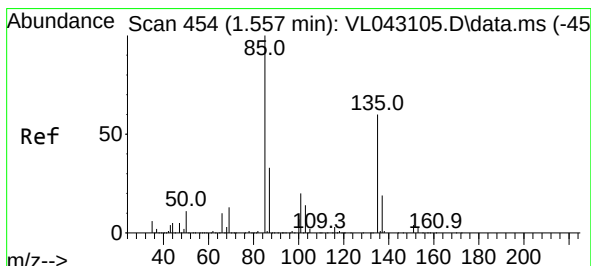
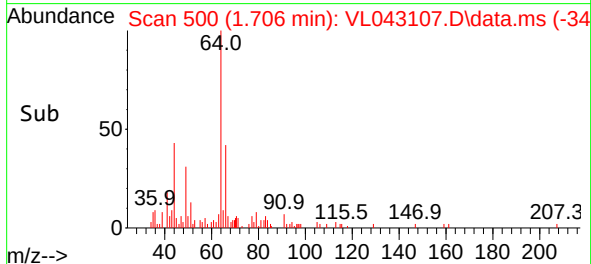
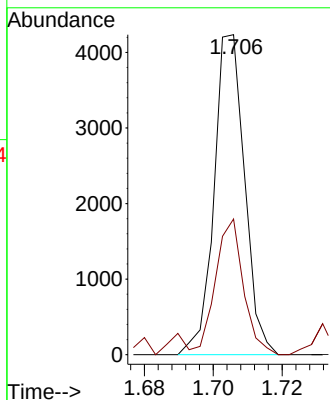
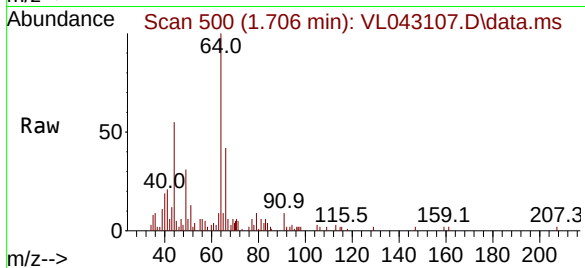
#7  
Chloroethane  
Concen: 1.132 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 64 Resp: 261  
Ion Ratio Lower Upper  
64 100  
66 42.4 26.0 39.0

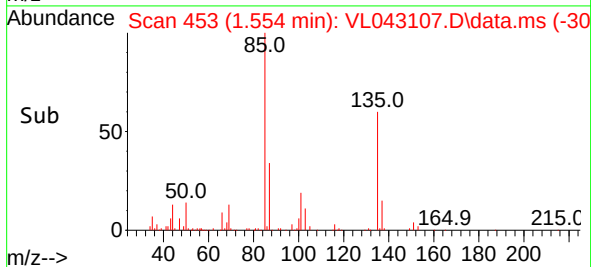
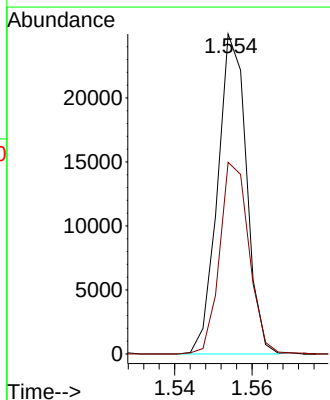
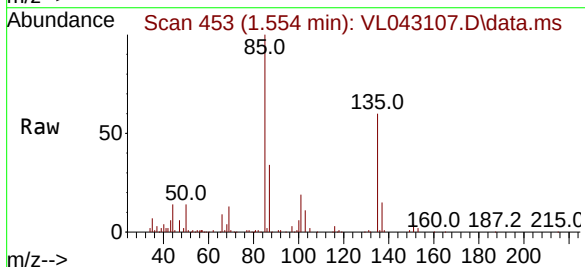
Manual Integrations  
APPROVED

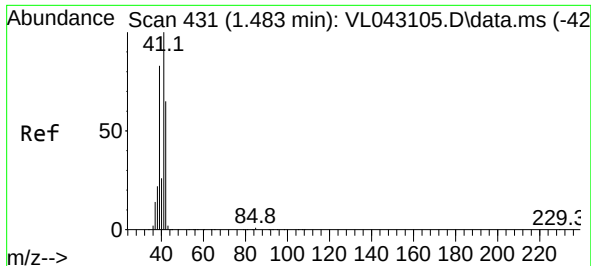
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#8  
Dichlorotetrafluoroethane  
Concen: 1.101 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

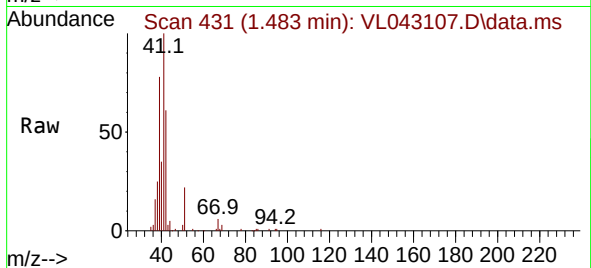
Tgt Ion: 85 Resp: 12940  
Ion Ratio Lower Upper  
85 100  
135 61.5 48.2 72.4





#9  
 Propene  
 Concen: 1.045 ppbv  
 RT: 1.483 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

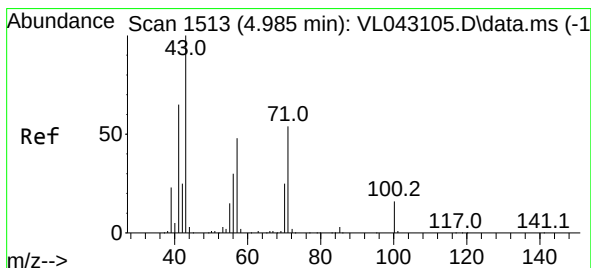
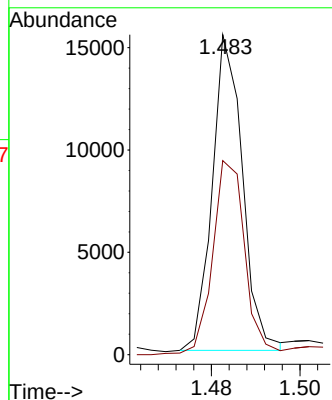
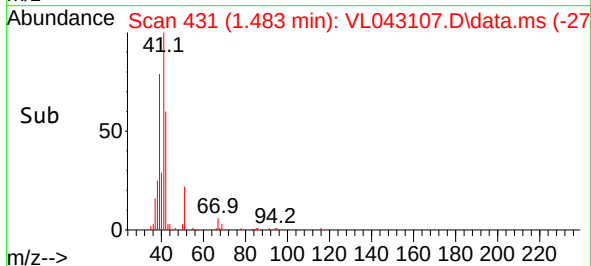
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



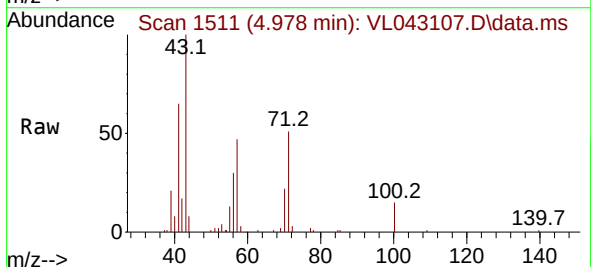
Tgt Ion: 41 Resp: 729  
 Ion Ratio Lower Upper  
 41 100  
 42 68.5 55.1 82.7

Manual Integrations  
 APPROVED

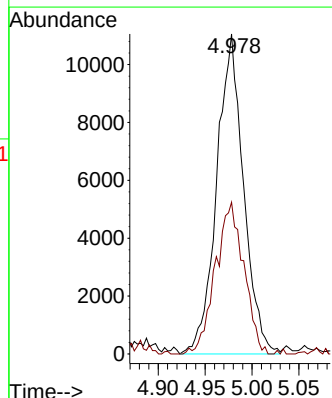
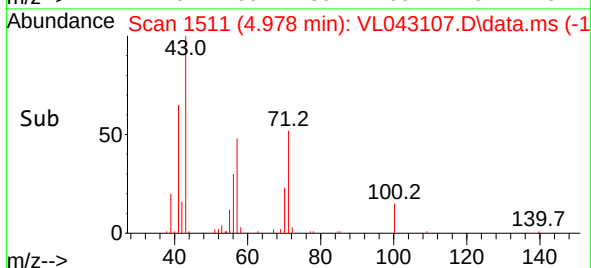
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



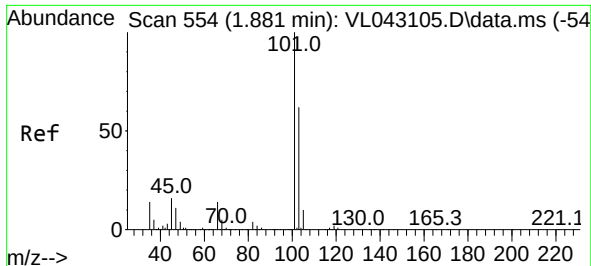
#10  
 Heptane  
 Concen: 1.100 ppbv  
 RT: 4.978 min Scan# 1511  
 Delta R.T. -0.007 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01



Tgt Ion: 43 Resp: 22011  
 Ion Ratio Lower Upper  
 43 100  
 57 50.4 40.8 61.2

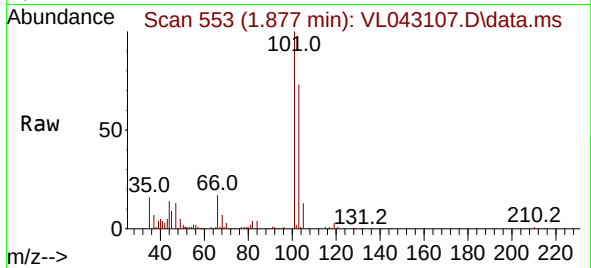






#11  
 Trichlorofluoromethane  
 Concen: 1.049 ppbv  
 RT: 1.877 min Scan# 51  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

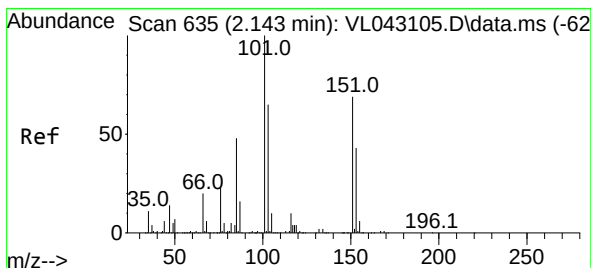
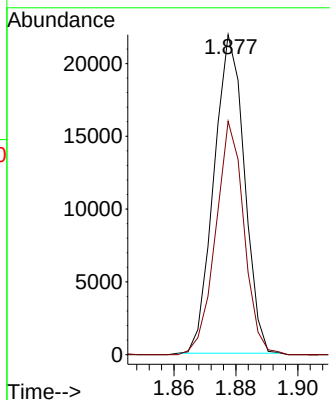
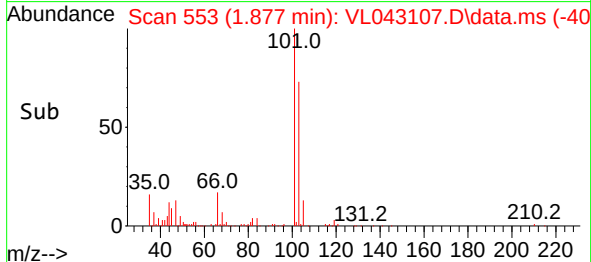
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



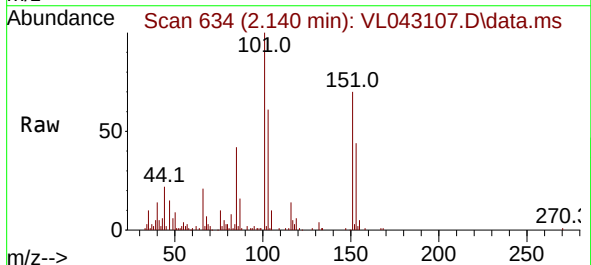
Tgt Ion:101 Resp: 1492  
 Ion Ratio Lower Upper  
 101 100  
 103 73.3 49.3 73.9

Manual Integrations  
 APPROVED

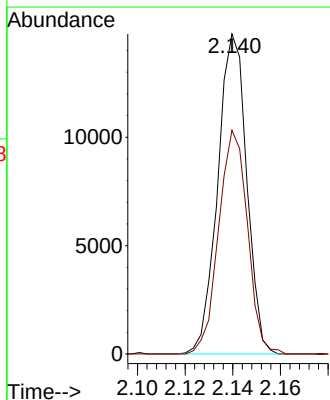
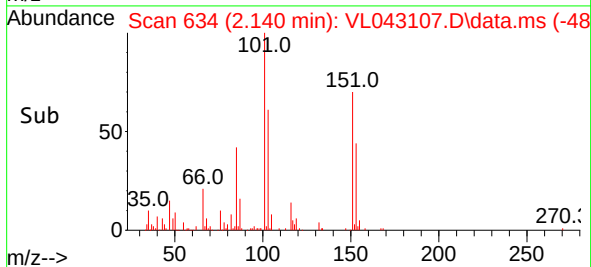
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

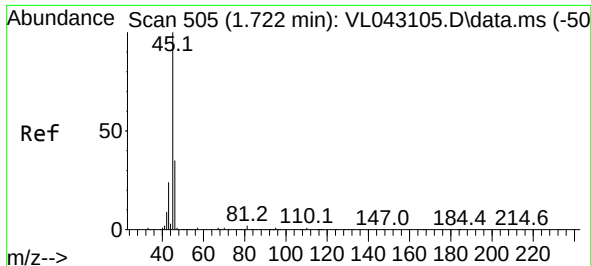


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 1.090 ppbv  
 RT: 2.140 min Scan# 634  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01



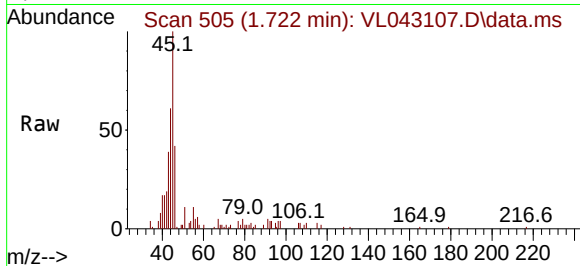
Tgt Ion:101 Resp: 12484  
 Ion Ratio Lower Upper  
 101 100  
 151 69.5 54.7 82.1





#13  
Ethanol  
Concen: 1.217 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

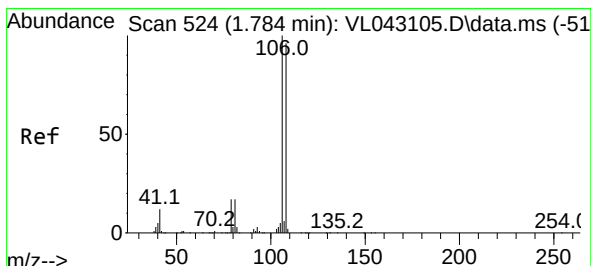
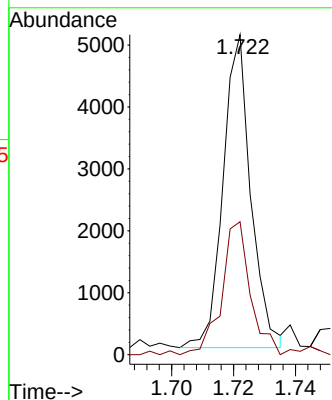
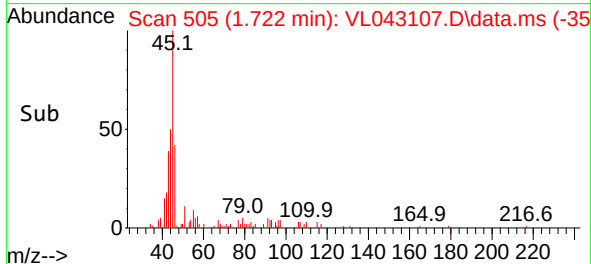
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



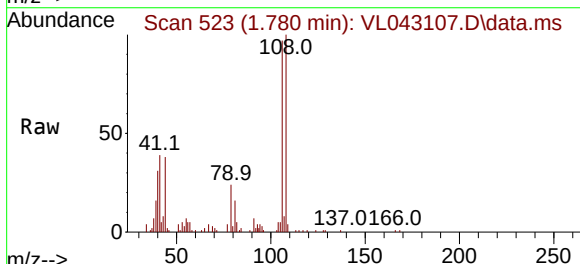
Tgt Ion: 45 Resp: 314  
Ion Ratio Lower Upper  
45 100  
46 46.7 14.7 58.9

Manual Integrations  
APPROVED

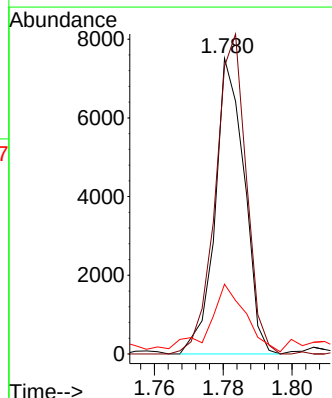
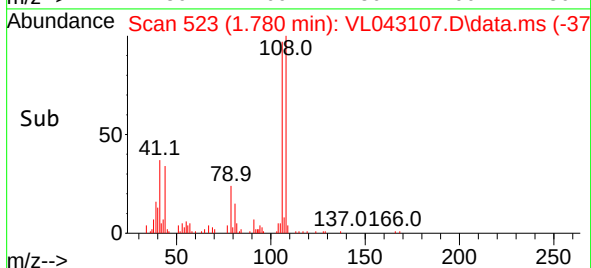
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

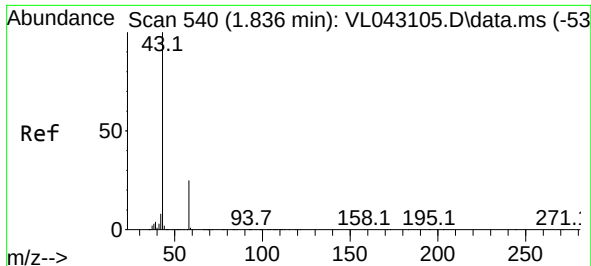


#14  
Bromoethene  
Concen: 1.043 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



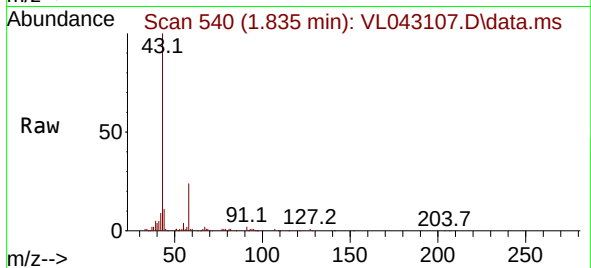
Tgt Ion:108 Resp: 4440  
Ion Ratio Lower Upper  
108 100  
106 113.7 84.4 126.6  
79 28.9 15.3 22.9#





#15  
Acetone  
Concen: 1.123 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

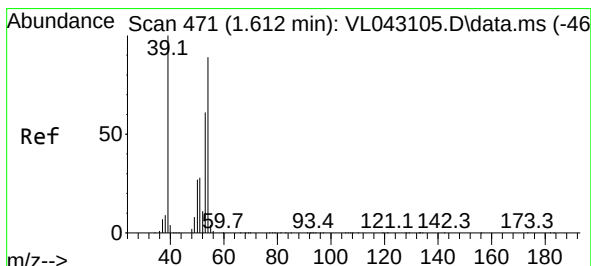
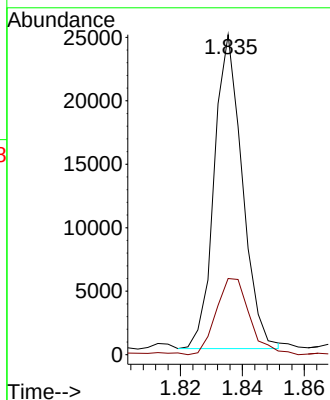
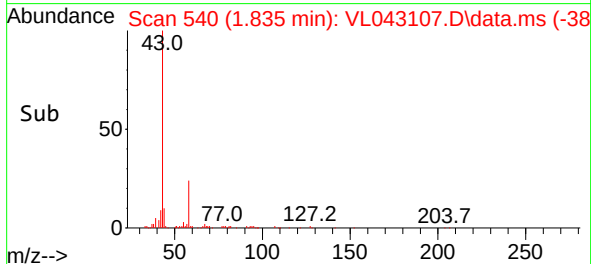
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



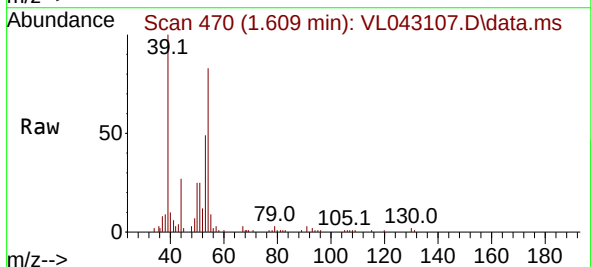
Tgt Ion: 43 Resp: 15572  
Ion Ratio Lower Upper  
43 100  
58 31.0 20.8 31.2

Manual Integrations  
APPROVED

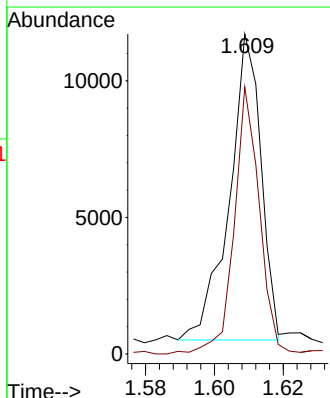
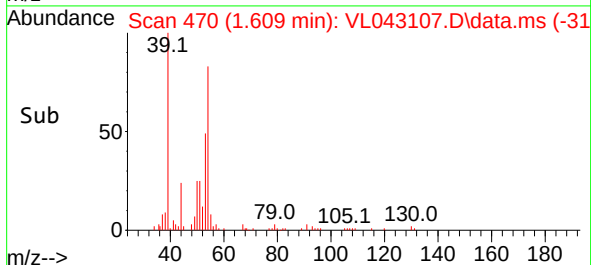
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

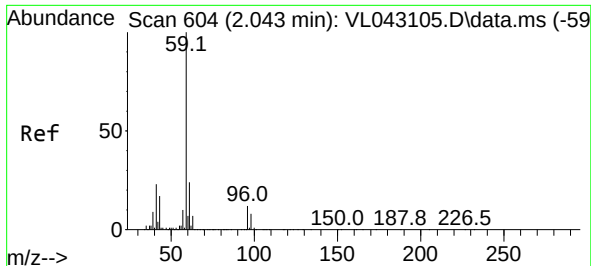


#16  
1,3-Butadiene  
Concen: 1.089 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



Tgt Ion: 39 Resp: 7157  
Ion Ratio Lower Upper  
39 100  
54 70.8 59.0 88.4





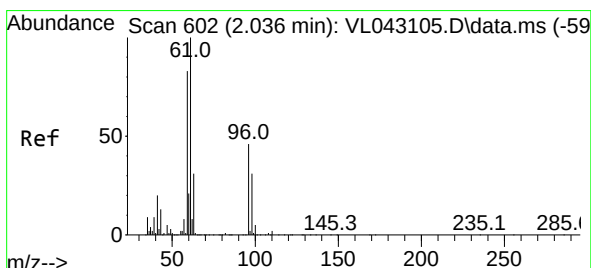
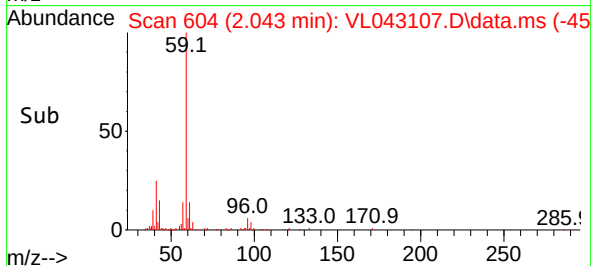
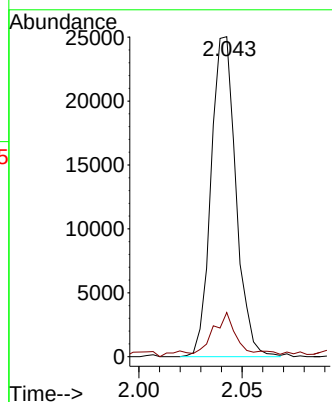
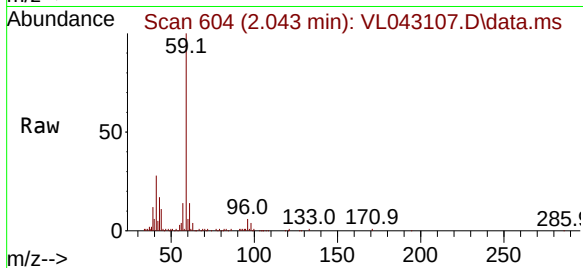
#17  
tert-Butyl alcohol  
Concen: 1.106 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 59 Resp: 2094  
Ion Ratio Lower Upper  
59 100  
57 14.0 8.2 12.4

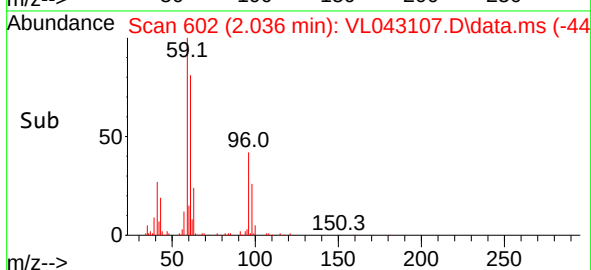
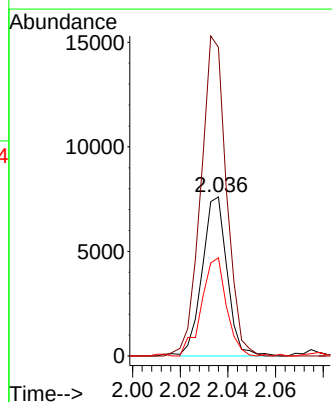
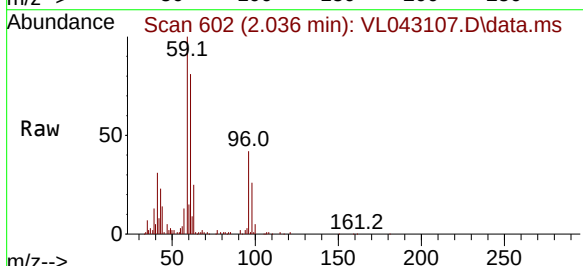
Manual Integrations  
APPROVED

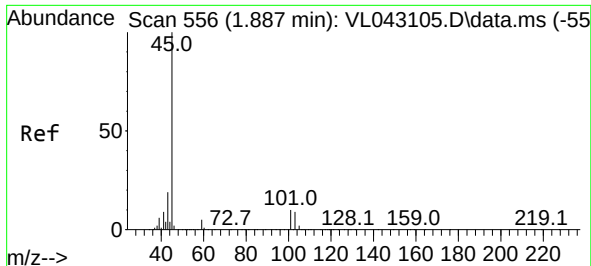
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#18  
1,1-Dichloroethene  
Concen: 1.103 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 5510  
Ion Ratio Lower Upper  
96 100  
61 194.0 173.4 260.0  
98 61.7 53.2 79.8





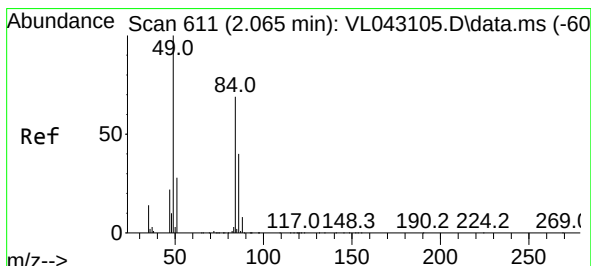
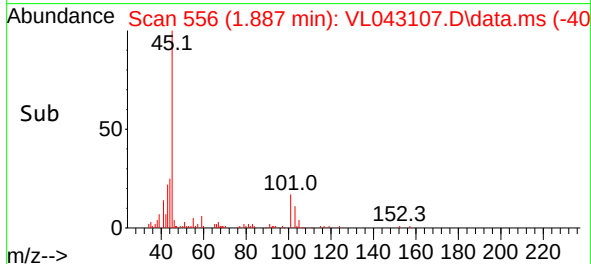
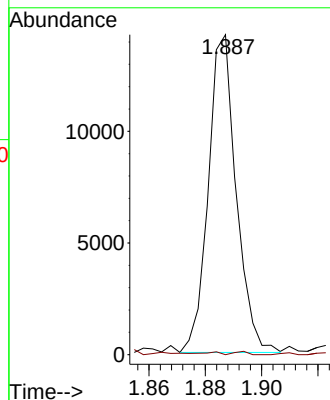
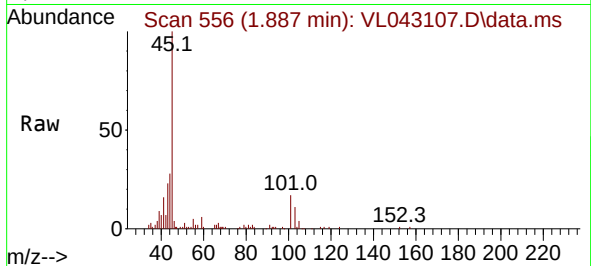
#19  
Isopropyl Alcohol  
Concen: 1.141 ppbv  
RT: 1.887 min Scan# 510  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 45 Resp: 9790  
Ion Ratio Lower Upper  
45 100  
58 48.1 31.3 46.9

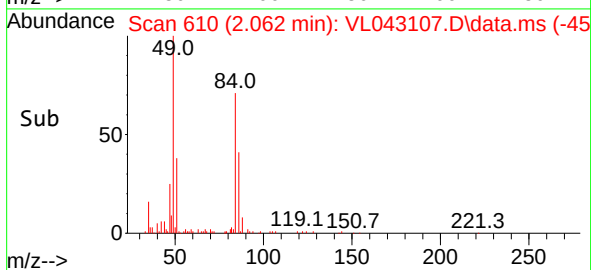
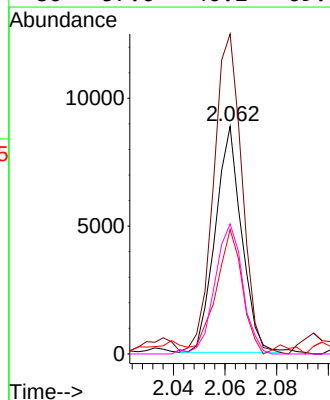
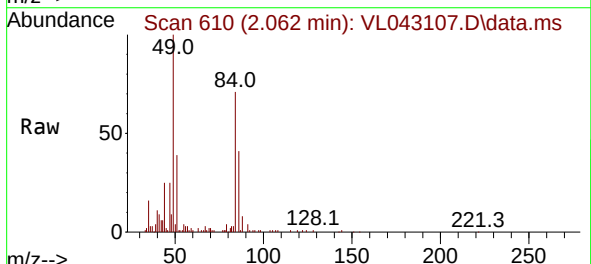
Manual Integrations  
APPROVED

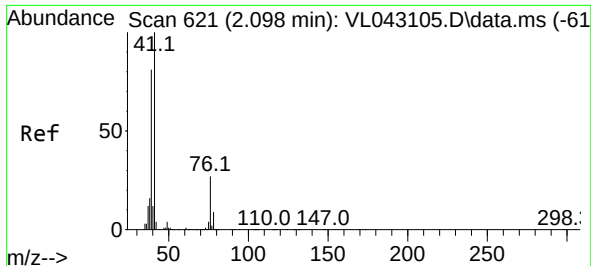
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#20  
Methylene Chloride  
Concen: 1.149 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 6261  
Ion Ratio Lower Upper  
84 100  
49 140.9 116.6 175.0  
51 51.2 34.8 52.2  
86 57.6 46.2 69.4





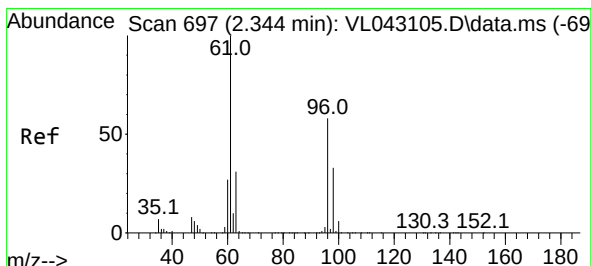
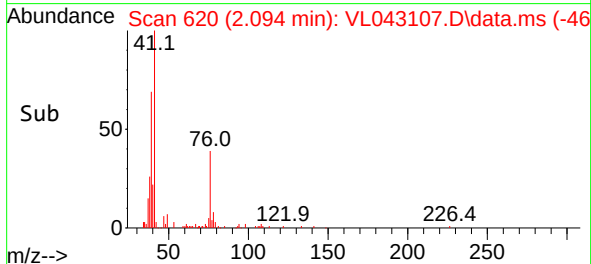
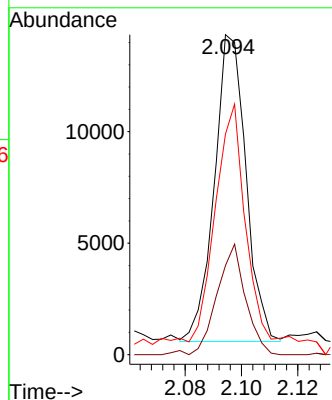
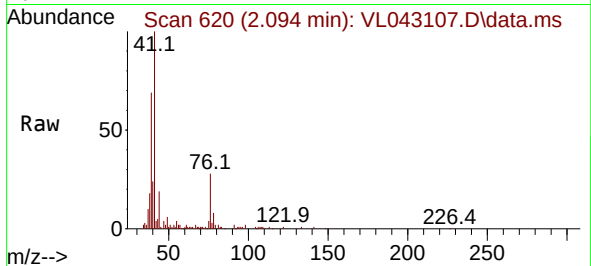
#21  
 Allyl Chloride  
 Concen: 1.055 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 41 Resp: 1073  
 Ion Ratio Lower Upper  
 41 100  
 76 32.6 21.5 32.3  
 39 94.1 60.8 91.2

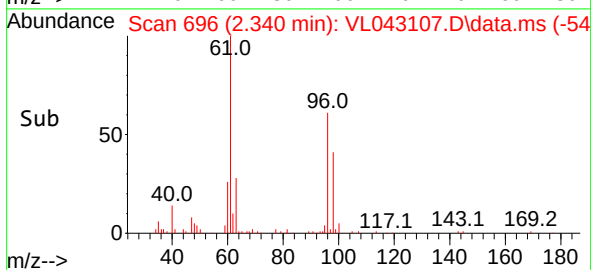
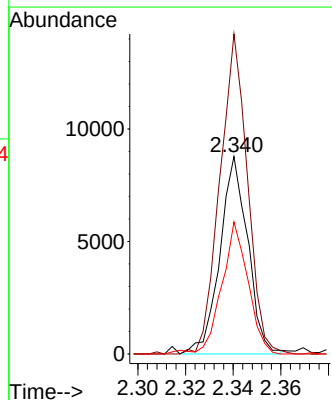
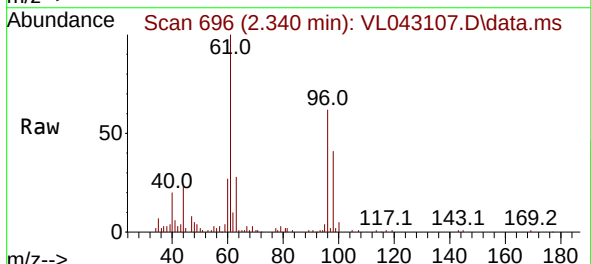
Manual Integrations  
 APPROVED

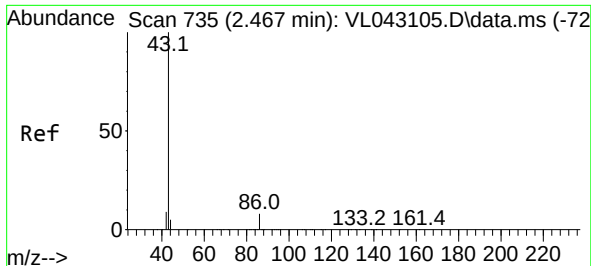
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.193 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

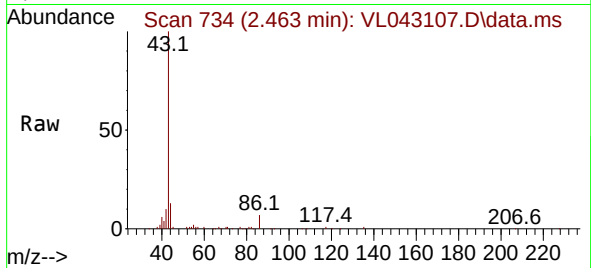
Tgt Ion: 96 Resp: 7119  
 Ion Ratio Lower Upper  
 96 100  
 61 162.1 137.0 205.6  
 98 66.9 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 0.964 ppbv  
 RT: 2.463 min Scan# 716  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

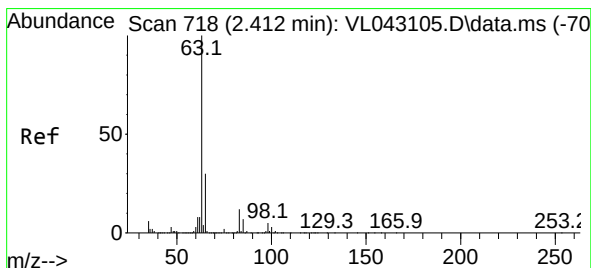
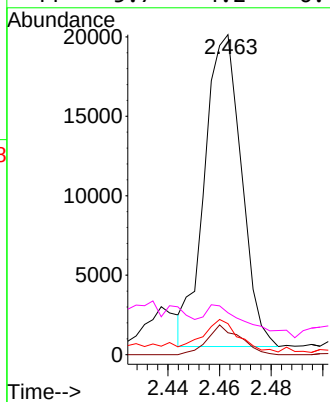
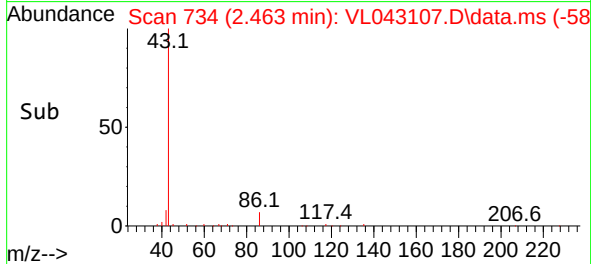
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



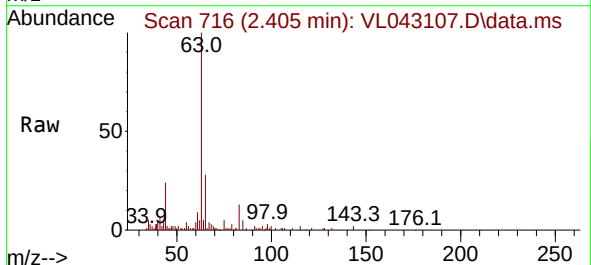
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 7.0   | 6.2   | 9.2   |
| 42      | 9.1   | 7.6   | 11.4  |
| 44      | 5.7   | 4.2   | 6.4   |

Manual Integrations  
 APPROVED

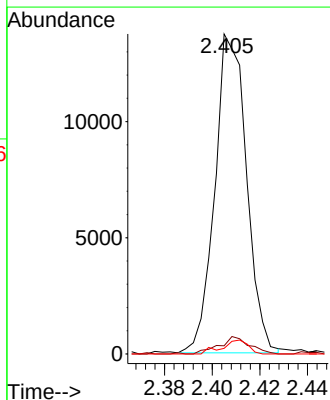
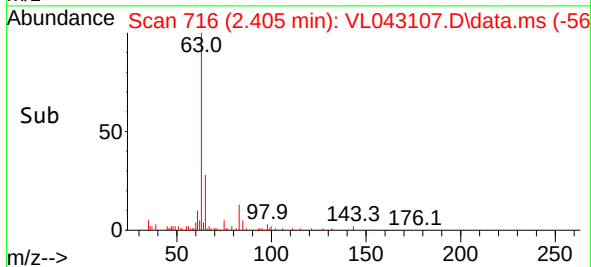
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

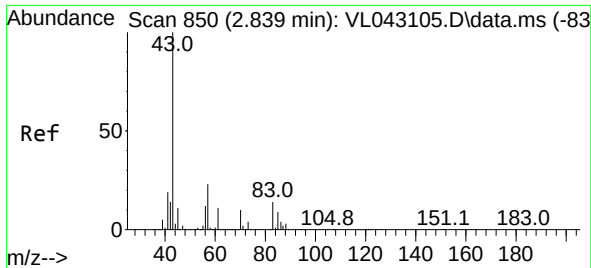


#24  
 1,1-Dichloroethane  
 Concen: 1.097 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.007 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01



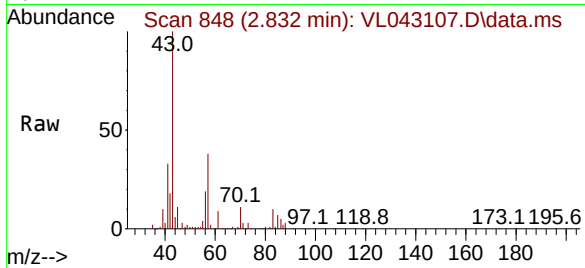
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 2.6   | 2.6   | 7.8#  |
| 100     | 1.7   | 1.5   | 4.4   |





#25  
Ethyl Acetate  
Concen: 1.085 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

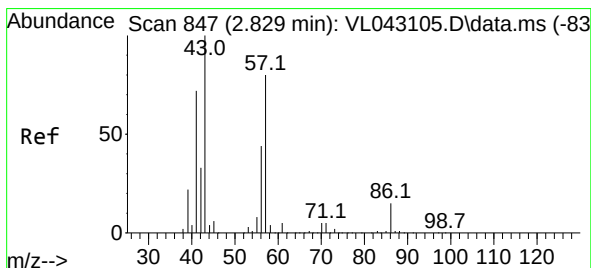
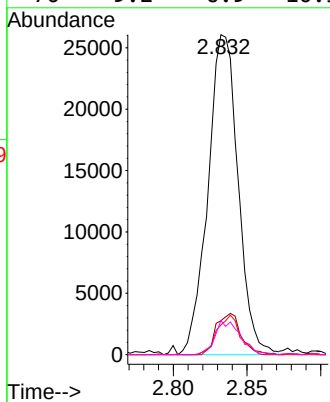
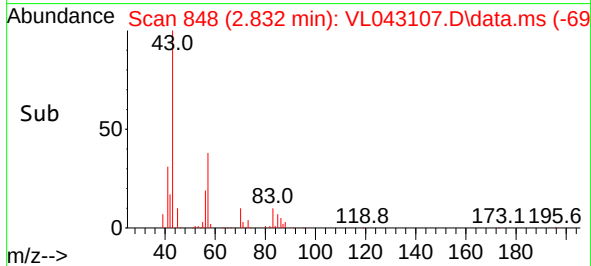
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



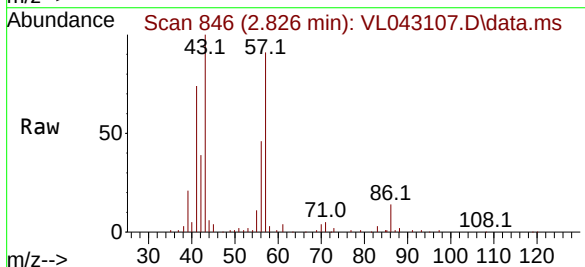
| Tgt Ion:  | 43   | Resp: | 3709  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 45        | 10.8 | 7.8   | 11.8  |
| 61        | 9.4  | 7.0   | 10.6  |
| 70        | 9.2  | 6.9   | 10.3  |

Manual Integrations  
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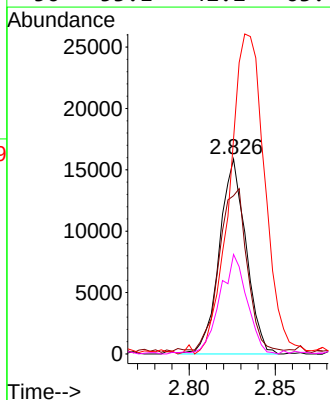
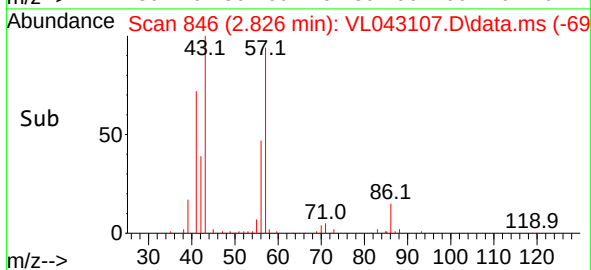
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



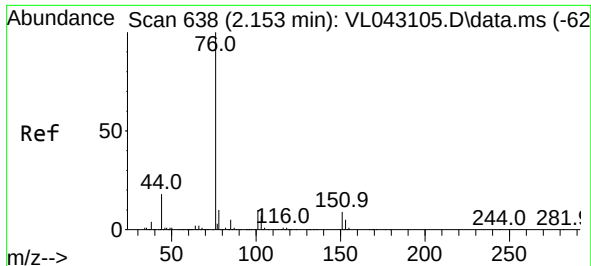
#26  
Hexane  
Concen: 1.089 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



| Tgt Ion:  | 57    | Resp: | 17152 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 41        | 91.8  | 71.4  | 107.0 |
| 43        | 219.3 | 178.5 | 267.7 |
| 56        | 53.1  | 42.2  | 63.4  |







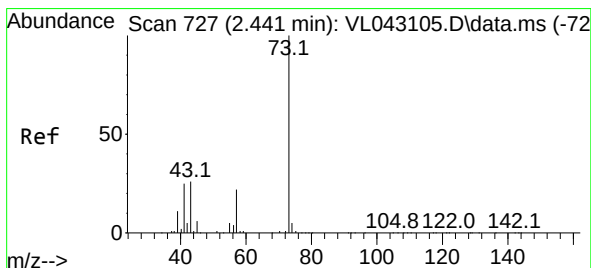
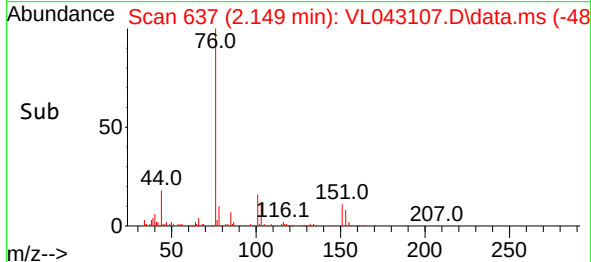
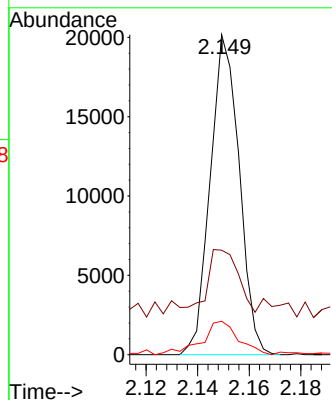
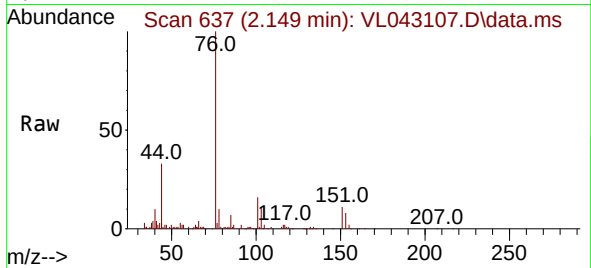
#27  
Carbon Disulfide  
Concen: 1.092 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 76 Resp: 15760  
Ion Ratio Lower Upper  
76 100  
44 47.9 16.7 25.1  
78 14.2 9.3 13.9

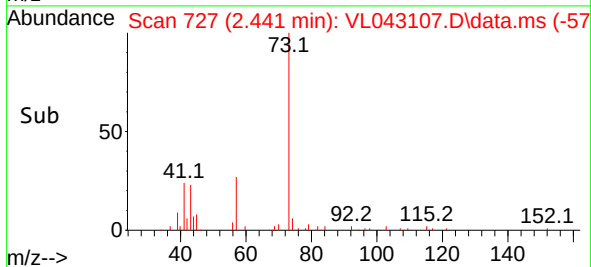
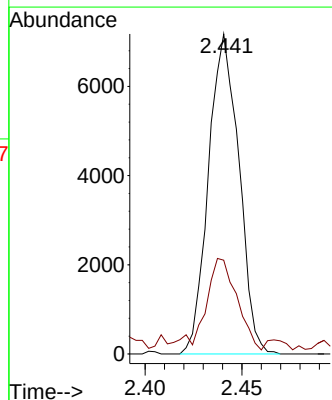
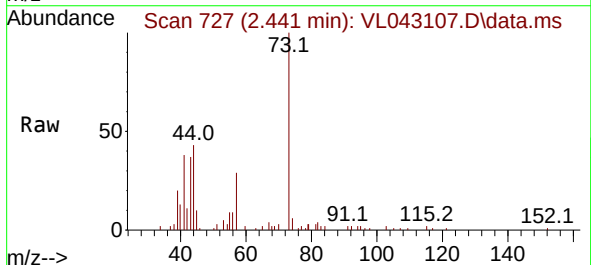
Manual Integrations  
APPROVED

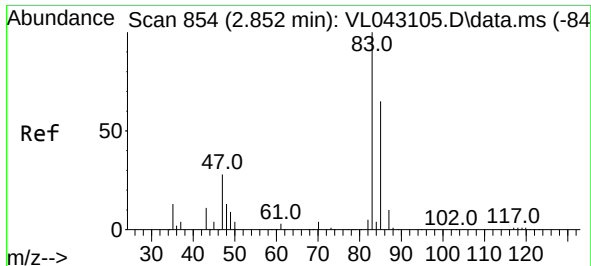
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#28  
Methyl tert-Butyl Ether  
Concen: 1.095 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

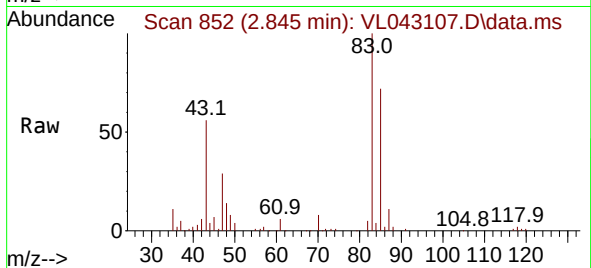
Tgt Ion: 73 Resp: 7847  
Ion Ratio Lower Upper  
73 100  
57 32.3 20.5 30.7





#29  
Chloroform  
Concen: 1.074 ppbv  
RT: 2.845 min Scan# 81  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

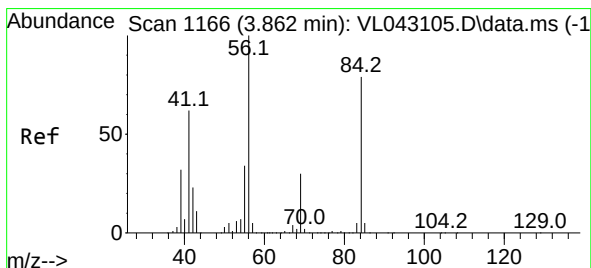
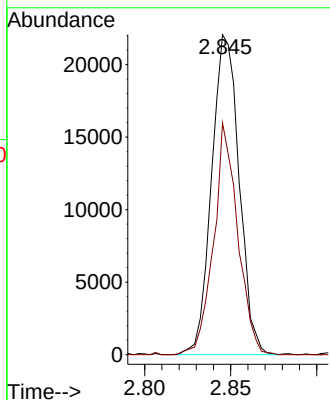
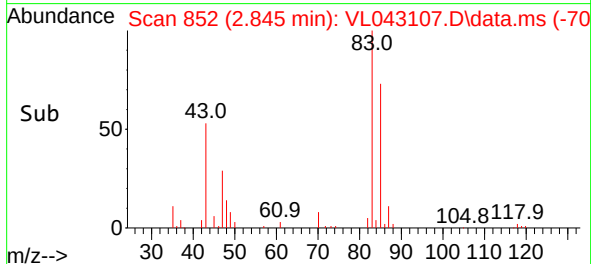
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 83 Resp: 2452  
Ion Ratio Lower Upper  
83 100  
85 72.4 51.8 77.6

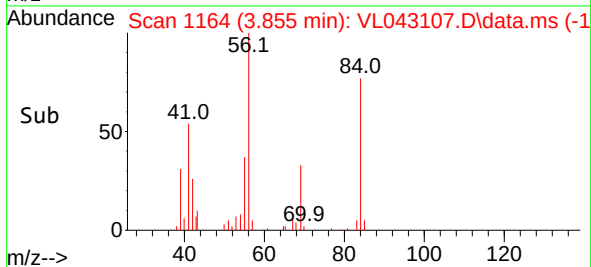
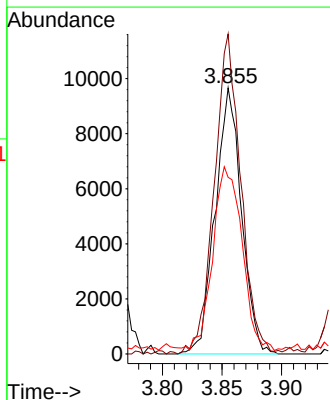
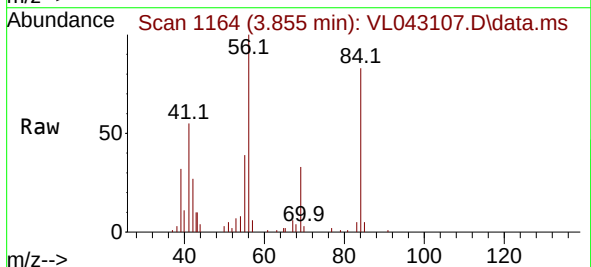
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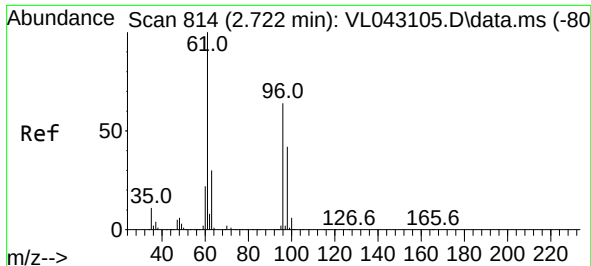
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#30  
Cyclohexane  
Concen: 1.078 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 14819  
Ion Ratio Lower Upper  
84 100  
56 122.3 100.9 151.3  
41 78.1 63.8 95.6





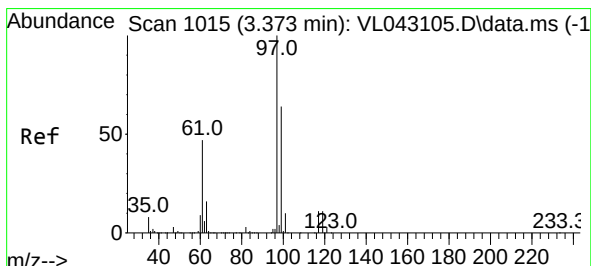
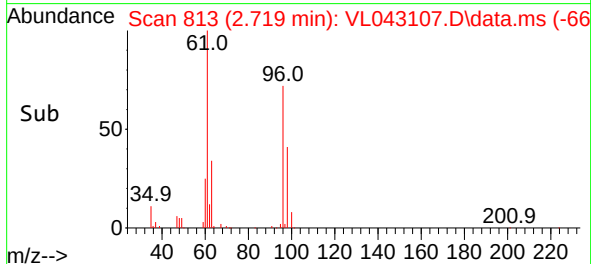
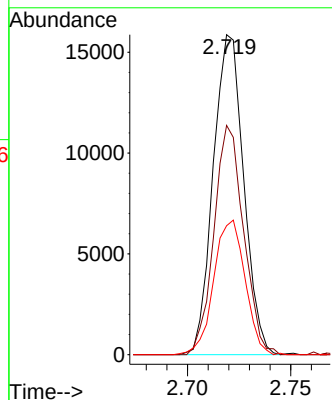
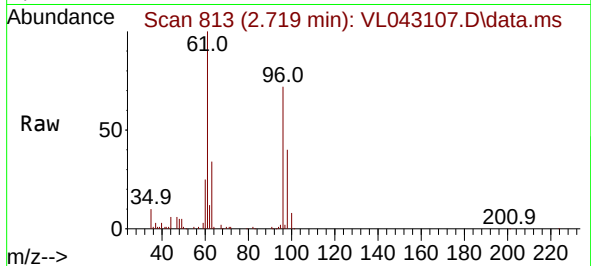
#31  
 cis-1,2-Dichloroethene  
 Concen: 1.084 ppbv  
 RT: 2.719 min Scan# 814  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 61 Resp: 1631  
 Ion Ratio Lower Upper  
 61 100  
 96 71.6 51.0 76.6  
 98 39.9 33.5 50.3

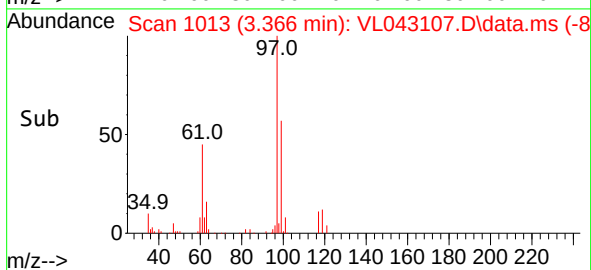
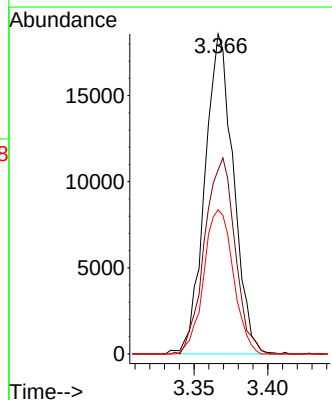
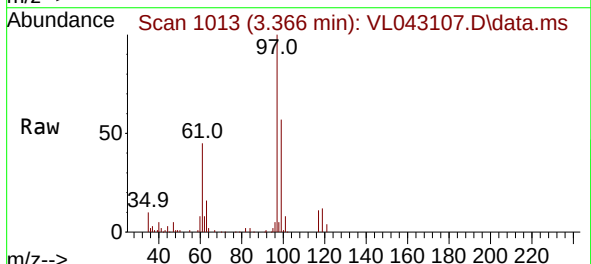
Manual Integrations  
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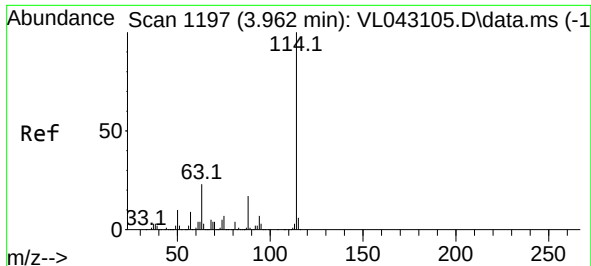
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#32  
 1,1,1-Trichloroethane  
 Concen: 1.049 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. -0.007 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948  
 Ion Ratio Lower Upper  
 97 100  
 99 65.4 51.3 76.9  
 61 46.8 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 336268

Ion Ratio Lower Upper

114 100

63 24.8 19.3 28.9

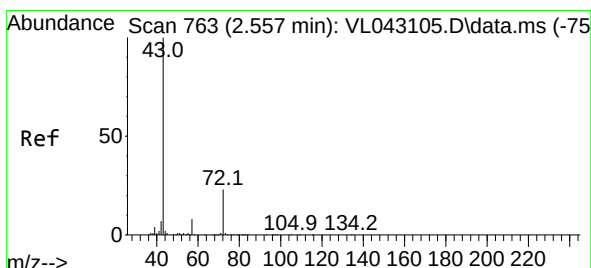
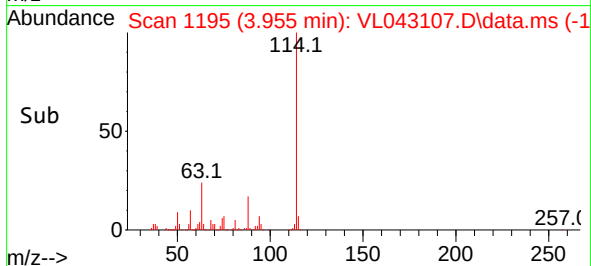
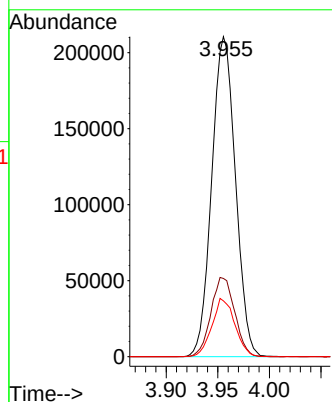
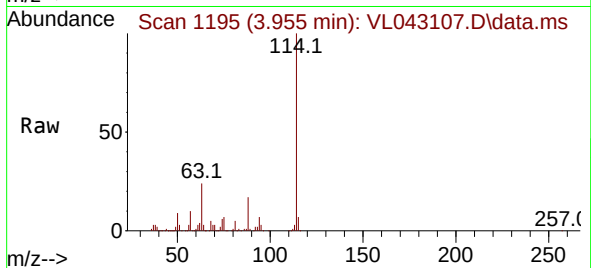
88 17.6 13.9 20.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#34

2-Butanone

Concen: 1.047 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043107.D

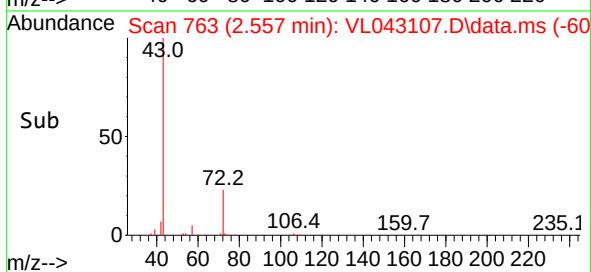
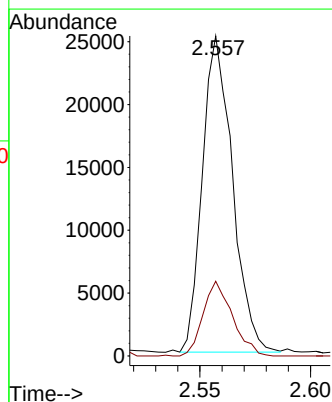
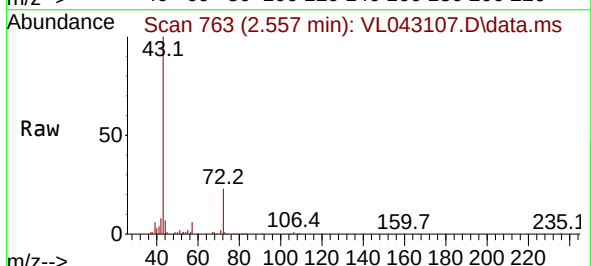
Acq: 14 Oct 2025 12:01

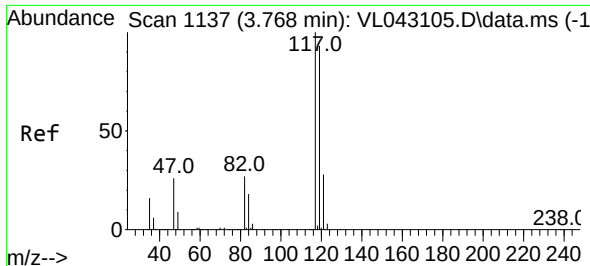
Tgt Ion: 43 Resp: 23811

Ion Ratio Lower Upper

43 100

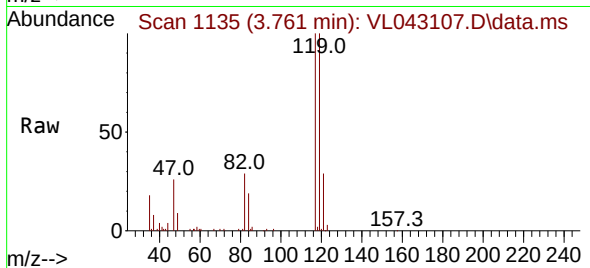
72 23.0 18.4 27.6





#35  
Carbon Tetrachloride  
Concen: 1.033 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

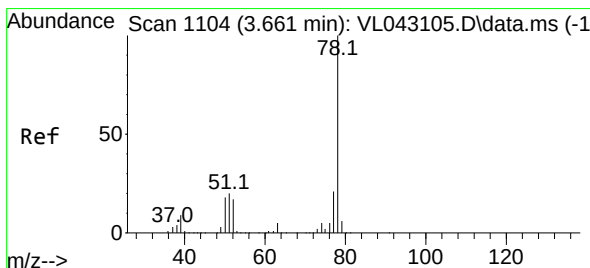
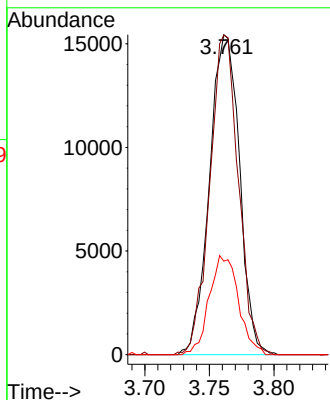
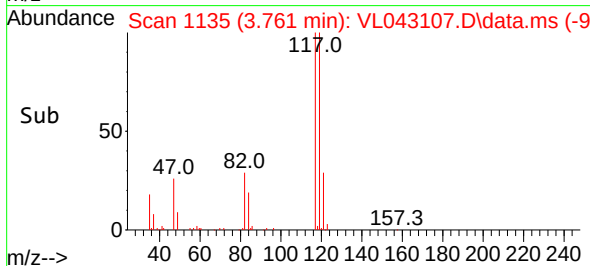
Instrument : MSVOA\_L  
ClientSampleId : VSTDICC001



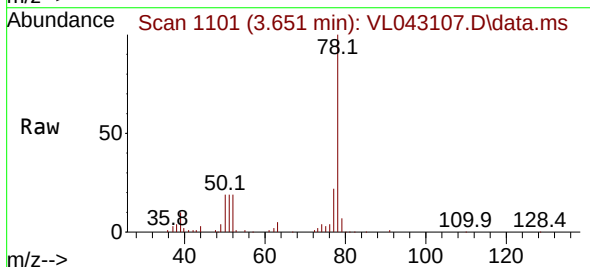
Tgt Ion: 117 Resp: 2496  
Ion Ratio Lower Upper  
117 100  
119 99.8 74.1 111.1  
121 29.3 22.2 33.2

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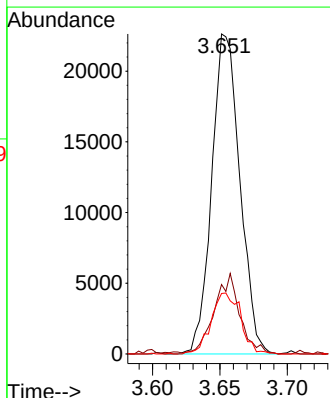
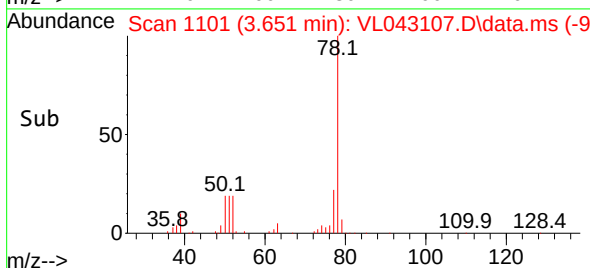
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

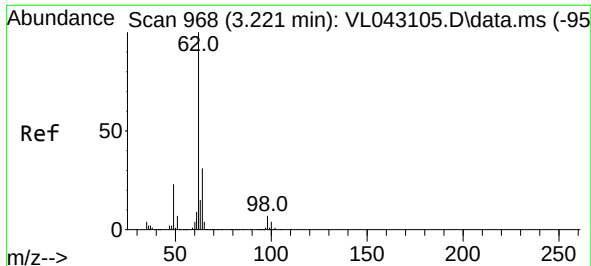


#36  
Benzene  
Concen: 1.040 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



Tgt Ion: 78 Resp: 32940  
Ion Ratio Lower Upper  
78 100  
77 21.7 17.0 25.6  
50 18.9 14.6 22.0





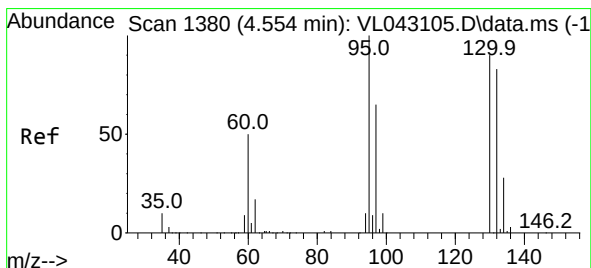
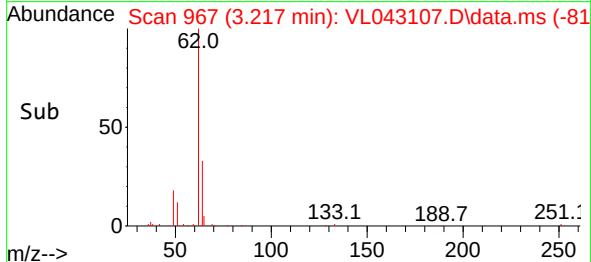
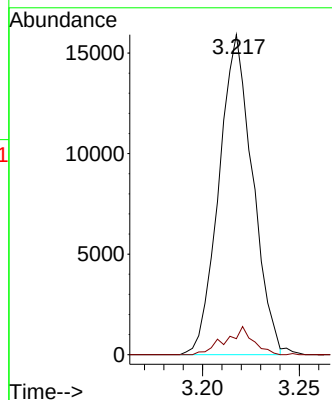
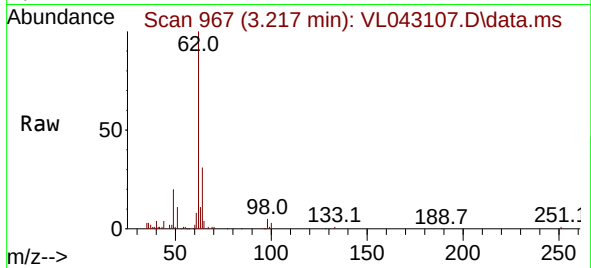
#37  
1,2-Dichloroethane  
Concen: 1.053 ppbv  
RT: 3.217 min Scan# 90  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 62 Resp: 1921  
Ion Ratio Lower Upper  
62 100  
98 7.2 5.8 8.6

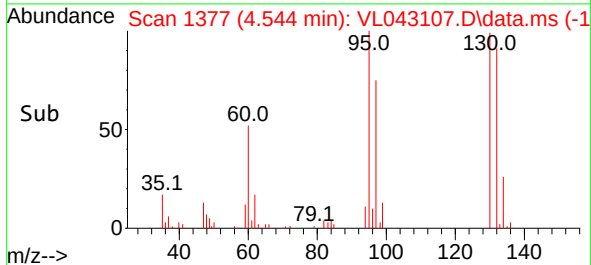
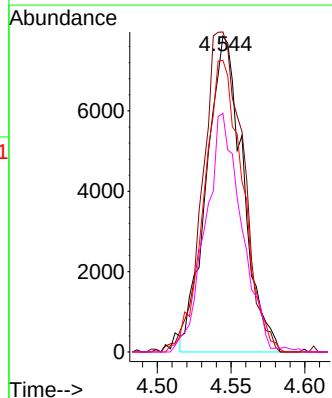
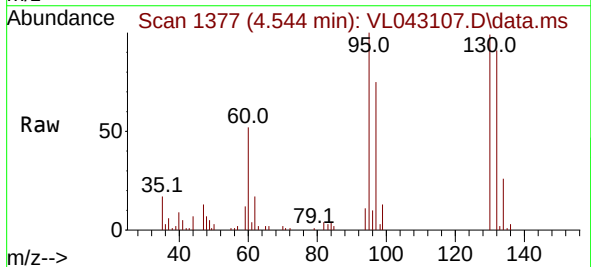
Manual Integrations  
APPROVED

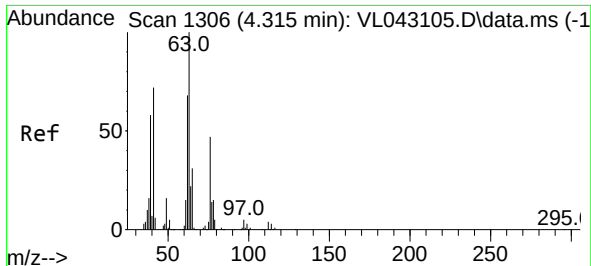
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 1.023 ppbv  
RT: 4.544 min Scan# 1377  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion:130 Resp: 13512  
Ion Ratio Lower Upper  
130 100  
95 101.4 88.6 133.0  
132 91.5 73.4 110.0  
97 74.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 1.073 ppbv

RT: 4.311 min Scan# 1306

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

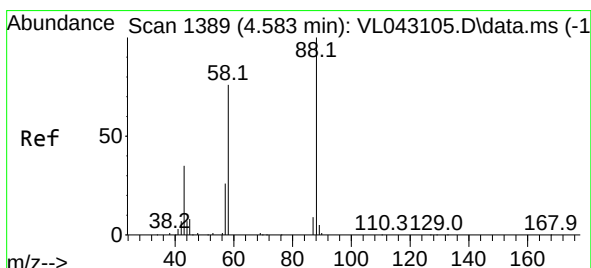
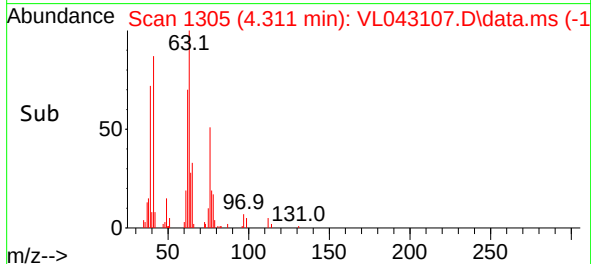
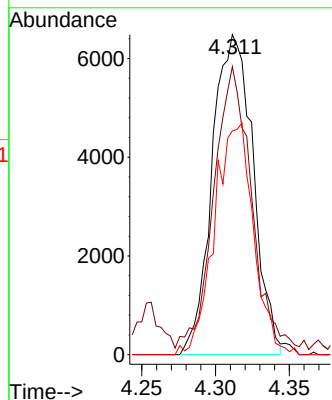
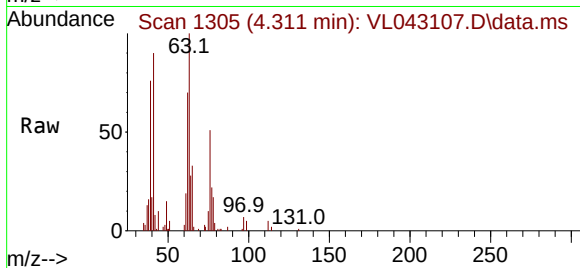
ClientSampleId :

VSTDIC001

|             |                |
|-------------|----------------|
| Tgt Ion: 63 | Resp: 1243     |
| Ion Ratio   | Lower Upper    |
| 63          | 100            |
| 41          | 84.3 58.0 87.0 |
| 62          | 67.2 54.7 82.1 |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 1.077 ppbv m

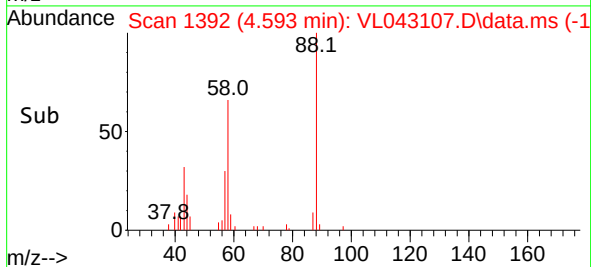
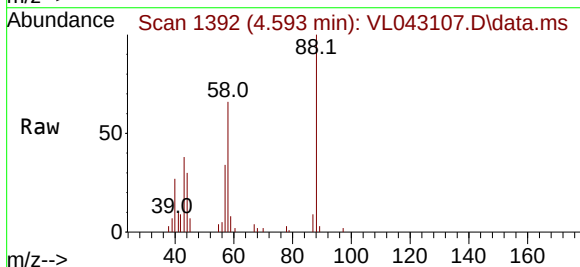
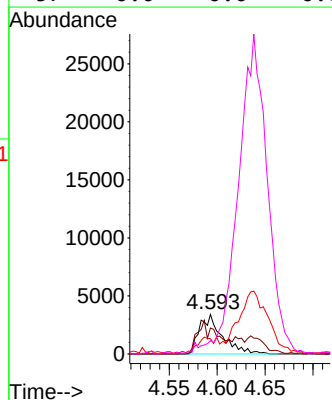
RT: 4.593 min Scan# 1392

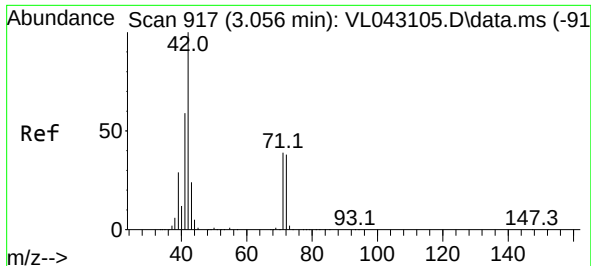
Delta R.T. 0.009 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

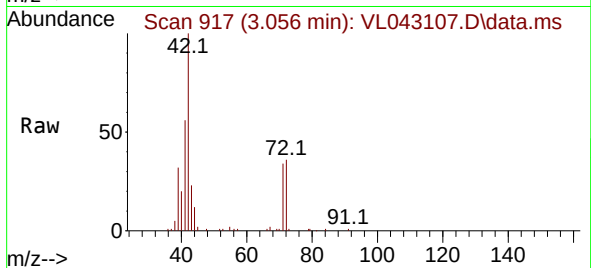
|             |                |
|-------------|----------------|
| Tgt Ion: 88 | Resp: 5579     |
| Ion Ratio   | Lower Upper    |
| 88          | 100            |
| 58          | 0.0 61.1 91.7# |
| 43          | 0.0 24.0 36.0# |
| 57          | 0.0 0.0 0.0    |





#41  
Tetrahydrofuran  
Concen: 1.044 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

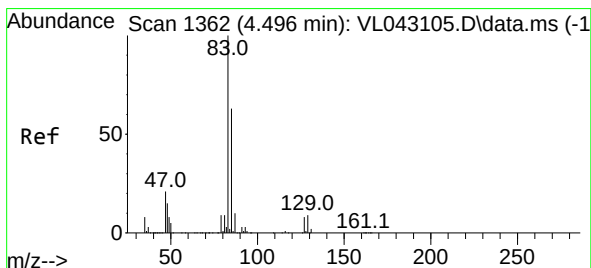
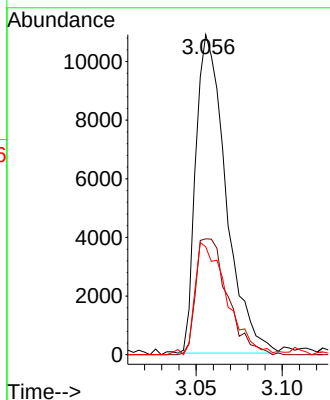
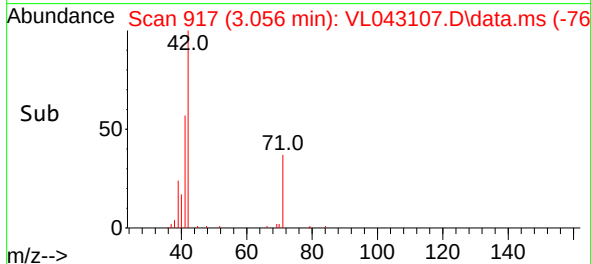
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



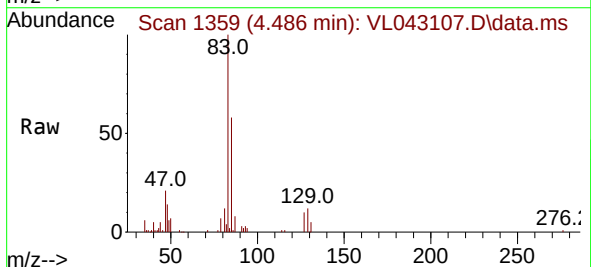
Tgt Ion: 42 Resp: 1325  
Ion Ratio Lower Upper  
42 100  
72 38.1 31.3 46.9  
71 38.6 30.4 45.6

Manual Integrations  
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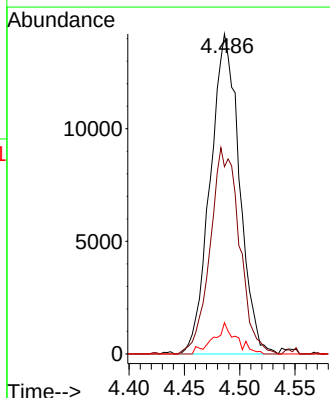
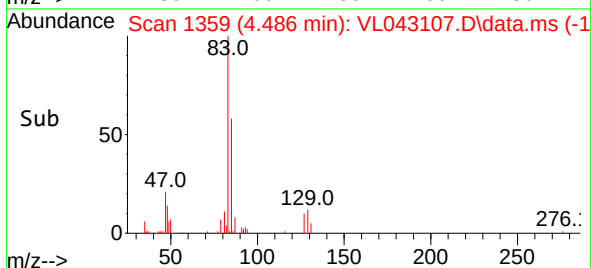
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



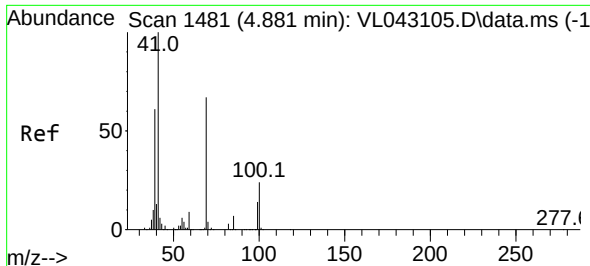
#42  
Bromodichloromethane  
Concen: 1.032 ppbv  
RT: 4.486 min Scan# 1359  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



Tgt Ion: 83 Resp: 26069  
Ion Ratio Lower Upper  
83 100  
85 58.5 50.6 75.8  
127 9.8 6.3 9.5#







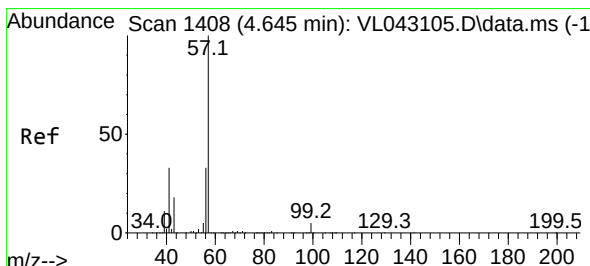
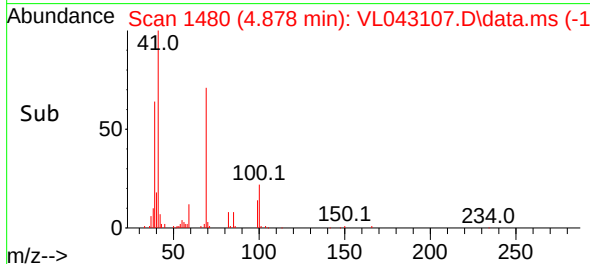
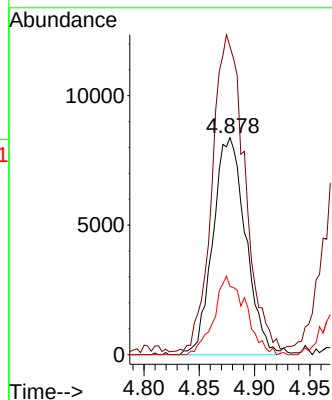
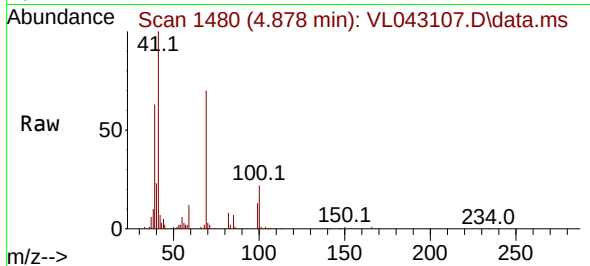
#43  
Methyl Methacrylate  
Concen: 1.064 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 69 Resp: 1719  
Ion Ratio Lower Upper  
69 100  
41 145.9 120.5 180.7  
100 35.0 29.0 43.4

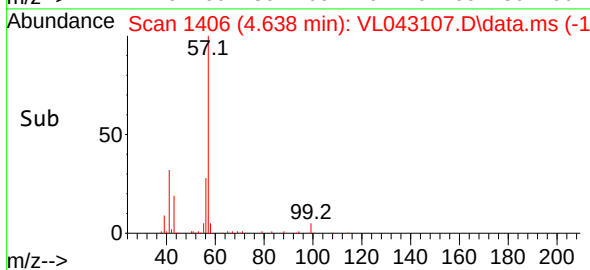
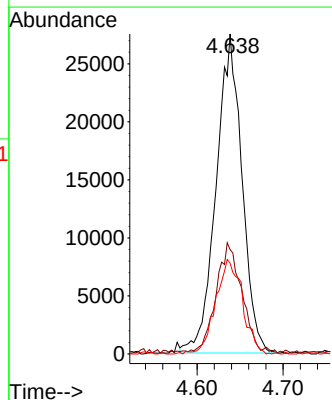
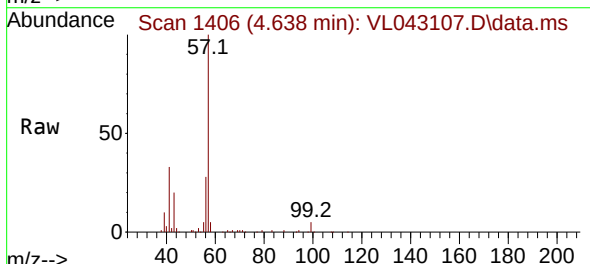
Manual Integrations  
APPROVED

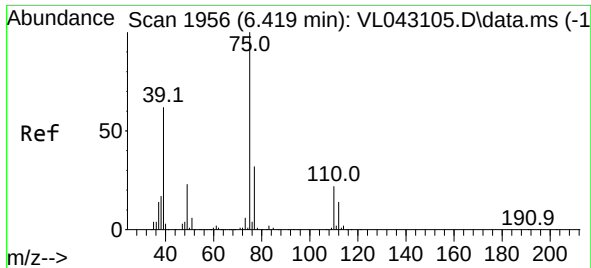
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#44  
2,2,4-Trimethylpentane  
Concen: 1.084 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382  
Ion Ratio Lower Upper  
57 100  
41 35.4 26.3 39.5  
56 30.7 25.9 38.9





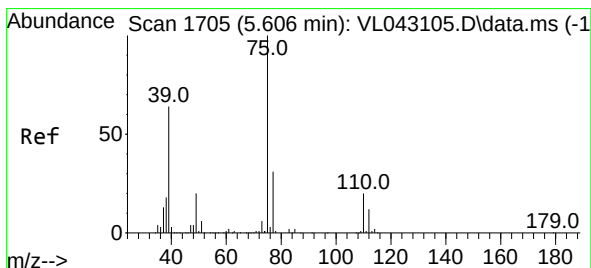
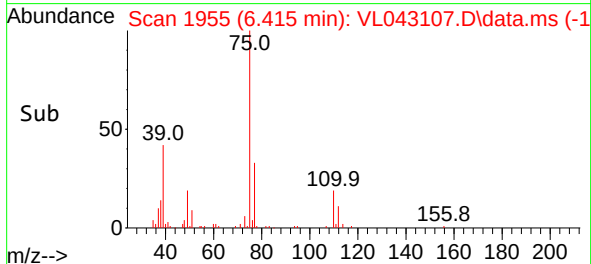
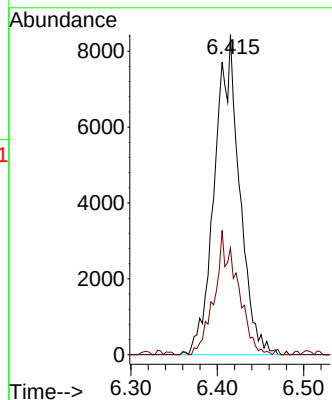
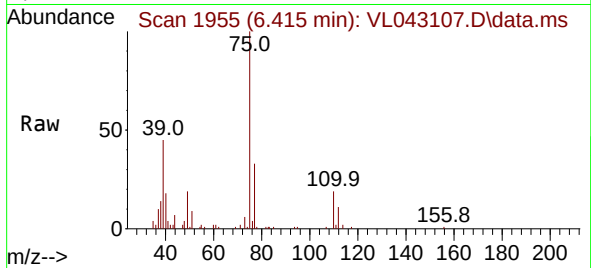
#45  
 t-1,3-Dichloropropene  
 Concen: 1.045 ppbv  
 RT: 6.415 min Scan# 1956  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 75 Resp: 16874  
 Ion Ratio Lower Upper  
 75 100  
 77 33.4 25.4 38.2

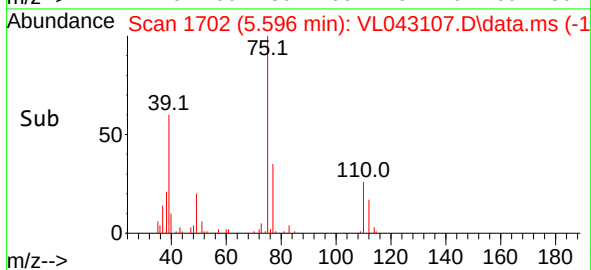
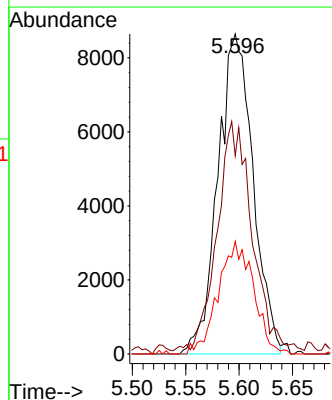
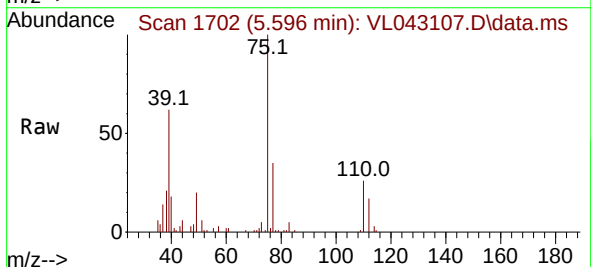
Manual Integrations  
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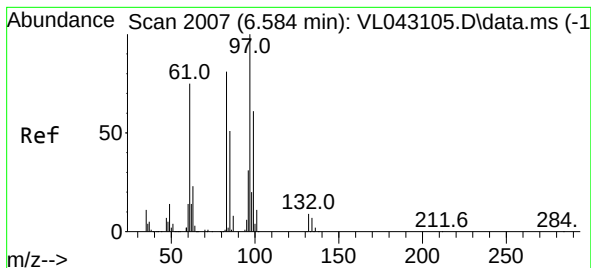
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 1.029 ppbv  
 RT: 5.596 min Scan# 1702  
 Delta R.T. -0.010 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Tgt Ion: 75 Resp: 19830  
 Ion Ratio Lower Upper  
 75 100  
 39 59.6 51.0 76.6  
 77 35.1 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 1.030 ppbv

RT: 6.577 min Scan# 2005

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

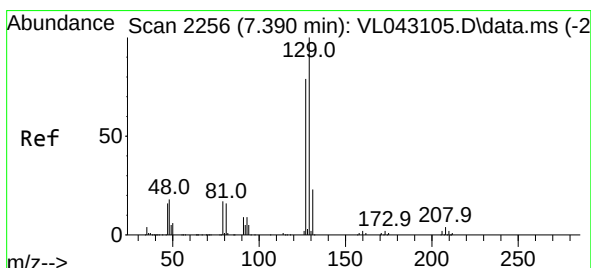
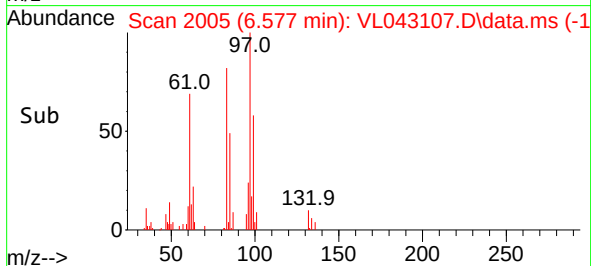
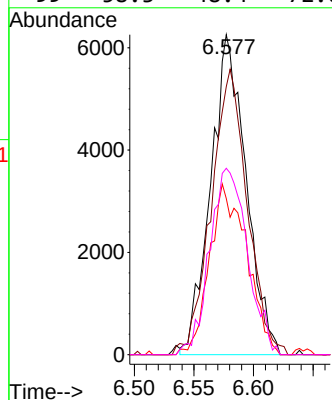
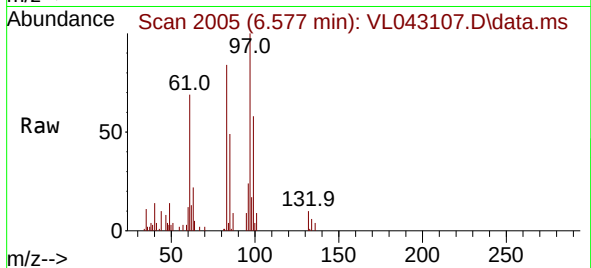
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 12870 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 80.9     | 64.6 96.8   |
| 85 48.8     | 40.6 60.8   |
| 99 58.3     | 48.4 72.6   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Dibromochloromethane

Concen: 1.046 ppbv

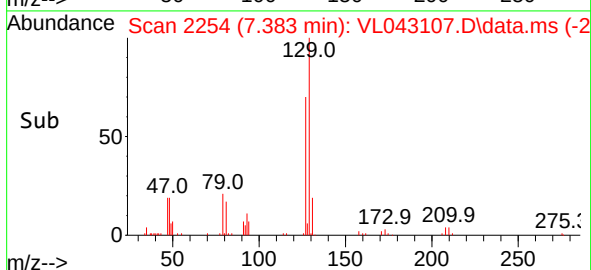
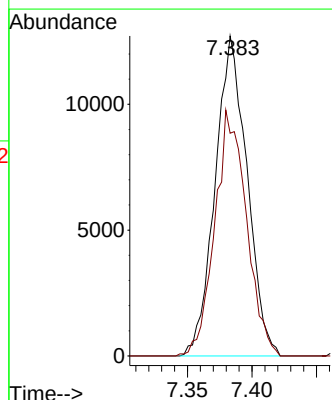
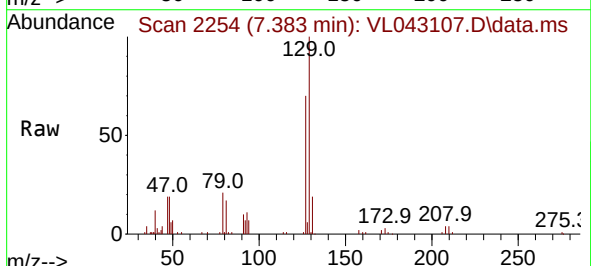
RT: 7.383 min Scan# 2254

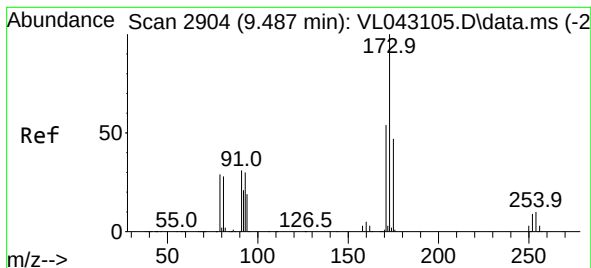
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

|             |             |       |  |
|-------------|-------------|-------|--|
| Tgt Ion:129 | Resp: 21874 |       |  |
| Ion Ratio   | Lower       | Upper |  |
| 129 100     |             |       |  |
| 127 76.1    | 39.3        | 117.9 |  |





#49

Bromoform

Concen: 1.019 ppbv

RT: 9.480 min Scan# 2904

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

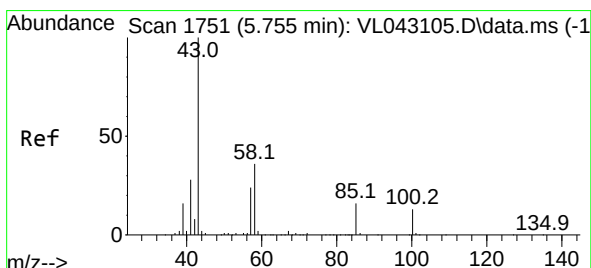
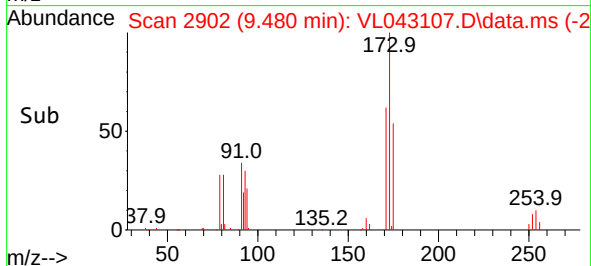
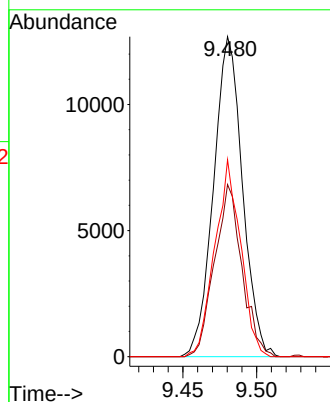
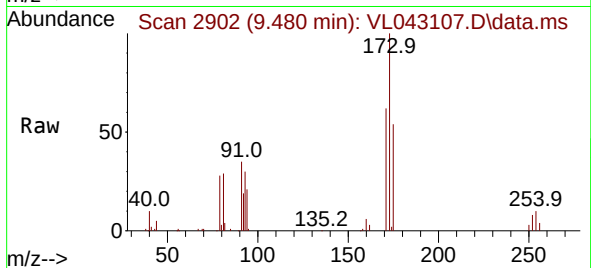
VSTDICC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 17320 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 50.9  | 38.8  | 58.2  |
| 171       | 55.0  | 41.7  | 62.5  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#50

4-Methyl-2-Pentanone

Concen: 1.061 ppbv m

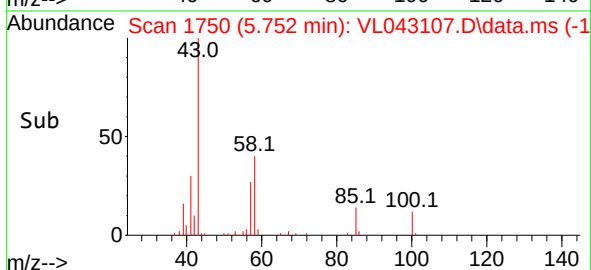
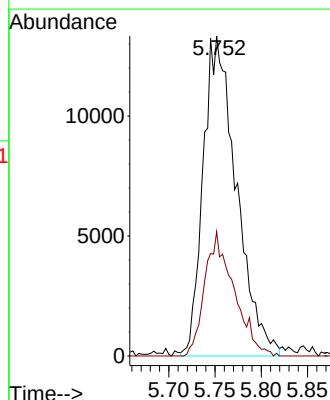
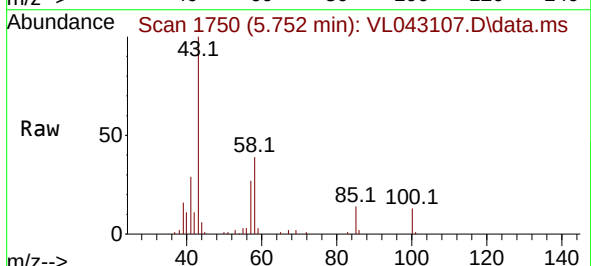
RT: 5.752 min Scan# 1750

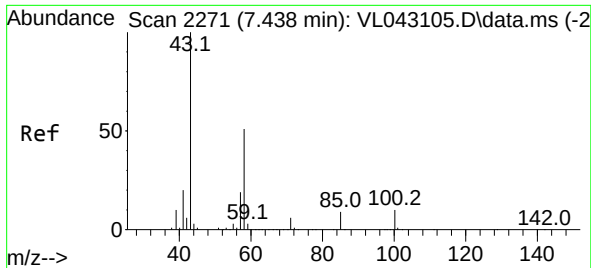
Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 33269 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 0.0   | 29.1  | 43.7# |





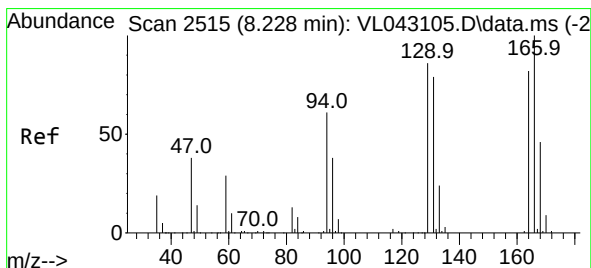
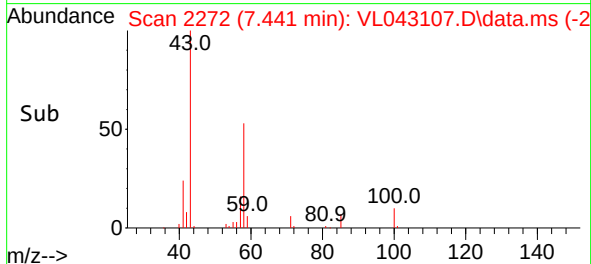
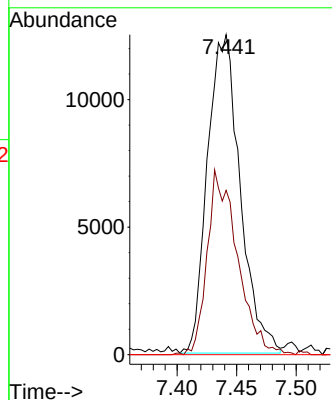
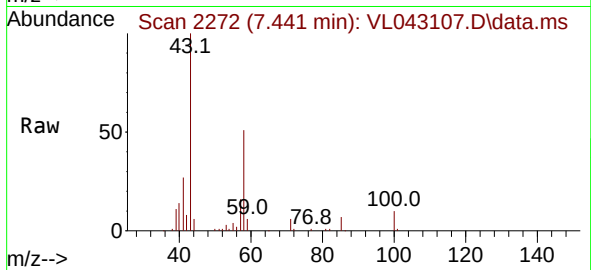
#51  
2-Hexanone  
Concen: 1.018 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 43 Resp: 2381  
Ion Ratio Lower Upper  
43 100  
58 53.7 40.4 60.6  
98 0.0 0.1 0.1

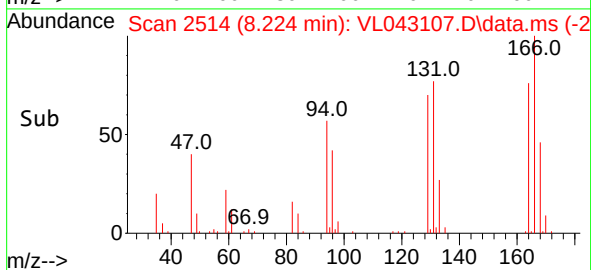
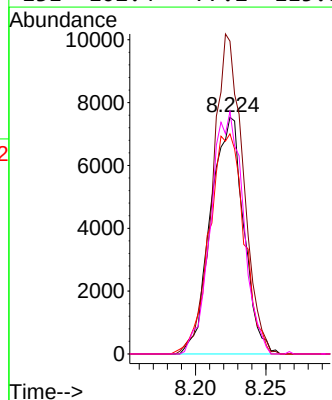
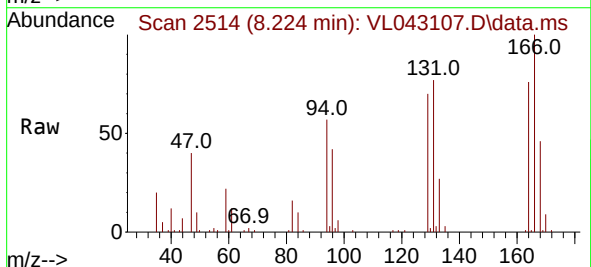
Manual Integrations  
APPROVED

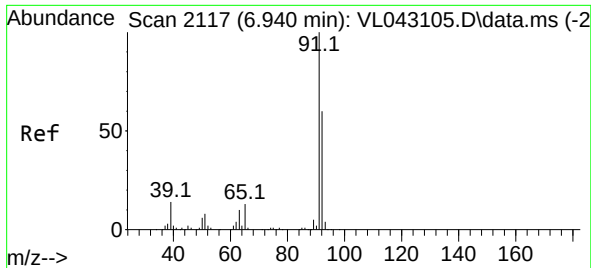
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#52  
Tetrachloroethene  
Concen: 1.079 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

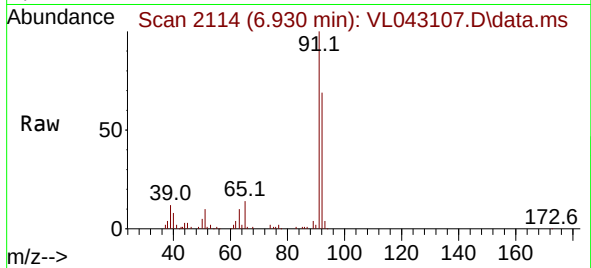
Tgt Ion:164 Resp: 12319  
Ion Ratio Lower Upper  
164 100  
166 132.1 97.6 146.4  
129 93.0 84.5 126.7  
131 102.4 77.2 115.8





#53  
Toluene  
Concen: 1.040 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

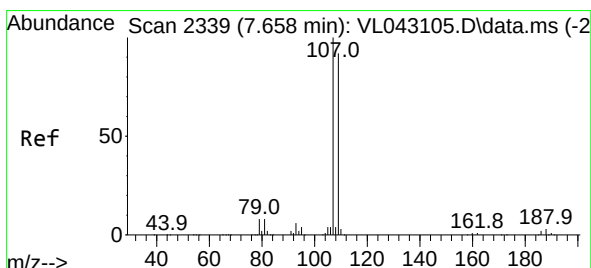
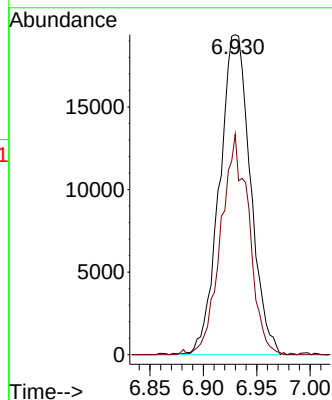
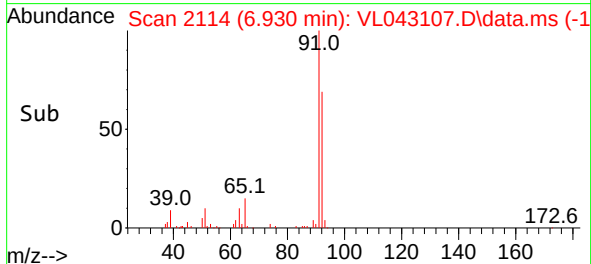
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



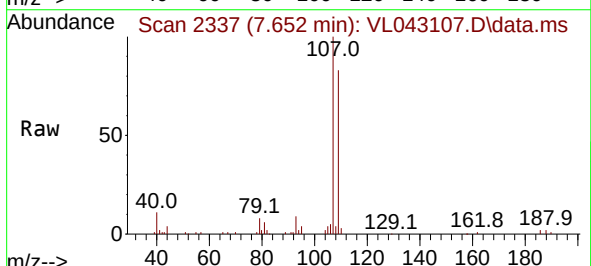
Tgt Ion: 91 Resp: 39079  
Ion Ratio Lower Upper  
91 100  
92 62.8 48.8 73.2

Manual Integrations  
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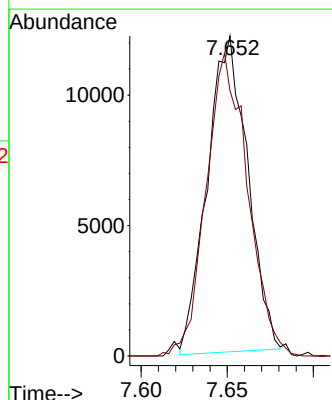
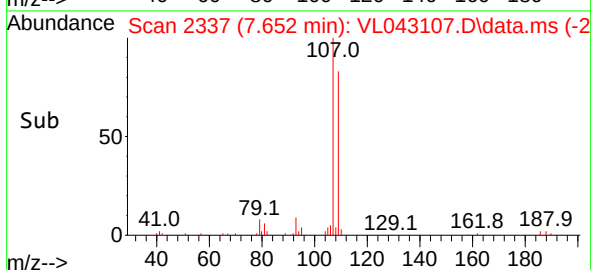
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

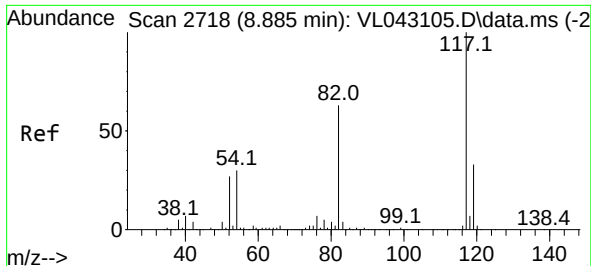


#54  
1,2-Dibromoethane  
Concen: 0.999 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



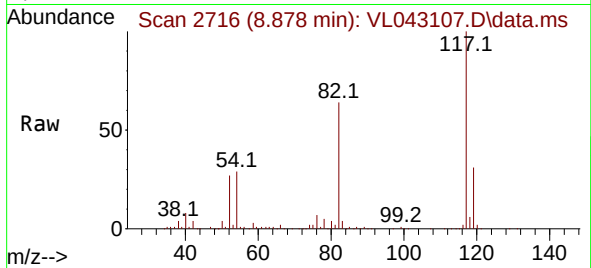
Tgt Ion:107 Resp: 19711  
Ion Ratio Lower Upper  
107 100  
109 80.7 73.4 110.2





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

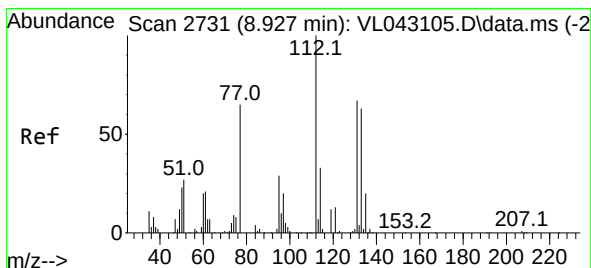
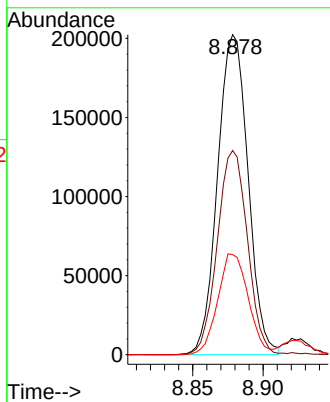
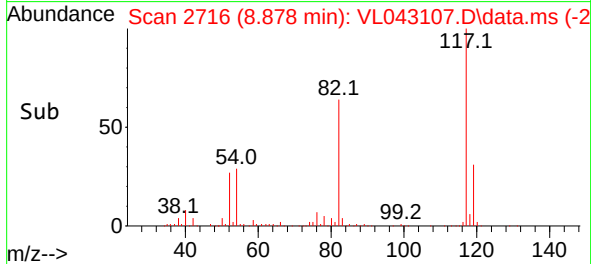
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



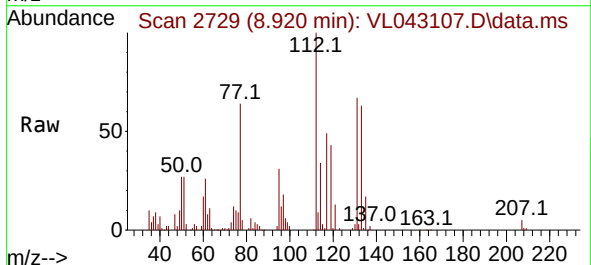
Tgt Ion:117 Resp: 305409  
Ion Ratio Lower Upper  
117 100  
82 63.4 53.8 80.8  
119 32.3 25.4 38.0

Manual Integrations  
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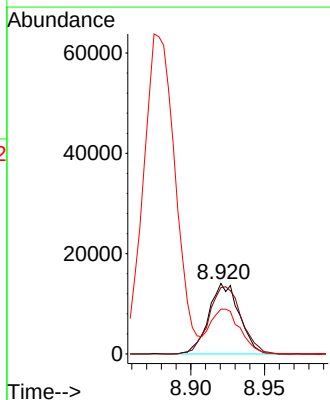
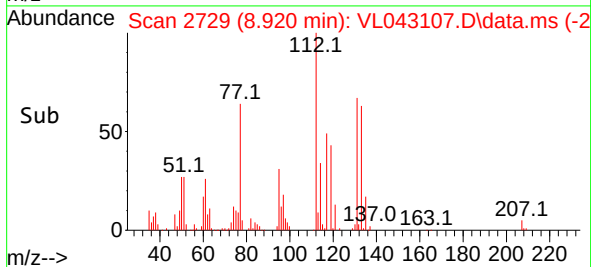
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

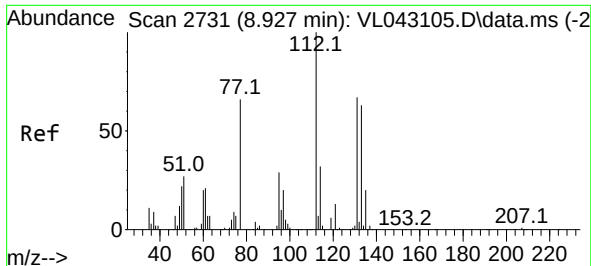


#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.053 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



Tgt Ion:131 Resp: 20279  
Ion Ratio Lower Upper  
131 100  
133 100.9 75.7 113.5  
119 62.1 50.6 76.0





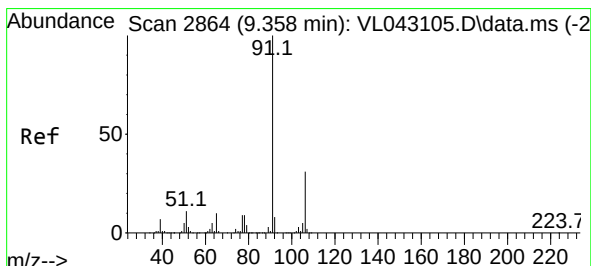
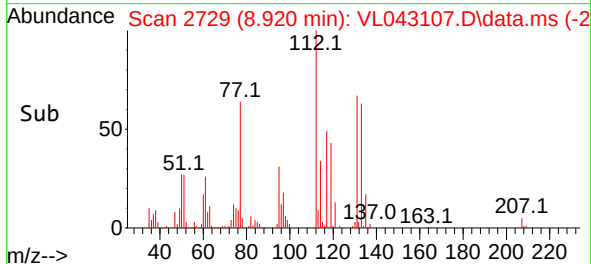
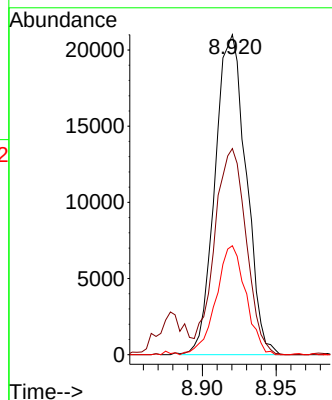
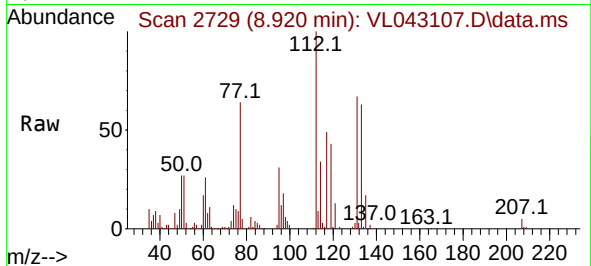
#57  
Chlorobenzene  
Concen: 1.079 ppbv  
RT: 8.920 min Scan# 2731  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:112 Resp: 30824  
Ion Ratio Lower Upper  
112 100  
77 64.2 53.3 79.9  
114 34.1 29.3 35.8

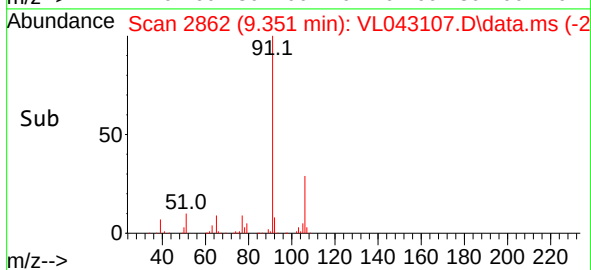
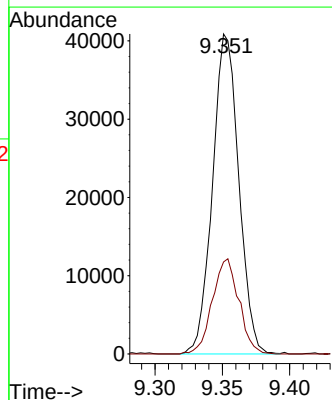
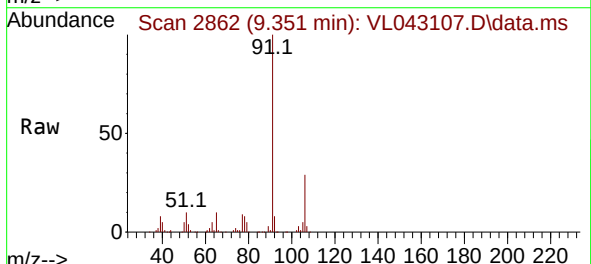
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

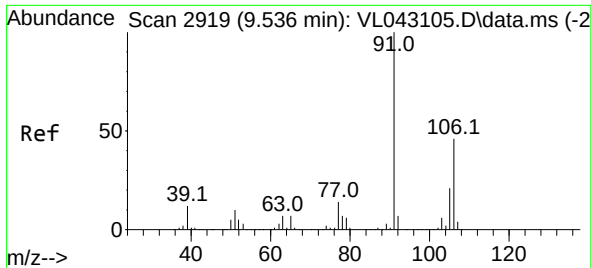


#58  
Ethyl Benzene  
Concen: 1.049 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 55420  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.8 37.2







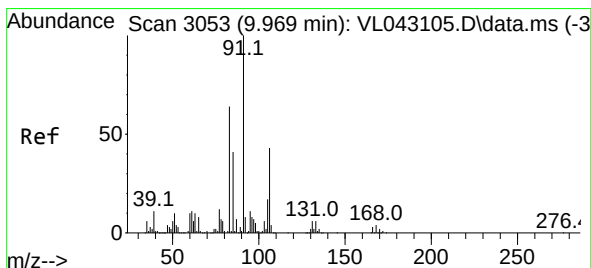
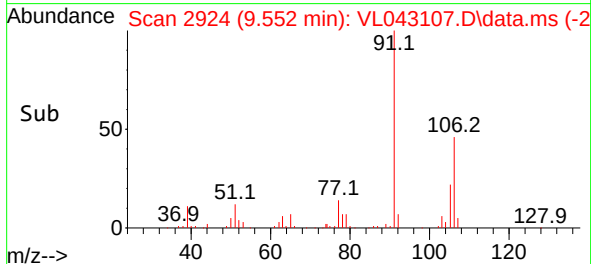
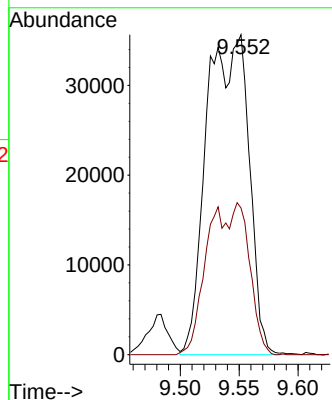
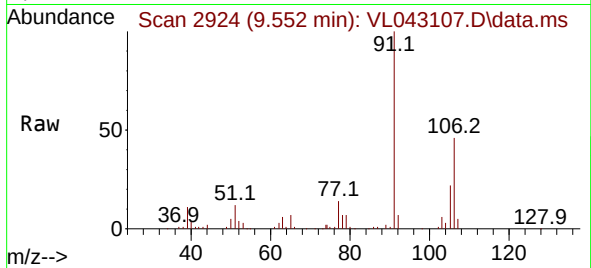
#59  
m/p-Xylene  
Concen: 2.127 ppbv m  
RT: 9.552 min Scan# 2919  
Delta R.T. 0.016 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 91 Resp: 88998  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

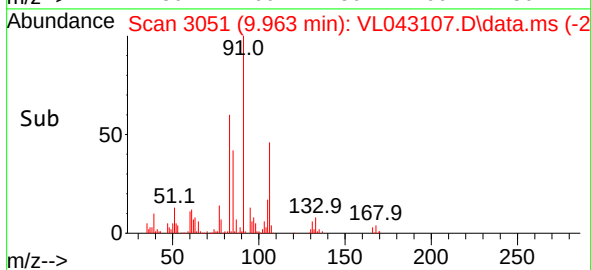
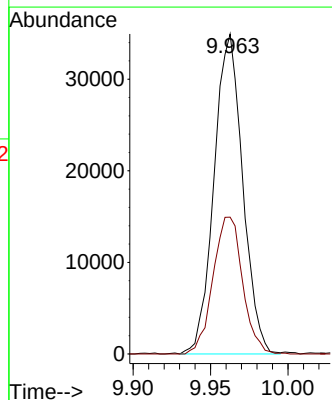
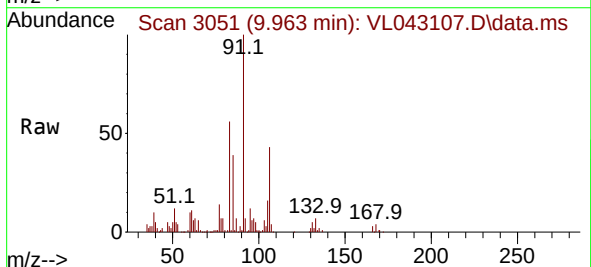
Manual Integrations  
APPROVED

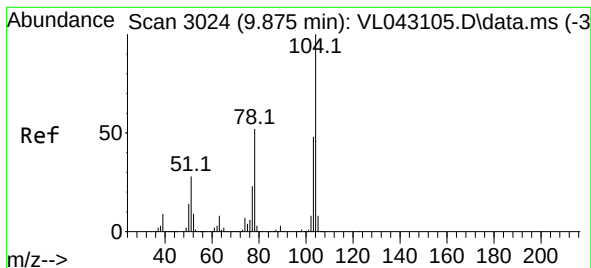
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#60  
o-Xylene  
Concen: 1.088 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 44925  
Ion Ratio Lower Upper  
91 100  
106 44.1 21.9 65.8





#61

Styrene

Concen: 1.063 ppbv

RT: 9.869 min Scan# 3024

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

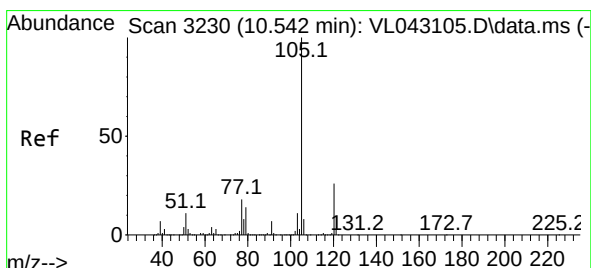
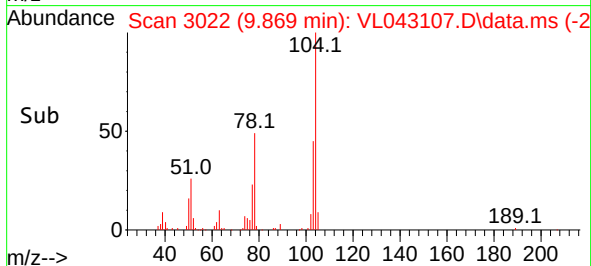
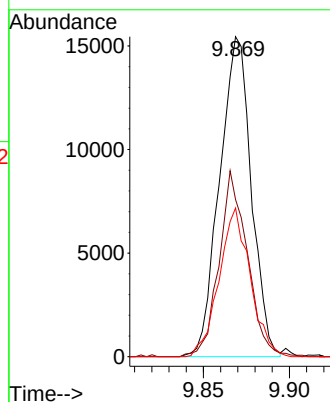
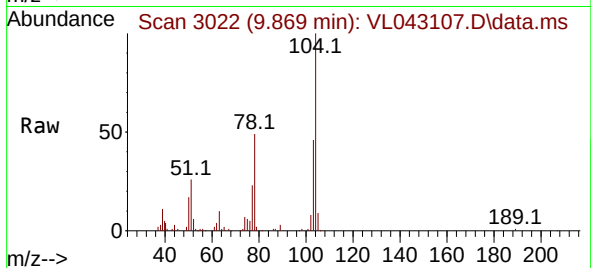
VSTDIC001

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 19809     |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 51.8  | 40.2 60.2 |
| 103         | 45.5  | 36.9 55.3 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#62

Isopropylbenzene

Concen: 1.093 ppbv

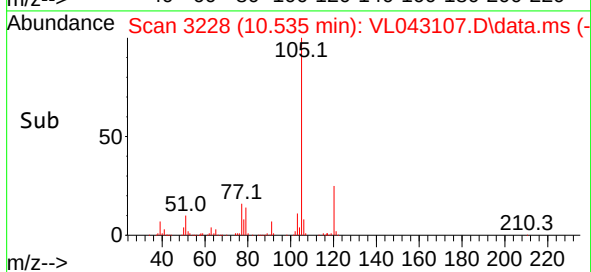
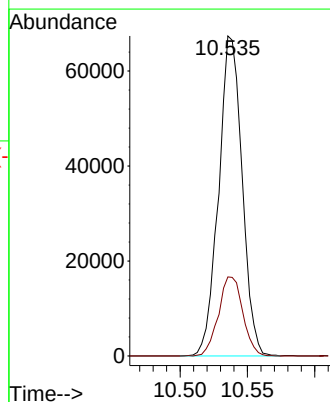
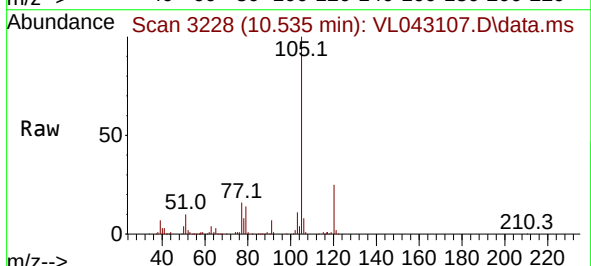
RT: 10.535 min Scan# 3228

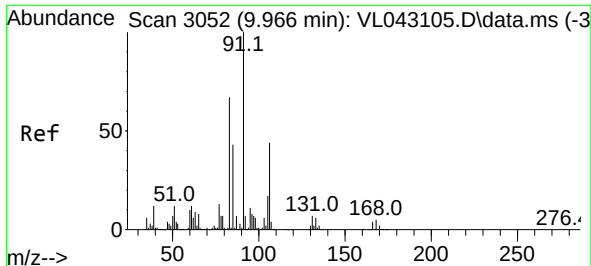
Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

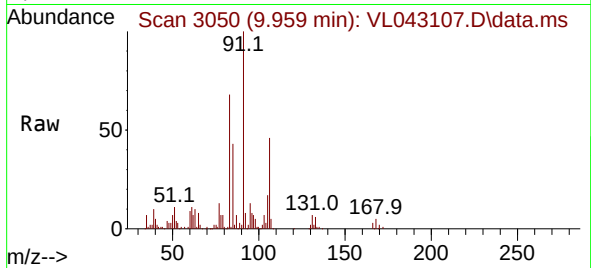
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 81579     |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 25.6  | 20.2 30.4 |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.021 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

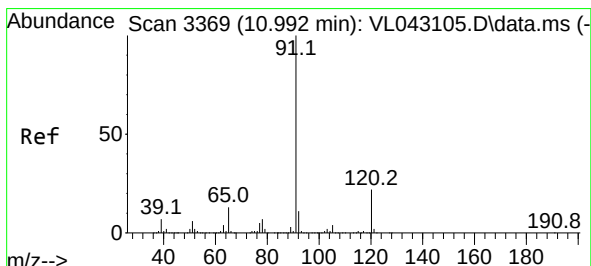
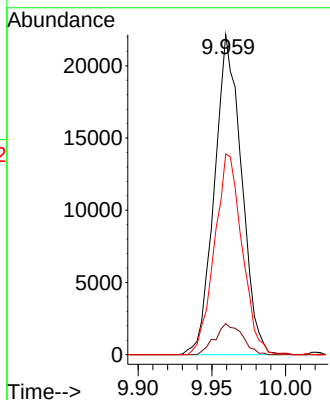
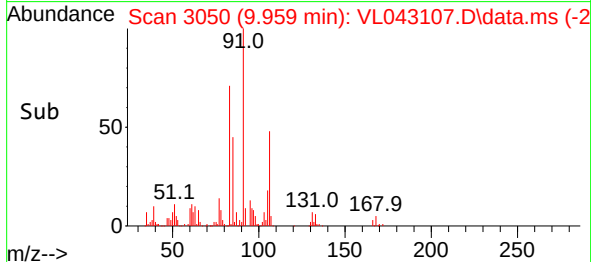
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC001



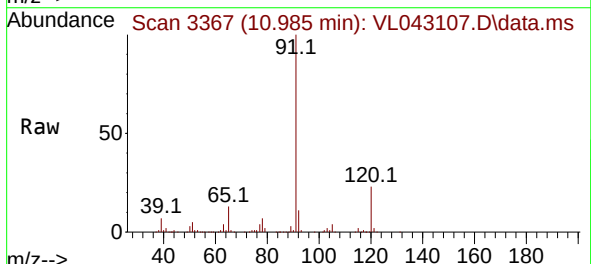
Tgt Ion: 83 Resp: 28230  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.3  
85 64.3 32.0 96.0

Manual Integrations  
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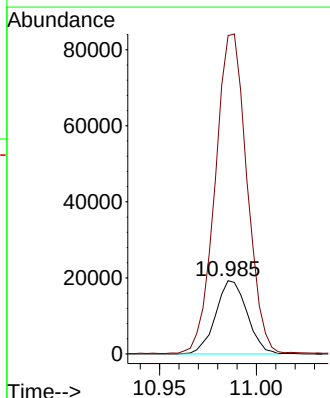
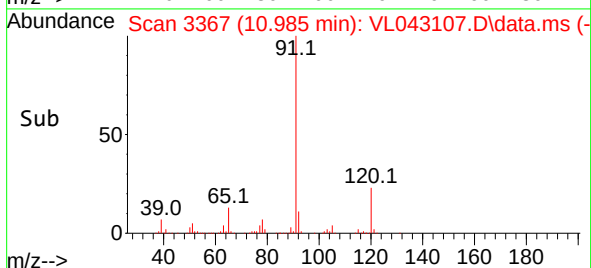
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

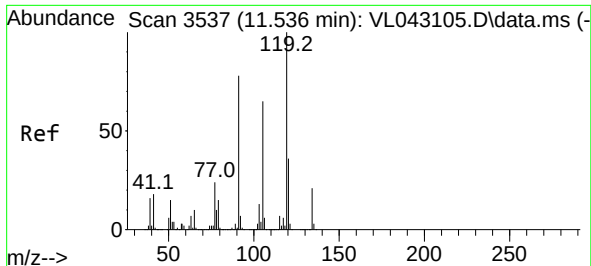


#64  
n-propylbenzene  
Concen: 1.098 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



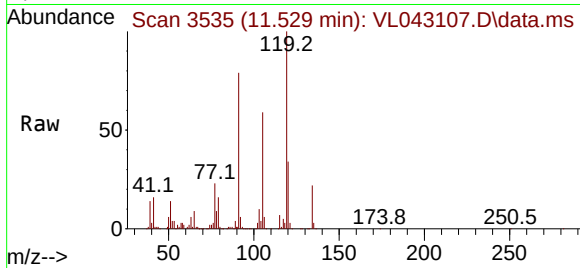
Tgt Ion:120 Resp: 21685  
Ion Ratio Lower Upper  
120 100  
91 446.5 361.6 542.4





#65  
tert-Butylbenzene  
Concen: 1.105 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

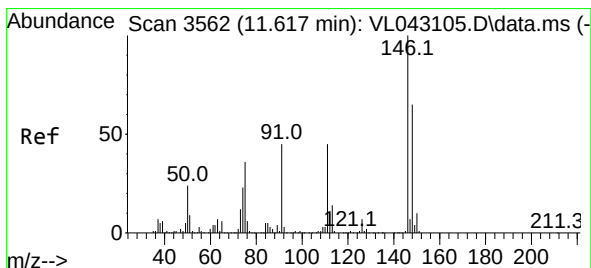
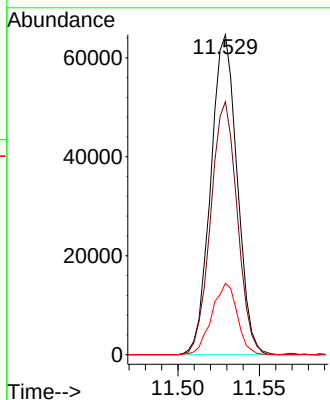
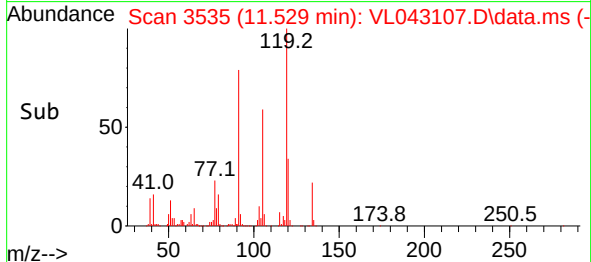
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



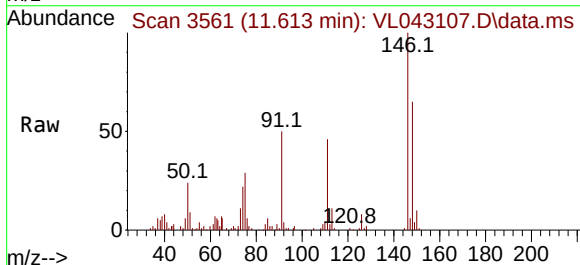
Tgt Ion: 119 Resp: 7278  
Ion Ratio Lower Upper  
119 100  
91 79.8 63.4 95.0  
134 21.5 17.3 25.9

Manual Integrations  
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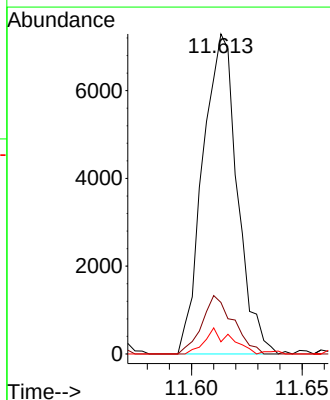
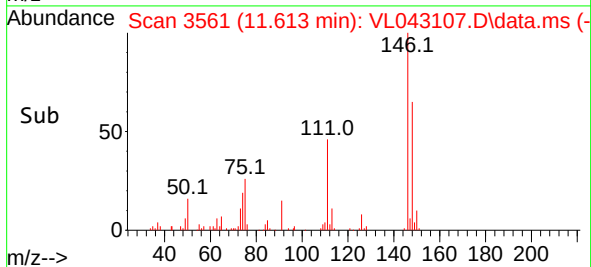
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

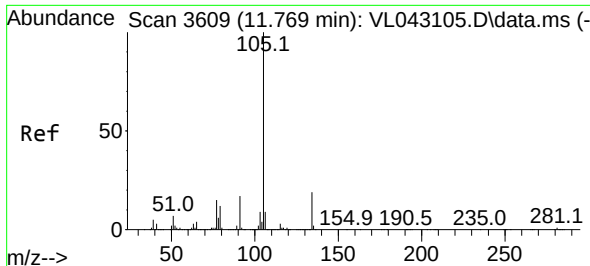


#66  
Benzyl Chloride  
Concen: 1.076 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



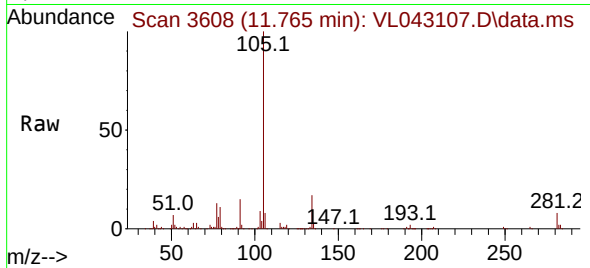
Tgt Ion: 91 Resp: 7918  
Ion Ratio Lower Upper  
91 100  
126 16.6 14.6 22.0  
128 6.6 4.6 6.8





#67  
 sec-Butylbenzene  
 Concen: 1.103 ppbv  
 RT: 11.765 min Scan# 3105  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

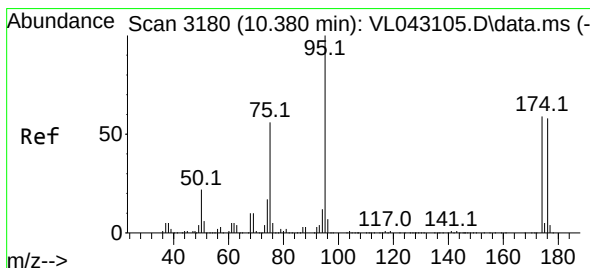
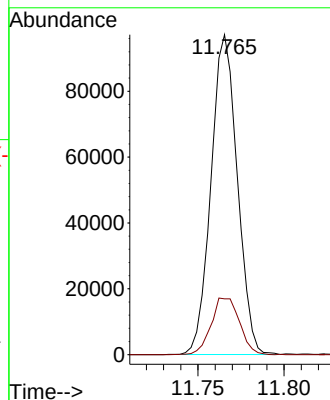
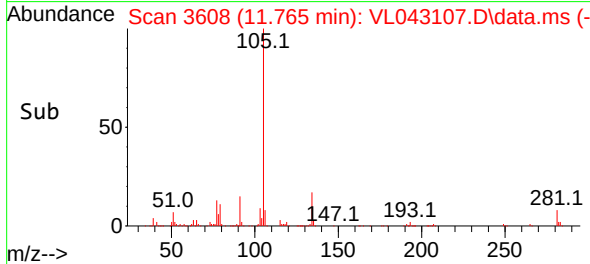
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion:105 Resp: 103152  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 15.5 23.3

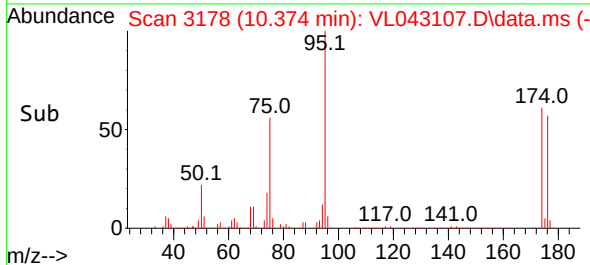
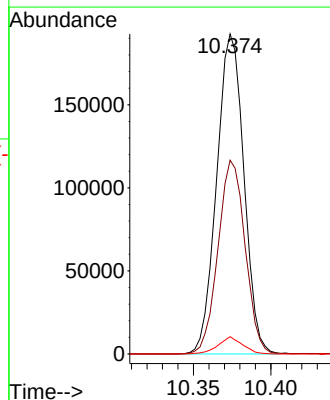
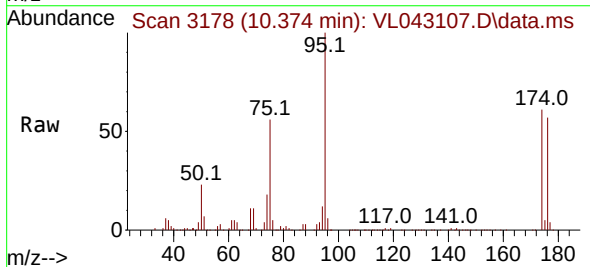
Manual Integrations  
 APPROVED

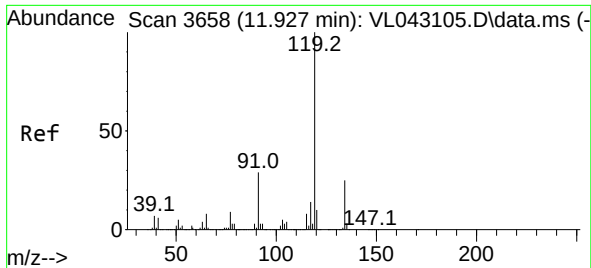
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.912 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. -0.007 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

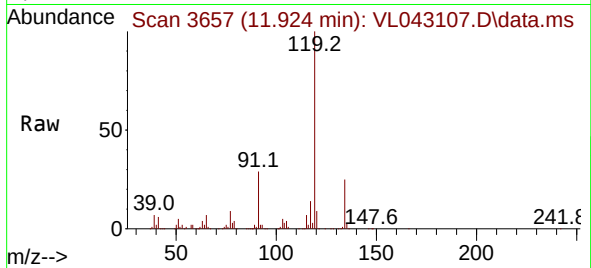
Tgt Ion: 95 Resp: 235307  
 Ion Ratio Lower Upper  
 95 100  
 174 60.3 48.3 72.5  
 175 4.8 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 1.113 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

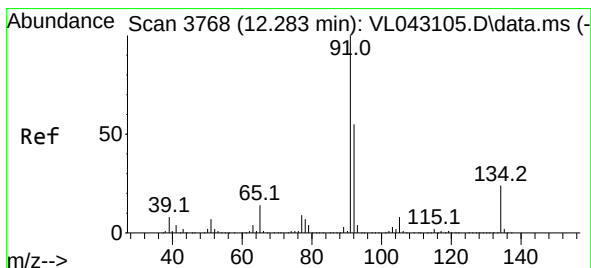
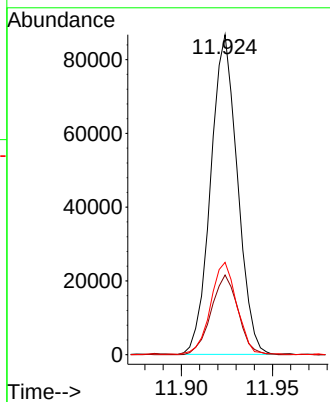
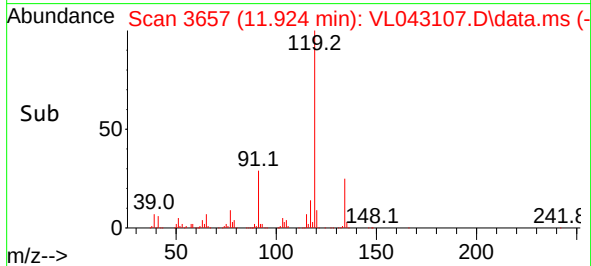
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



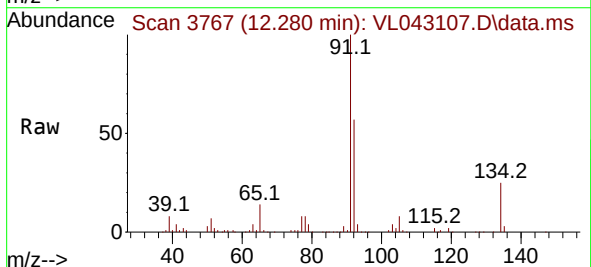
Tgt Ion:119 Resp: 8844  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.3 30.5  
91 28.9 22.6 33.8

Manual Integrations  
APPROVED

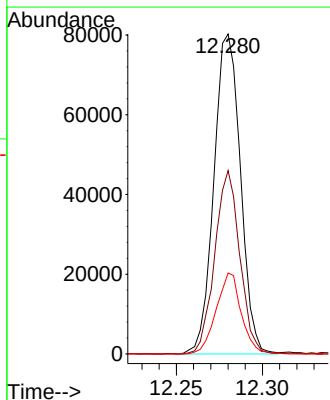
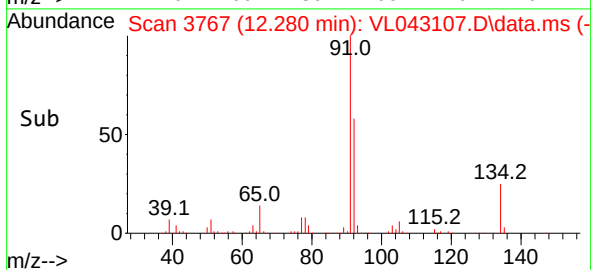
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

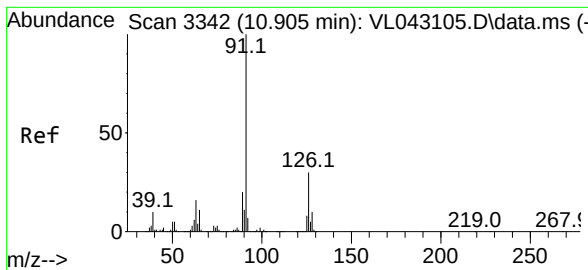


#70  
n-Butylbenzene  
Concen: 1.100 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



Tgt Ion: 91 Resp: 86120  
Ion Ratio Lower Upper  
91 100  
92 54.1 44.5 66.7  
134 23.9 19.3 28.9





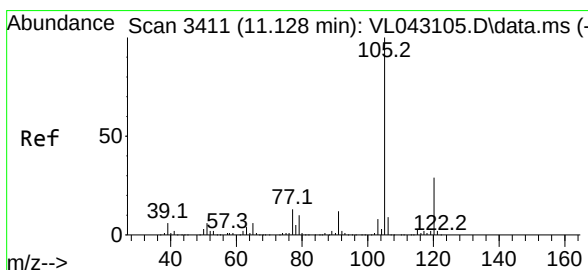
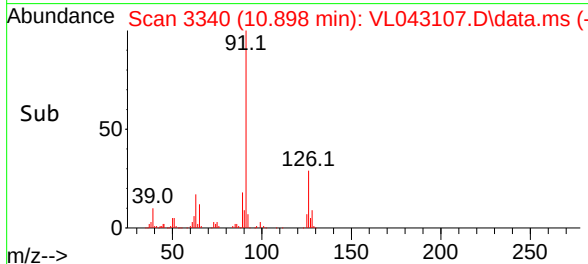
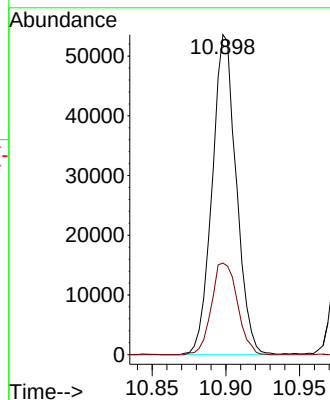
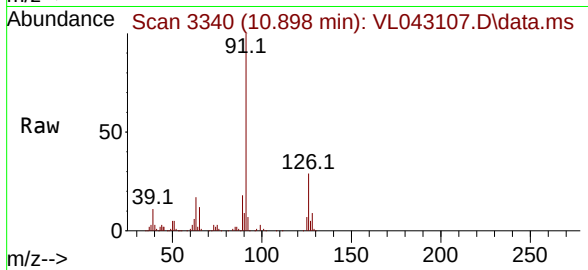
#71  
2-Chlorotoluene  
Concen: 1.072 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 60994  
Ion Ratio Lower Upper  
91 100  
126 30.8 12.0 48.0

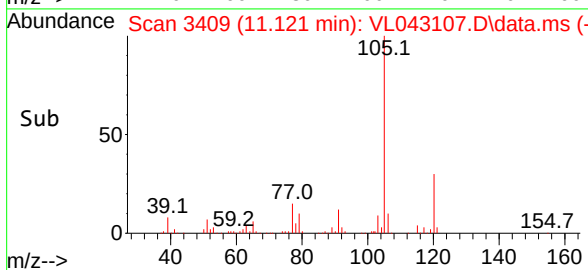
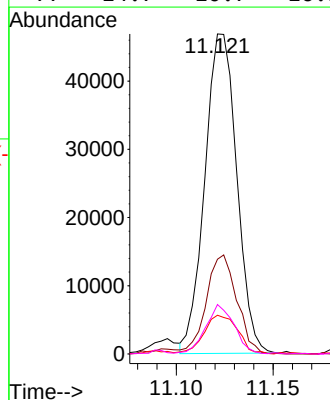
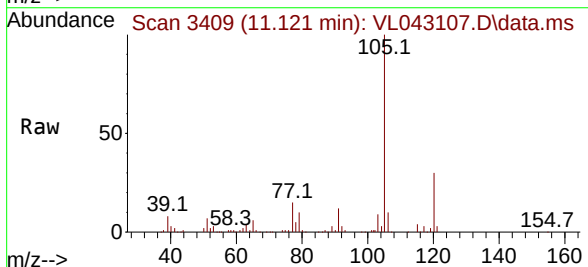
Manual Integrations  
APPROVED

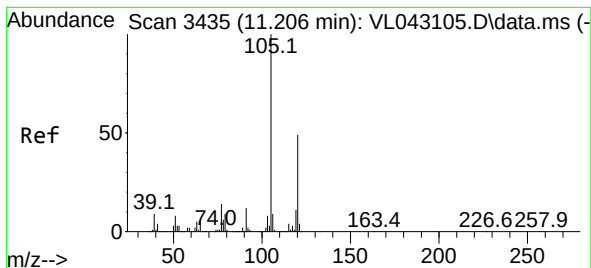
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#72  
4-Ethyltoluene  
Concen: 1.059 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 53788  
Ion Ratio Lower Upper  
105 100  
120 31.0 24.2 36.4  
91 14.0 10.0 15.0  
77 14.7 10.7 16.1





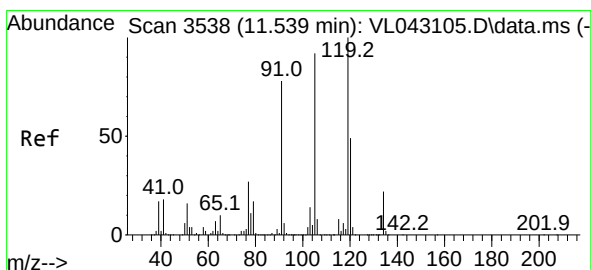
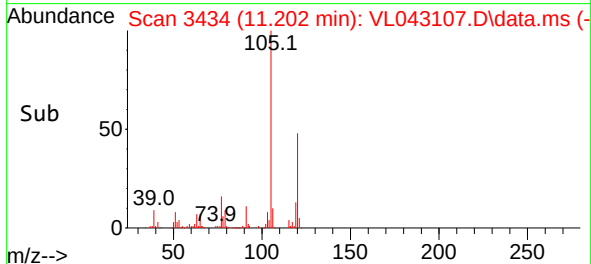
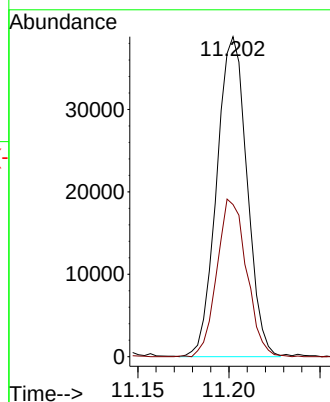
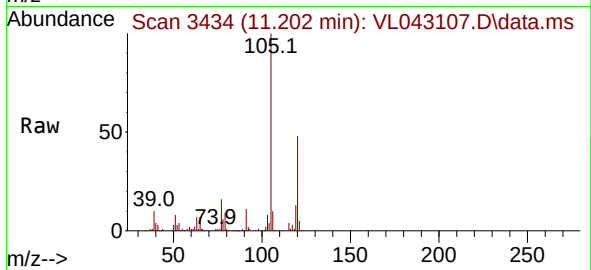
#73  
1,3,5-Trimethylbenzene  
Concen: 1.070 ppbv  
RT: 11.202 min Scan# 3435  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion:105 Resp: 44780  
Ion Ratio Lower Upper  
105 100  
120 47.3 39.0 58.6

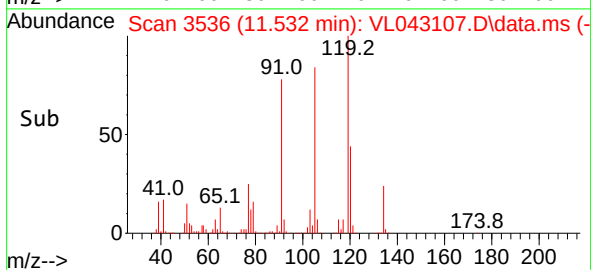
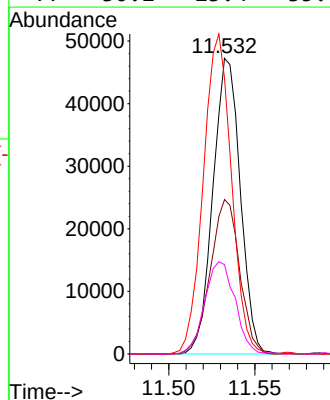
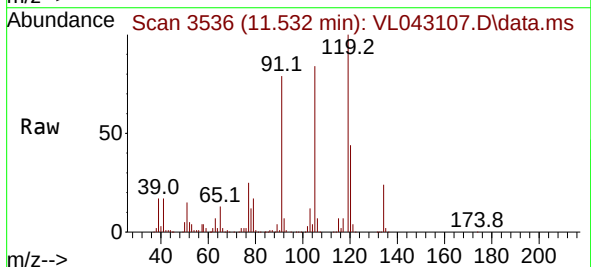
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

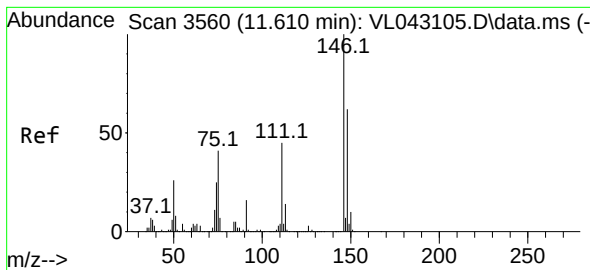


#74  
1,2,4-Trimethylbenzene  
Concen: 1.112 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118  
Ion Ratio Lower Upper  
105 100  
120 52.2 42.8 64.2  
91 93.1 68.3 102.5  
77 30.2 23.4 35.0







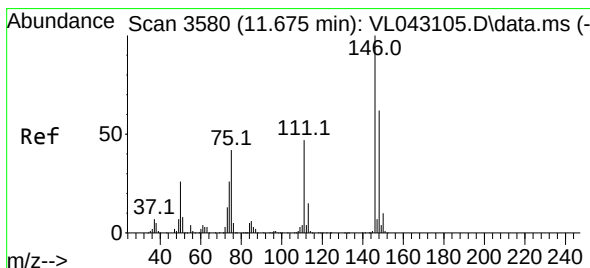
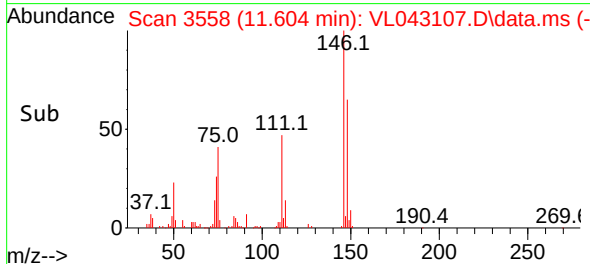
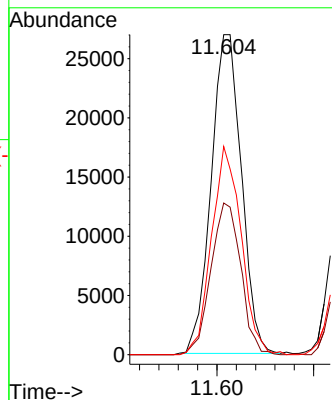
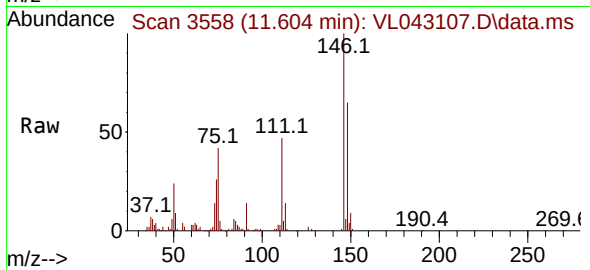
#75  
1,3-Dichlorobenzene  
Concen: 1.074 ppbv  
RT: 11.604 min Scan# 3558  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion:146 Resp: 29180  
Ion Ratio Lower Upper  
146 100  
111 47.0 23.3 69.9  
148 64.0 31.6 95.0

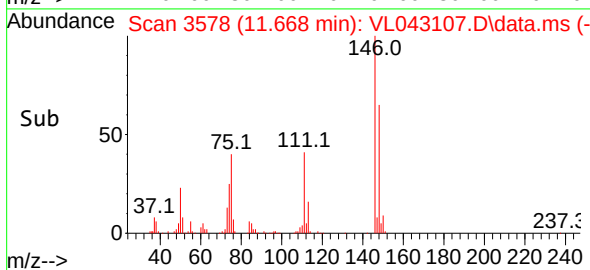
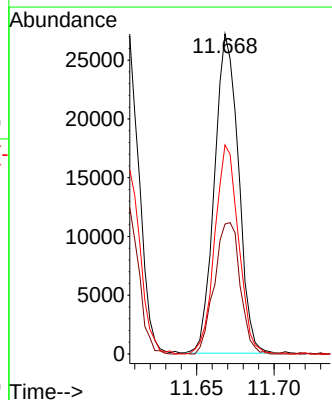
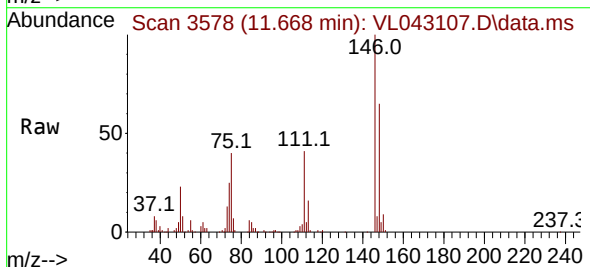
Manual Integrations  
APPROVED

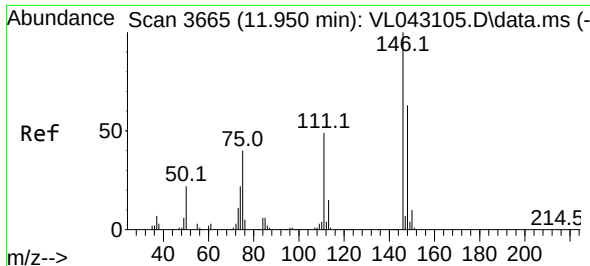
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#76  
1,4-Dichlorobenzene  
Concen: 1.066 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

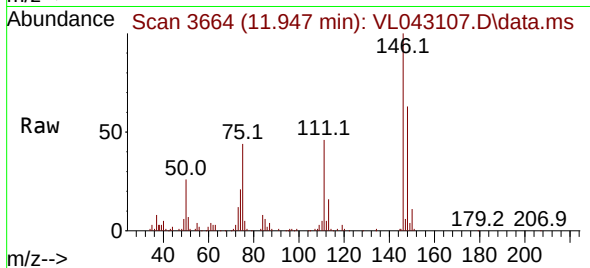
Tgt Ion:146 Resp: 29225  
Ion Ratio Lower Upper  
146 100  
111 44.2 22.4 67.0  
148 65.0 31.6 94.7





#77  
1,2-Dichlorobenzene  
Concen: 1.109 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

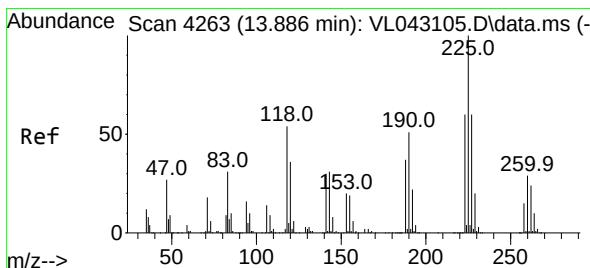
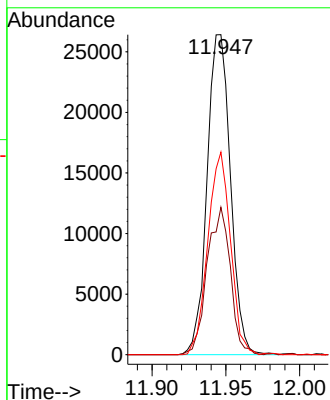
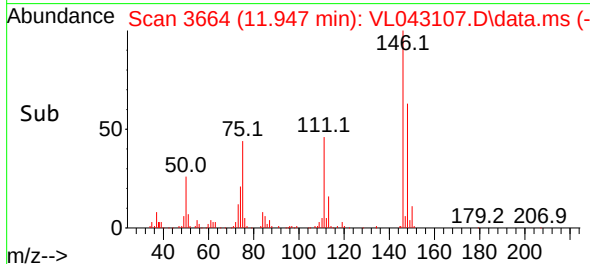
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



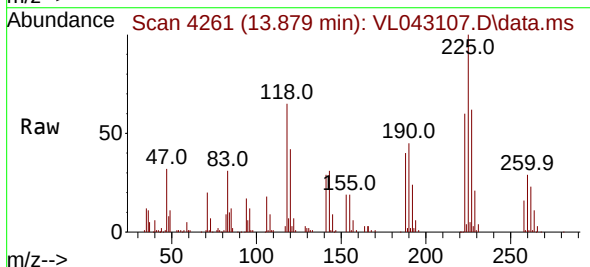
Tgt Ion:146 Resp: 29140  
Ion Ratio Lower Upper  
146 100  
111 45.8 24.0 72.0  
148 61.5 31.1 93.3

Manual Integrations  
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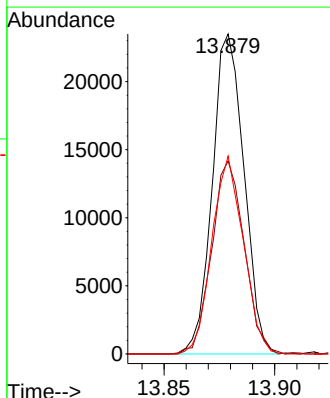
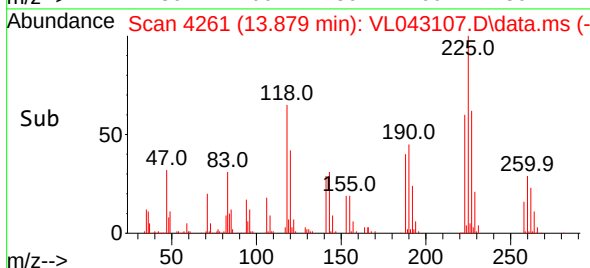
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

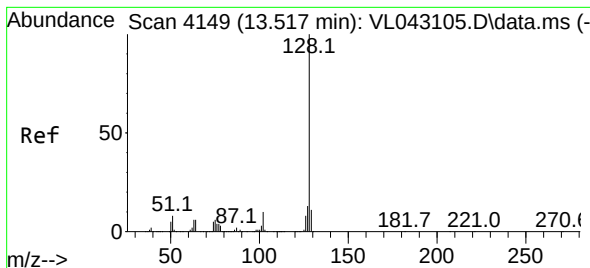


#78  
Hexachloro-1,3-Butadiene  
Concen: 1.146 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01



Tgt Ion:225 Resp: 23330  
Ion Ratio Lower Upper  
225 100  
223 62.4 50.2 75.4  
227 61.6 49.6 74.4





#79

Naphthalene

Concen: 1.114 ppbv

RT: 13.510 min Scan# 4149

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

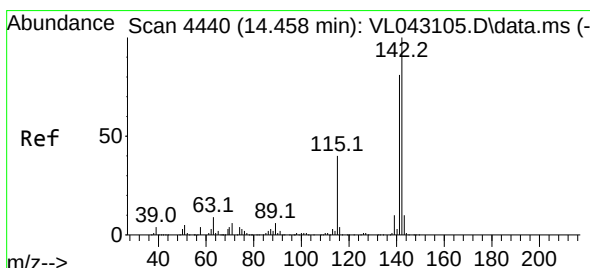
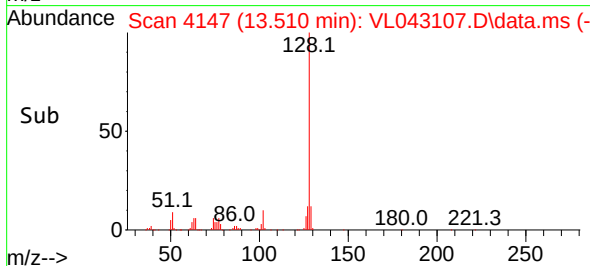
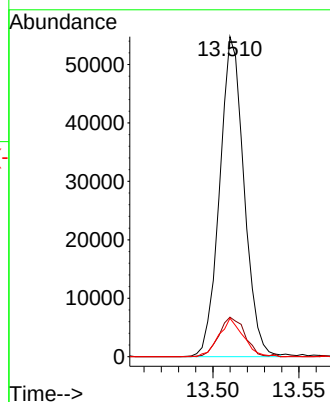
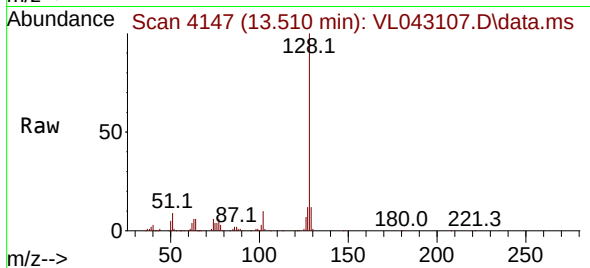
VSTDICC001

|             |             |
|-------------|-------------|
| Tgt Ion:128 | Resp: 53930 |
| Ion Ratio   | Lower Upper |
| 128 100     |             |
| 127 12.4    | 10.5 15.7   |
| 129 12.0    | 9.1 13.7    |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 0.849 ppbv

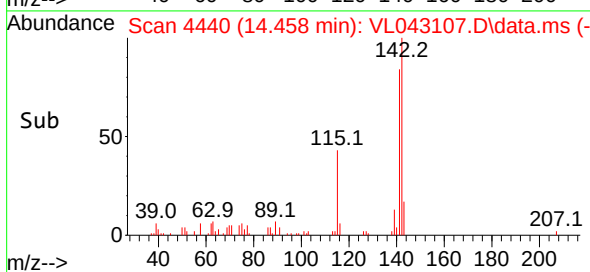
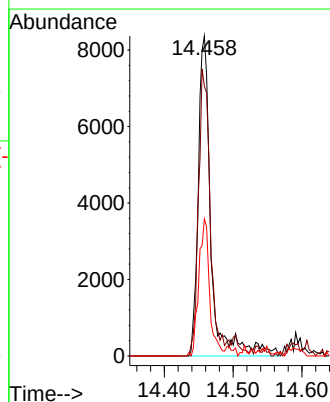
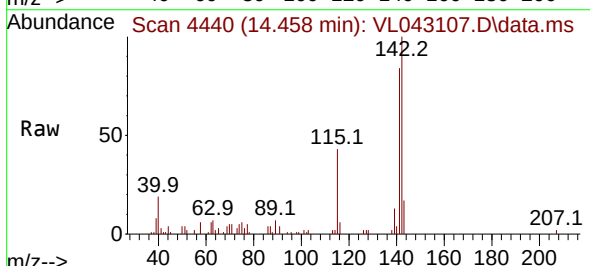
RT: 14.458 min Scan# 4440

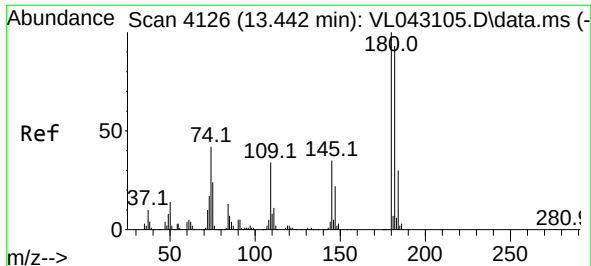
Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

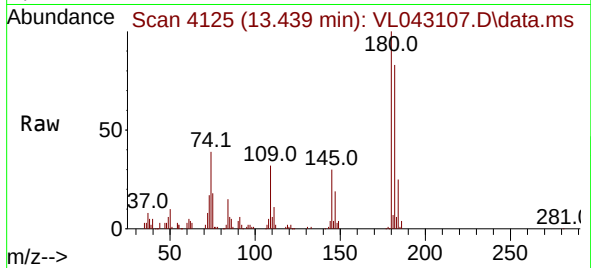
|             |             |
|-------------|-------------|
| Tgt Ion:142 | Resp: 10851 |
| Ion Ratio   | Lower Upper |
| 142 100     |             |
| 141 88.9    | 64.6 97.0   |
| 115 38.1    | 30.2 45.4   |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.090 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

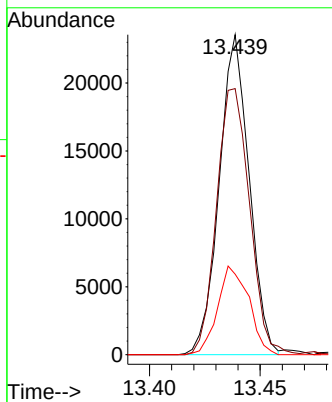
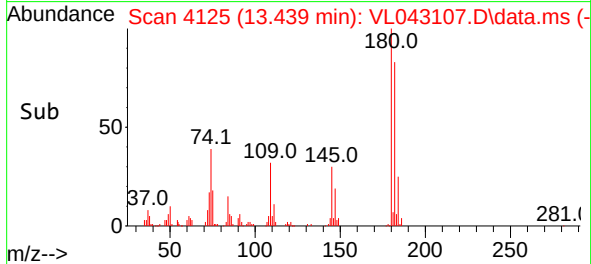
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 2216       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 92.5  | 75.5 113.3 |
| 184         | 28.8  | 23.9 35.9  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043108.D  
 Acq On : 14 Oct 2025 12:34  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 101636   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 336188   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 303445   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 232904   | 9.875    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.700% |

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 7851   | 0.543 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 8497   | 0.543 | ppbv # | 89     |
| 4) Chloromethane              | 1.534 | 50  | 3254   | 0.568 | ppbv # | 88     |
| 5) Vinyl Chloride             | 1.583 | 62  | 2857   | 0.509 | ppbv   | 96     |
| 6) Bromomethane               | 1.670 | 94  | 1709   | 0.555 | ppbv   | 100    |
| 7) Chloroethane               | 1.706 | 64  | 1326   | 0.578 | ppbv # | 85     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 5970   | 0.511 | ppbv   | 92     |
| 9) Propene                    | 1.486 | 41  | 3750   | 0.541 | ppbv   | 92     |
| 10) Heptane                   | 4.981 | 43  | 11097m | 0.558 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 7672   | 0.543 | ppbv   | 92     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 6173   | 0.543 | ppbv   | 100    |
| 13) Ethanol                   | 1.725 | 45  | 1468   | 0.572 | ppbv   | 86     |
| 14) Bromoethene               | 1.787 | 108 | 2444   | 0.578 | ppbv # | 90     |
| 15) Acetone                   | 1.839 | 43  | 7931   | 0.576 | ppbv # | 88     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 3962   | 0.607 | ppbv   | 91     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 10213  | 0.543 | ppbv # | 88     |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 2636   | 0.531 | ppbv   | 91     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 4932   | 0.578 | ppbv # | 43     |
| 20) Methylene Chloride        | 2.065 | 84  | 3750   | 0.693 | ppbv # | 75     |
| 21) Allyl Chloride            | 2.098 | 41  | 5575   | 0.551 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 3093   | 0.522 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.467 | 43  | 10914  | 0.544 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 5942   | 0.519 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.845 | 43  | 17918  | 0.527 | ppbv # | 96     |
| 26) Hexane                    | 2.829 | 57  | 8908   | 0.569 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.153 | 76  | 7230   | 0.504 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 3770   | 0.529 | ppbv # | 47     |
| 29) Chloroform                | 2.852 | 83  | 12384  | 0.546 | ppbv   | 100    |
| 30) Cyclohexane               | 3.862 | 84  | 7586m  | 0.556 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 7576   | 0.507 | ppbv # | 88     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 12234  | 0.518 | ppbv   | 97     |
| 34) 2-Butanone                | 2.564 | 43  | 12659  | 0.557 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 11931  | 0.494 | ppbv   | 87     |
| 36) Benzene                   | 3.661 | 78  | 16376  | 0.517 | ppbv   | 94     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 9907   | 0.543 | ppbv   | 99     |
| 38) Trichloroethene           | 4.554 | 130 | 6745   | 0.511 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 6032   | 0.521 | ppbv # | 80     |
| 40) 1,4-Dioxane               | 4.609 | 88  | 2794m  | 0.539 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.065 | 42  | 7174m  | 0.565 | ppbv   |        |
| 42) Bromodichloromethane      | 4.496 | 83  | 13094  | 0.519 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.888 | 69  | 8412m  | 0.521 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 28494m | 0.538 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.425 | 75  | 8030   | 0.498 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043108.D  
 Acq On : 14 Oct 2025 12:34  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 9973m    | 0.518 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 6996     | 0.560 | ppbv   | 92       |
| 48) Dibromochloromethane      | 7.393  | 129  | 10413    | 0.498 | ppbv   | 96       |
| 49) Bromoform                 | 9.487  | 173  | 8455     | 0.498 | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 5.771  | 43   | 16289m   | 0.520 | ppbv   |          |
| 51) 2-Hexanone                | 7.451  | 43   | 11485    | 0.491 | ppbv # | 94       |
| 52) Tetrachloroethene         | 8.231  | 164  | 5863     | 0.513 | ppbv # | 90       |
| 53) Toluene                   | 6.936  | 91   | 20380    | 0.542 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 9586     | 0.486 | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 10044    | 0.525 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.927  | 112  | 15318    | 0.540 | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.357  | 91   | 27330    | 0.521 | ppbv   | 91       |
| 59) m/p-Xylene                | 9.539  | 91   | 44407m   | 1.068 | ppbv   |          |
| 60) o-Xylene                  | 9.969  | 91   | 21745    | 0.530 | ppbv   | 96       |
| 61) Styrene                   | 9.878  | 104  | 9052     | 0.489 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.542 | 105  | 38899    | 0.525 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 13653    | 0.497 | ppbv   | 97       |
| 64) n-propylbenzene           | 10.992 | 120  | 10435    | 0.532 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 35537    | 0.543 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.620 | 91   | 3477     | 0.476 | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 50259    | 0.541 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 41366    | 0.524 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 39620    | 0.509 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 29722    | 0.526 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 26408    | 0.524 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 21754    | 0.523 | ppbv   | 89       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 25663    | 0.551 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 13697    | 0.507 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 14514    | 0.533 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 14324    | 0.548 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 11400    | 0.564 | ppbv   | 98       |
| 79) Naphthalene               | 13.516 | 128  | 23247    | 0.483 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 3874     | 0.305 | ppbv # | 84       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 8395     | 0.416 | ppbv   | 98       |

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

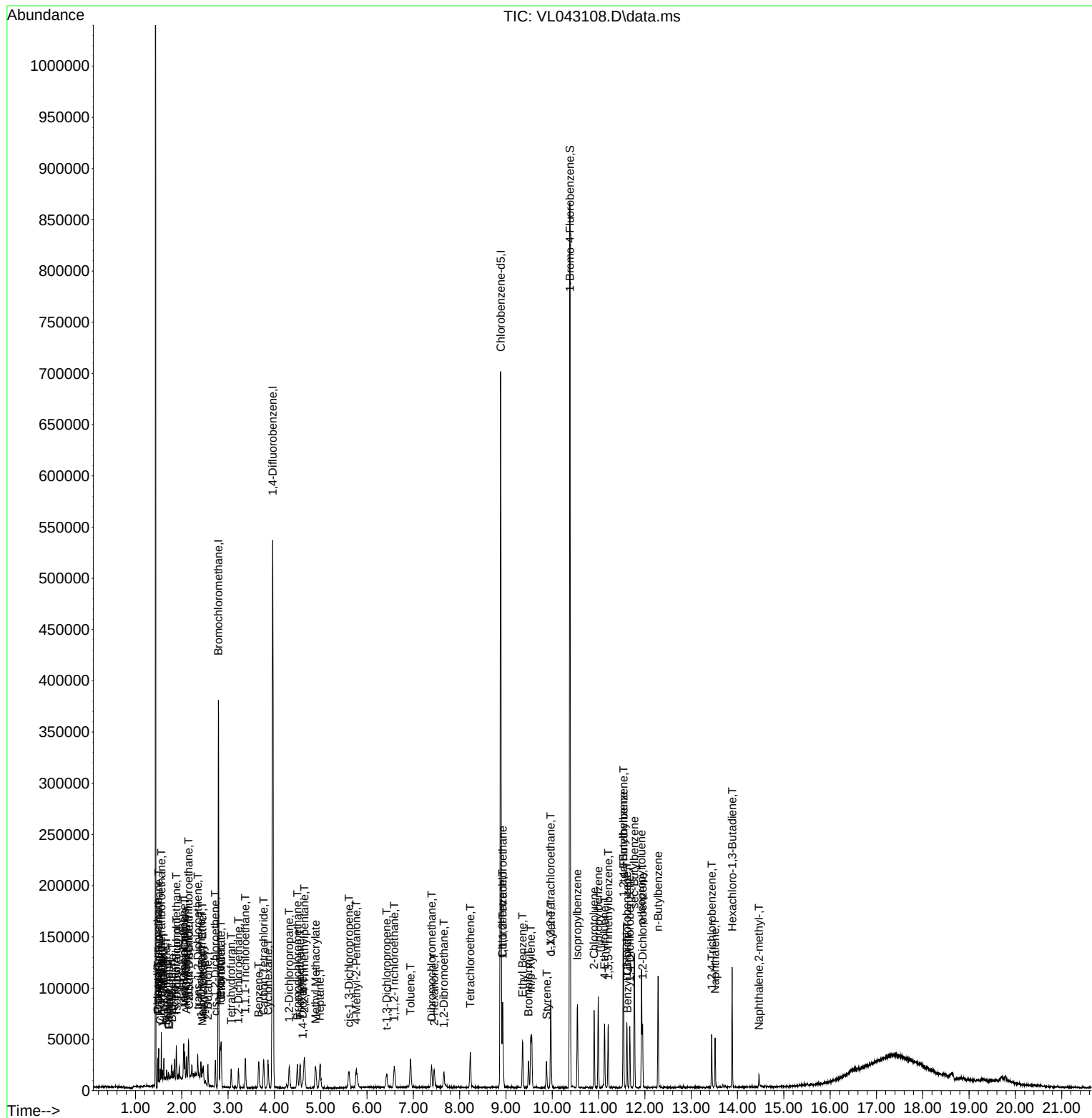
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Acq On : 14 Oct 2025 12:34  
Operator : SY/MD  
Sample : VSTDIC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

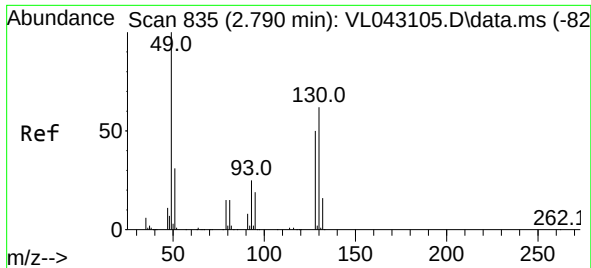
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:53:33 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 01:49:43 2025  
Response via : Initial Calibration





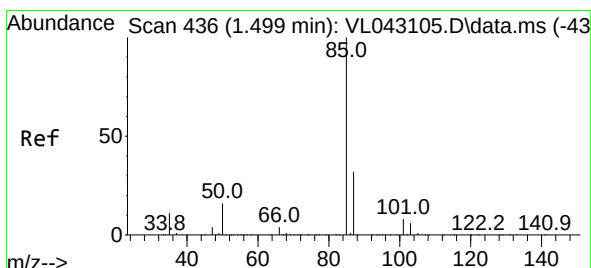
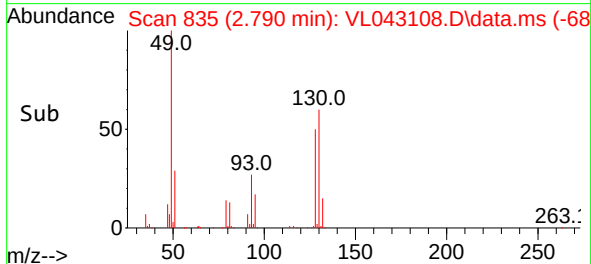
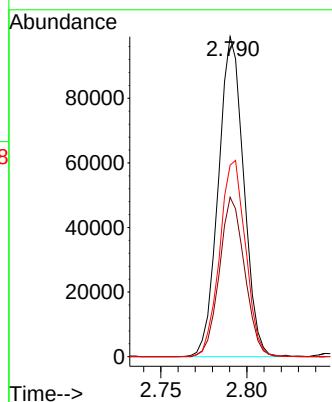
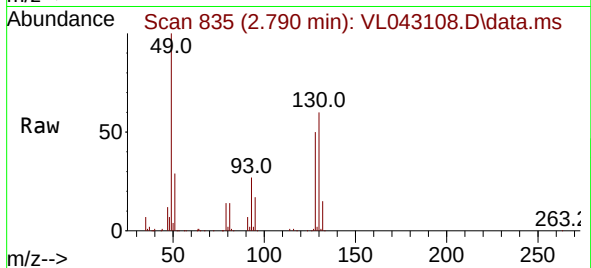
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 49 Resp: 101630  
Ion Ratio Lower Upper  
49 100  
128 49.5 24.4 73.4  
130 62.5 31.0 93.0

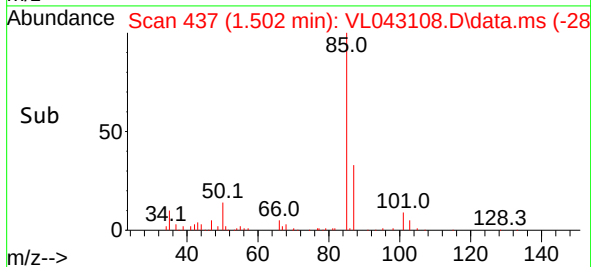
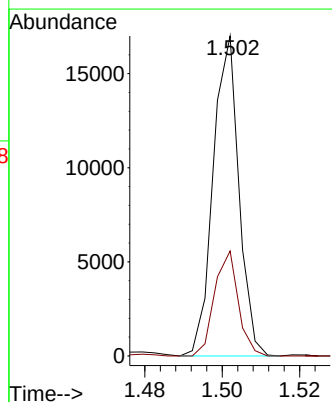
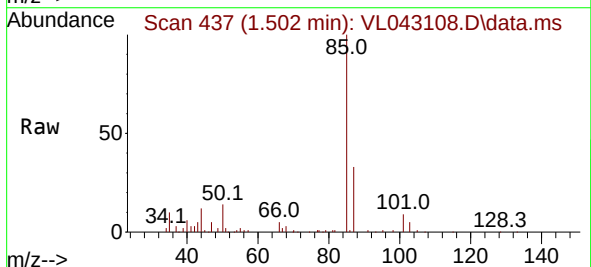
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

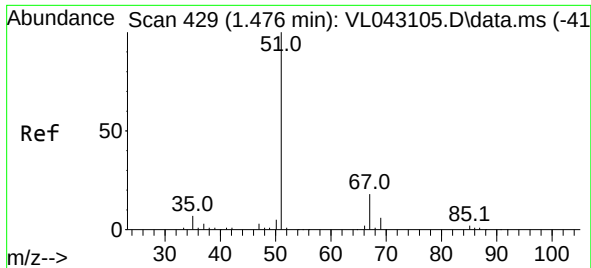


#2  
Dichlorodifluoromethane  
Concen: 0.543 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 7851  
Ion Ratio Lower Upper  
85 100  
87 32.8 25.3 37.9







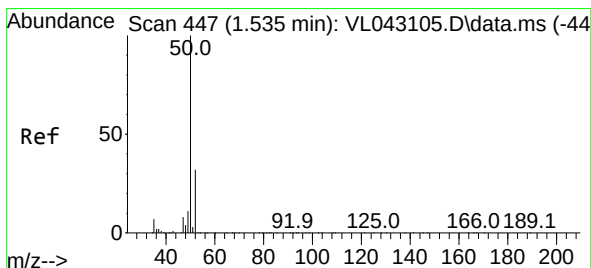
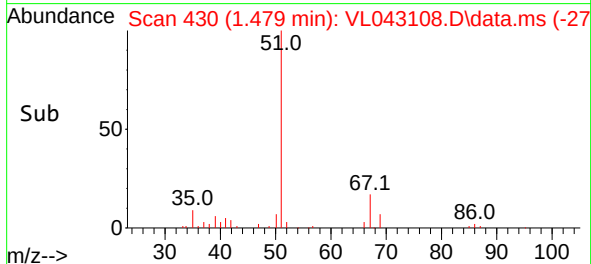
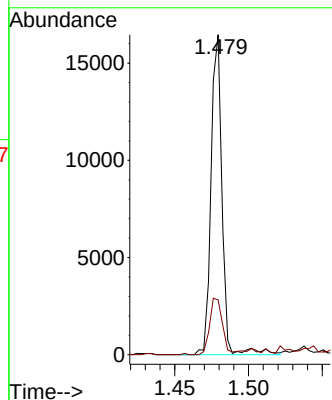
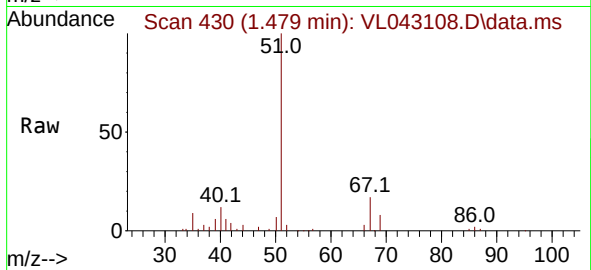
#3  
Chlorodifluoromethane  
Concen: 0.543 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 51 Resp: 849  
Ion Ratio Lower Upper  
51 100  
67 23.8 15.1 22.7

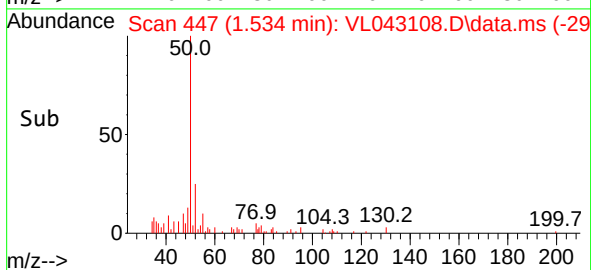
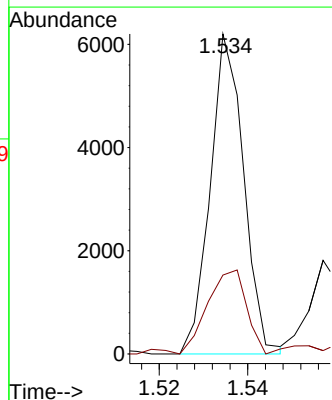
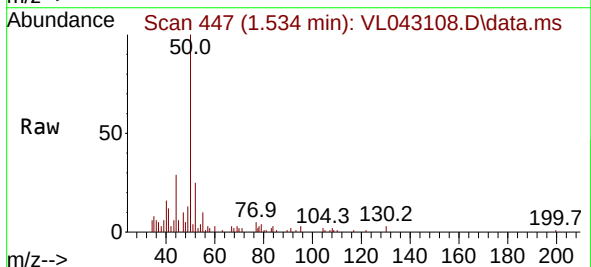
Manual Integrations  
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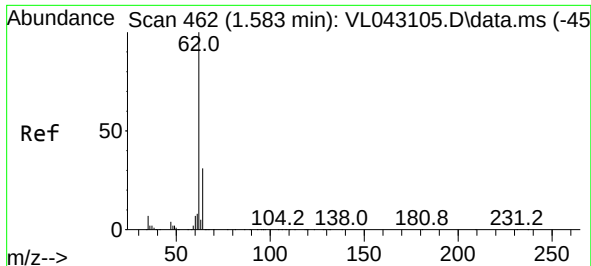
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#4  
Chloromethane  
Concen: 0.568 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 50 Resp: 3254  
Ion Ratio Lower Upper  
50 100  
52 24.7 25.2 37.8





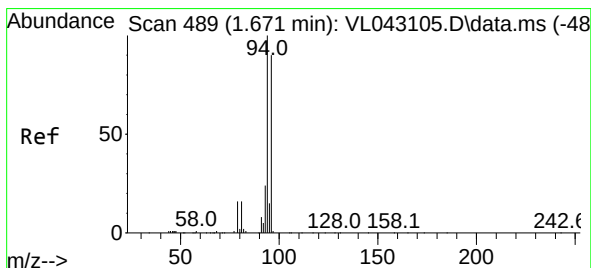
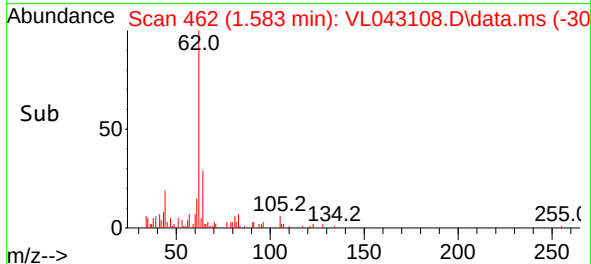
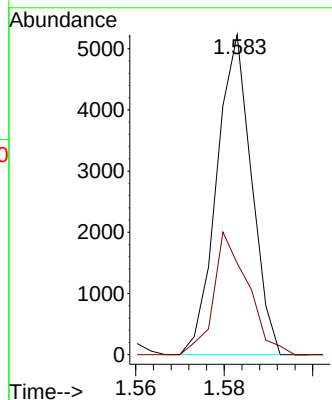
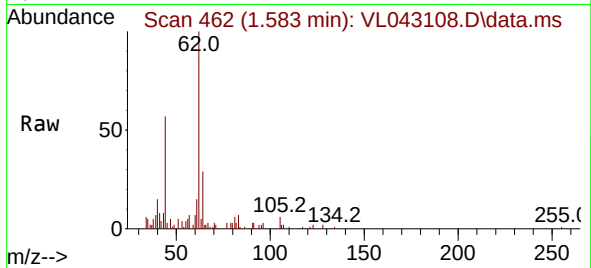
#5  
 Vinyl Chloride  
 Concen: 0.509 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 62 Resp: 285  
 Ion Ratio Lower Upper  
 62 100  
 64 28.6 24.6 36.8

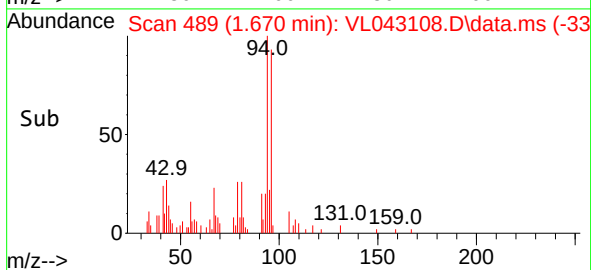
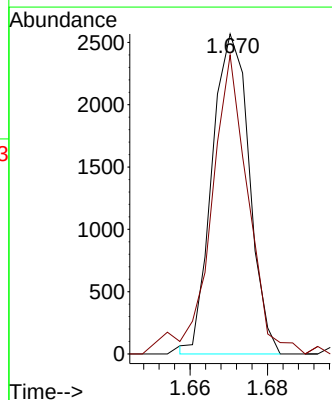
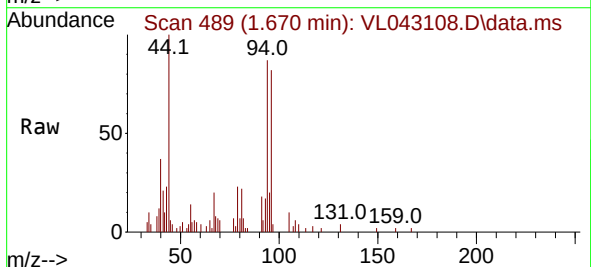
Manual Integrations  
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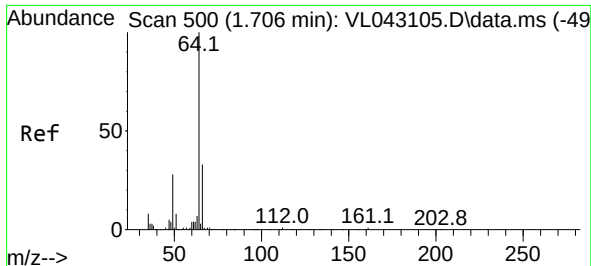
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#6  
 Bromomethane  
 Concen: 0.555 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion: 94 Resp: 1709  
 Ion Ratio Lower Upper  
 94 100  
 96 89.9 72.2 108.4





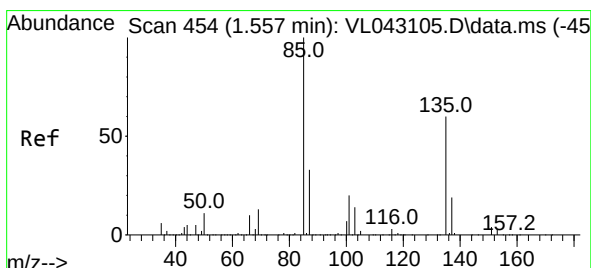
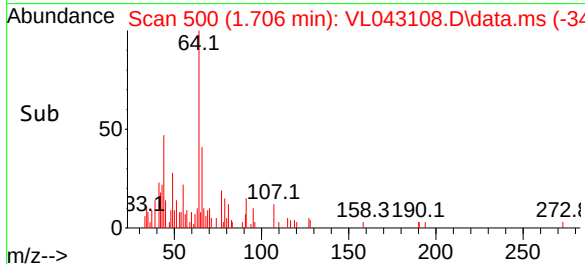
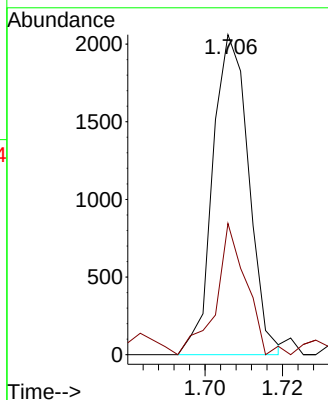
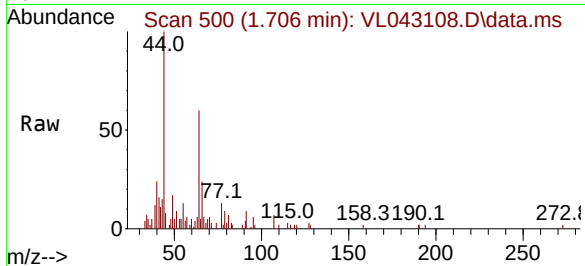
#7  
Chloroethane  
Concen: 0.578 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 64 Resp: 1320  
Ion Ratio Lower Upper  
64 100  
66 41.0 26.0 39.0

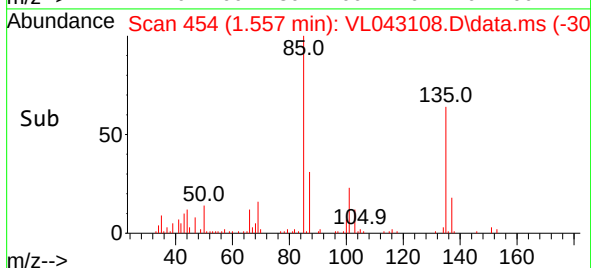
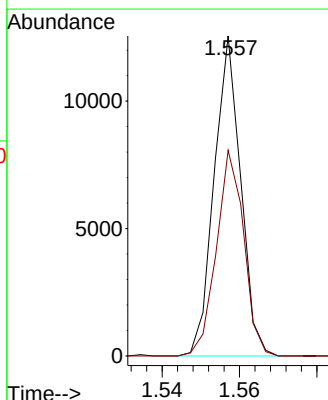
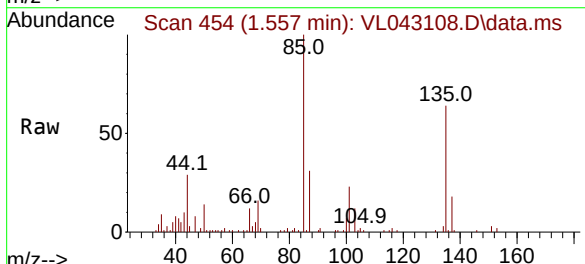
Manual Integrations  
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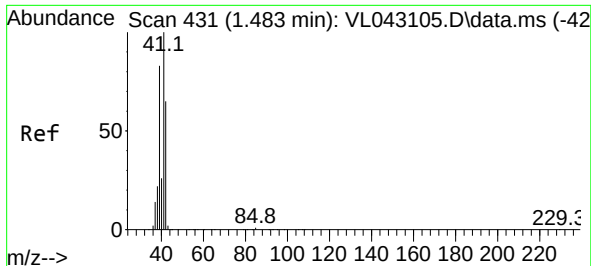
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#8  
Dichlorotetrafluoroethane  
Concen: 0.511 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970  
Ion Ratio Lower Upper  
85 100  
135 66.3 48.2 72.4





#9

Propene

Concen: 0.541 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 3750

Ion Ratio Lower Upper

41 100

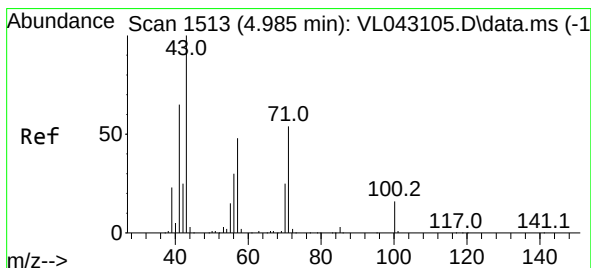
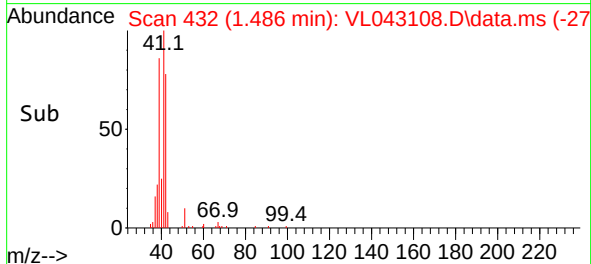
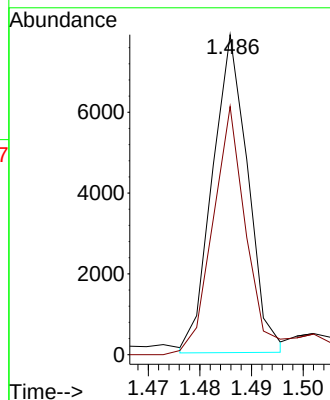
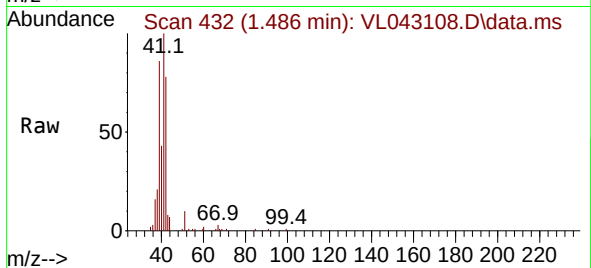
42 75.0 55.1 82.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 0.558 ppbv m

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043108.D

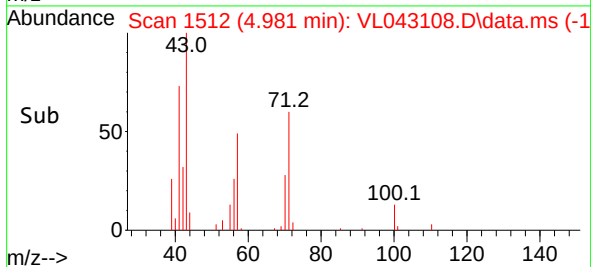
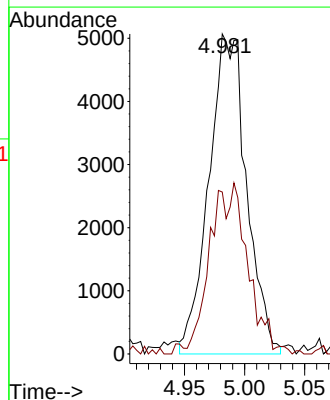
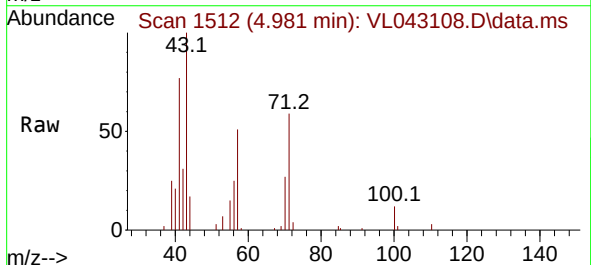
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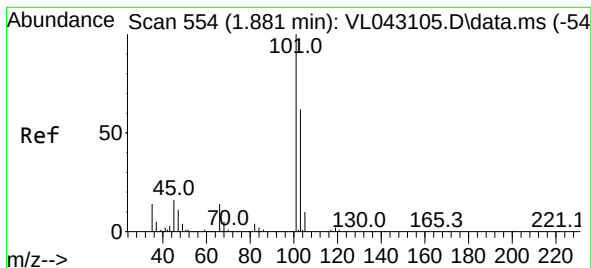
Tgt Ion: 43 Resp: 11097

Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#





#11

Trichlorofluoromethane

Concen: 0.543 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:101 Resp: 767

Ion Ratio Lower Upper

101 100

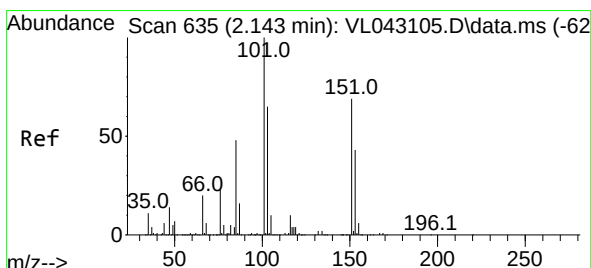
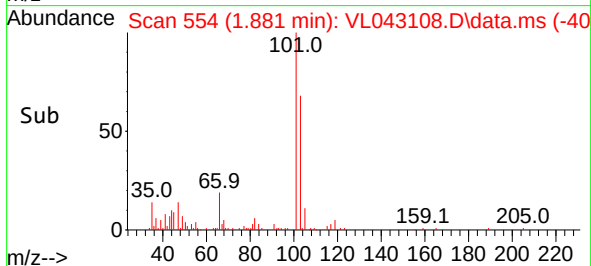
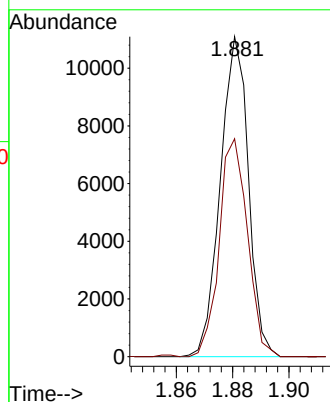
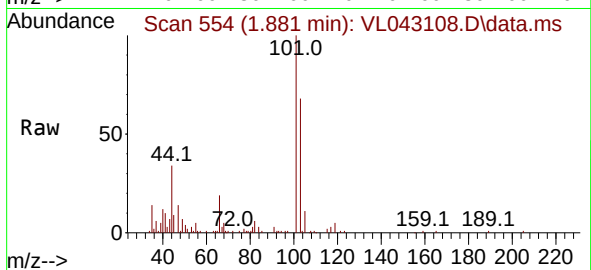
103 68.1 49.3 73.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.543 ppbv

RT: 2.143 min Scan# 635

Delta R.T. -0.000 min

Lab File: VL043108.D

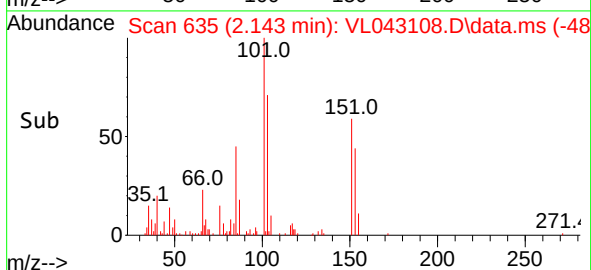
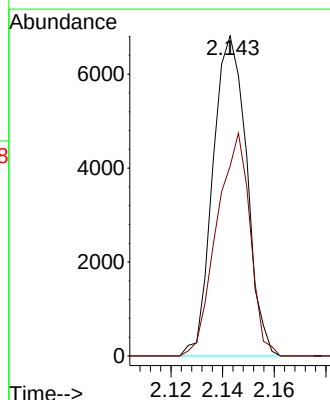
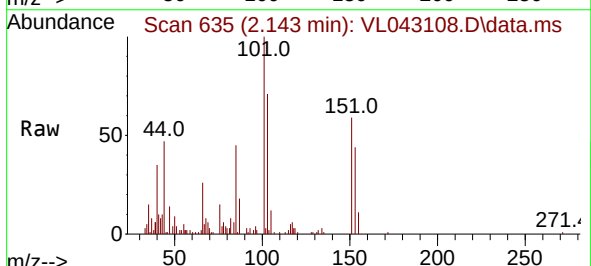
Acq: 14 Oct 2025 12:34

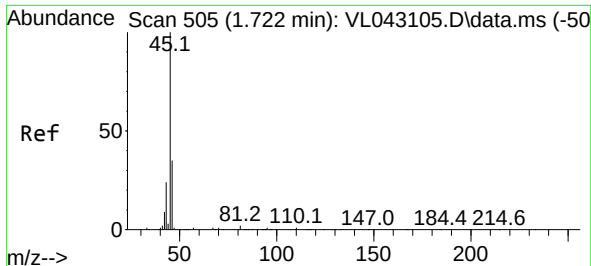
Tgt Ion:101 Resp: 6173

Ion Ratio Lower Upper

101 100

151 68.8 54.7 82.1





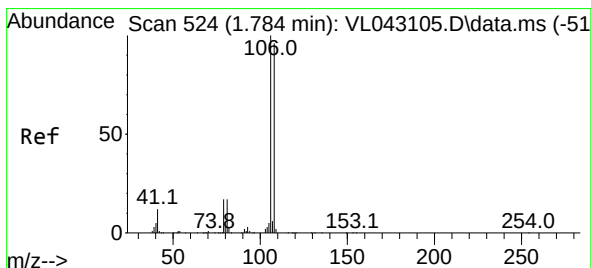
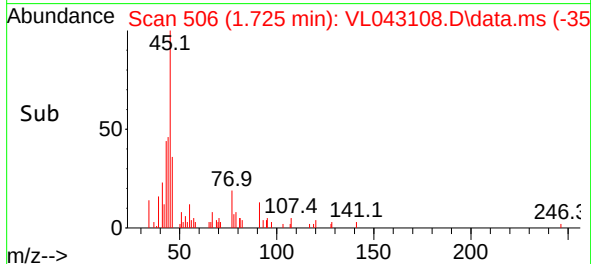
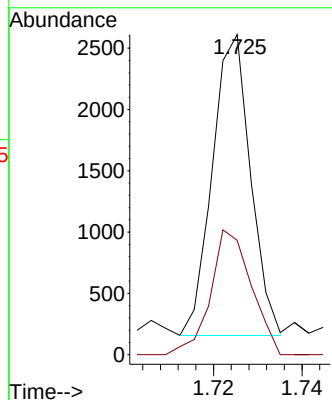
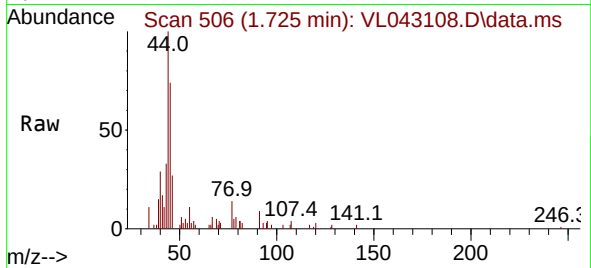
#13  
Ethanol  
Concen: 0.572 ppbv  
RT: 1.725 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 45 Resp: 1468  
Ion Ratio Lower Upper  
45 100  
46 45.1 14.7 58.9

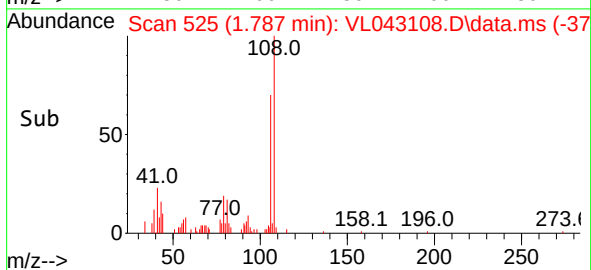
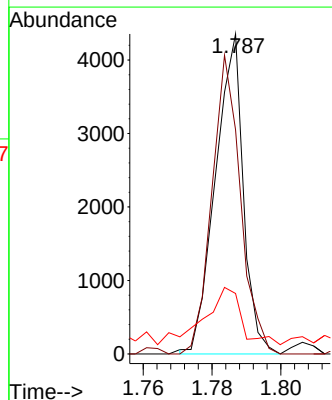
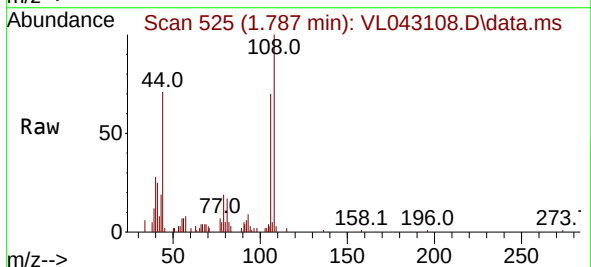
Manual Integrations  
APPROVED

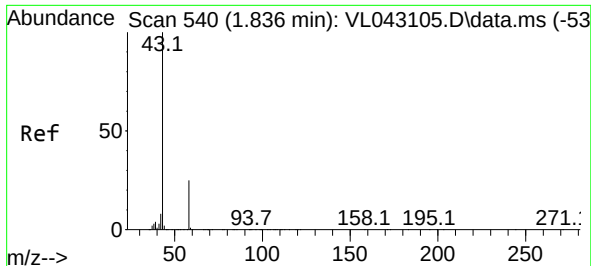
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#14  
Bromoethene  
Concen: 0.578 ppbv  
RT: 1.787 min Scan# 525  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

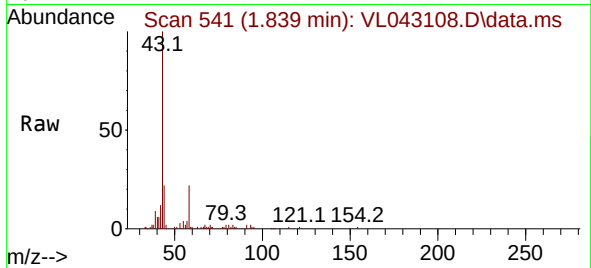
Tgt Ion:108 Resp: 2444  
Ion Ratio Lower Upper  
108 100  
106 98.2 84.4 126.6  
79 31.2 15.3 22.9#





#15  
Acetone  
Concen: 0.576 ppbv  
RT: 1.839 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

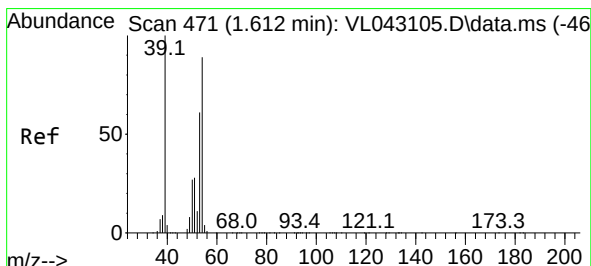
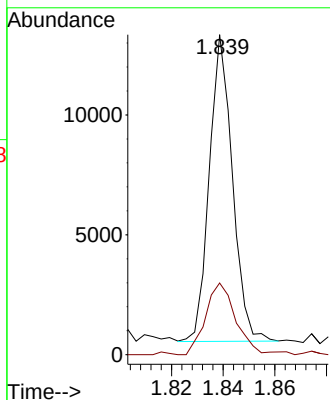
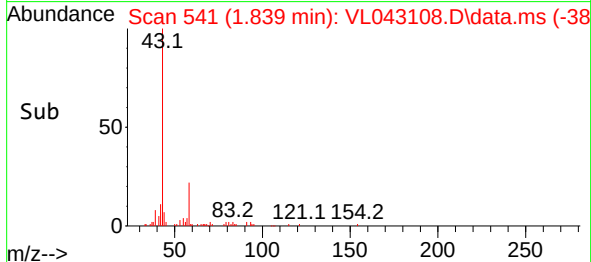
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



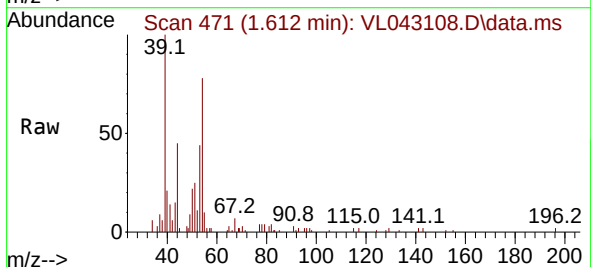
Tgt Ion: 43 Resp: 793  
Ion Ratio Lower Upper  
43 100  
58 32.0 20.8 31.2

Manual Integrations  
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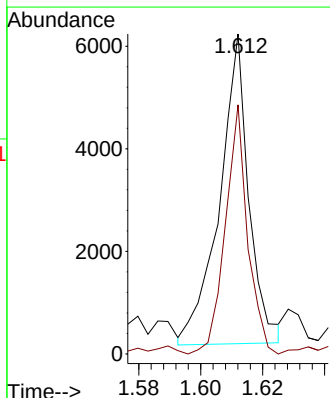
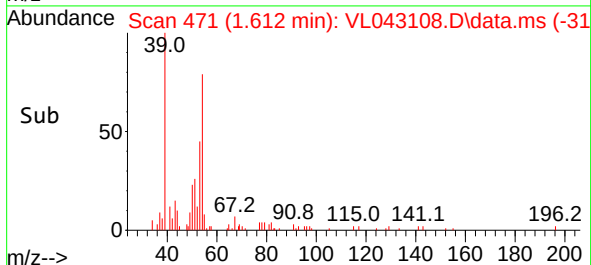
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

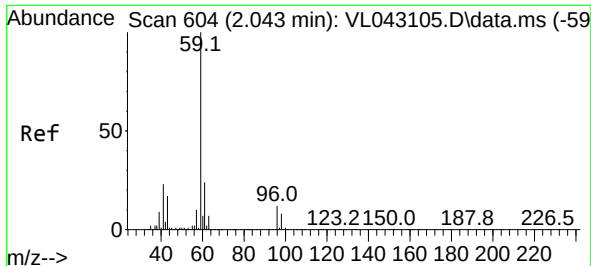


#16  
1,3-Butadiene  
Concen: 0.607 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion: 39 Resp: 3962  
Ion Ratio Lower Upper  
39 100  
54 66.1 59.0 88.4





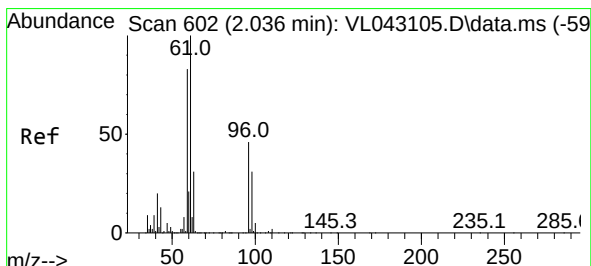
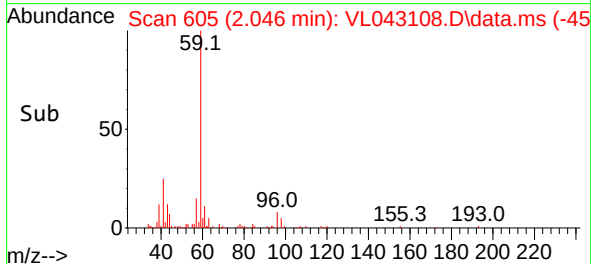
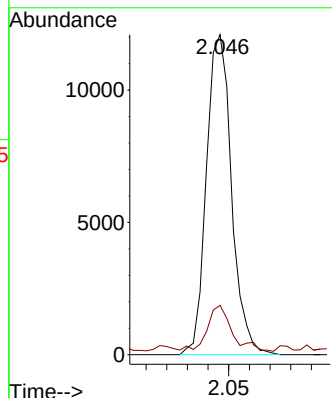
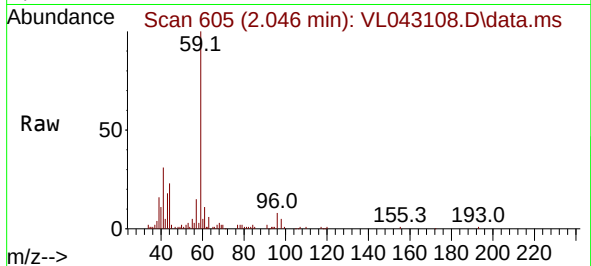
#17  
tert-Butyl alcohol  
Concen: 0.543 ppbv  
RT: 2.046 min Scan# 604  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 59 Resp: 1021  
Ion Ratio Lower Upper  
59 100  
57 14.8 8.2 12.4

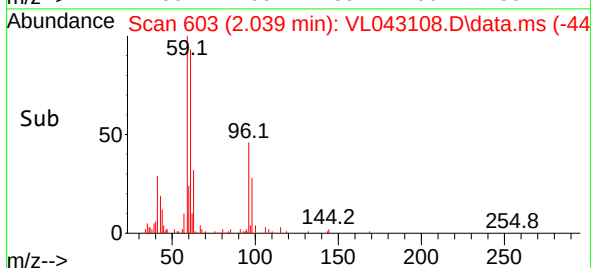
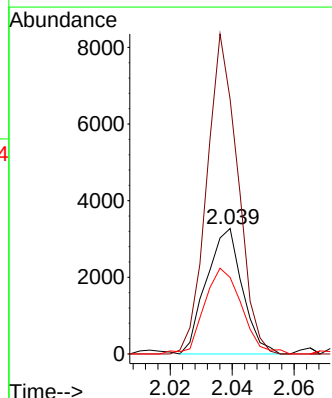
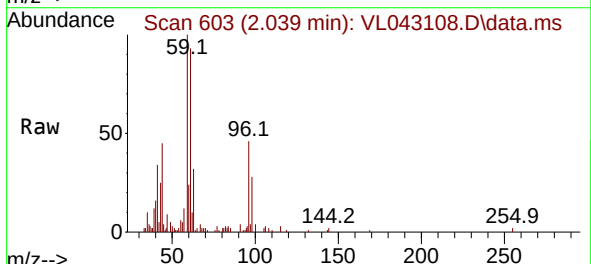
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

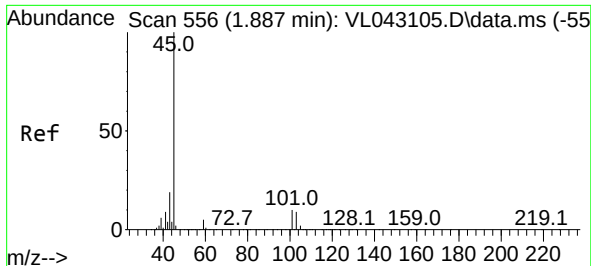


#18  
1,1-Dichloroethene  
Concen: 0.531 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 2636  
Ion Ratio Lower Upper  
96 100  
61 203.1 173.4 260.0  
98 59.2 53.2 79.8

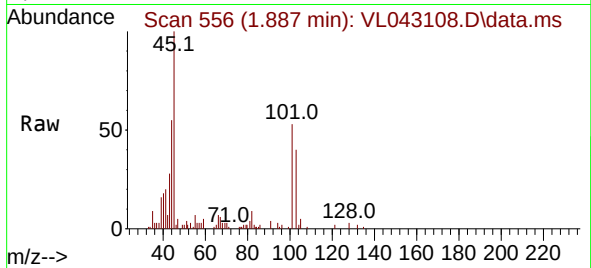






#19  
Isopropyl Alcohol  
Concen: 0.578 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

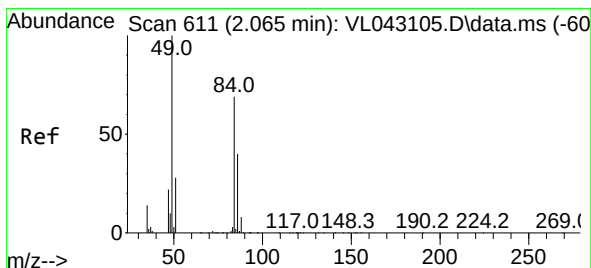
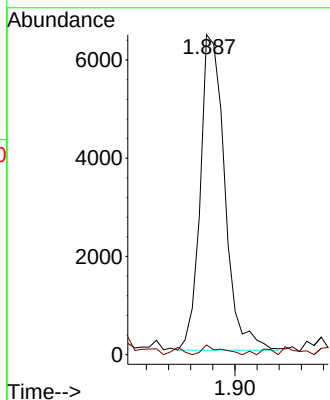
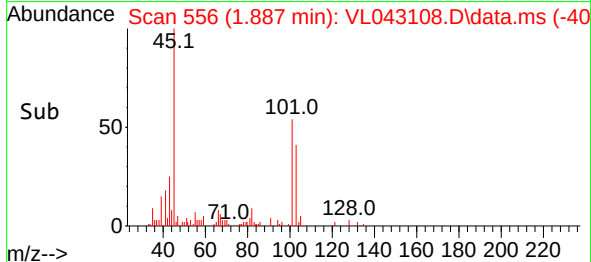
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



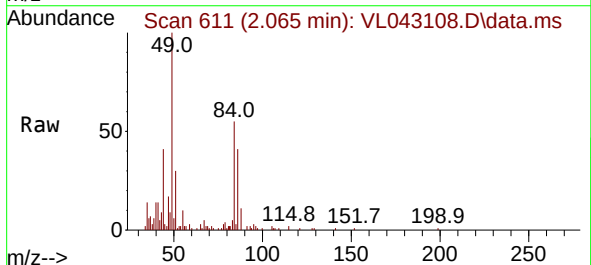
Tgt Ion: 45 Resp: 4932  
Ion Ratio Lower Upper  
45 100  
58 4.1 31.3 46.9

Manual Integrations  
APPROVED

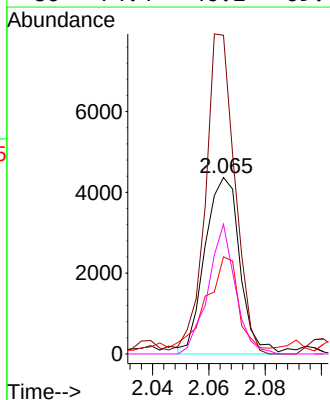
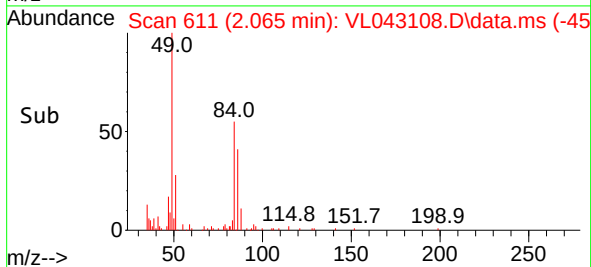
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

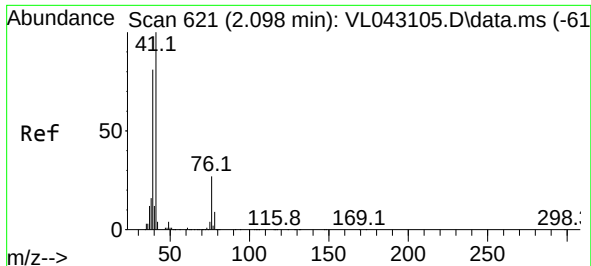


#20  
Methylene Chloride  
Concen: 0.693 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion: 84 Resp: 3750  
Ion Ratio Lower Upper  
84 100  
49 182.8 116.6 175.0#  
51 51.9 34.8 52.2  
86 74.4 46.2 69.4#





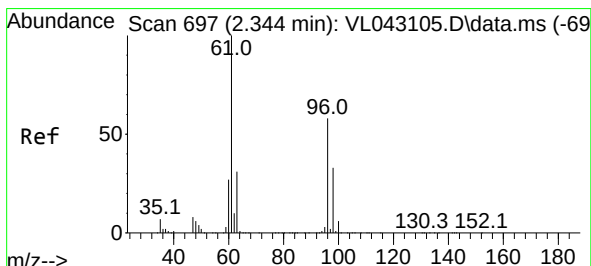
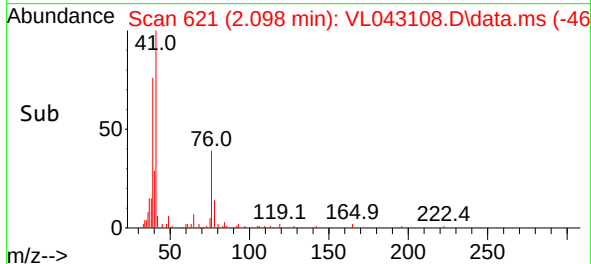
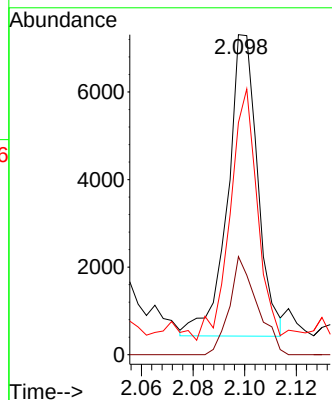
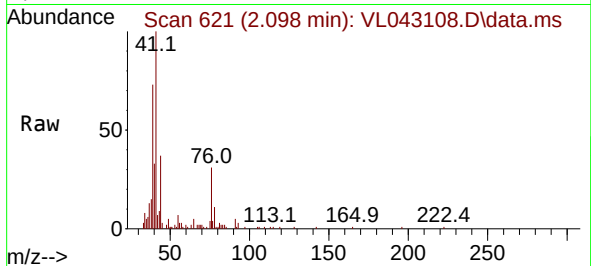
#21  
 Allyl Chloride  
 Concen: 0.551 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 41 Resp: 557  
 Ion Ratio Lower Upper  
 41 100  
 76 30.0 21.5 32.3  
 39 75.1 60.8 91.2

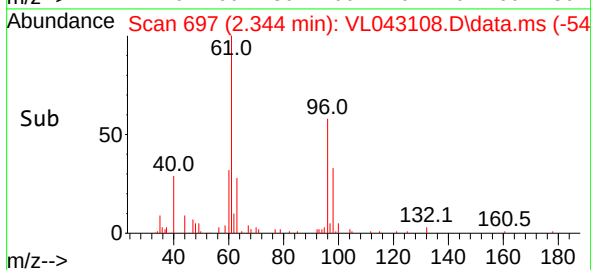
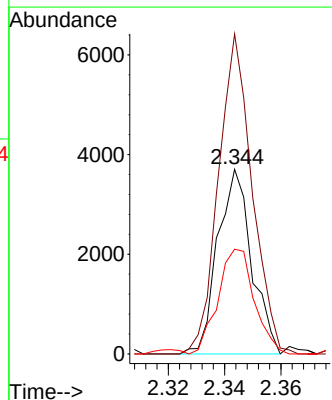
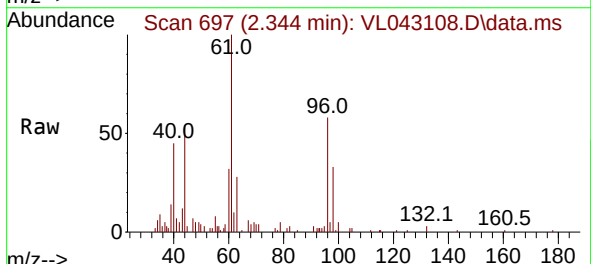
Manual Integrations  
 APPROVED

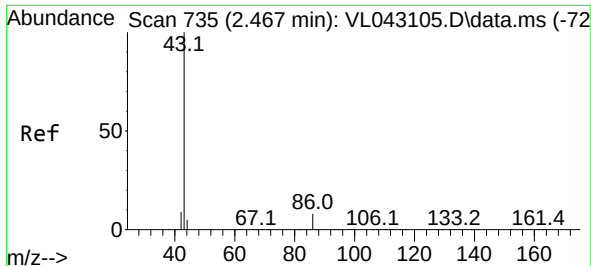
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.522 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 3093  
 Ion Ratio Lower Upper  
 96 100  
 61 173.3 137.0 205.6  
 98 55.0 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 0.544 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

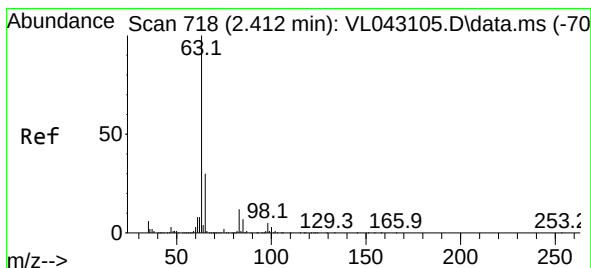
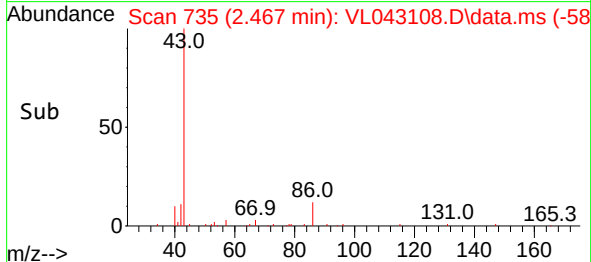
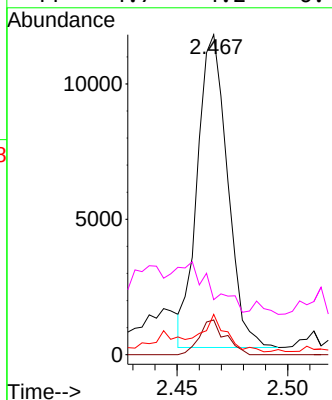
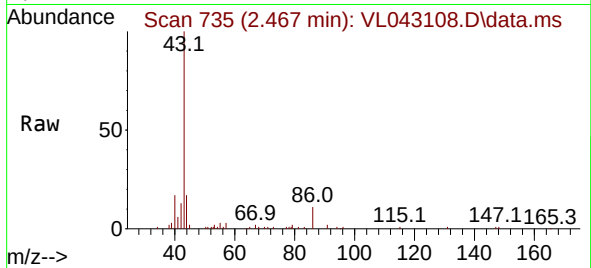
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 43 Resp: 10914

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 11.1  | 6.2   | 9.2   |
| 42  | 9.0   | 7.6   | 11.4  |
| 44  | 4.7   | 4.2   | 6.4   |

Manual Integrations  
 APPROVED

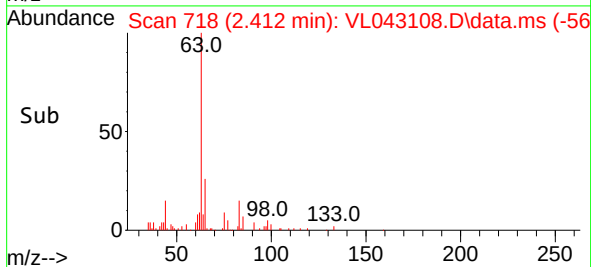
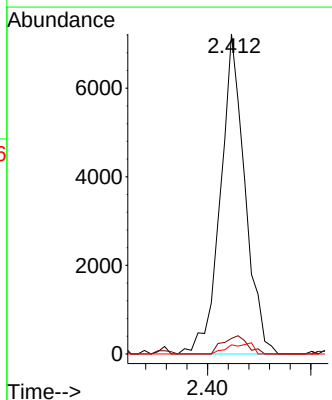
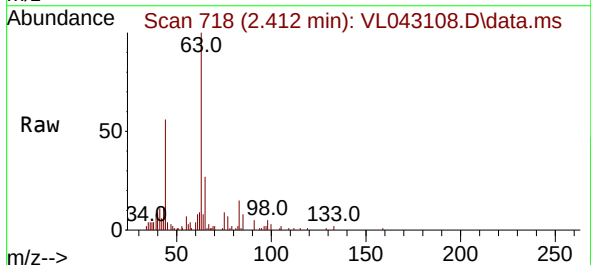
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

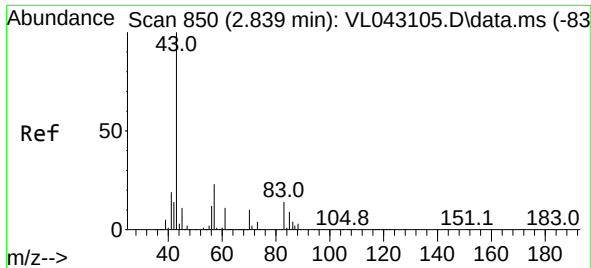


#24  
 1,1-Dichloroethane  
 Concen: 0.519 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion: 63 Resp: 5942

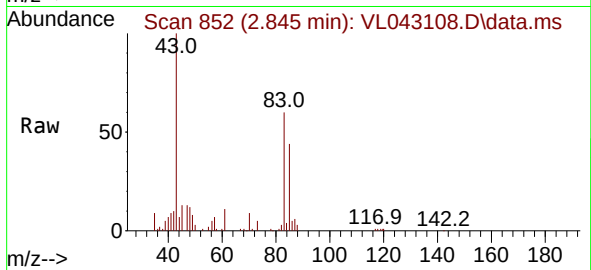
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.8   | 2.6   | 7.8   |
| 100 | 2.8   | 1.5   | 4.4   |





#25  
Ethyl Acetate  
Concen: 0.527 ppbv  
RT: 2.845 min Scan# 850  
Delta R.T. 0.006 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

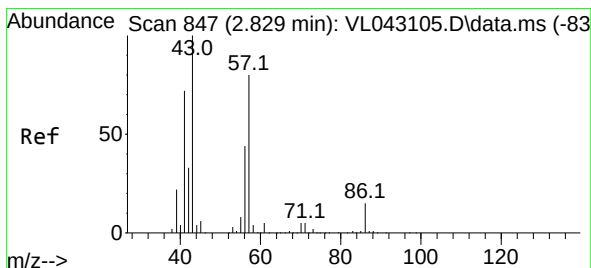
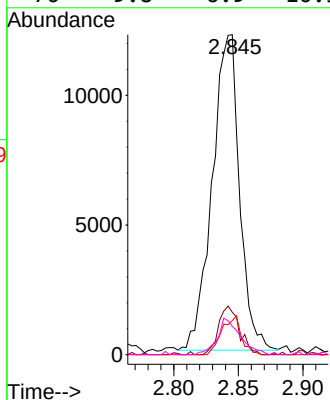
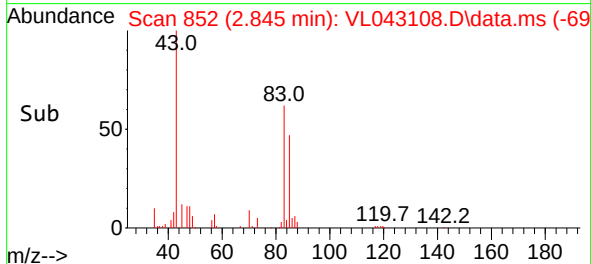
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 43 Resp: 17918  
Ion Ratio Lower Upper  
43 100  
45 12.3 7.8 11.8  
61 8.8 7.0 10.6  
70 9.8 6.9 10.3

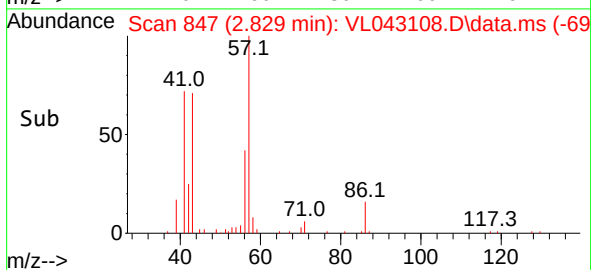
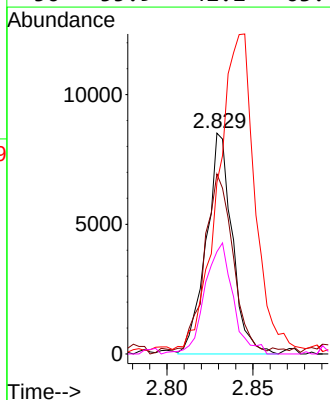
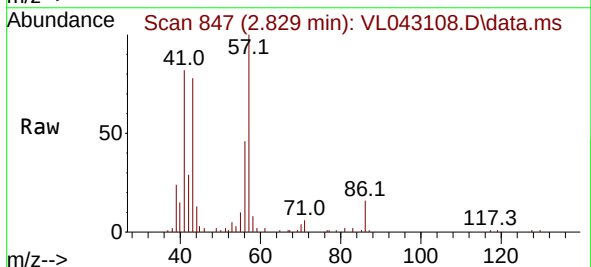
Manual Integrations  
APPROVED

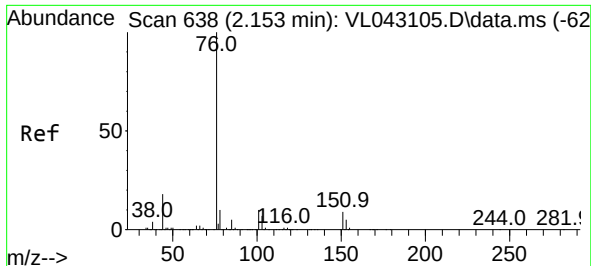
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#26  
Hexane  
Concen: 0.569 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

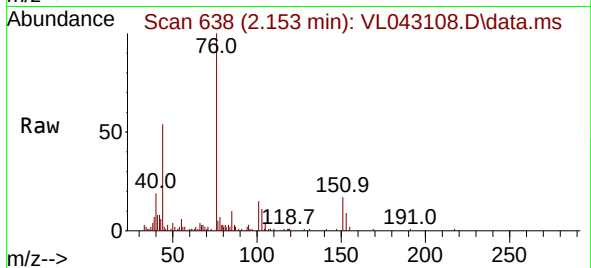
Tgt Ion: 57 Resp: 8908  
Ion Ratio Lower Upper  
57 100  
41 90.3 71.4 107.0  
43 211.8 178.5 267.7  
56 55.9 42.2 63.4





#27  
Carbon Disulfide  
Concen: 0.504 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

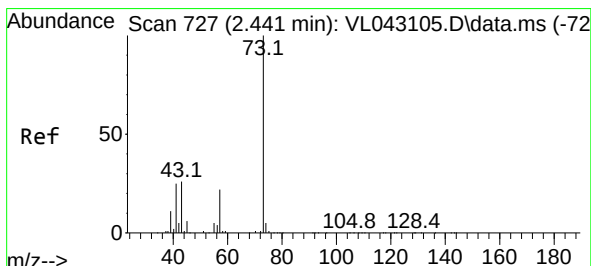
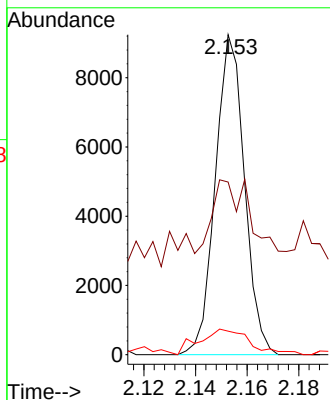
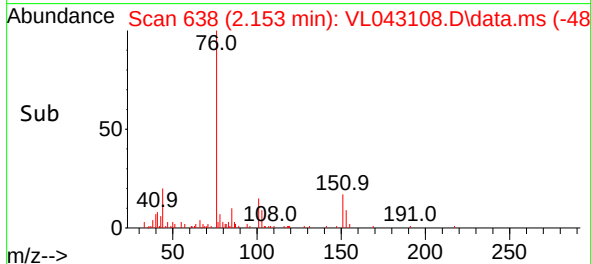
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



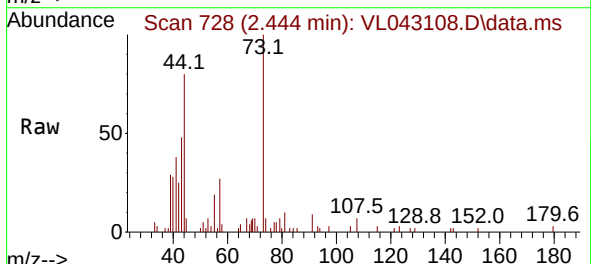
Tgt Ion: 76 Resp: 7230  
Ion Ratio Lower Upper  
76 100  
44 120.9 16.7 25.1  
78 13.9 9.3 13.9

Manual Integrations  
APPROVED

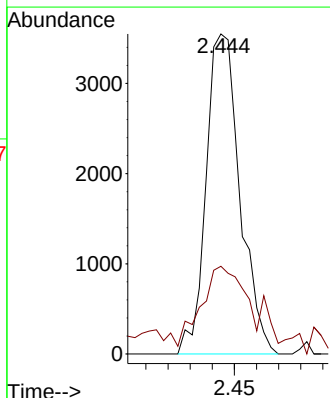
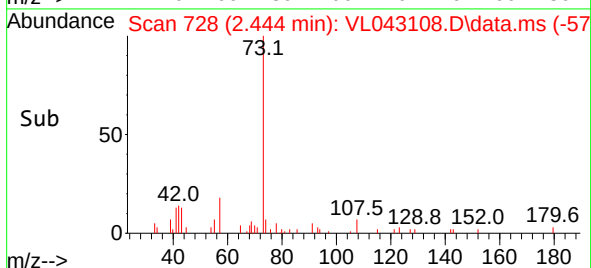
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

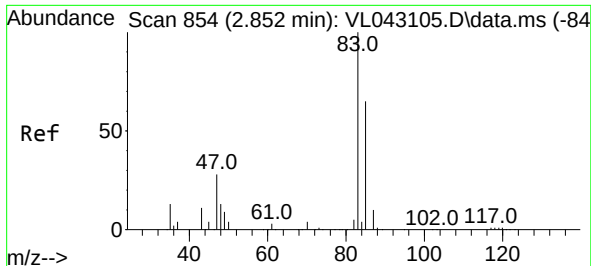


#28  
Methyl tert-Butyl Ether  
Concen: 0.529 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion: 73 Resp: 3770  
Ion Ratio Lower Upper  
73 100  
57 52.7 20.5 30.7





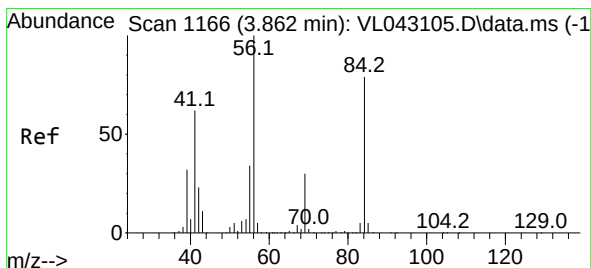
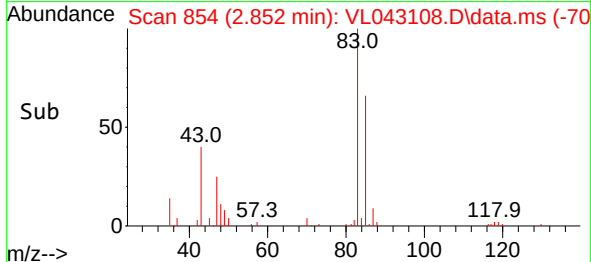
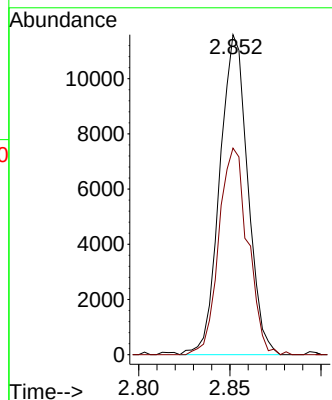
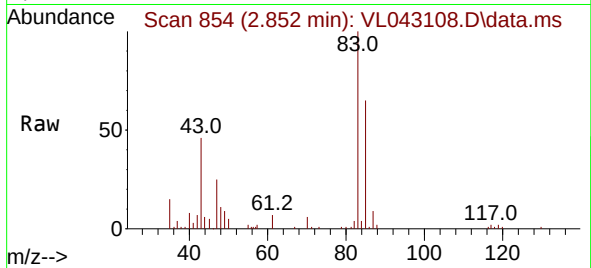
#29  
Chloroform  
Concen: 0.546 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 83 Resp: 12384  
Ion Ratio Lower Upper  
83 100  
85 64.5 51.8 77.6

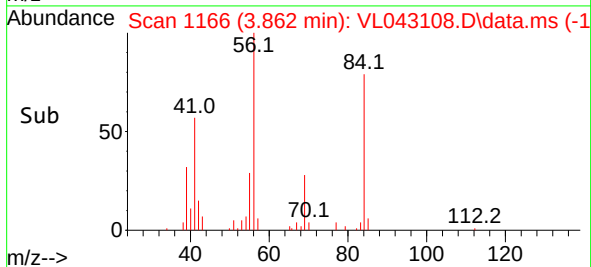
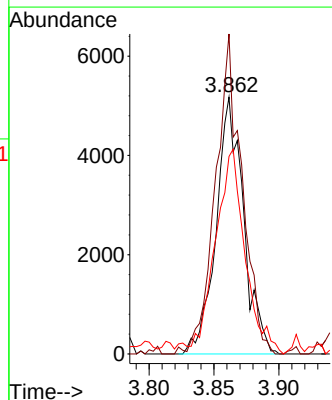
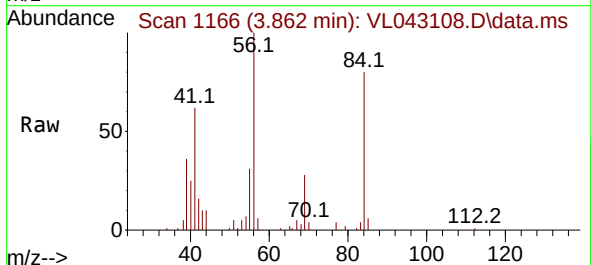
Manual Integrations  
APPROVED

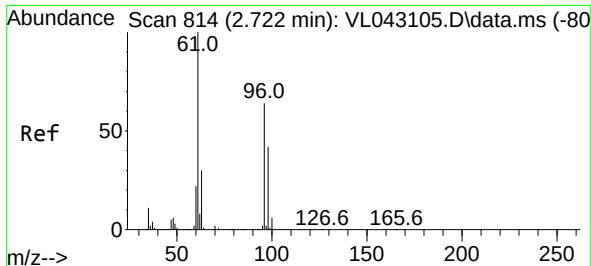
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#30  
Cyclohexane  
Concen: 0.556 ppbv m  
RT: 3.862 min Scan# 1166  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

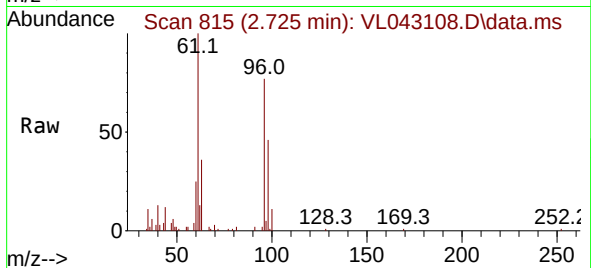
Tgt Ion: 84 Resp: 7586  
Ion Ratio Lower Upper  
84 100  
56 121.2 100.9 151.3  
41 91.7 63.8 95.6





#31  
cis-1,2-Dichloroethene  
Concen: 0.507 ppbv  
RT: 2.725 min Scan# 814  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

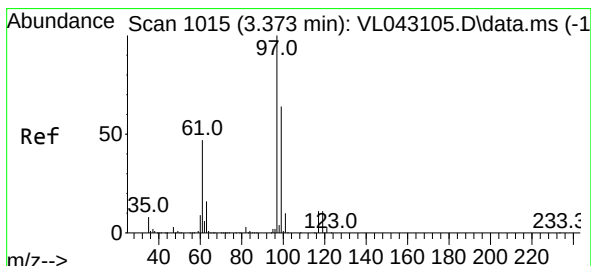
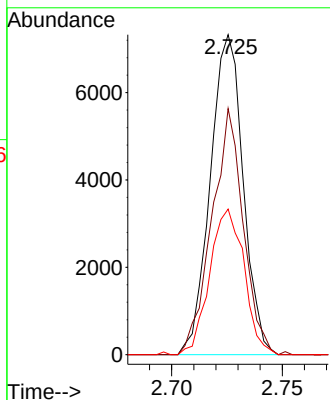
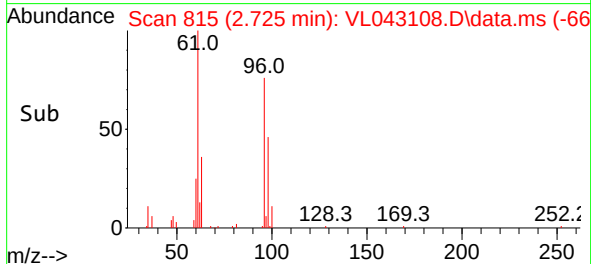
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



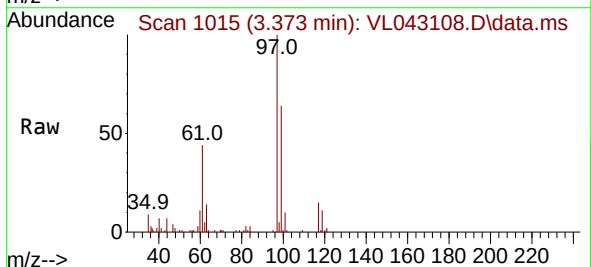
Tgt Ion: 61 Resp: 7570  
Ion Ratio Lower Upper  
61 100  
96 76.9 51.0 76.6  
98 45.5 33.5 50.3

Manual Integrations  
APPROVED

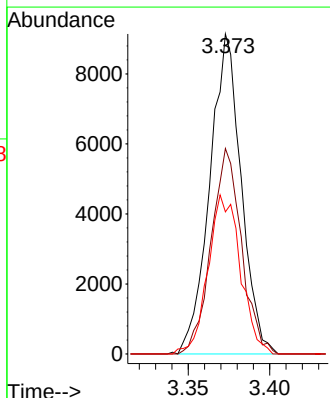
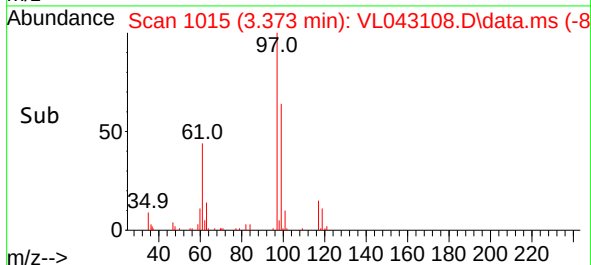
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

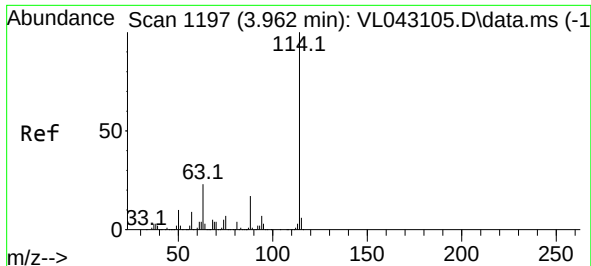


#32  
1,1,1-Trichloroethane  
Concen: 0.518 ppbv  
RT: 3.373 min Scan# 1015  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion: 97 Resp: 12234  
Ion Ratio Lower Upper  
97 100  
99 62.0 51.3 76.9  
61 51.2 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

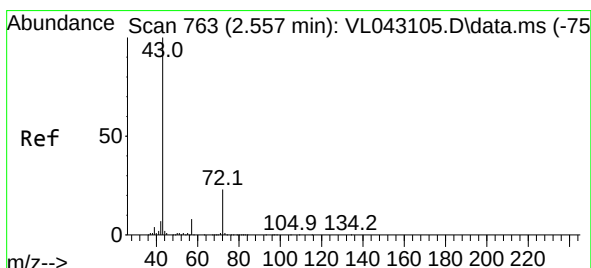
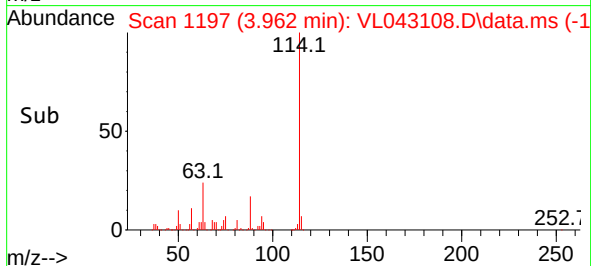
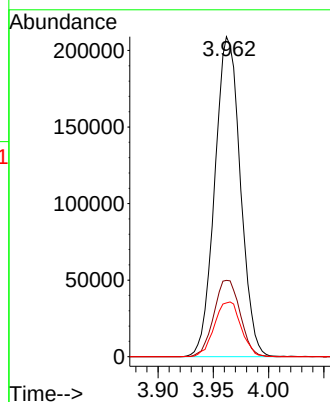
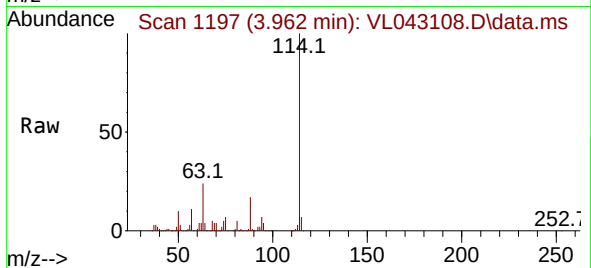
Tgt Ion:114 Resp: 33618

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.6  | 19.3  | 28.9  |
| 88  | 17.9  | 13.9  | 20.9  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#34

2-Butanone

Concen: 0.557 ppbv

RT: 2.564 min Scan# 765

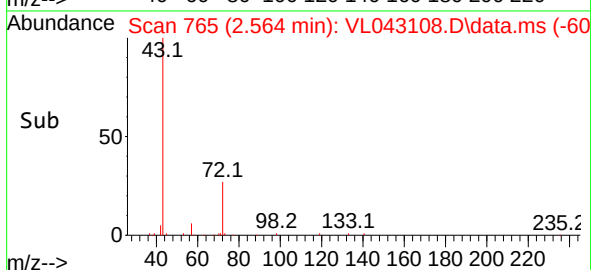
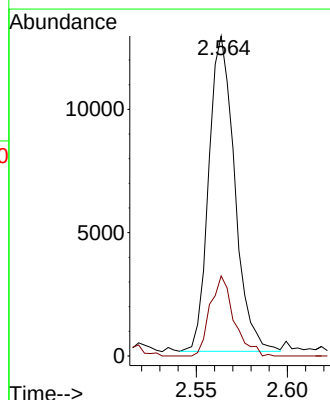
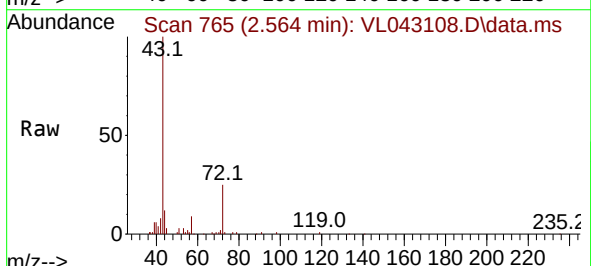
Delta R.T. 0.006 min

Lab File: VL043108.D

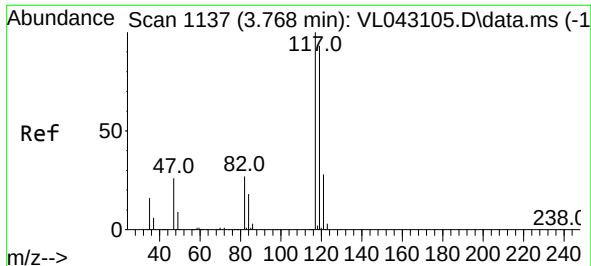
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 12659

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.4  | 18.4  | 27.6  |

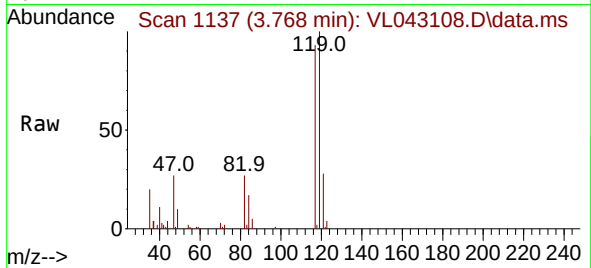






#35  
Carbon Tetrachloride  
Concen: 0.494 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

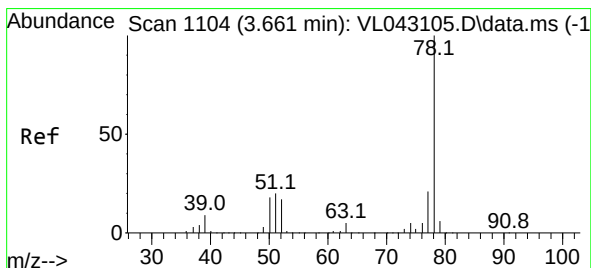
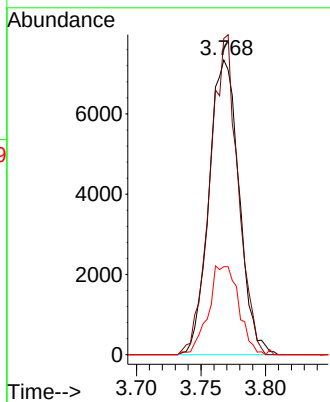
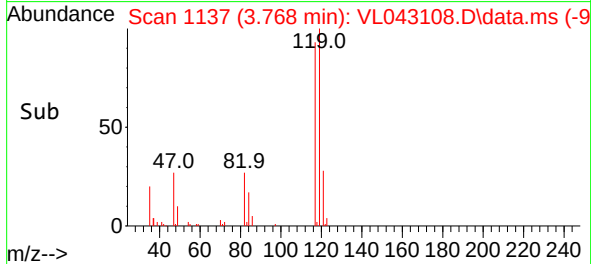
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



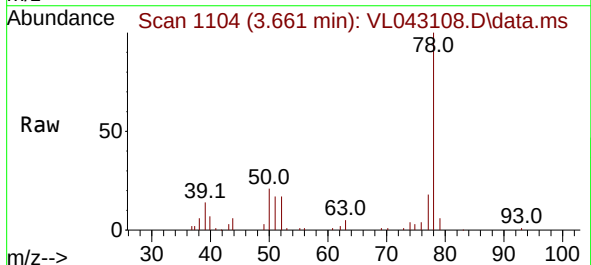
Tgt Ion: 117 Resp: 1193  
Ion Ratio Lower Upper  
117 100  
119 107.3 74.1 111.1  
121 29.9 22.2 33.2

Manual Integrations  
APPROVED

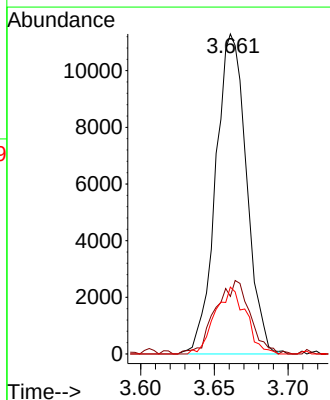
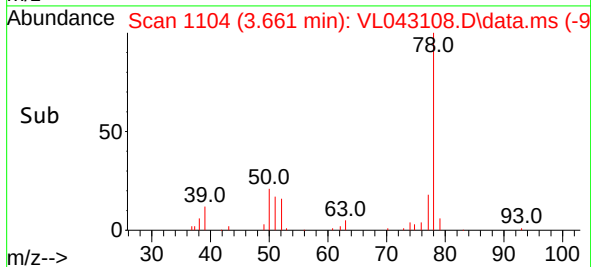
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

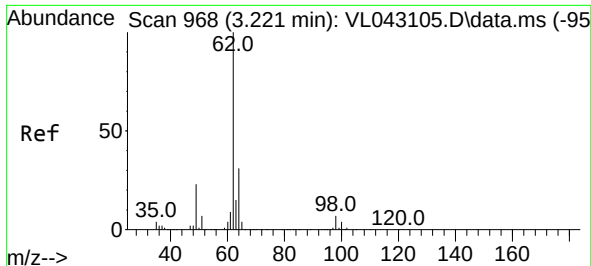


#36  
Benzene  
Concen: 0.517 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion: 78 Resp: 16376  
Ion Ratio Lower Upper  
78 100  
77 18.0 17.0 25.6  
50 20.9 14.6 22.0





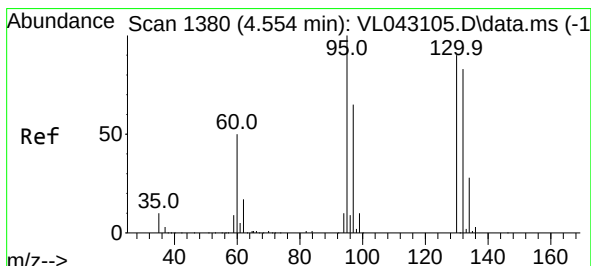
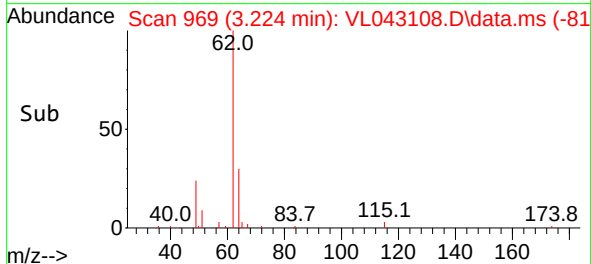
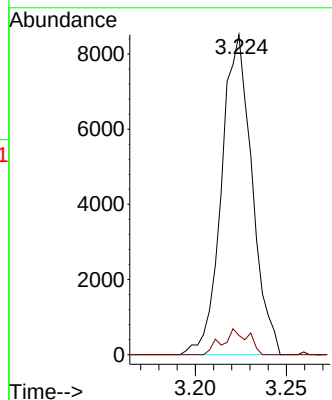
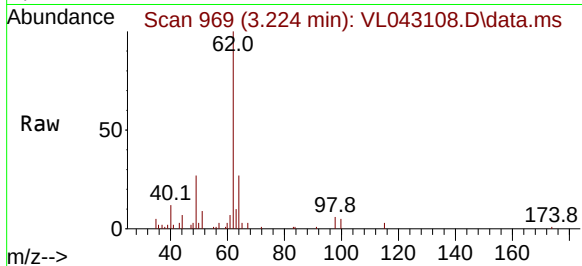
#37  
1,2-Dichloroethane  
Concen: 0.543 ppbv  
RT: 3.224 min Scan# 968  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 62 Resp: 990  
Ion Ratio Lower Upper  
62 100  
98 6.8 5.8 8.6

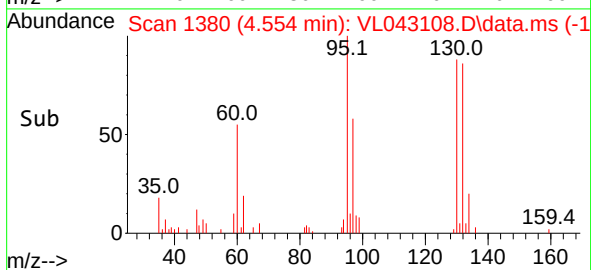
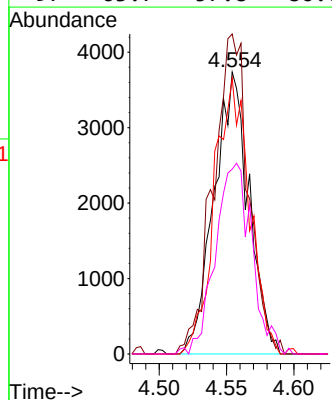
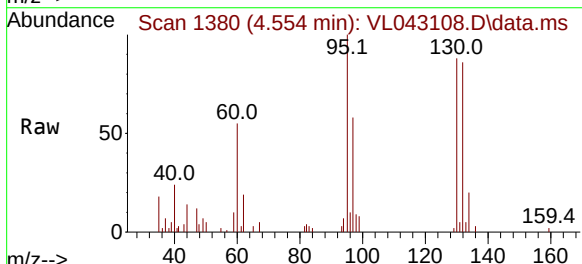
Manual Integrations  
APPROVED

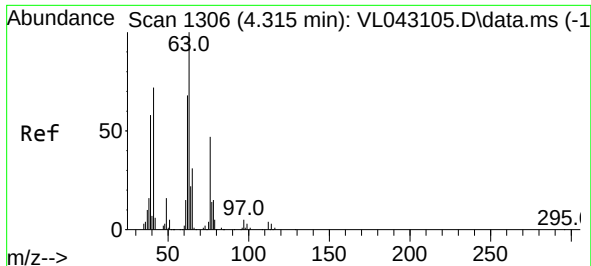
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 0.511 ppbv  
RT: 4.554 min Scan# 1380  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:130 Resp: 6745  
Ion Ratio Lower Upper  
130 100  
95 110.7 88.6 133.0  
132 97.8 73.4 110.0  
97 63.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 0.521 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

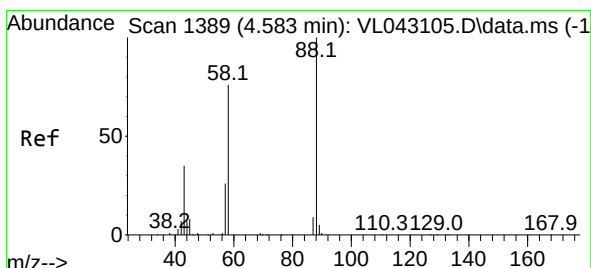
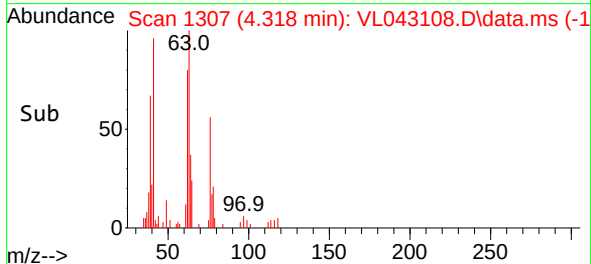
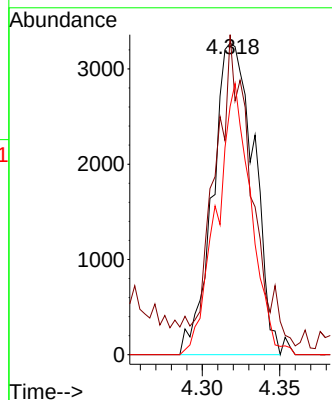
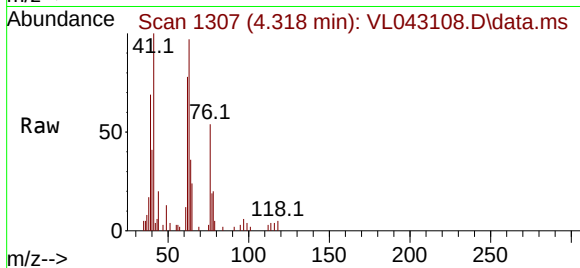
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 603   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 93.9  | 58.0  | 87.0# |
| 62       | 79.6  | 54.7  | 82.1  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 0.539 ppbv m

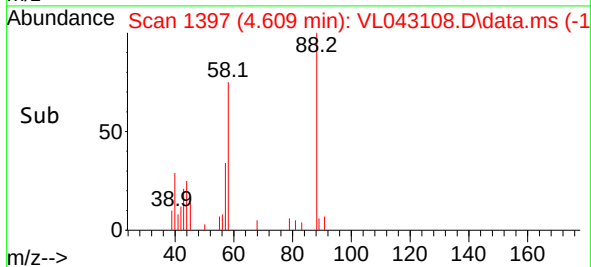
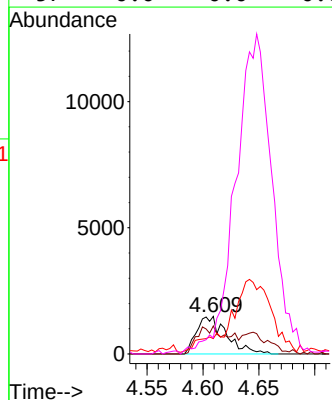
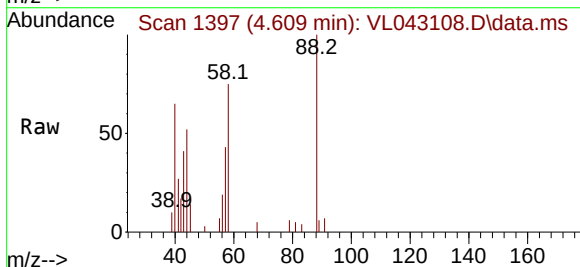
RT: 4.609 min Scan# 1397

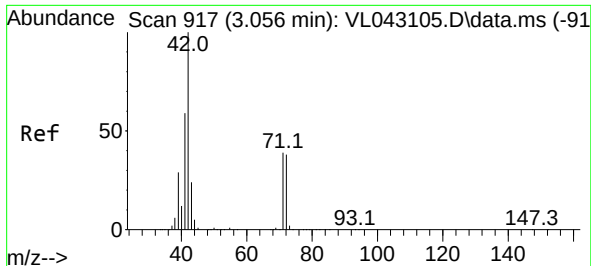
Delta R.T. 0.026 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

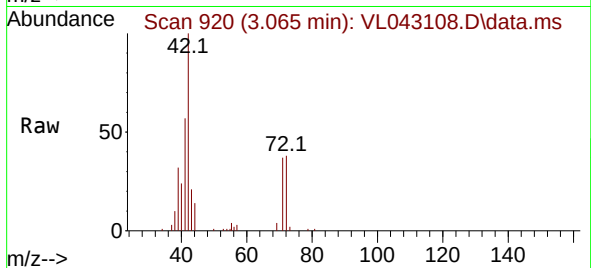
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 2794  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 0.0   | 61.1  | 91.7# |
| 43       | 11.4  | 24.0  | 36.0# |
| 57       | 0.0   | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 0.565 ppbv m  
RT: 3.065 min Scan# 917  
Delta R.T. 0.009 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

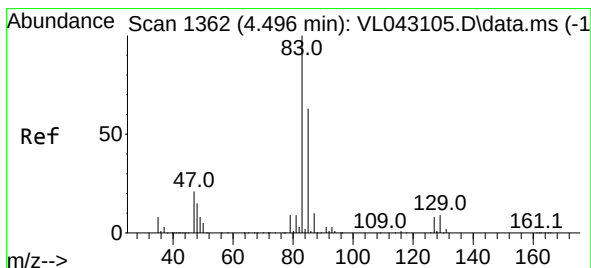
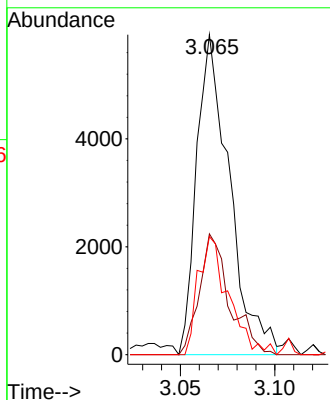
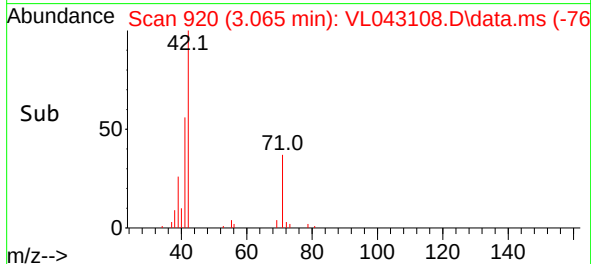
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



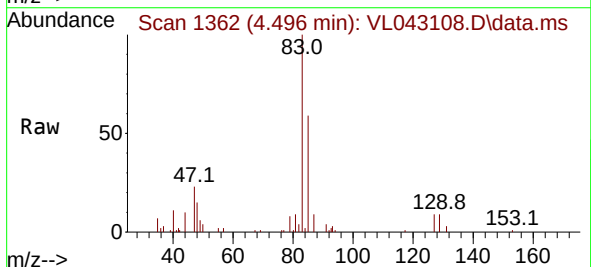
| Tgt Ion:  | 42   | Resp: | 7174  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 42        | 100  |       |       |
| 72        | 34.8 | 31.3  | 46.9  |
| 71        | 35.5 | 30.4  | 45.6  |

Manual Integrations  
APPROVED

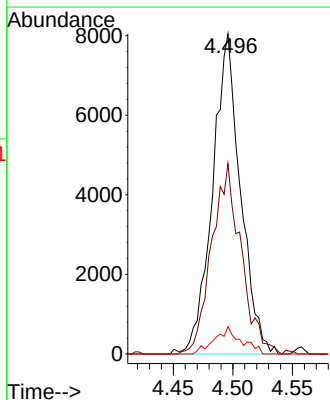
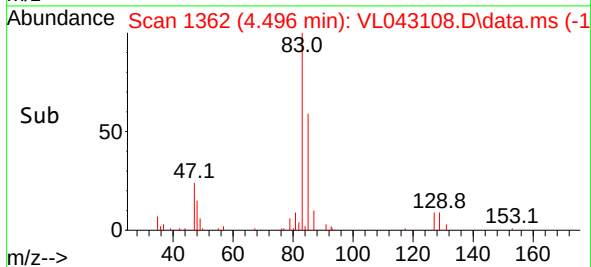
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

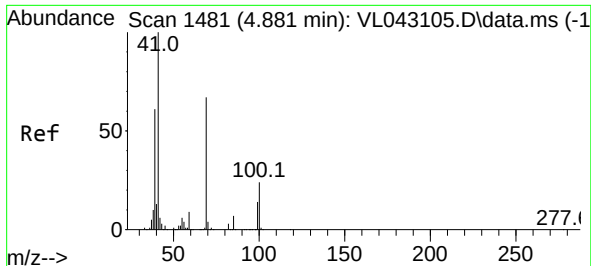


#42  
Bromodichloromethane  
Concen: 0.519 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



| Tgt Ion:  | 83   | Resp: | 13094 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 83        | 100  |       |       |
| 85        | 59.5 | 50.6  | 75.8  |
| 127       | 8.5  | 6.3   | 9.5   |





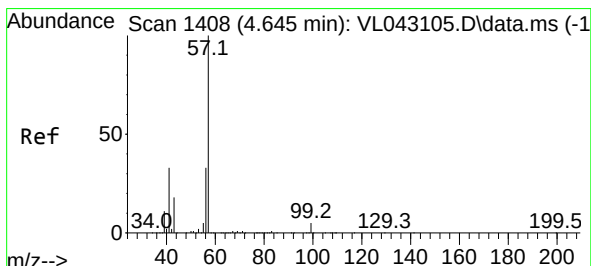
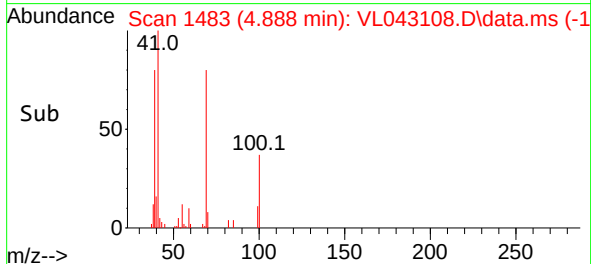
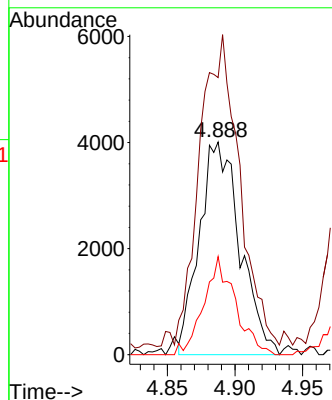
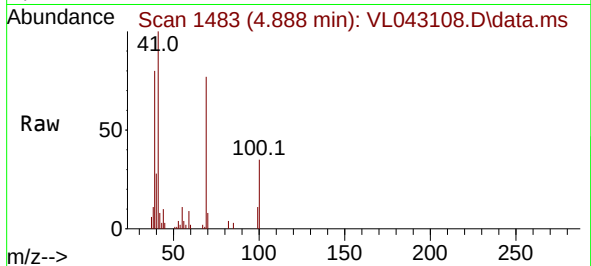
#43  
Methyl Methacrylate  
Concen: 0.521 ppbv m  
RT: 4.888 min Scan# 1481  
Delta R.T. 0.006 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 69 Resp: 841  
Ion Ratio Lower Upper  
69 100  
41 0.0 120.5 180.7  
100 35.6 29.0 43.4

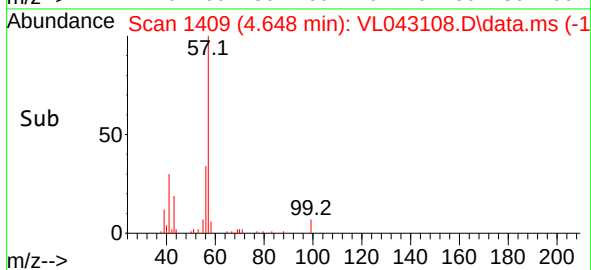
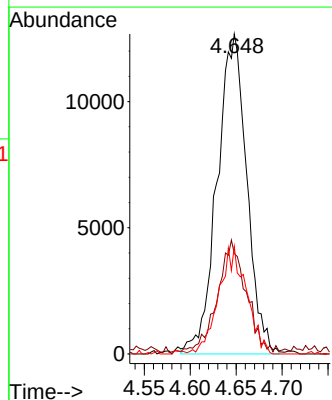
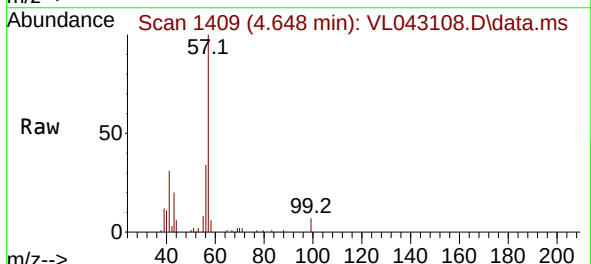
Manual Integrations  
APPROVED

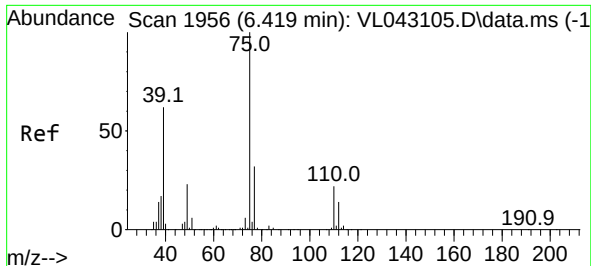
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#44  
2,2,4-Trimethylpentane  
Concen: 0.538 ppbv m  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

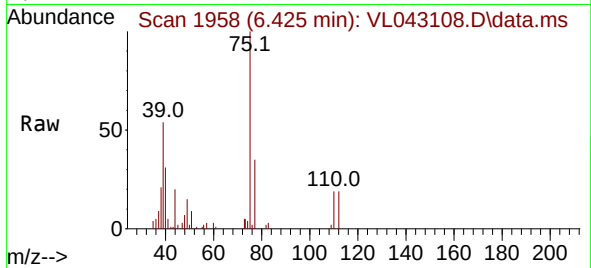
Tgt Ion: 57 Resp: 28494  
Ion Ratio Lower Upper  
57 100  
41 32.8 26.3 39.5  
56 32.0 25.9 38.9





#45  
 t-1,3-Dichloropropene  
 Concen: 0.498 ppbv  
 RT: 6.425 min Scan# 1956  
 Delta R.T. 0.006 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

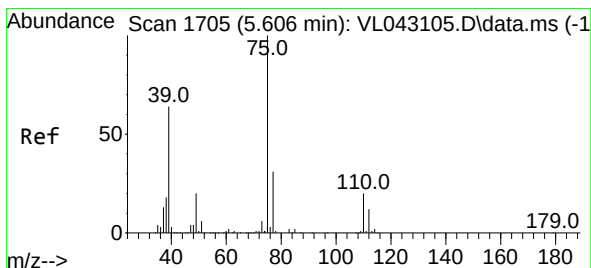
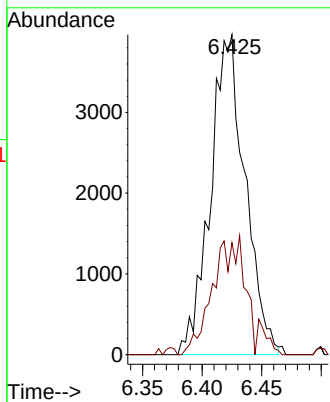
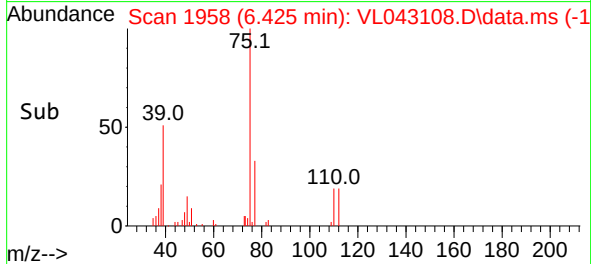
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



Tgt Ion: 75 Resp: 8030  
 Ion Ratio Lower Upper  
 75 100  
 77 34.9 25.4 38.2

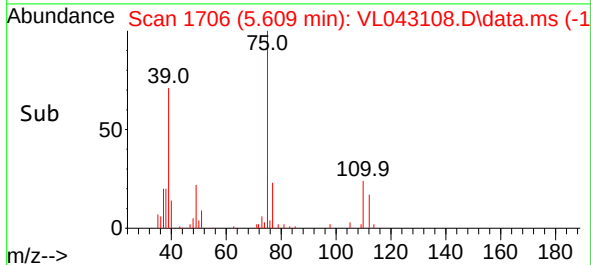
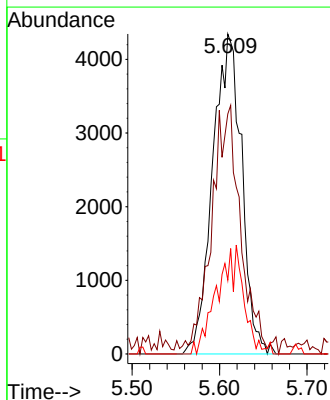
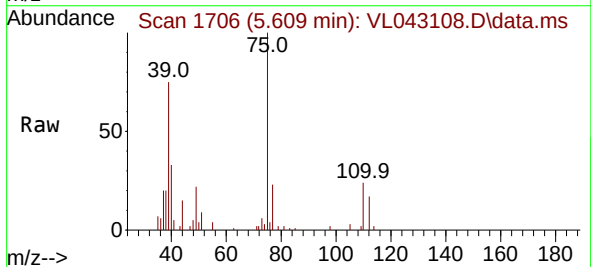
Manual Integrations  
 APPROVED

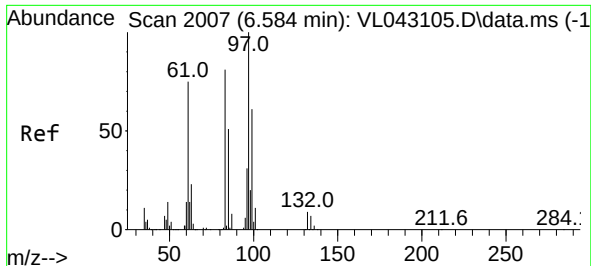
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 0.518 ppbv m  
 RT: 5.609 min Scan# 1706  
 Delta R.T. 0.003 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

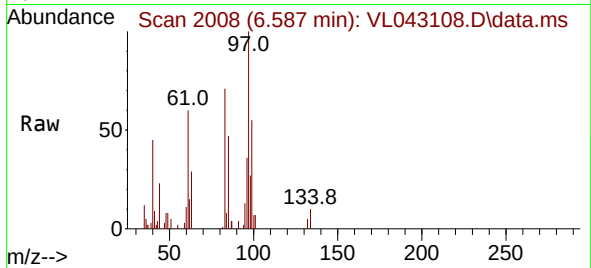
Tgt Ion: 75 Resp: 9973  
 Ion Ratio Lower Upper  
 75 100  
 39 75.0 51.0 76.6  
 77 23.1 25.0 37.4#





#47  
1,1,2-Trichloroethane  
Concen: 0.560 ppbv  
RT: 6.587 min Scan# 2007  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

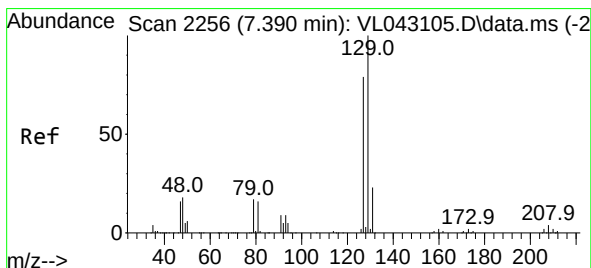
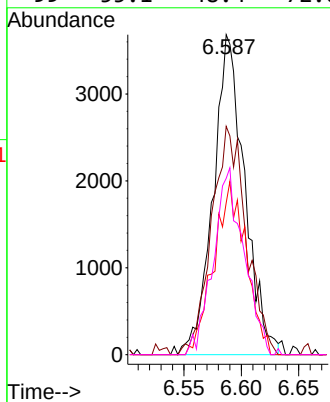
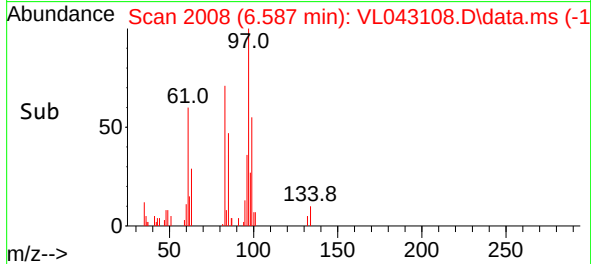
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



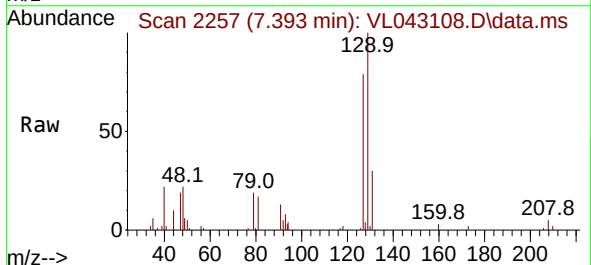
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 699   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 71.4     | 64.6 96.8   |
| 85 47.5     | 40.6 60.8   |
| 99 55.1     | 48.4 72.6   |

Manual Integrations  
APPROVED

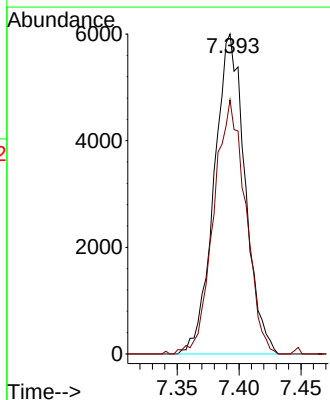
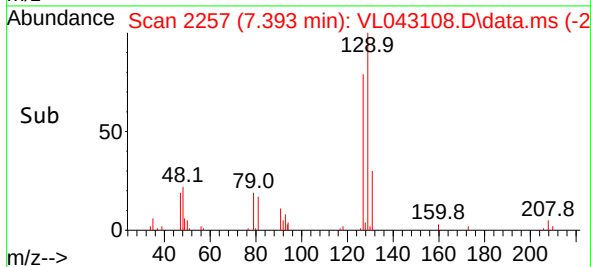
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

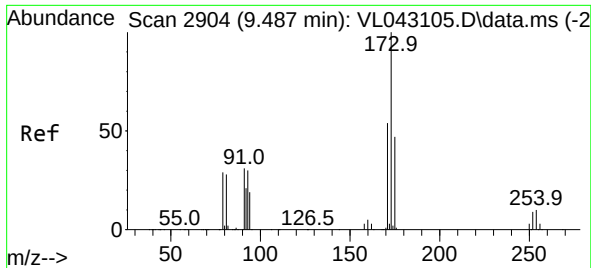


#48  
Dibromochloromethane  
Concen: 0.498 ppbv  
RT: 7.393 min Scan# 2257  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



|             |             |       |  |
|-------------|-------------|-------|--|
| Tgt Ion:129 | Resp: 10413 |       |  |
| Ion Ratio   | Lower       | Upper |  |
| 129 100     |             |       |  |
| 127 82.2    | 39.3        | 117.9 |  |





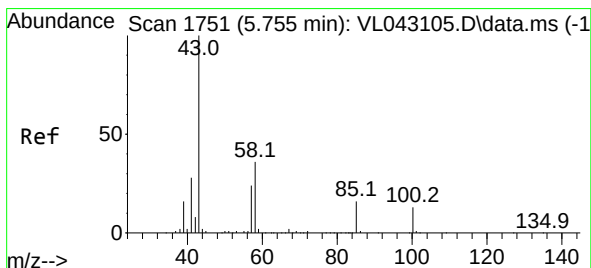
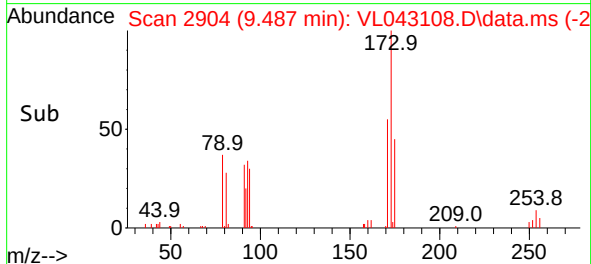
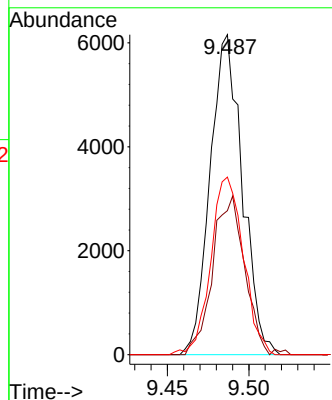
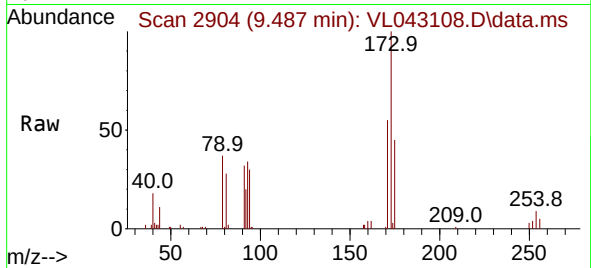
#49  
Bromoform  
Concen: 0.498 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion:173 Resp: 845  
Ion Ratio Lower Upper  
173 100  
175 49.6 38.8 58.2  
171 56.3 41.7 62.5

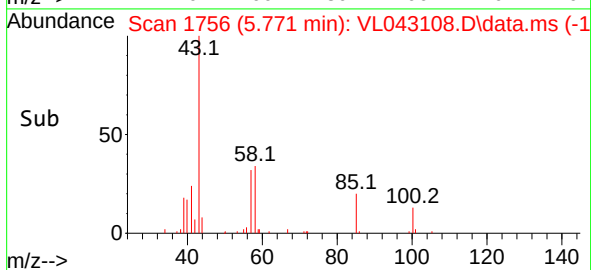
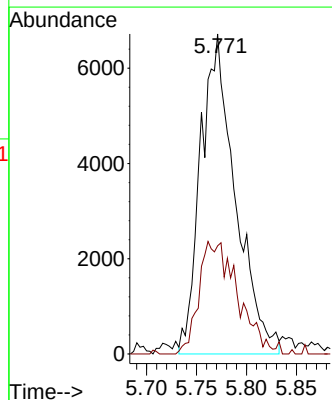
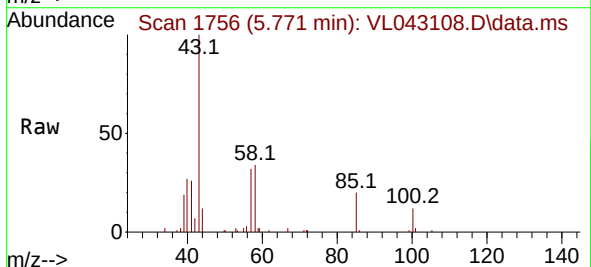
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

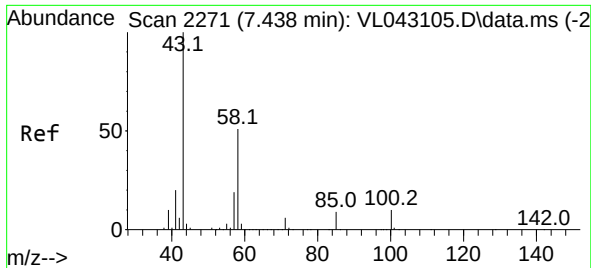


#50  
4-Methyl-2-Pentanone  
Concen: 0.520 ppbv m  
RT: 5.771 min Scan# 1756  
Delta R.T. 0.016 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 16289  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7#







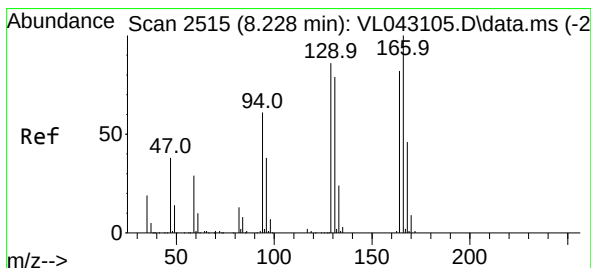
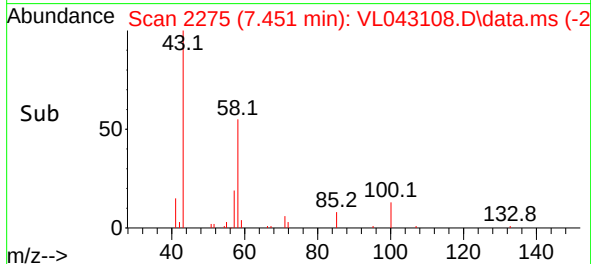
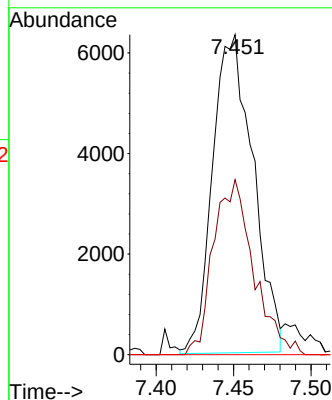
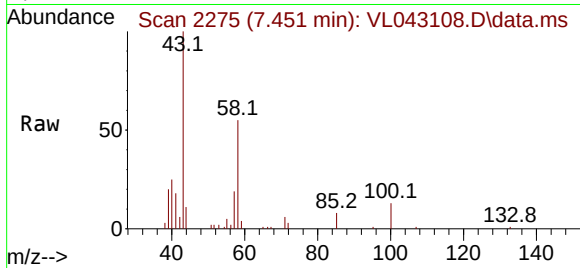
#51  
2-Hexanone  
Concen: 0.491 ppbv  
RT: 7.451 min Scan# 2118  
Delta R.T. 0.013 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 43 Resp: 1148  
Ion Ratio Lower Upper  
43 100  
58 54.7 40.4 60.6  
98 0.0 0.1 0.1

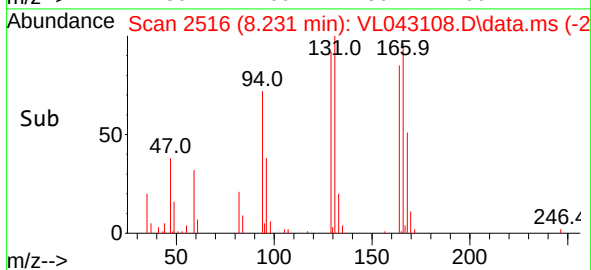
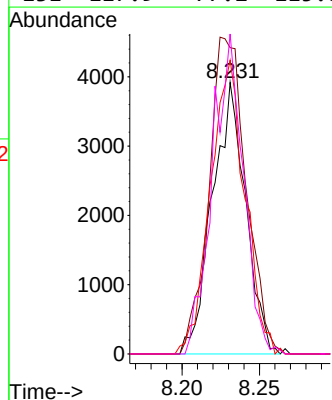
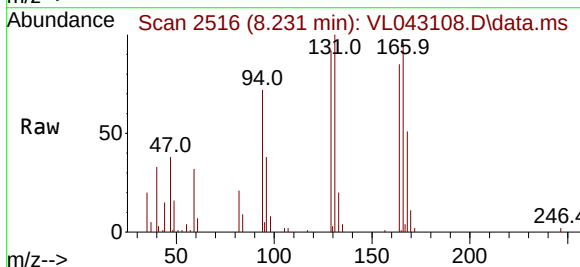
Manual Integrations  
APPROVED

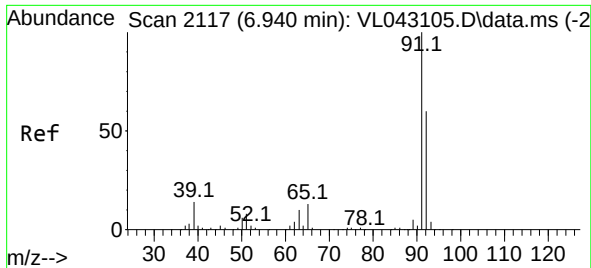
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#52  
Tetrachloroethene  
Concen: 0.513 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:164 Resp: 5863  
Ion Ratio Lower Upper  
164 100  
166 112.8 97.6 146.4  
129 106.1 84.5 126.7  
131 117.9 77.2 115.8





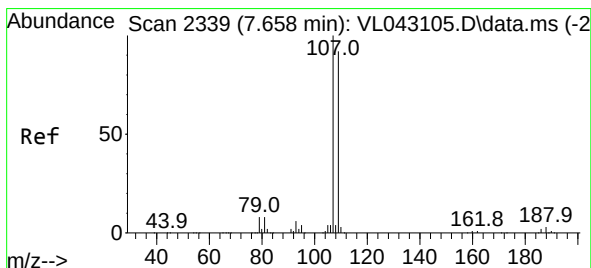
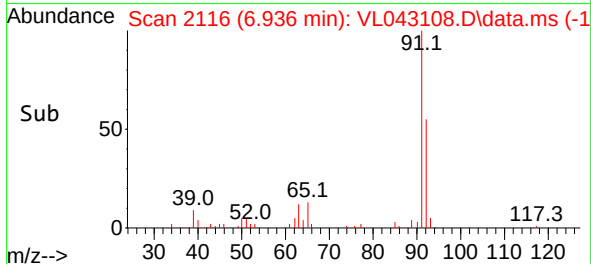
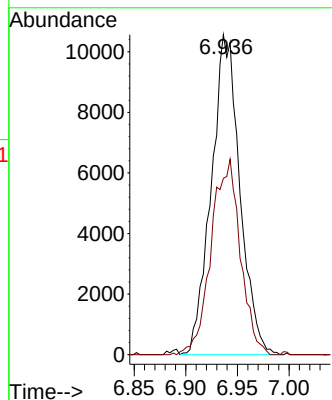
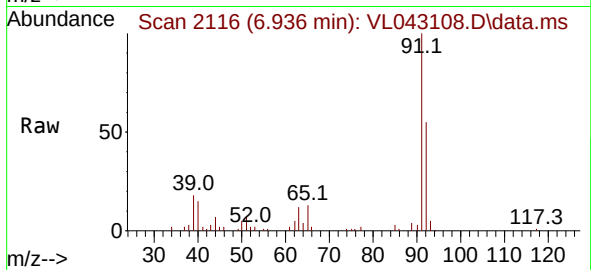
#53  
Toluene  
Concen: 0.542 ppbv  
RT: 6.936 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 20380  
Ion Ratio Lower Upper  
91 100  
92 62.1 48.8 73.2

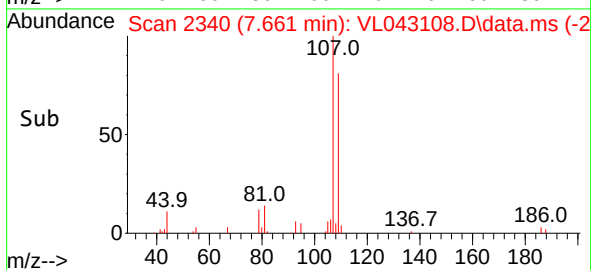
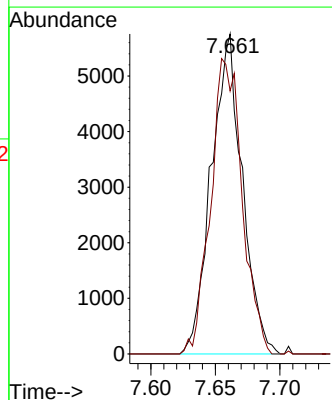
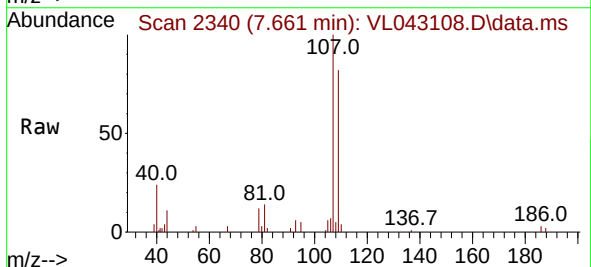
Manual Integrations  
APPROVED

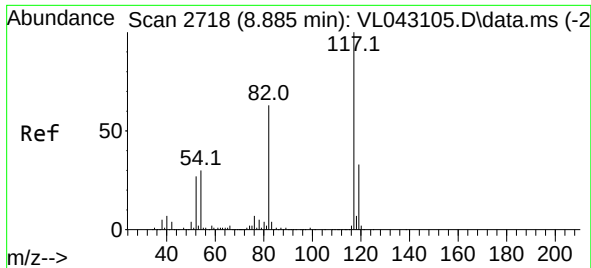
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#54  
1,2-Dibromoethane  
Concen: 0.486 ppbv  
RT: 7.661 min Scan# 2340  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

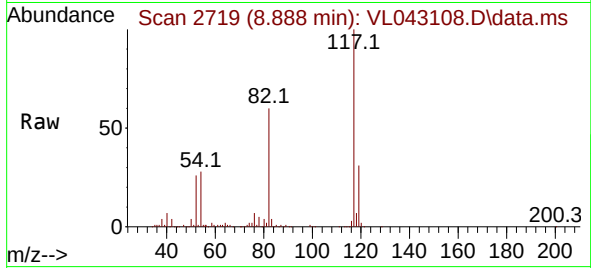
Tgt Ion:107 Resp: 9586  
Ion Ratio Lower Upper  
107 100  
109 82.2 73.4 110.2





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

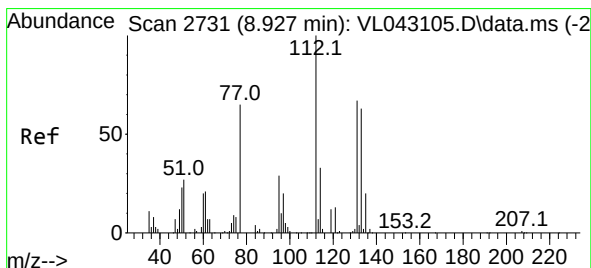
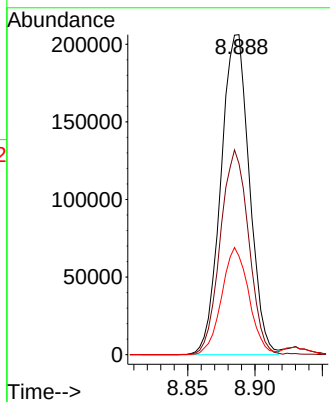
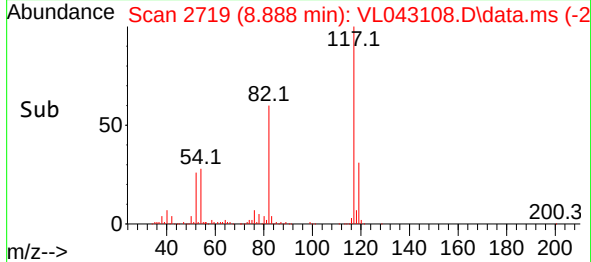
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



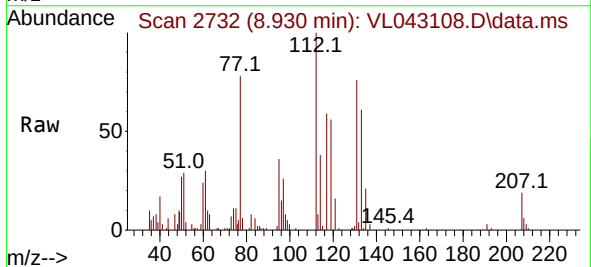
Tgt Ion:117 Resp: 30344  
Ion Ratio Lower Upper  
117 100  
82 63.9 53.8 80.8  
119 32.1 25.4 38.0

Manual Integrations  
APPROVED

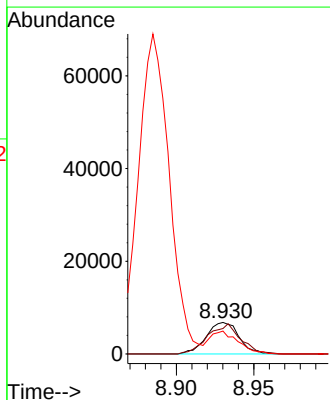
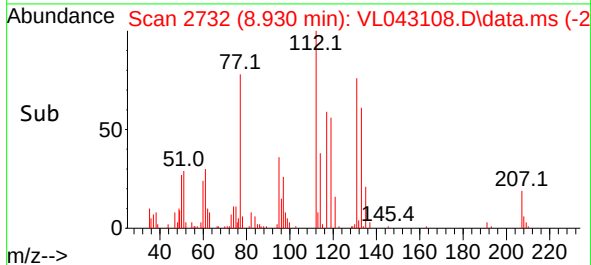
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

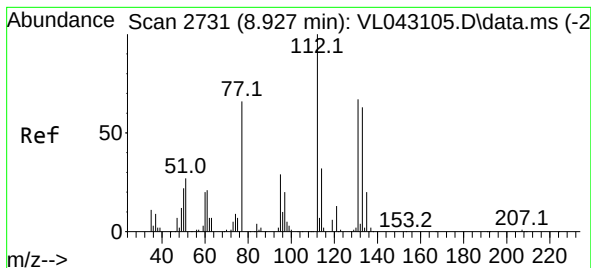


#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.525 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion:131 Resp: 10044  
Ion Ratio Lower Upper  
131 100  
133 94.6 75.7 113.5  
119 1032.5 50.6 76.0#





#57

Chlorobenzene

Concen: 0.540 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

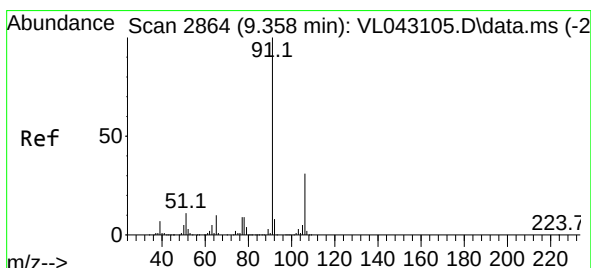
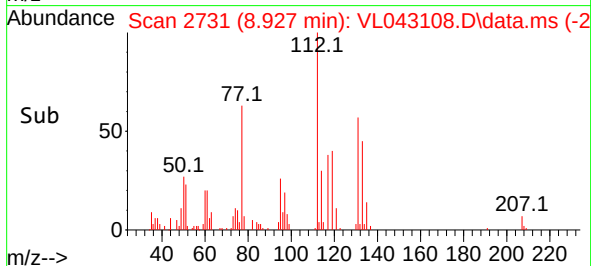
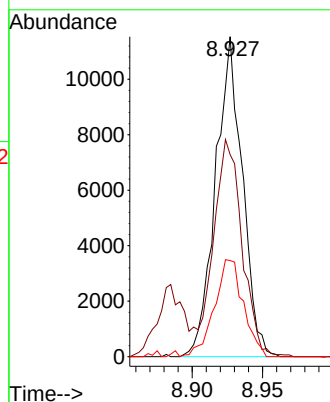
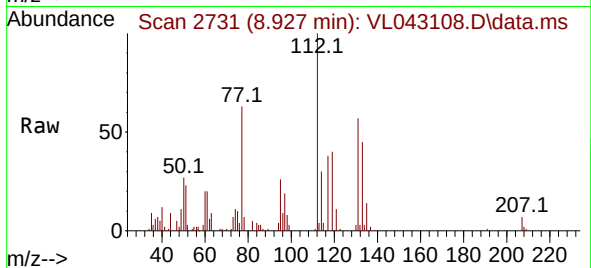
ClientSampleId :

VSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 15318 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 77        | 62.5  | 53.3  | 79.9  |
| 114       | 30.0  | 29.3  | 35.8  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#58

Ethyl Benzene

Concen: 0.521 ppbv

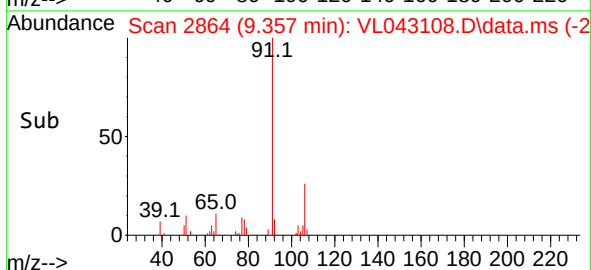
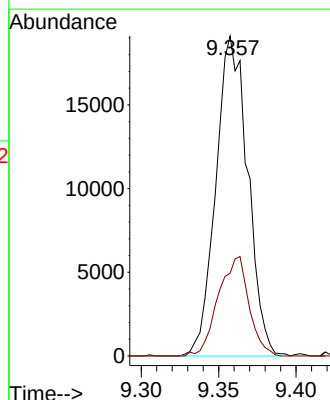
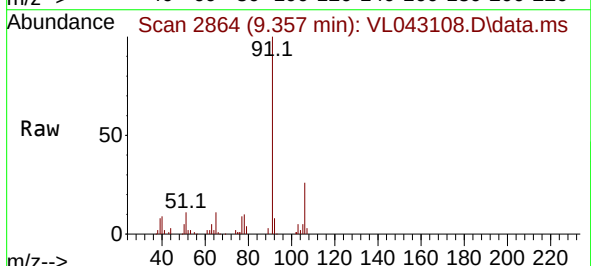
RT: 9.357 min Scan# 2864

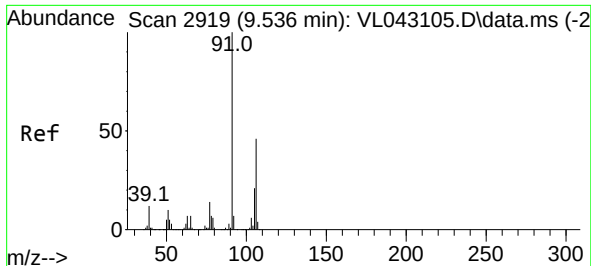
Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 27330 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 25.8  | 24.8  | 37.2  |





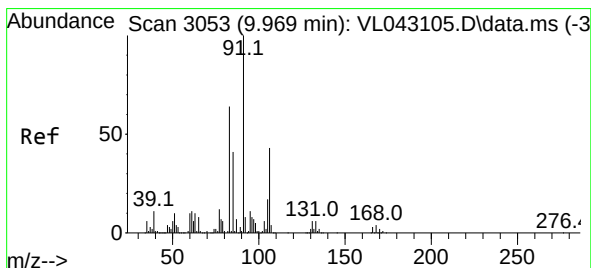
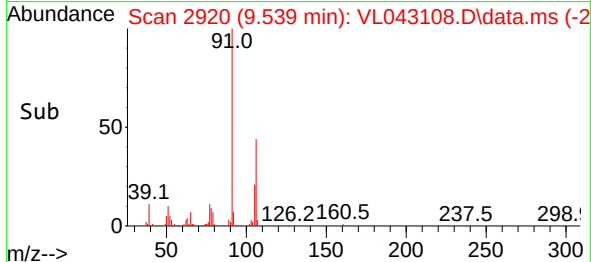
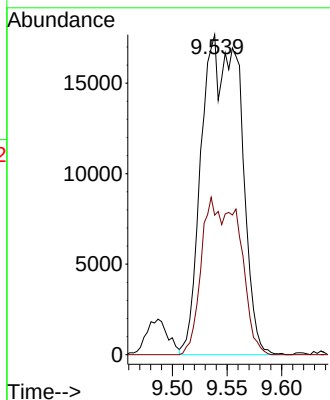
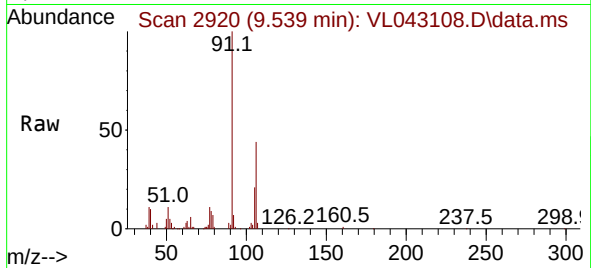
#59  
m/p-Xylene  
Concen: 1.068 ppbv m  
RT: 9.539 min Scan# 2919  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 4440  
Ion Ratio Lower Upper  
91 100  
106 47.2 38.0 57.0

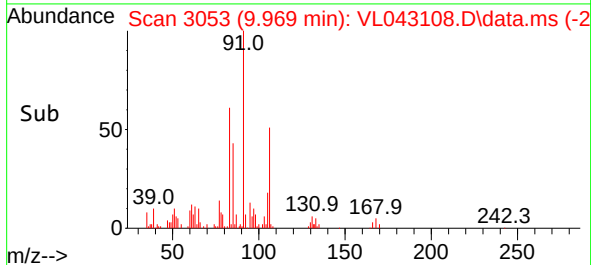
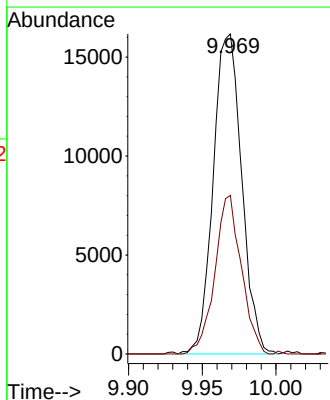
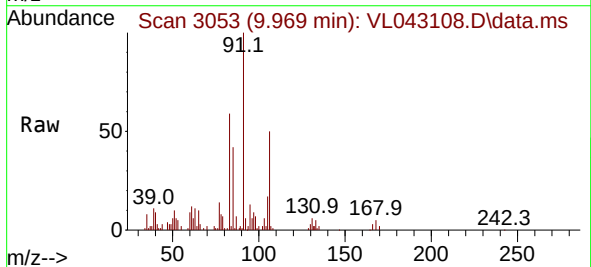
Manual Integrations  
APPROVED

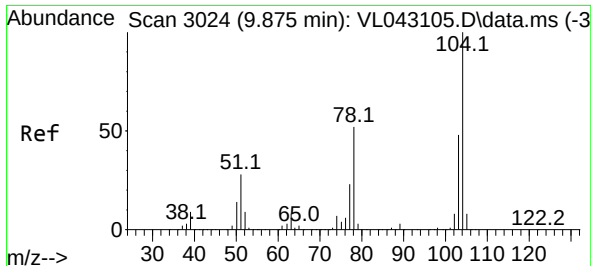
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#60  
o-Xylene  
Concen: 0.530 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 21745  
Ion Ratio Lower Upper  
91 100  
106 46.2 21.9 65.8





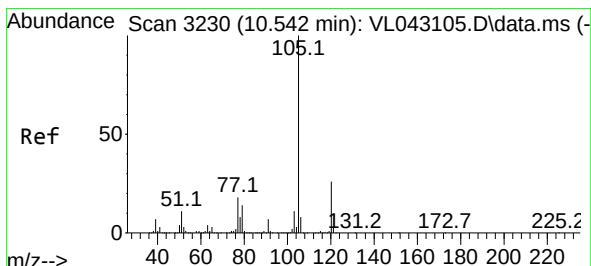
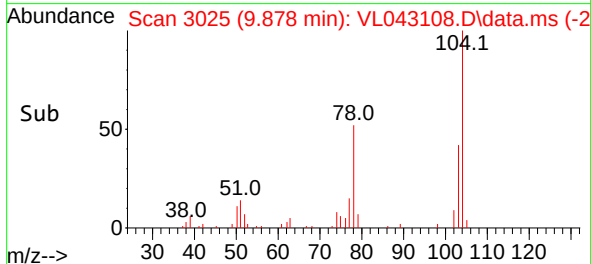
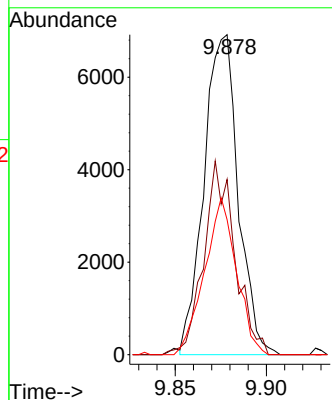
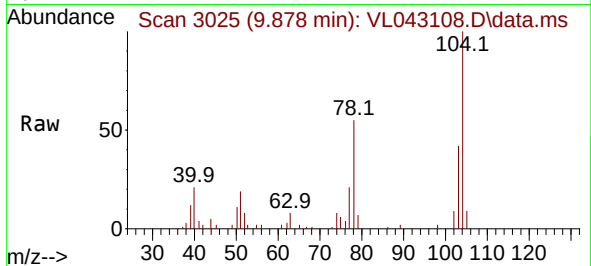
#61  
Styrene  
Concen: 0.489 ppbv  
RT: 9.878 min Scan# 3024  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:104 Resp: 905  
Ion Ratio Lower Upper  
104 100  
78 55.0 40.2 60.2  
103 45.6 36.9 55.3

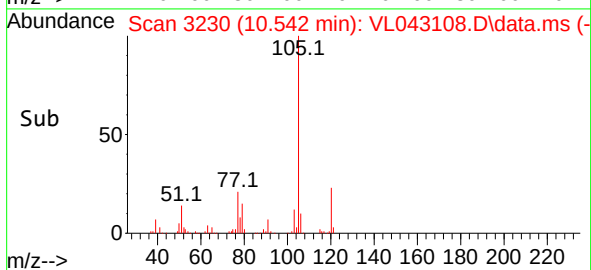
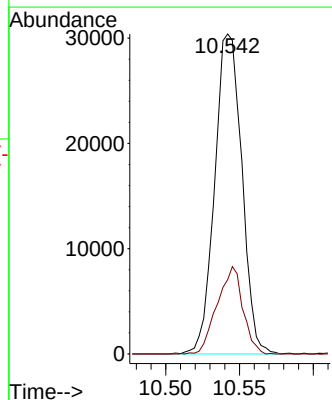
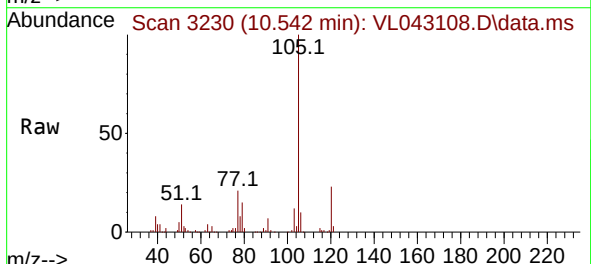
Manual Integrations  
APPROVED

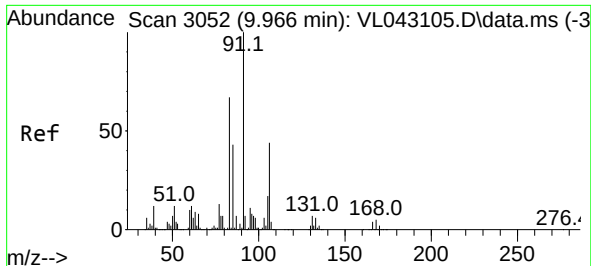
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#62  
Isopropylbenzene  
Concen: 0.525 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.2 30.4





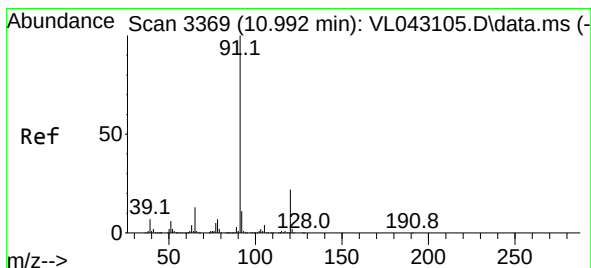
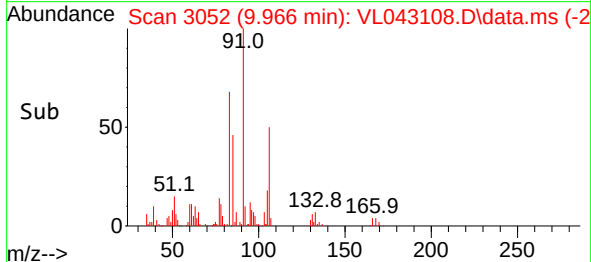
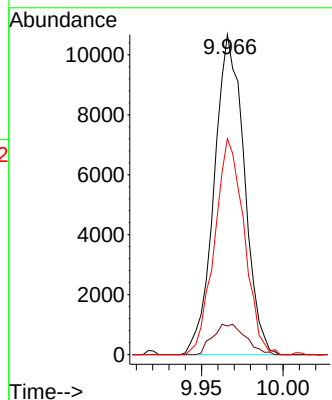
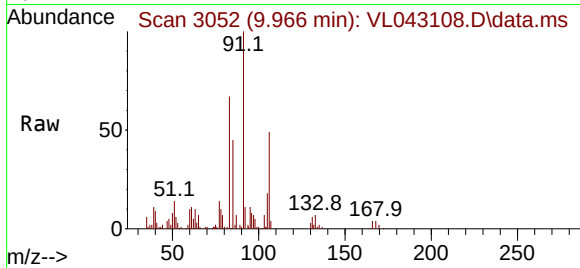
#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.497 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 83 Resp: 1365  
Ion Ratio Lower Upper  
83 100  
131 10.5 4.8 14.3  
85 66.7 32.0 96.0

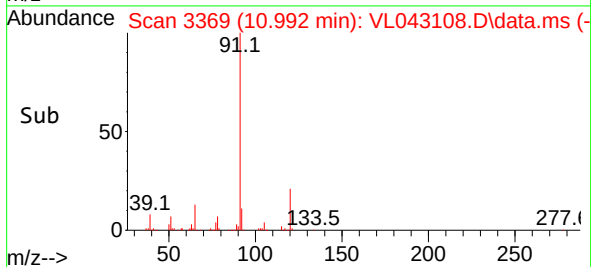
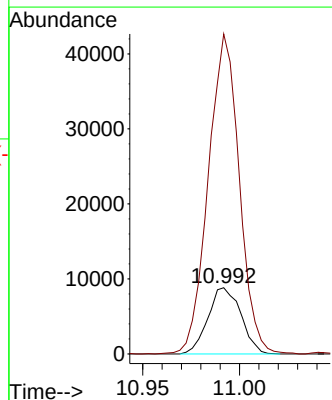
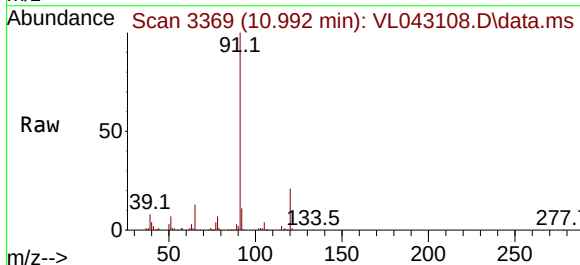
Manual Integrations  
APPROVED

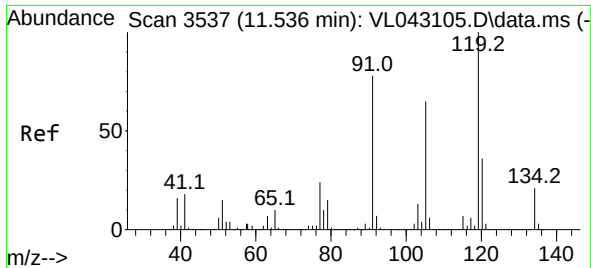
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#64  
n-propylbenzene  
Concen: 0.532 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:120 Resp: 10435  
Ion Ratio Lower Upper  
120 100  
91 455.0 361.6 542.4





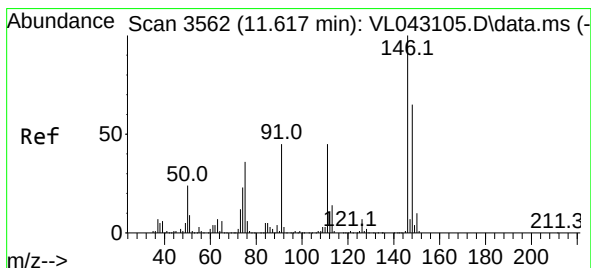
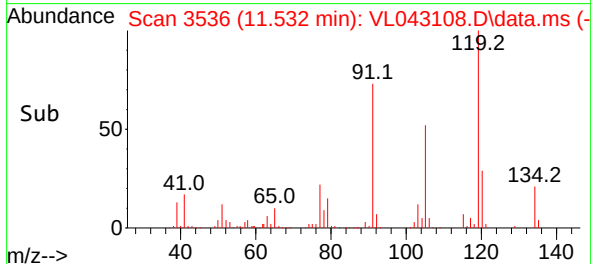
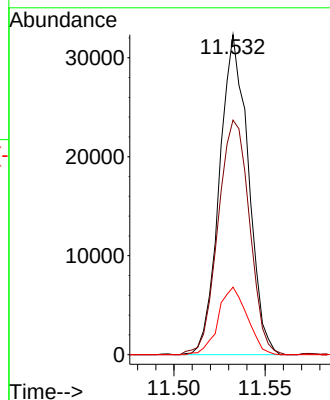
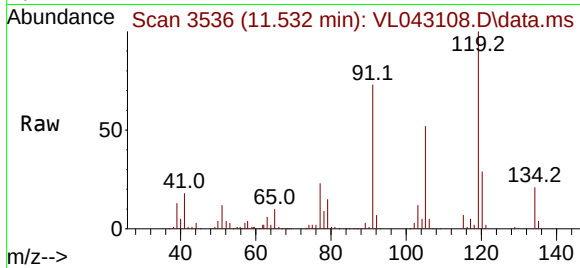
#65  
tert-Butylbenzene  
Concen: 0.543 ppbv  
RT: 11.532 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 119 Resp: 3553  
Ion Ratio Lower Upper  
119 100  
91 80.0 63.4 95.0  
134 21.2 17.3 25.9

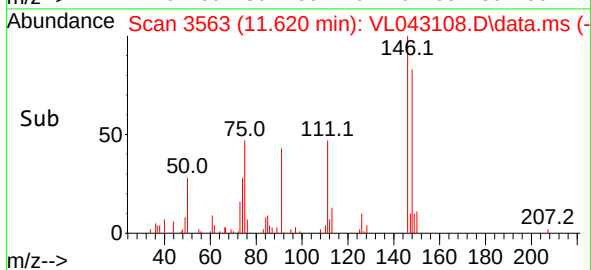
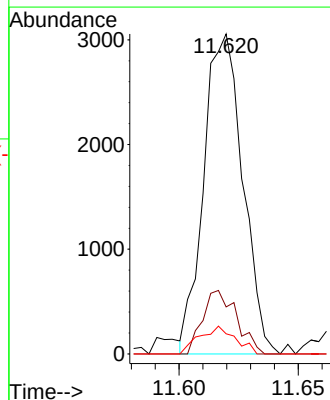
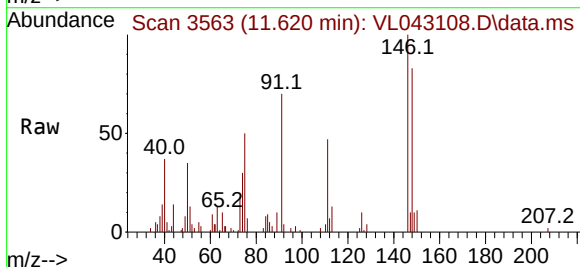
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

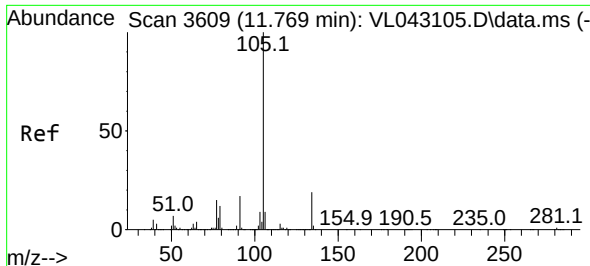


#66  
Benzyl Chloride  
Concen: 0.476 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 3477  
Ion Ratio Lower Upper  
91 100  
126 17.3 14.6 22.0  
128 7.9 4.6 6.8#







#67

sec-Butylbenzene

Concen: 0.541 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

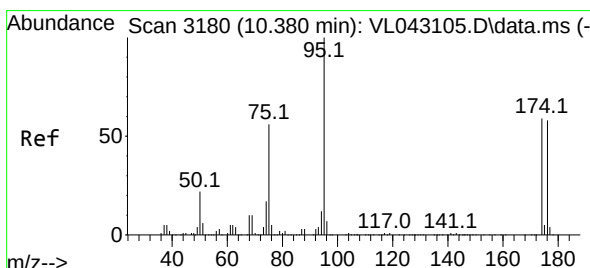
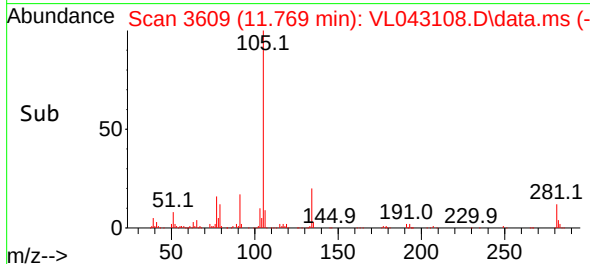
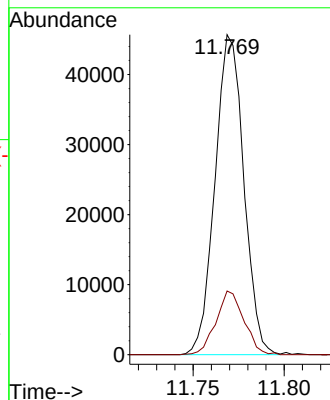
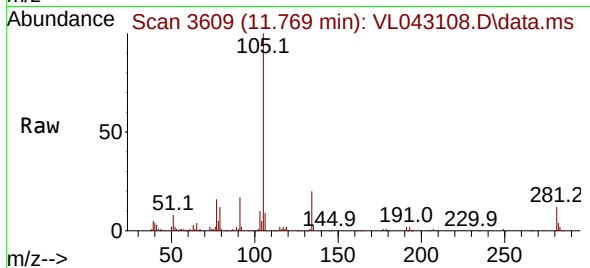
ClientSampleId :

VSTDICC0.5

Tgt Ion:105 Resp: 50259  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 15.5 23.3

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.875 ppbv

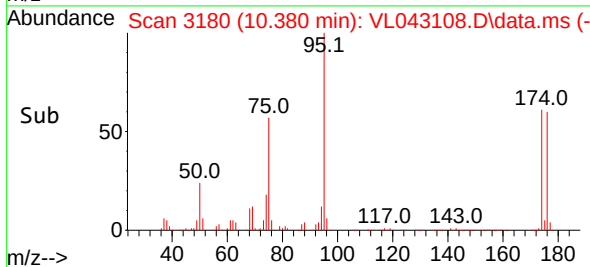
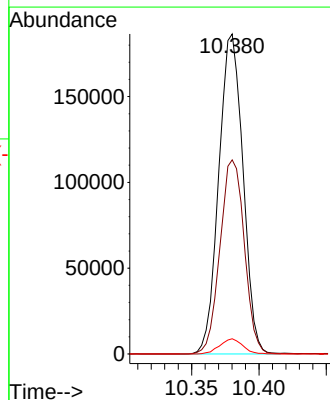
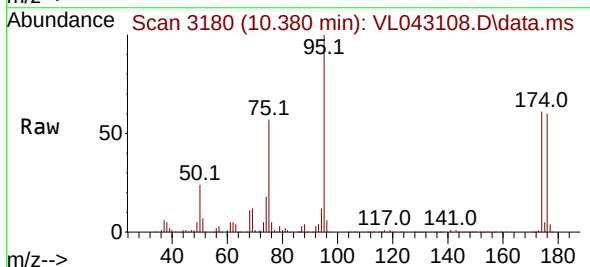
RT: 10.380 min Scan# 3180

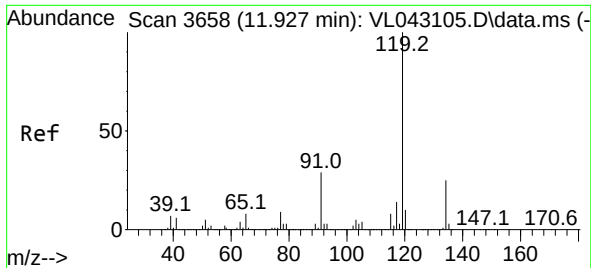
Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

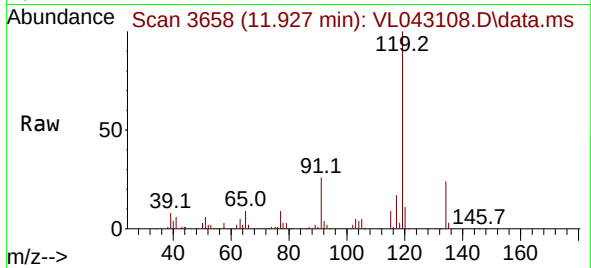
Tgt Ion: 95 Resp: 232904  
 Ion Ratio Lower Upper  
 95 100  
 174 61.0 48.3 72.5  
 175 4.5 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 0.524 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

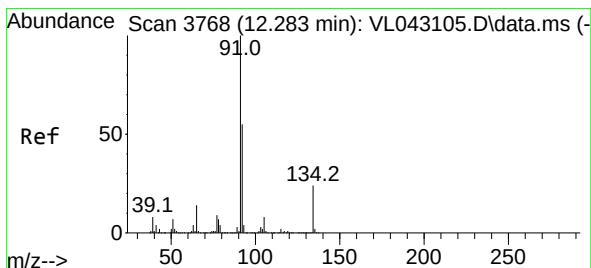
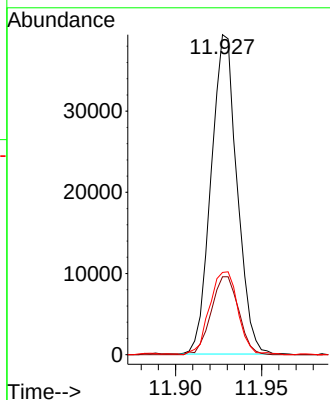
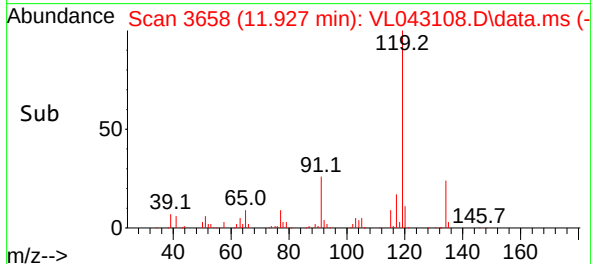
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



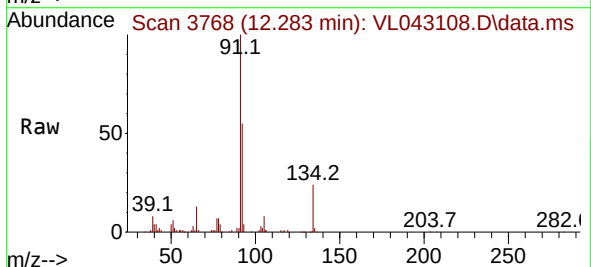
Tgt Ion: 119 Resp: 41360  
Ion Ratio Lower Upper  
119 100  
134 25.8 20.3 30.5  
91 28.9 22.6 33.8

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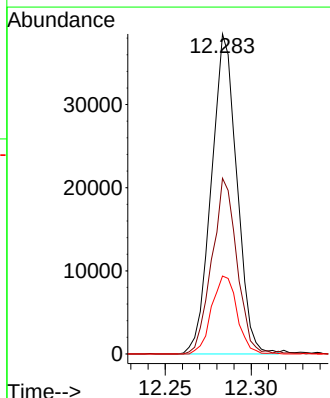
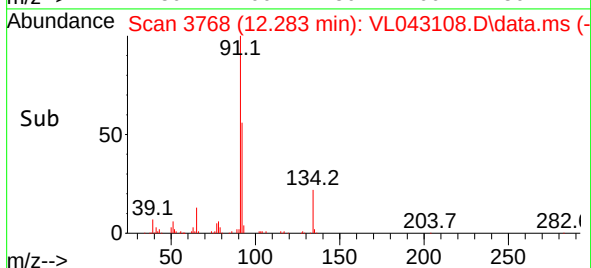
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

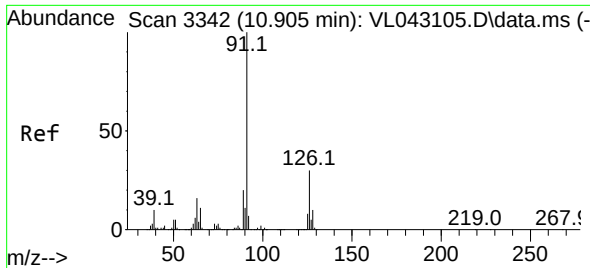


#70  
n-Butylbenzene  
Concen: 0.509 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion: 91 Resp: 39620  
Ion Ratio Lower Upper  
91 100  
92 54.2 44.5 66.7  
134 24.4 19.3 28.9





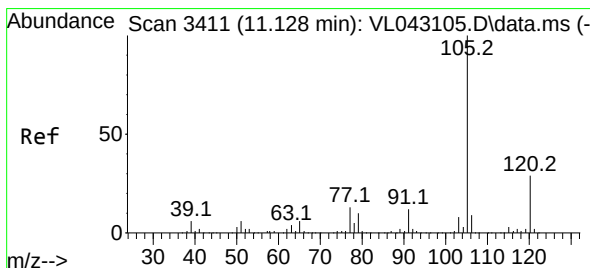
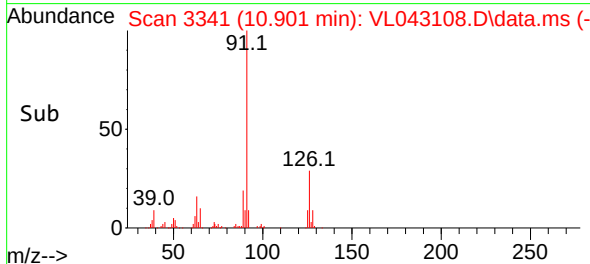
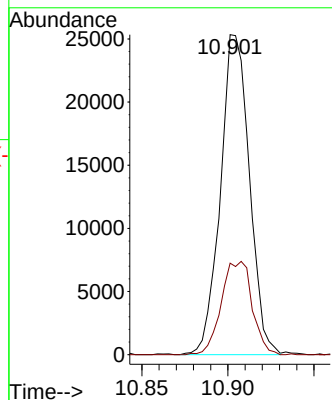
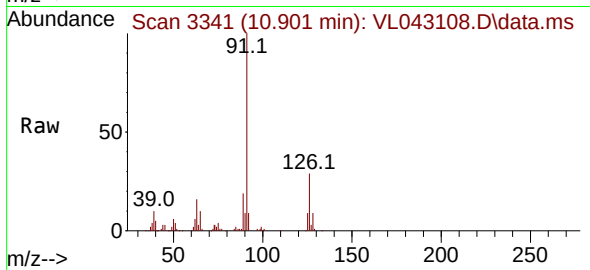
#71  
2-Chlorotoluene  
Concen: 0.526 ppbv  
RT: 10.901 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 2972  
Ion Ratio Lower Upper  
91 100  
126 30.9 12.0 48.0

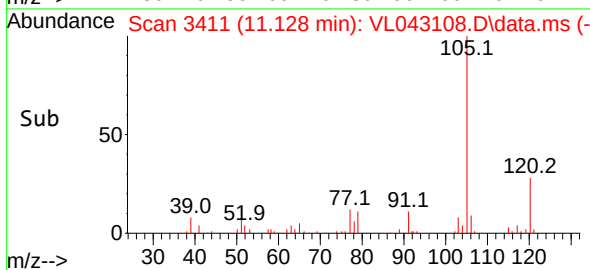
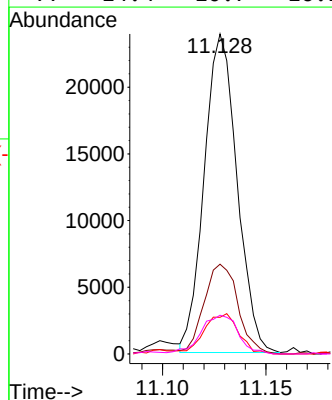
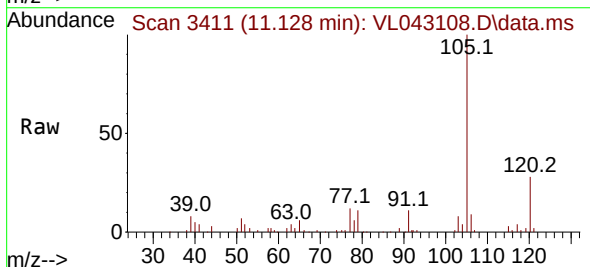
Manual Integrations  
APPROVED

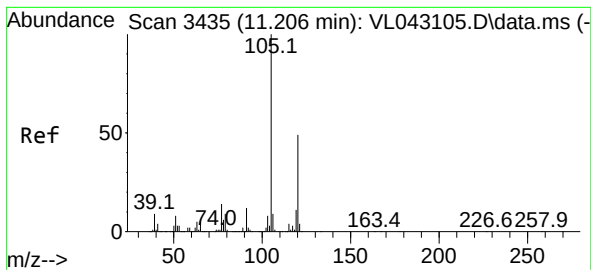
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#72  
4-Ethyltoluene  
Concen: 0.524 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 26408  
Ion Ratio Lower Upper  
105 100  
120 30.8 24.2 36.4  
91 14.6 10.0 15.0  
77 14.4 10.7 16.1





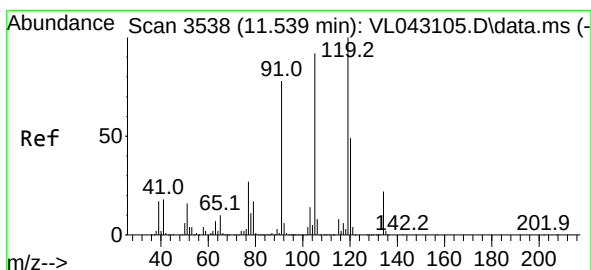
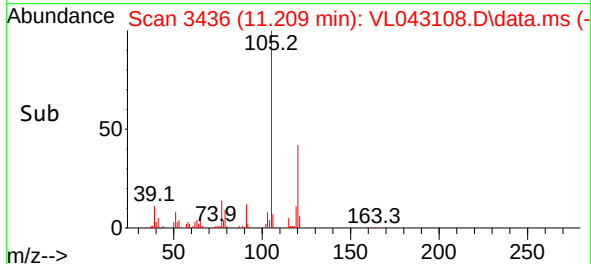
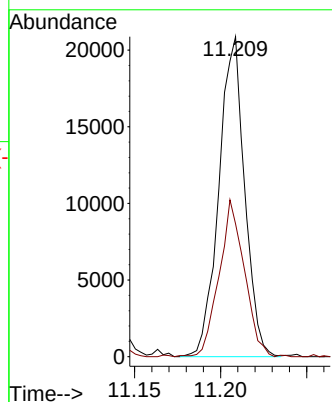
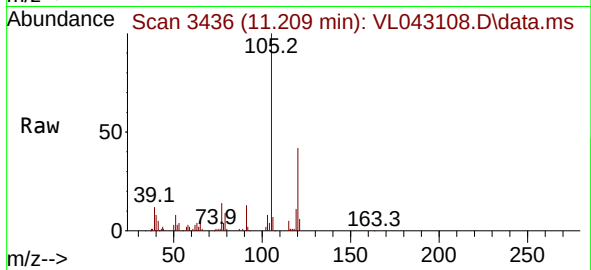
#73  
1,3,5-Trimethylbenzene  
Concen: 0.523 ppbv  
RT: 11.209 min Scan# 3435  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:105 Resp: 21754  
Ion Ratio Lower Upper  
105 100  
120 41.1 39.0 58.6

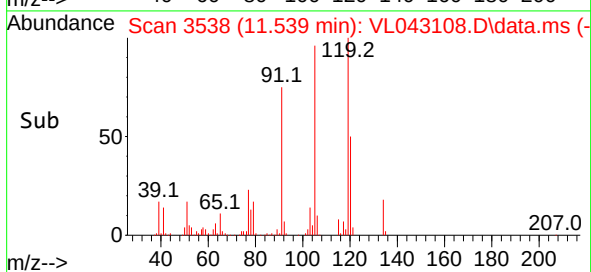
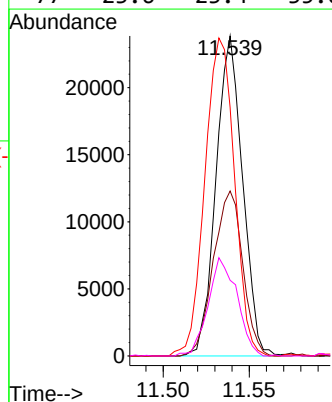
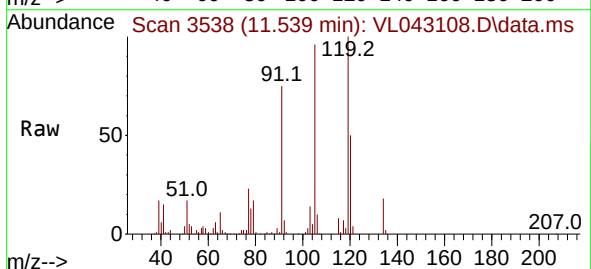
Manual Integrations  
APPROVED

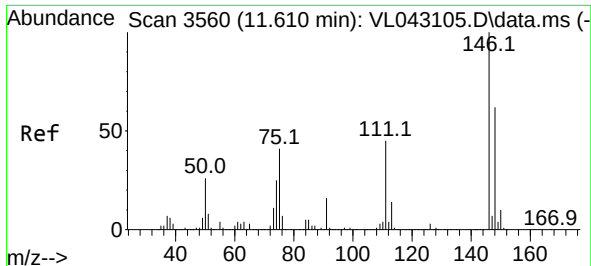
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 0.551 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

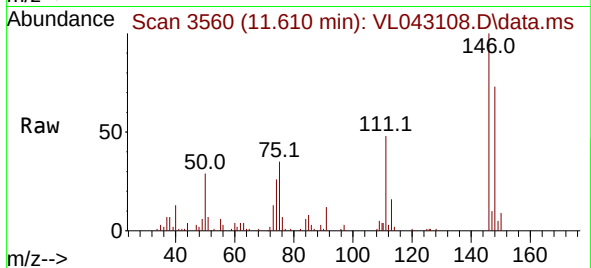
Tgt Ion:105 Resp: 25663  
Ion Ratio Lower Upper  
105 100  
120 51.5 42.8 64.2  
91 77.7 68.3 102.5  
77 23.6 23.4 35.0





#75  
1,3-Dichlorobenzene  
Concen: 0.507 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

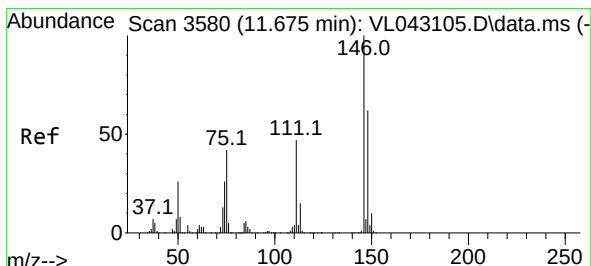
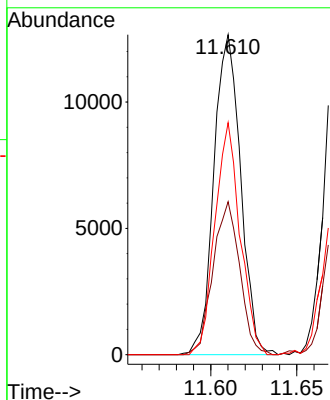
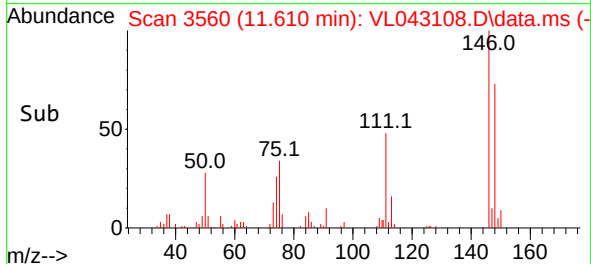
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



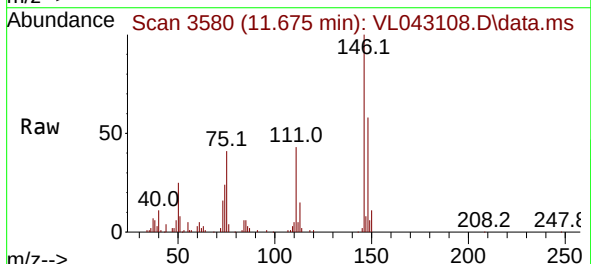
Tgt Ion:146 Resp: 1369  
Ion Ratio Lower Upper  
146 100  
111 47.8 23.3 69.9  
148 68.4 31.6 95.0

Manual Integrations  
APPROVED

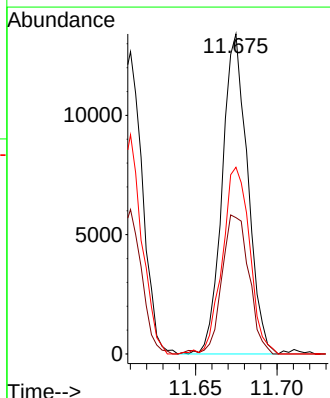
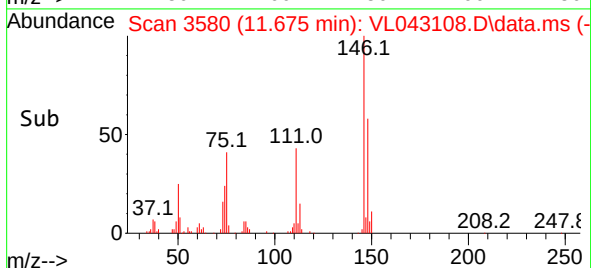
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

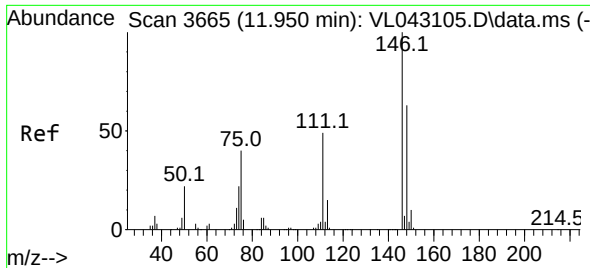


#76  
1,4-Dichlorobenzene  
Concen: 0.533 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34



Tgt Ion:146 Resp: 14514  
Ion Ratio Lower Upper  
146 100  
111 46.4 22.4 67.0  
148 62.7 31.6 94.7





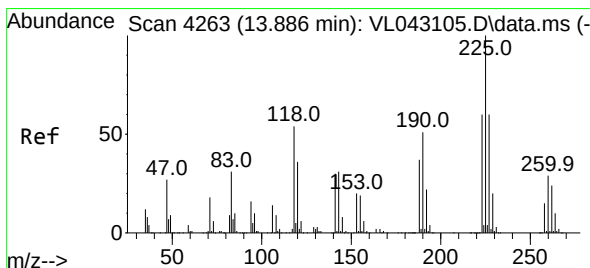
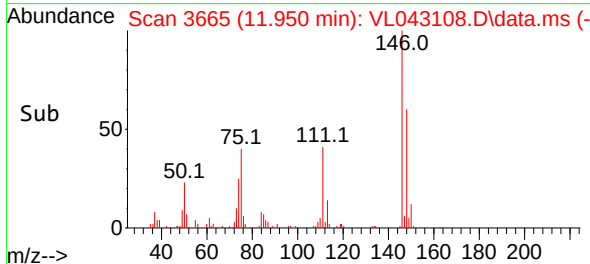
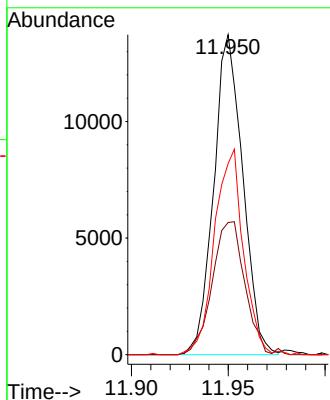
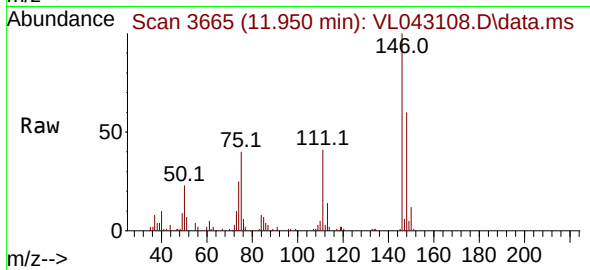
#77  
1,2-Dichlorobenzene  
Concen: 0.548 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:146 Resp: 14324  
Ion Ratio Lower Upper  
146 100  
111 46.9 24.0 72.0  
148 64.1 31.1 93.3

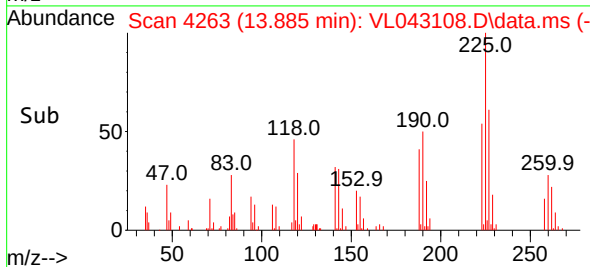
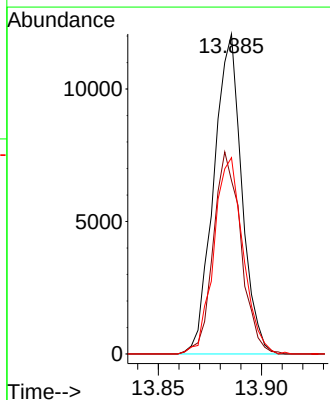
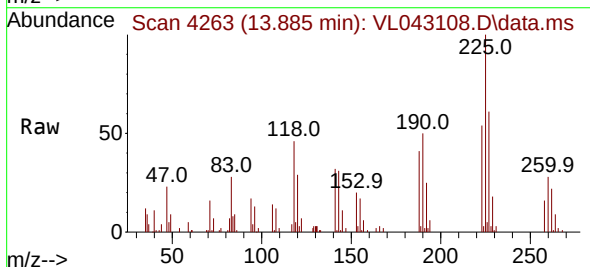
Manual Integrations  
APPROVED

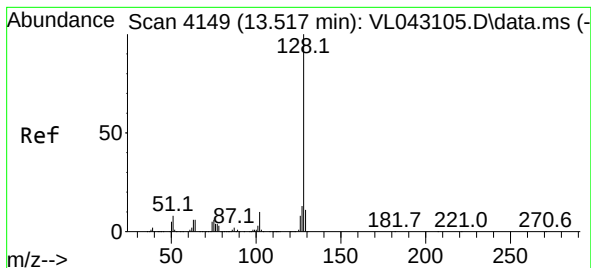
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.564 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:225 Resp: 11400  
Ion Ratio Lower Upper  
225 100  
223 62.4 50.2 75.4  
227 64.2 49.6 74.4





#79

Naphthalene

Concen: 0.483 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

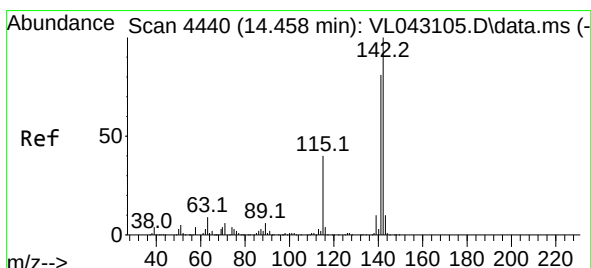
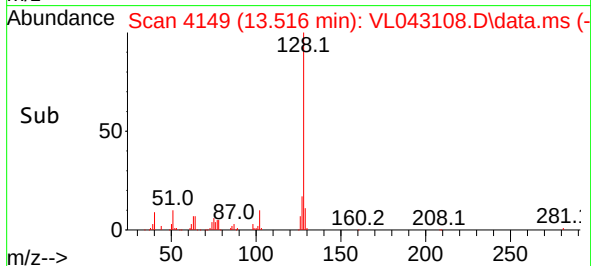
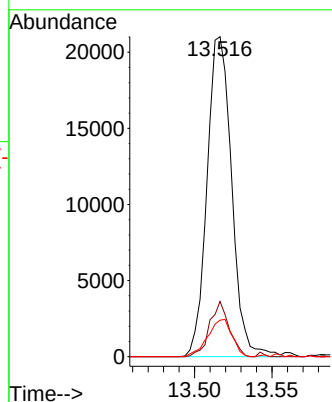
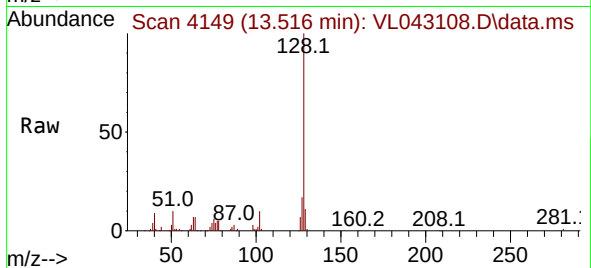
VSTDIC0.5

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 2324 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 17.3  | 10.5  | 15.7 |
| 129       | 11.4  | 9.1   | 13.7 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 0.305 ppbv

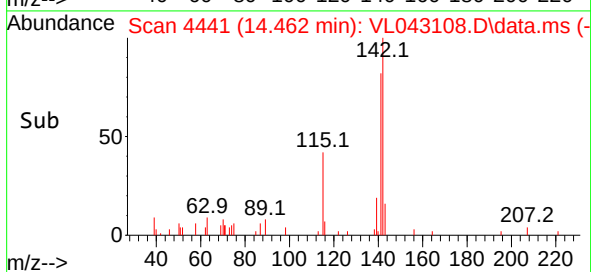
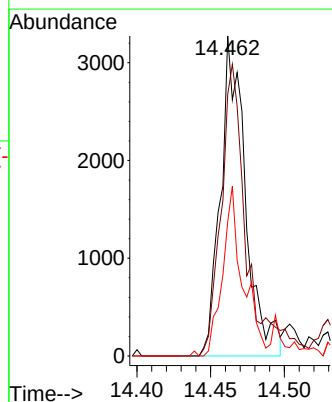
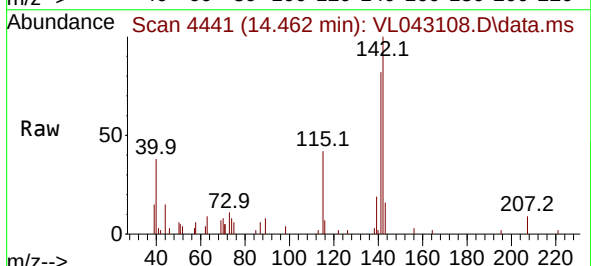
RT: 14.462 min Scan# 4441

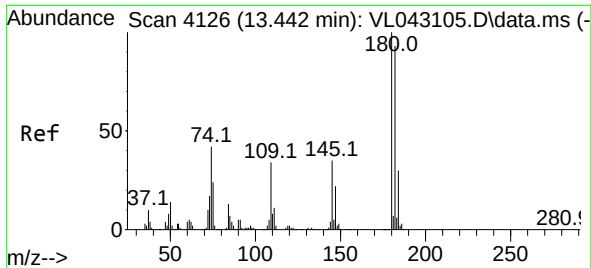
Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

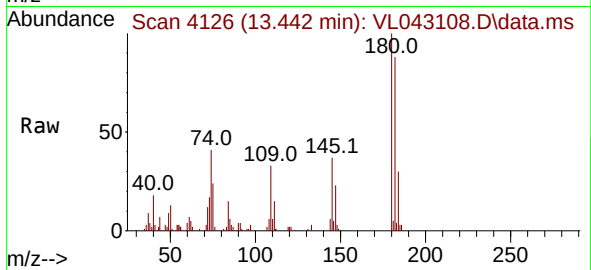
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 142   | Resp: | 3874 |
| Ion Ratio | Lower | Upper |      |
| 142       | 100   |       |      |
| 141       | 92.6  | 64.6  | 97.0 |
| 115       | 51.2  | 30.2  | 45.4 |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.416 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

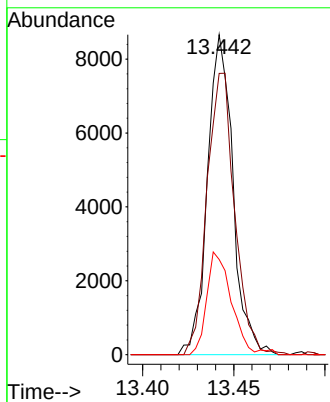
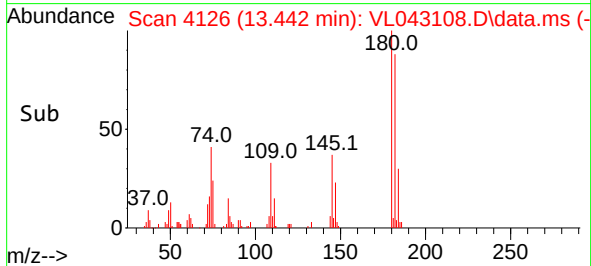
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 839        |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.8  | 75.5 113.3 |
| 184         | 31.4  | 23.9 35.9  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043109.D  
Acq On : 14 Oct 2025 13:08  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:54:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.790  | 49    | 99997    | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 332574   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 299676   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 233673   | 10.032   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.300% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 5) Vinyl Chloride             | 1.583  | 62    | 554      | 0.100    | ppbv       | # 33     |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 2605m    | 0.112    | ppbv       |          |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 2530m    | 0.106    | ppbv       |          |
| 38) Trichloroethene           | 4.561  | 130   | 1399m    | 0.107    | ppbv       |          |
| 52) Tetrachloroethene         | 8.231  | 164   | 1149m    | 0.102    | ppbv       |          |
| 54) 1,2-Dibromoethane         | 7.658  | 107   | 2201     | 0.113    | ppbv       | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 3053     | 0.113    | ppbv       | 90       |
| 79) Naphthalene               | 13.516 | 128   | 3792m    | 0.080    | ppbv       |          |

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

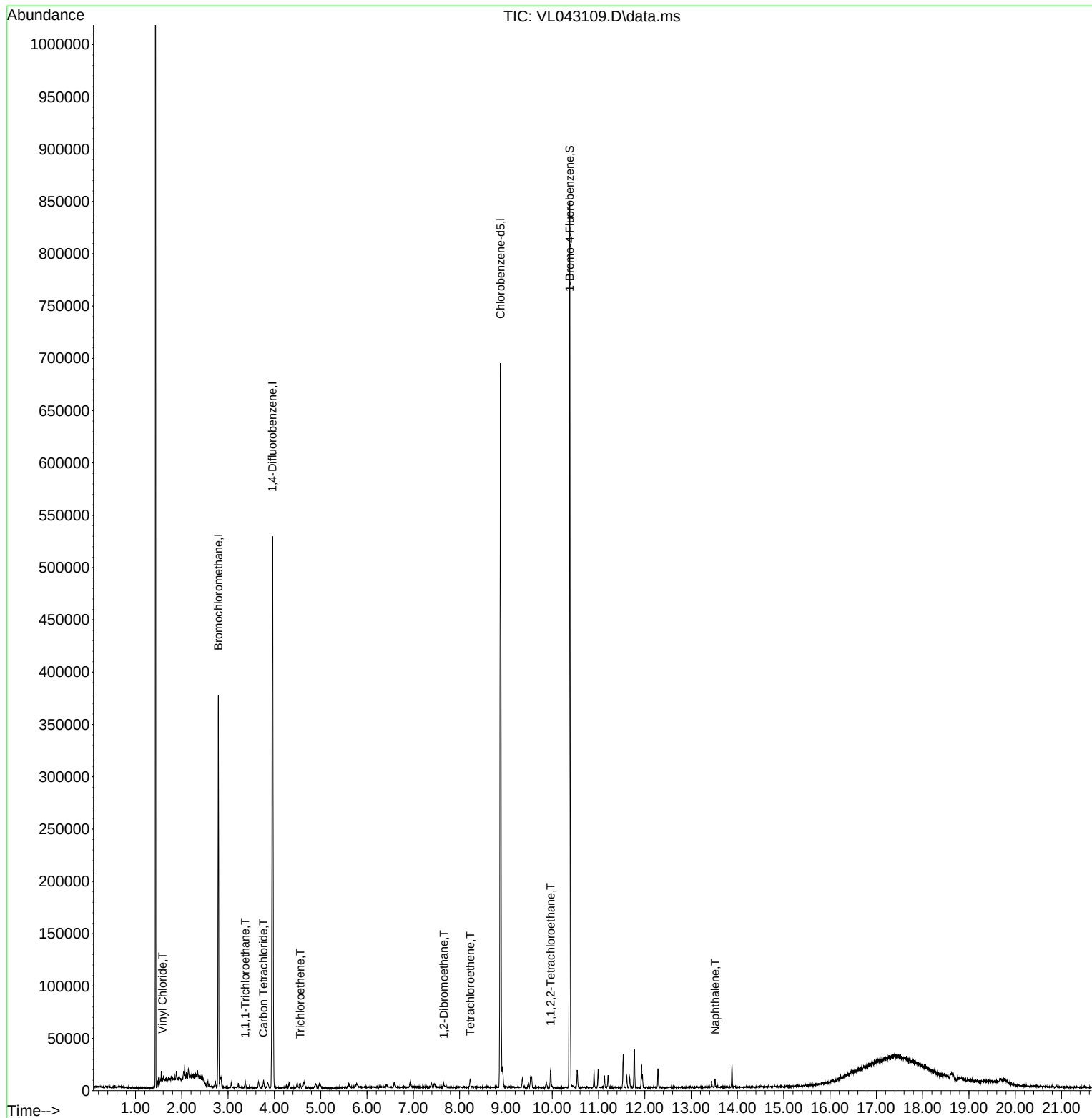
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043109.D  
Acq On : 14 Oct 2025 13:08  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

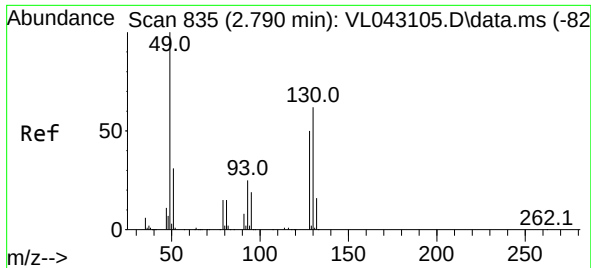
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:54:22 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Oct 15 01:49:43 2025  
Response via : Initial Calibration





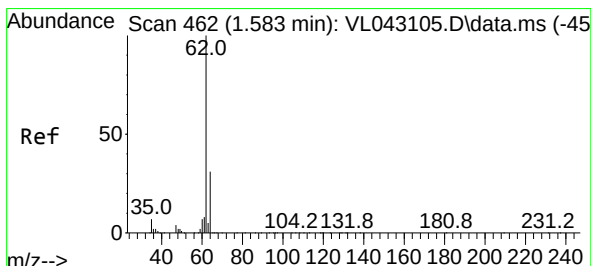
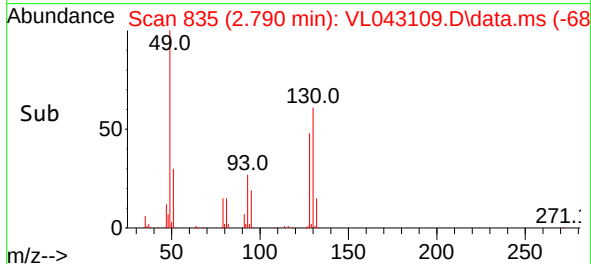
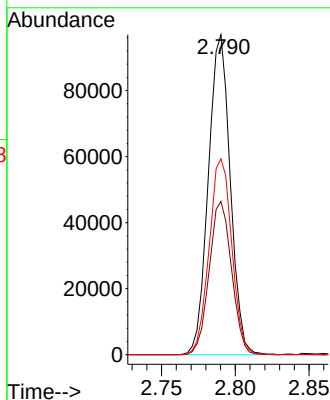
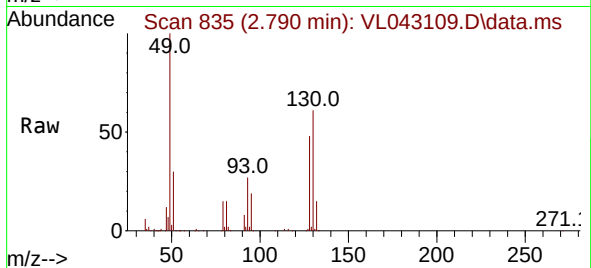
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

Tgt Ion: 49 Resp: 9999  
Ion Ratio Lower Upper  
49 100  
128 48.9 24.4 73.4  
130 63.3 31.0 93.0

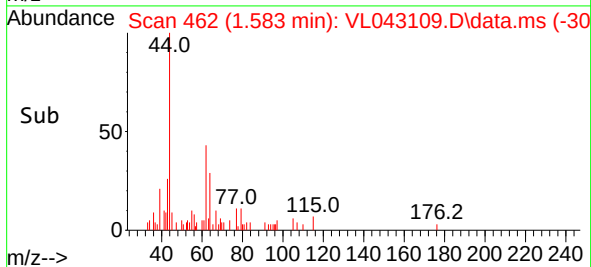
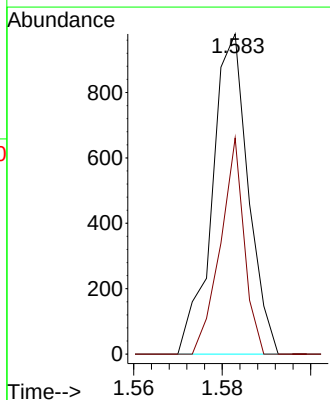
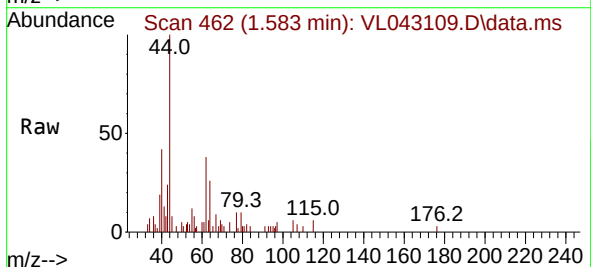
Manual Integrations  
APPROVED

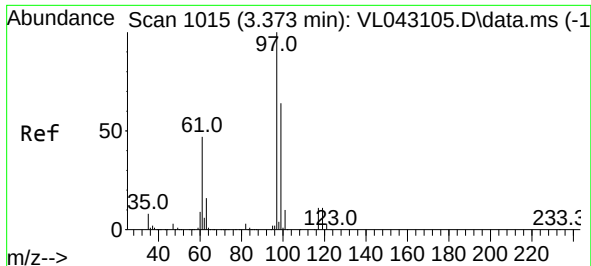
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#5  
Vinyl Chloride  
Concen: 0.100 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

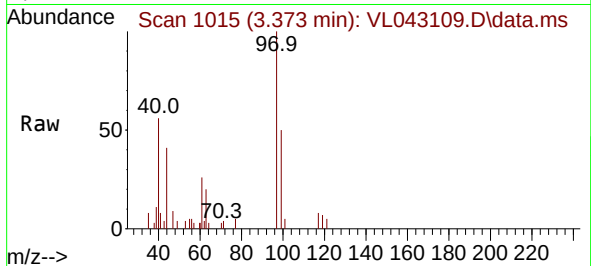
Tgt Ion: 62 Resp: 554  
Ion Ratio Lower Upper  
62 100  
64 67.5 24.6 36.8#





#32  
1,1,1-Trichloroethane  
Concen: 0.112 ppbv m  
RT: 3.373 min Scan# 1015  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

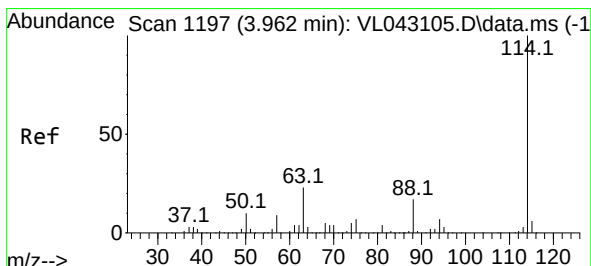
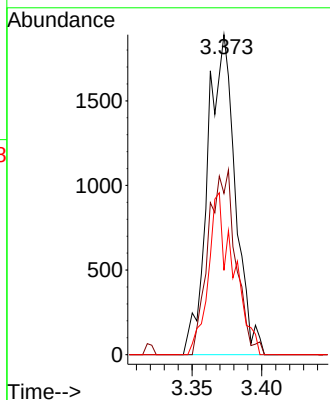
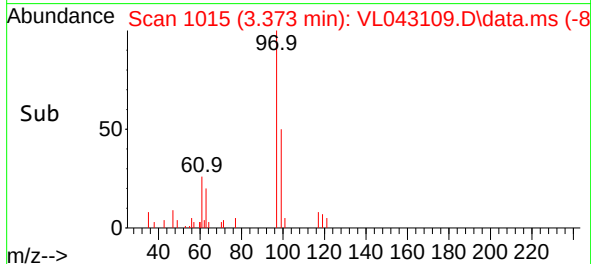
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



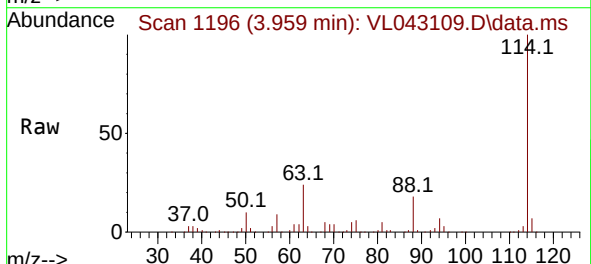
Tgt Ion: 97 Resp: 260  
Ion Ratio Lower Upper  
97 100  
99 57.5 51.3 76.9  
61 46.3 38.4 57.6

Manual Integrations  
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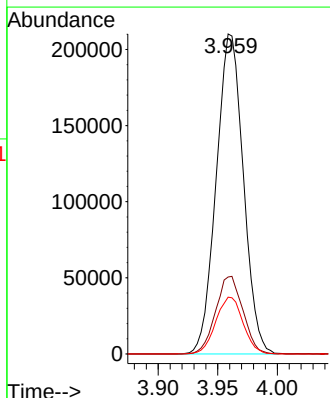
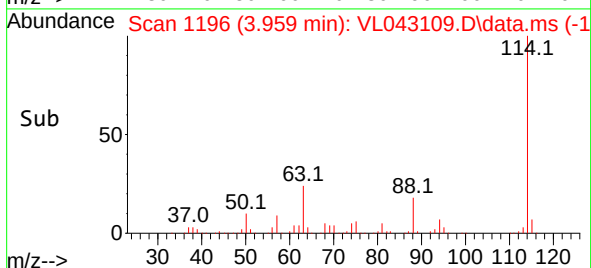
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

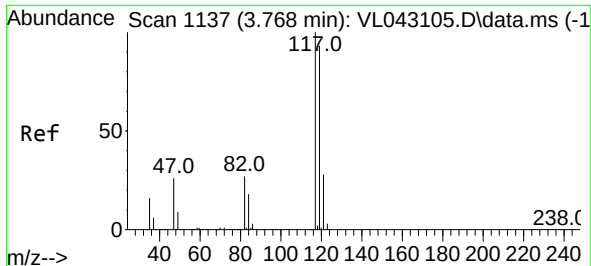


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08



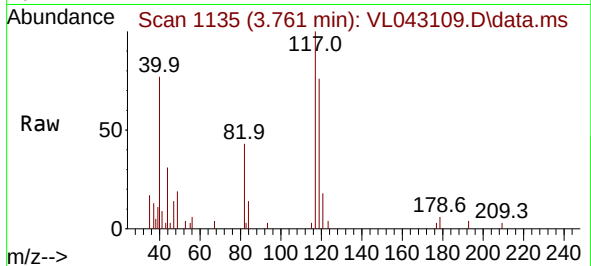
Tgt Ion:114 Resp: 332574  
Ion Ratio Lower Upper  
114 100  
63 24.3 19.3 28.9  
88 17.9 13.9 20.9





#35  
Carbon Tetrachloride  
Concen: 0.106 ppbv m  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.007 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

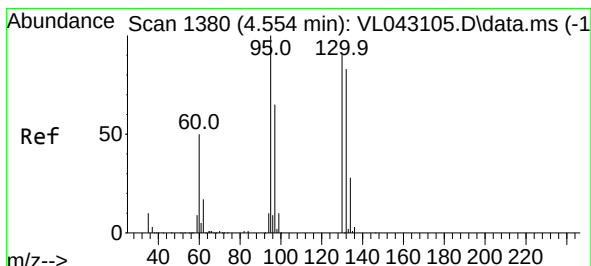
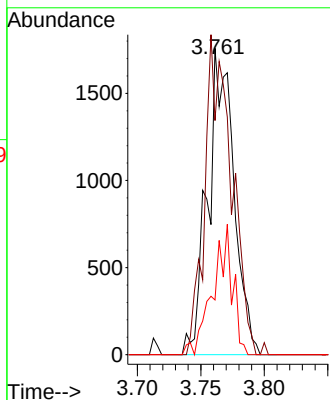
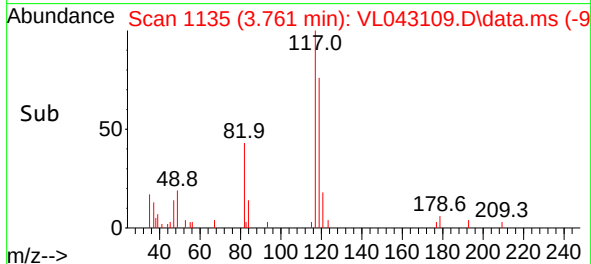
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



Tgt Ion:117 Resp: 2530  
Ion Ratio Lower Upper  
117 100  
119 76.4 74.1 111.1  
121 17.9 22.2 33.2

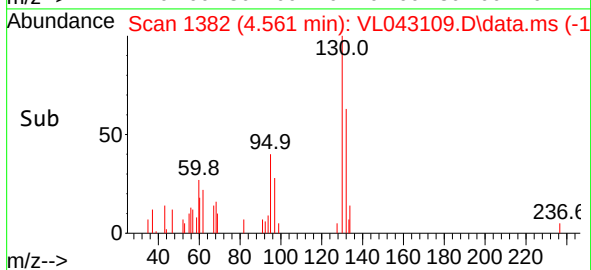
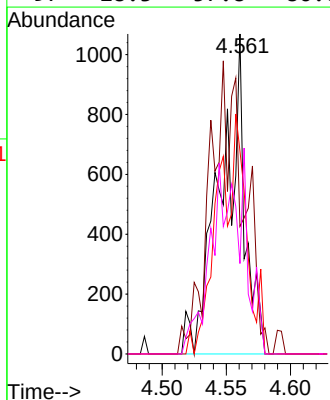
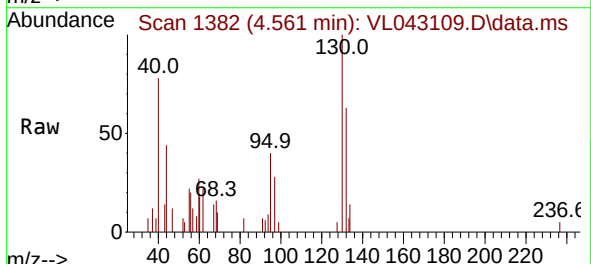
Manual Integrations  
APPROVED

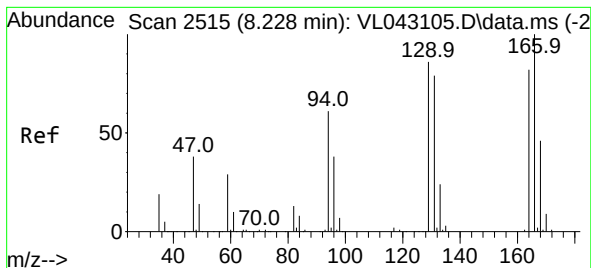
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 0.107 ppbv m  
RT: 4.561 min Scan# 1382  
Delta R.T. 0.006 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

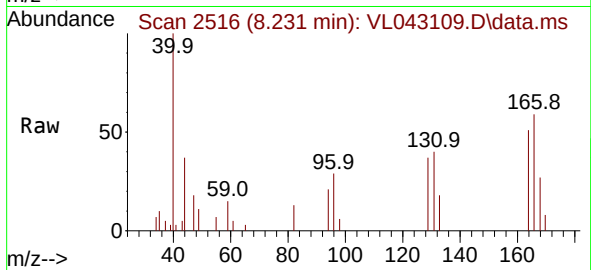
Tgt Ion:130 Resp: 1399  
Ion Ratio Lower Upper  
130 100  
95 39.9 88.6 133.0#  
132 63.4 73.4 110.0#  
97 28.3 57.8 86.6#





#52  
Tetrachloroethene  
Concen: 0.102 ppbv m  
RT: 8.231 min Scan# 2515  
Delta R.T. 0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

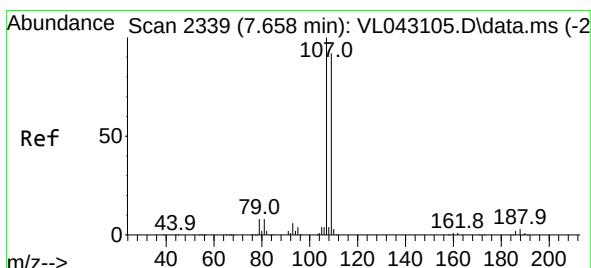
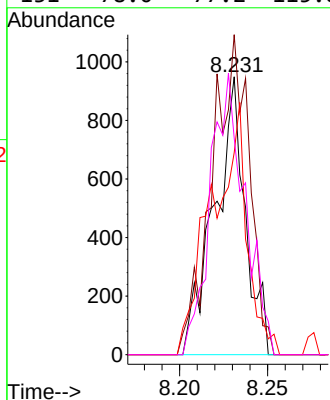
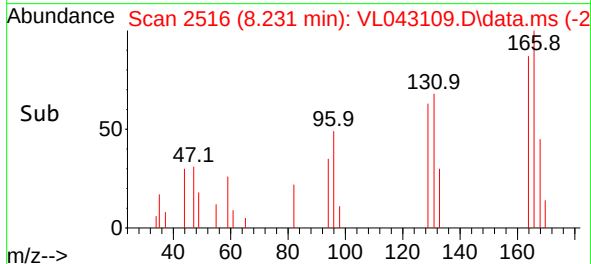
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



Tgt Ion:164 Resp: 1149  
Ion Ratio Lower Upper  
164 100  
166 115.2 97.6 146.4  
129 72.7 84.5 126.7  
131 78.0 77.2 115.8

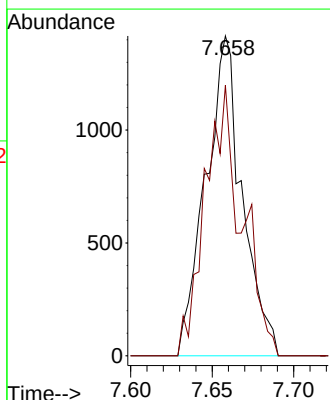
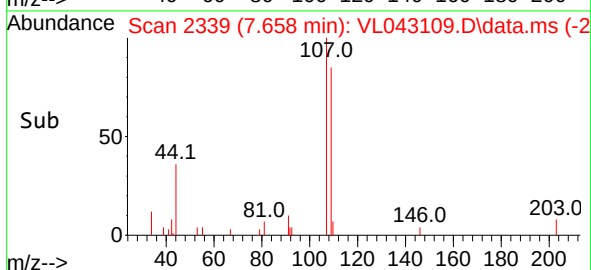
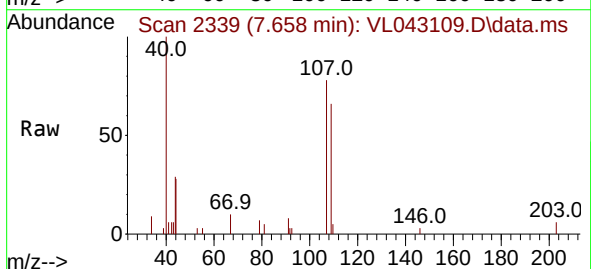
Manual Integrations  
APPROVED

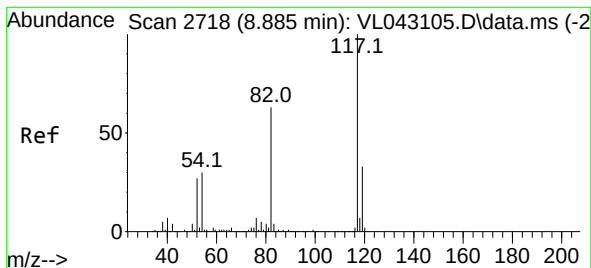
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#54  
1,2-Dibromoethane  
Concen: 0.113 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion:107 Resp: 2201  
Ion Ratio Lower Upper  
107 100  
109 91.5 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_L

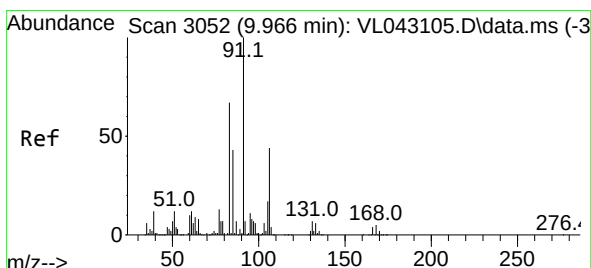
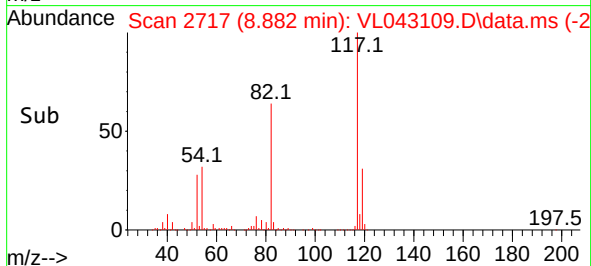
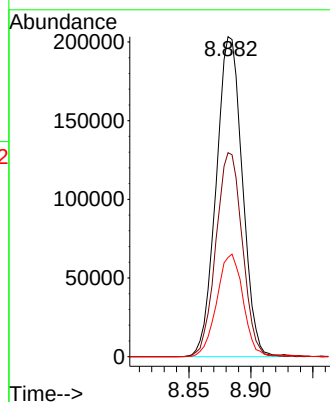
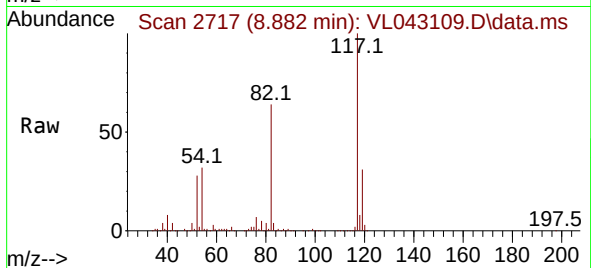
ClientSampleId :

VSTDIC0.1

Tgt Ion: 117 Resp: 299670  
 Ion Ratio Lower Upper  
 117 100  
 82 64.3 53.8 80.8  
 119 32.5 25.4 38.0

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.113 ppbv

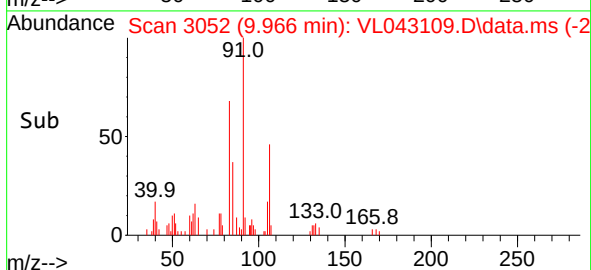
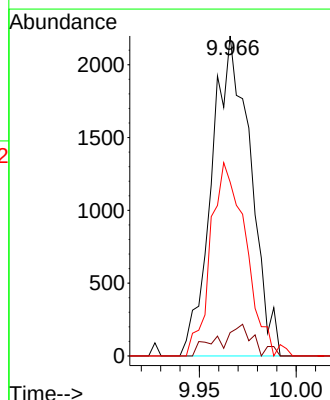
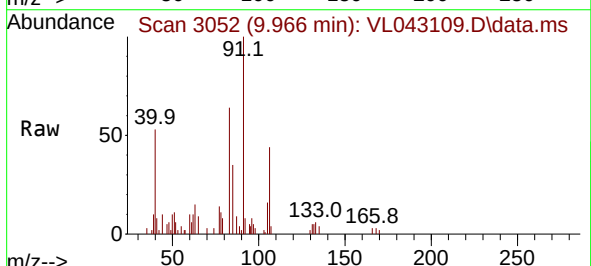
RT: 9.966 min Scan# 3052

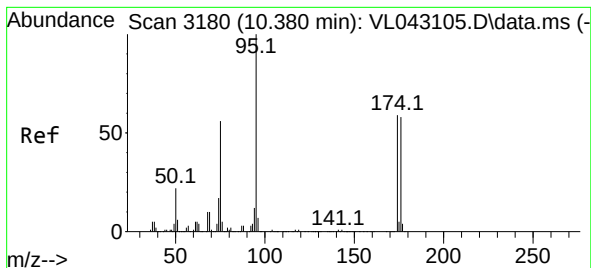
Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

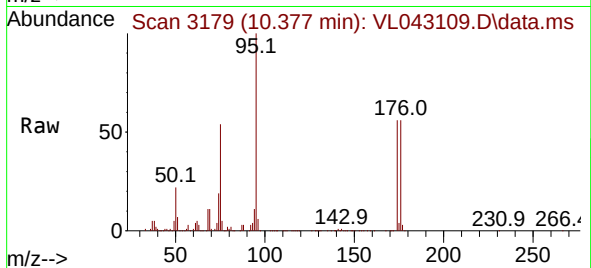
Tgt Ion: 83 Resp: 3053  
 Ion Ratio Lower Upper  
 83 100  
 131 8.9 4.8 14.3  
 85 55.2 32.0 96.0





#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.032 ppbv  
RT: 10.377 min Scan# 3180  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

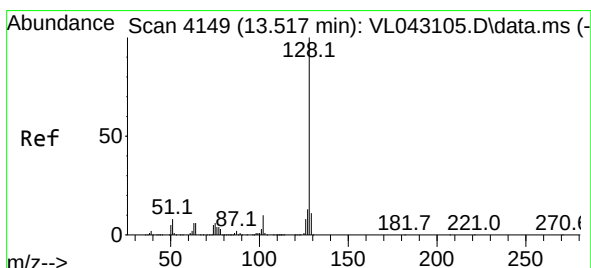
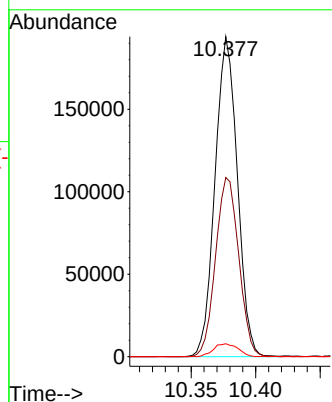
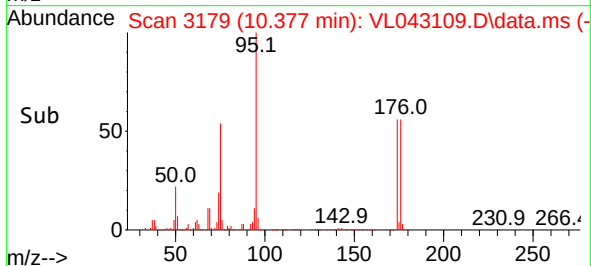
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



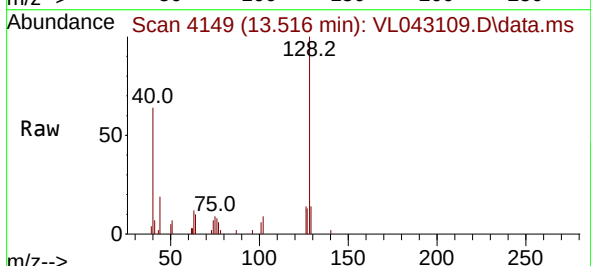
Tgt Ion: 95 Resp: 23367  
Ion Ratio Lower Upper  
95 100  
174 58.0 48.3 72.5  
175 4.5 3.8 5.8

Manual Integrations  
APPROVED

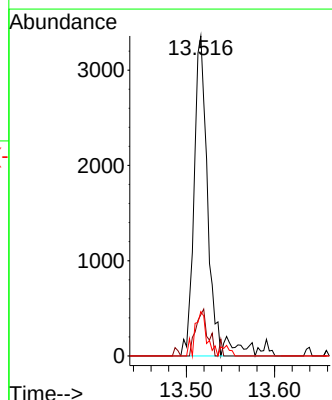
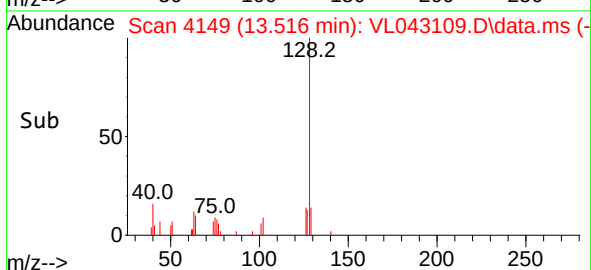
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#79  
Naphthalene  
Concen: 0.080 ppbv m  
RT: 13.516 min Scan# 4149  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08



Tgt Ion:128 Resp: 3792  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.5 15.7  
129 13.8 9.1 13.7#





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043110.D  
Acq On : 14 Oct 2025 13:42  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 100058   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 328897   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 292884   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 224043   | 9.841    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 217      | 0.039    | ppbv # | 78       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 650m     | 0.028    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 742m     | 0.031    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 454m     | 0.035    | ppbv   |          |
| 52) Tetrachloroethene         | 8.218  | 164   | 349m     | 0.031    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83    | 904m     | 0.034    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

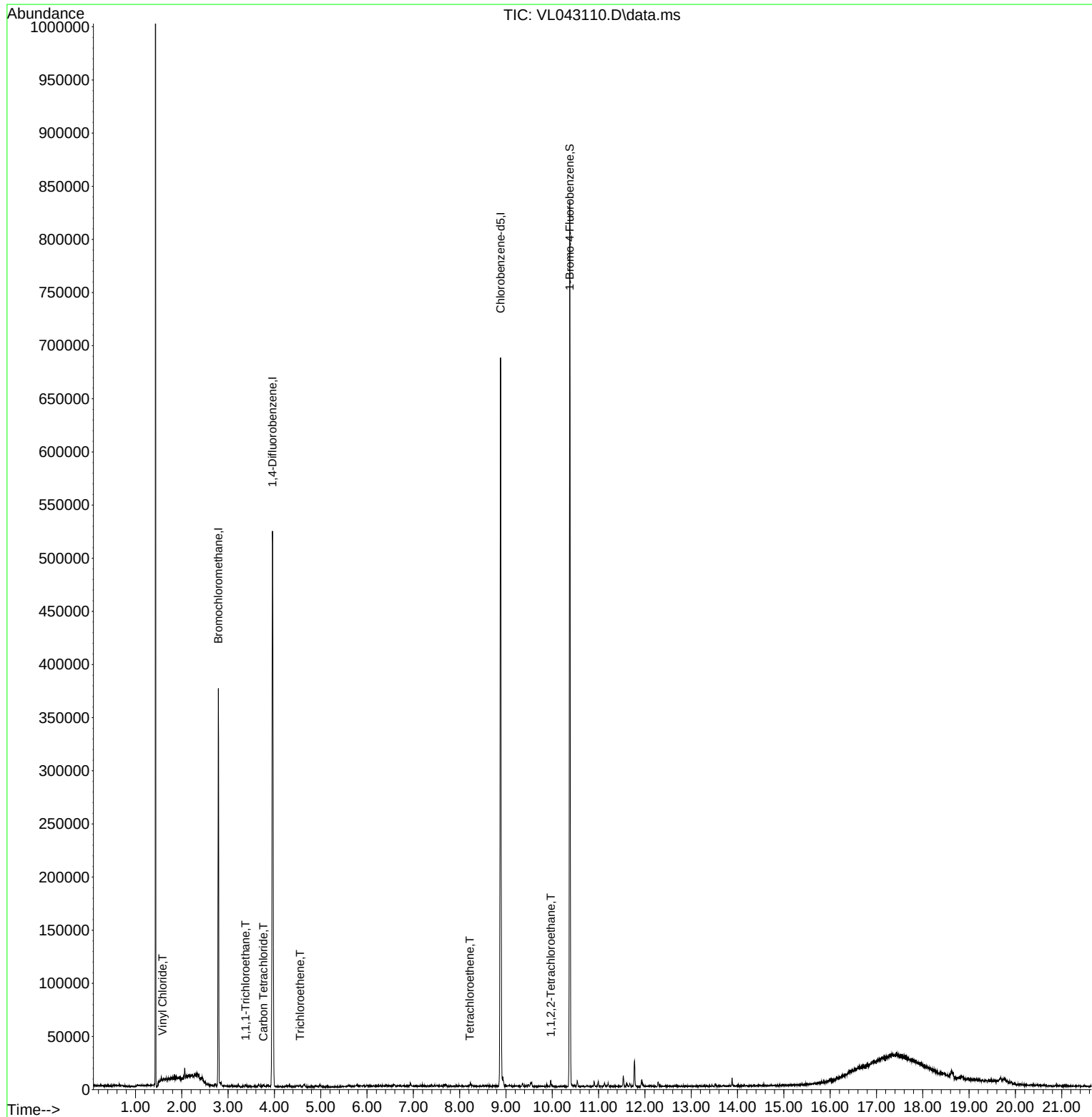
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Data File : VL043110.D  
Acq On : 14 Oct 2025 13:42  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

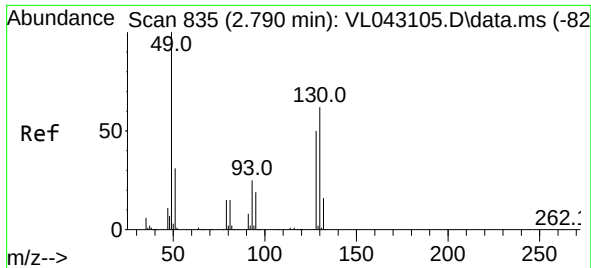
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 01:49:43 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

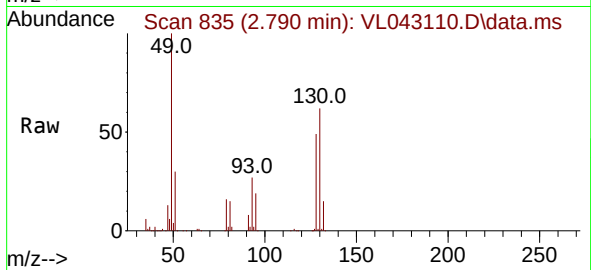
Reviewed By : Semsettin Yesilyurt 10/16/2025  
Supervised By : Mahesh Dadoda 10/16/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

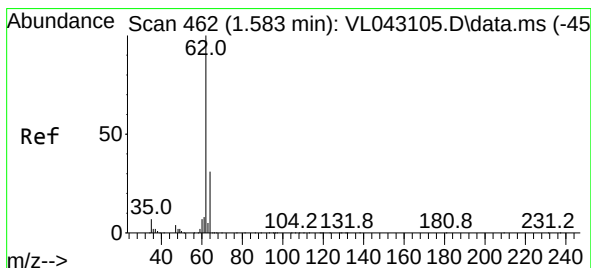
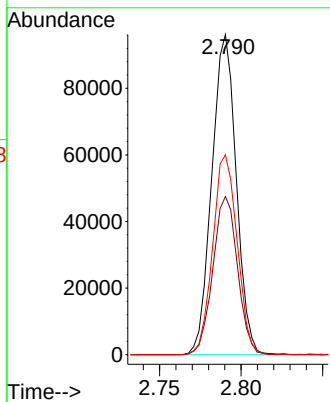
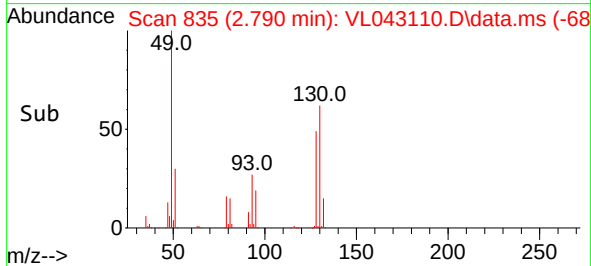
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion: 49 Resp: 100058  
Ion Ratio Lower Upper  
49 100  
128 49.9 24.4 73.4  
130 62.5 31.0 93.0

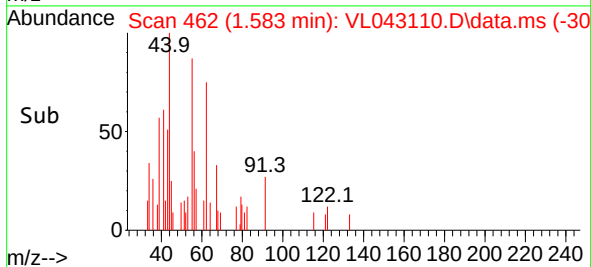
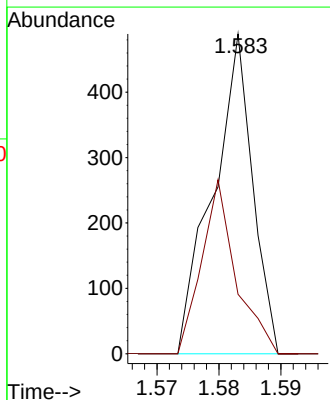
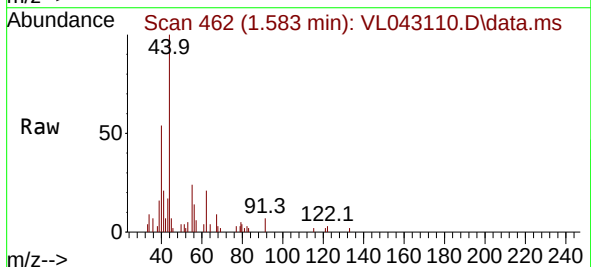
Manual Integrations  
APPROVED

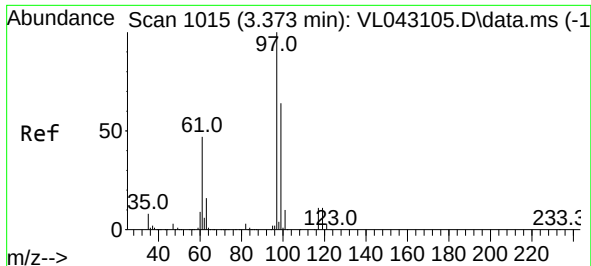
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#5  
Vinyl Chloride  
Concen: 0.039 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

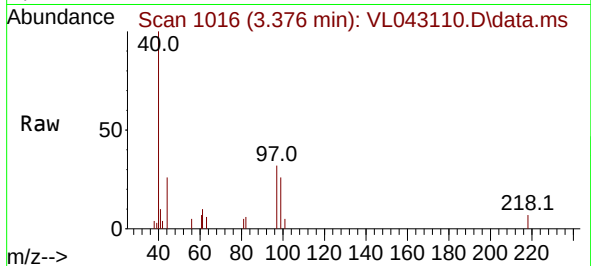
Tgt Ion: 62 Resp: 217  
Ion Ratio Lower Upper  
62 100  
64 18.6 24.6 36.8#





#32  
1,1,1-Trichloroethane  
Concen: 0.028 ppbv m  
RT: 3.376 min Scan# 1015  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

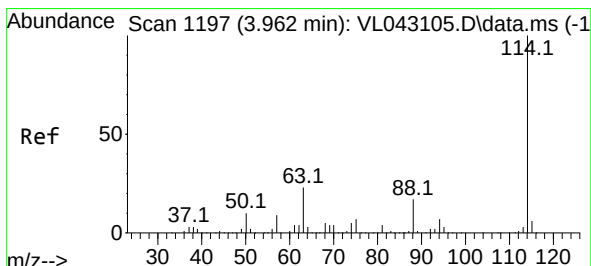
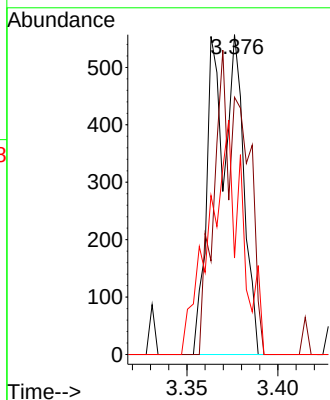
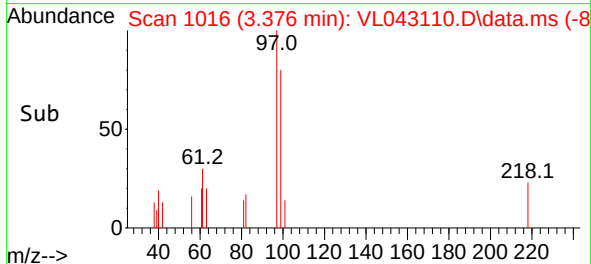
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion: 97 Resp: 650  
Ion Ratio Lower Upper  
97 100  
99 96.0 51.3 76.9  
61 77.4 38.4 57.6

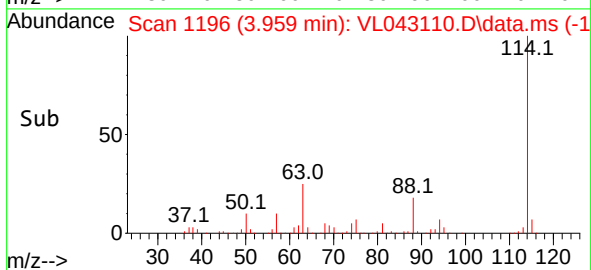
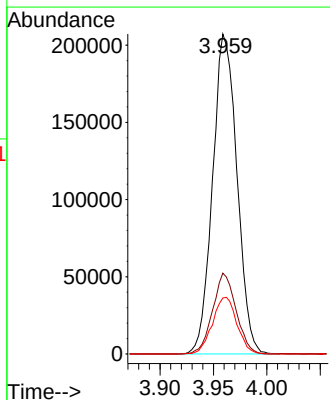
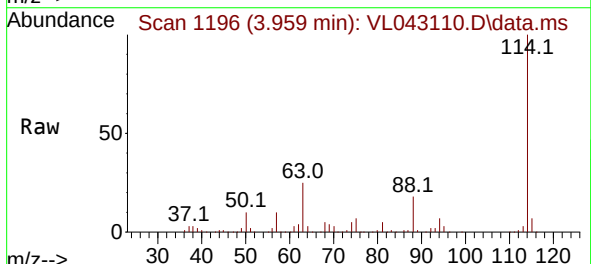
Manual Integrations  
APPROVED

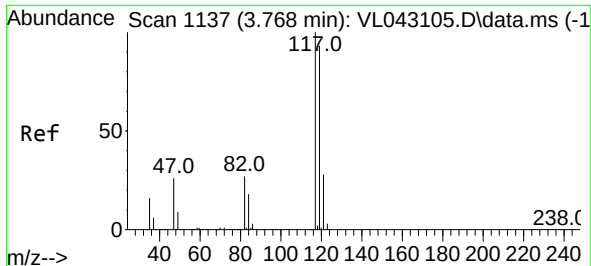
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

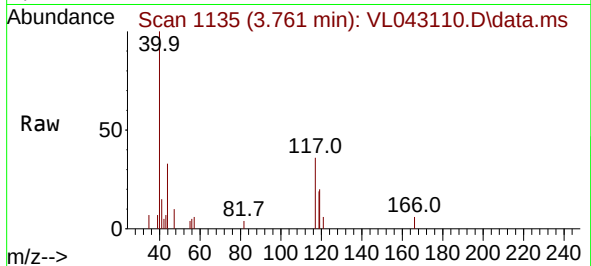
Tgt Ion:114 Resp: 328897  
Ion Ratio Lower Upper  
114 100  
63 24.3 19.3 28.9  
88 17.8 13.9 20.9





#35  
Carbon Tetrachloride  
Concen: 0.031 ppbv m  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

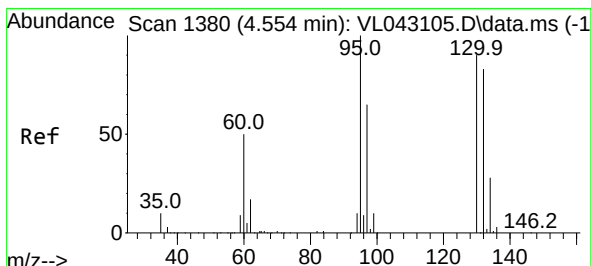
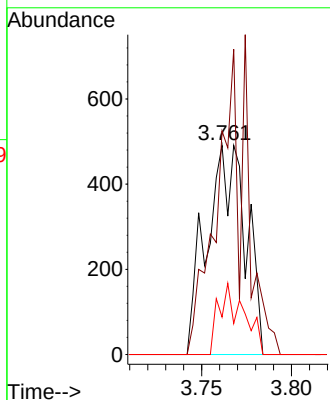
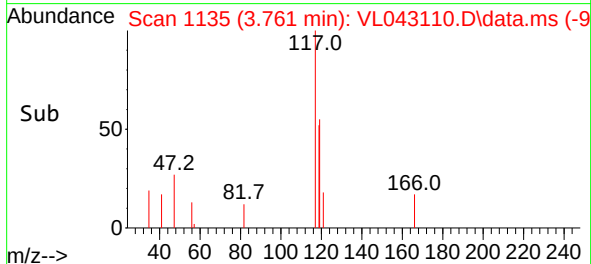
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



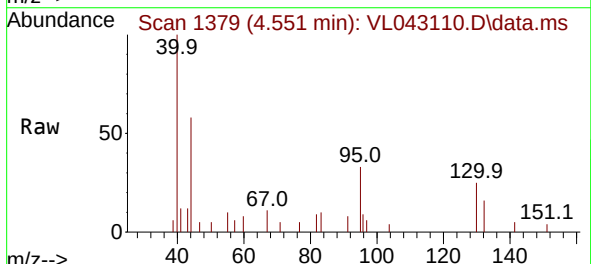
Tgt Ion:117 Resp: 74.1  
Ion Ratio Lower Upper  
117 100  
119 55.4 74.1 111.1#  
121 17.9 22.2 33.2#

Manual Integrations  
APPROVED

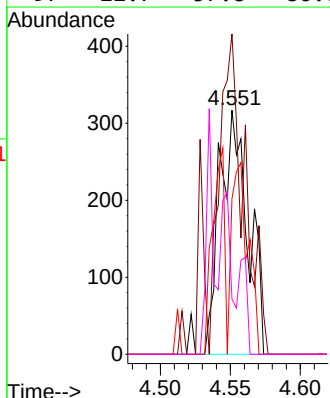
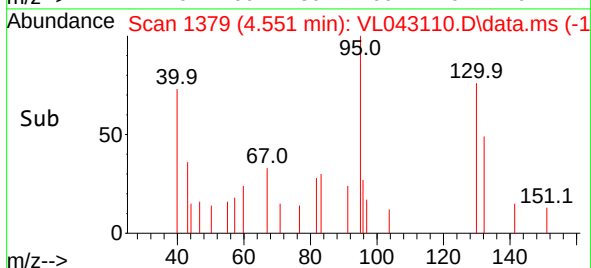
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

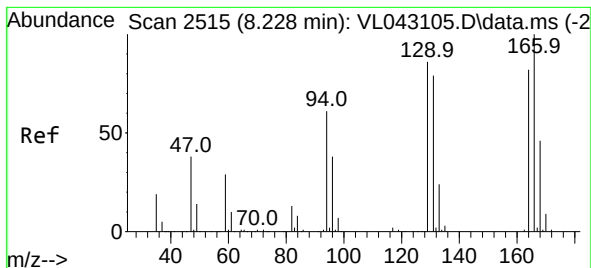


#38  
Trichloroethene  
Concen: 0.035 ppbv m  
RT: 4.551 min Scan# 1379  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42



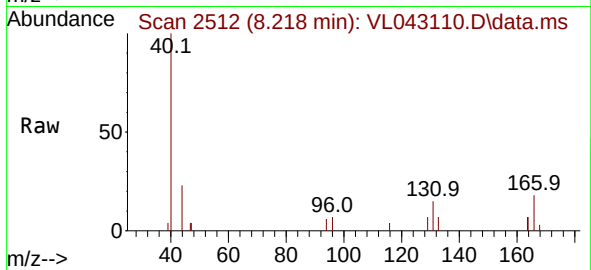
Tgt Ion:130 Resp: 454  
Ion Ratio Lower Upper  
130 100  
95 131.2 88.6 133.0  
132 63.7 73.4 110.0#  
97 22.7 57.8 86.6#





#52  
Tetrachloroethene  
Concen: 0.031 ppbv m  
RT: 8.218 min Scan# 2515  
Delta R.T. -0.010 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

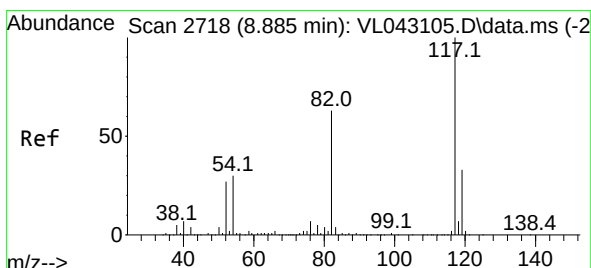
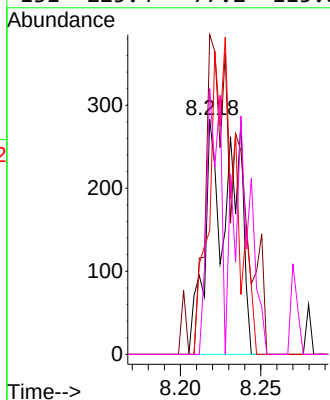
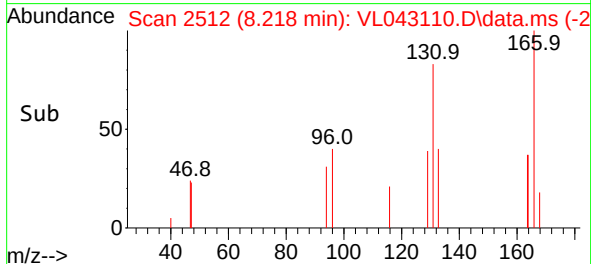
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion:164 Resp: 349  
Ion Ratio Lower Upper  
164 100  
166 271.1 97.6 146.4  
129 104.9 84.5 126.7  
131 225.4 77.2 115.8#

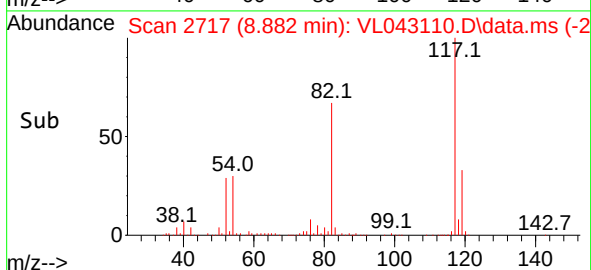
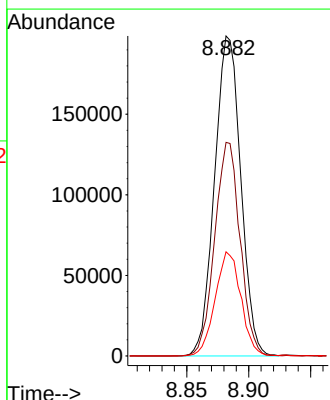
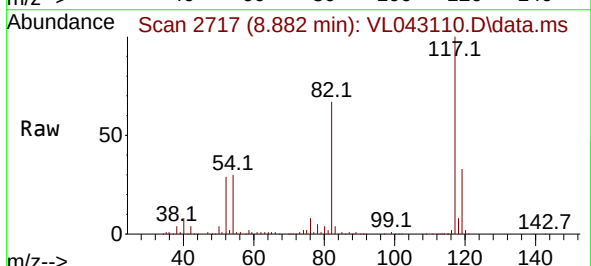
Manual Integrations  
APPROVED

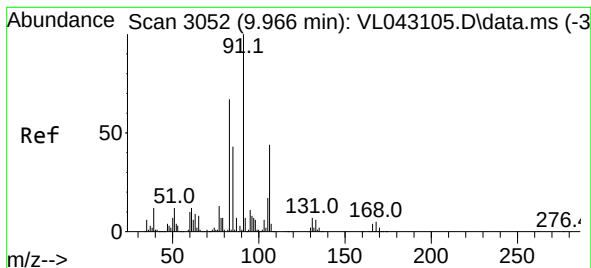
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

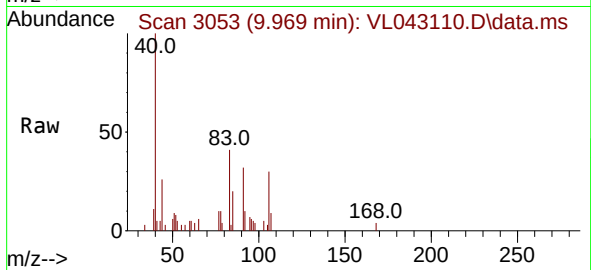
Tgt Ion:117 Resp: 292884  
Ion Ratio Lower Upper  
117 100  
82 64.7 53.8 80.8  
119 32.1 25.4 38.0





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.034 ppbv m  
RT: 9.969 min Scan# 3052  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

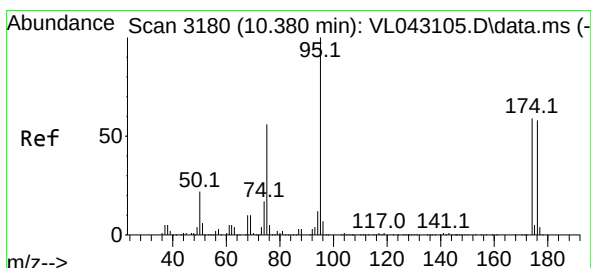
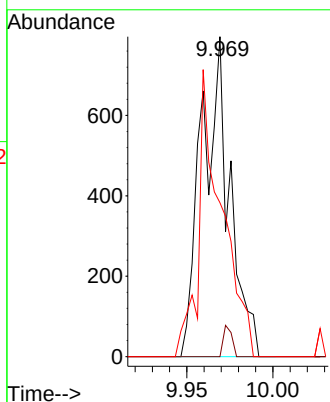
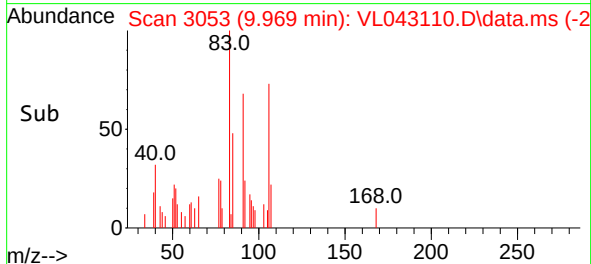
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



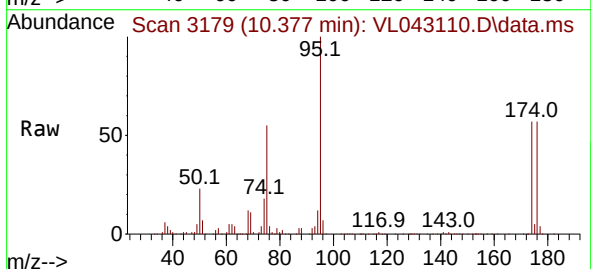
Tgt Ion: 83 Resp: 904  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3  
85 74.1 32.0 96.0

Manual Integrations  
APPROVED

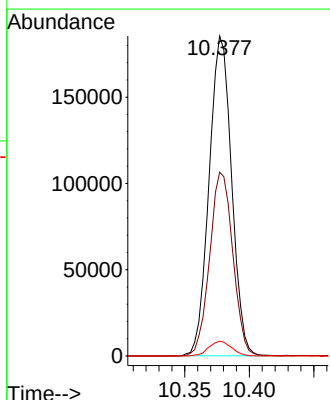
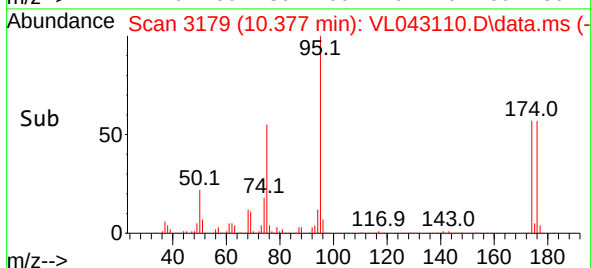
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.841 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42



Tgt Ion: 95 Resp: 224043  
Ion Ratio Lower Upper  
95 100  
174 59.2 48.3 72.5  
175 4.7 3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043111.D  
 Acq On : 14 Oct 2025 14:18  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.790  | 49    | 100858   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 321665   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 292542   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 233522   | 10.270   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 102.700% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 193353   | 13.485   | ppbv  | 98       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 205650   | 13.255   | ppbv  | 98       |
| 4) Chloromethane              | 1.534  | 50    | 72111    | 12.695   | ppbv  | 98       |
| 5) Vinyl Chloride             | 1.583  | 62    | 69909    | 12.548   | ppbv  | 99       |
| 6) Bromomethane               | 1.670  | 94    | 39756    | 13.013   | ppbv  | 98       |
| 7) Chloroethane               | 1.706  | 64    | 27709    | 12.164   | ppbv  | 95       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 156753   | 13.526   | ppbv  | 100      |
| 9) Propene                    | 1.486  | 41    | 88451    | 12.854   | ppbv  | 98       |
| 10) Heptane                   | 4.985  | 43    | 249682   | 12.658   | ppbv  | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 191307   | 13.640   | ppbv  | 100      |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 150640   | 13.341   | ppbv  | 98       |
| 13) Ethanol                   | 1.722  | 45    | 25828    | 10.148   | ppbv  | 98       |
| 14) Bromoethene               | 1.784  | 108   | 54818    | 13.068   | ppbv  | 99       |
| 15) Acetone                   | 1.835  | 43    | 160069   | 11.710   | ppbv  | 100      |
| 16) 1,3-Butadiene             | 1.612  | 39    | 80403    | 12.411   | ppbv  | 98       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 237633   | 12.735   | ppbv  | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 65634    | 13.333   | ppbv  | 98       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 102035   | 12.051   | ppbv  | 98       |
| 20) Methylene Chloride        | 2.065  | 84    | 60549    | 11.268   | ppbv  | 90       |
| 21) Allyl Chloride            | 2.097  | 41    | 131539   | 13.105   | ppbv  | 95       |
| 22) trans-1,2-Dichloroethene  | 2.343  | 96    | 76780    | 13.048   | ppbv  | 97       |
| 23) Vinyl Acetate             | 2.463  | 43    | 288274   | 14.476   | ppbv  | 98       |
| 24) 1,1-Dichloroethane        | 2.411  | 63    | 152663   | 13.428   | ppbv  | 99       |
| 25) Ethyl Acetate             | 2.835  | 43    | 434350   | 12.884   | ppbv  | 100      |
| 26) Hexane                    | 2.829  | 57    | 199384   | 12.836   | ppbv  | 98       |
| 27) Carbon Disulfide          | 2.152  | 76    | 192452   | 13.522   | ppbv  | 100      |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 96464    | 13.650   | ppbv  | 94       |
| 29) Chloroform                | 2.852  | 83    | 302154   | 13.425   | ppbv  | 98       |
| 30) Cyclohexane               | 3.858  | 84    | 177947   | 13.133   | ppbv  | 95       |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 203888   | 13.745   | ppbv  | 97       |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 316442   | 13.500   | ppbv  | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 283134   | 13.020   | ppbv  | 99       |
| 35) Carbon Tetrachloride      | 3.764  | 117   | 325078   | 14.056   | ppbv  | 98       |
| 36) Benzene                   | 3.661  | 78    | 415823   | 13.725   | ppbv  | 99       |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 241983   | 13.865   | ppbv  | 98       |
| 38) Trichloroethene           | 4.551  | 130   | 159136   | 12.590   | ppbv  | 97       |
| 39) 1,2-Dichloropropane       | 4.318  | 63    | 147155   | 13.274   | ppbv  | 95       |
| 40) 1,4-Dioxane               | 4.580  | 88    | 65323    | 13.180   | ppbv  | # 94     |
| 41) Tetrahydrofuran           | 3.052  | 42    | 160247   | 13.200   | ppbv  | 99       |
| 42) Bromodichloromethane      | 4.493  | 83    | 343817   | 14.234   | ppbv  | 99       |
| 43) Methyl Methacrylate       | 4.881  | 69    | 210756   | 13.633   | ppbv  | 98       |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57    | 675770   | 13.340   | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.418  | 75    | 218386   | 14.142   | ppbv  | 97       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043111.D  
 Acq On : 14 Oct 2025 14:18  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 258355   | 14.018 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 163113   | 13.638 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.393  | 129  | 280993   | 14.051 | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 230561   | 14.184 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 401849   | 13.396 | ppbv   | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 317288   | 14.176 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.231  | 164  | 143954   | 13.177 | ppbv   | 98       |
| 53) Toluene                   | 6.936  | 91   | 483870   | 13.457 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 254024   | 13.461 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 250303   | 13.573 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.927  | 112  | 355301   | 12.983 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 676918   | 13.375 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.555  | 91   | 1061952m | 26.498 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 516660   | 13.063 | ppbv   | 99       |
| 61) Styrene                   | 9.875  | 104  | 247585   | 13.867 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 931508   | 13.034 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 331423   | 12.515 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 241719   | 12.775 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 788234   | 12.490 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.620 | 91   | 97114    | 13.778 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1125489  | 12.566 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 959206   | 12.602 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 973466   | 12.979 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 721827   | 13.242 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 647315   | 13.310 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 534006   | 13.314 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 560932   | 12.498 | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 339203   | 13.031 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 341936   | 13.027 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 318800   | 12.660 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 226294   | 11.606 | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 661098   | 14.260 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 212784   | 17.384 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 266712   | 13.698 | ppbv   | 100      |

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

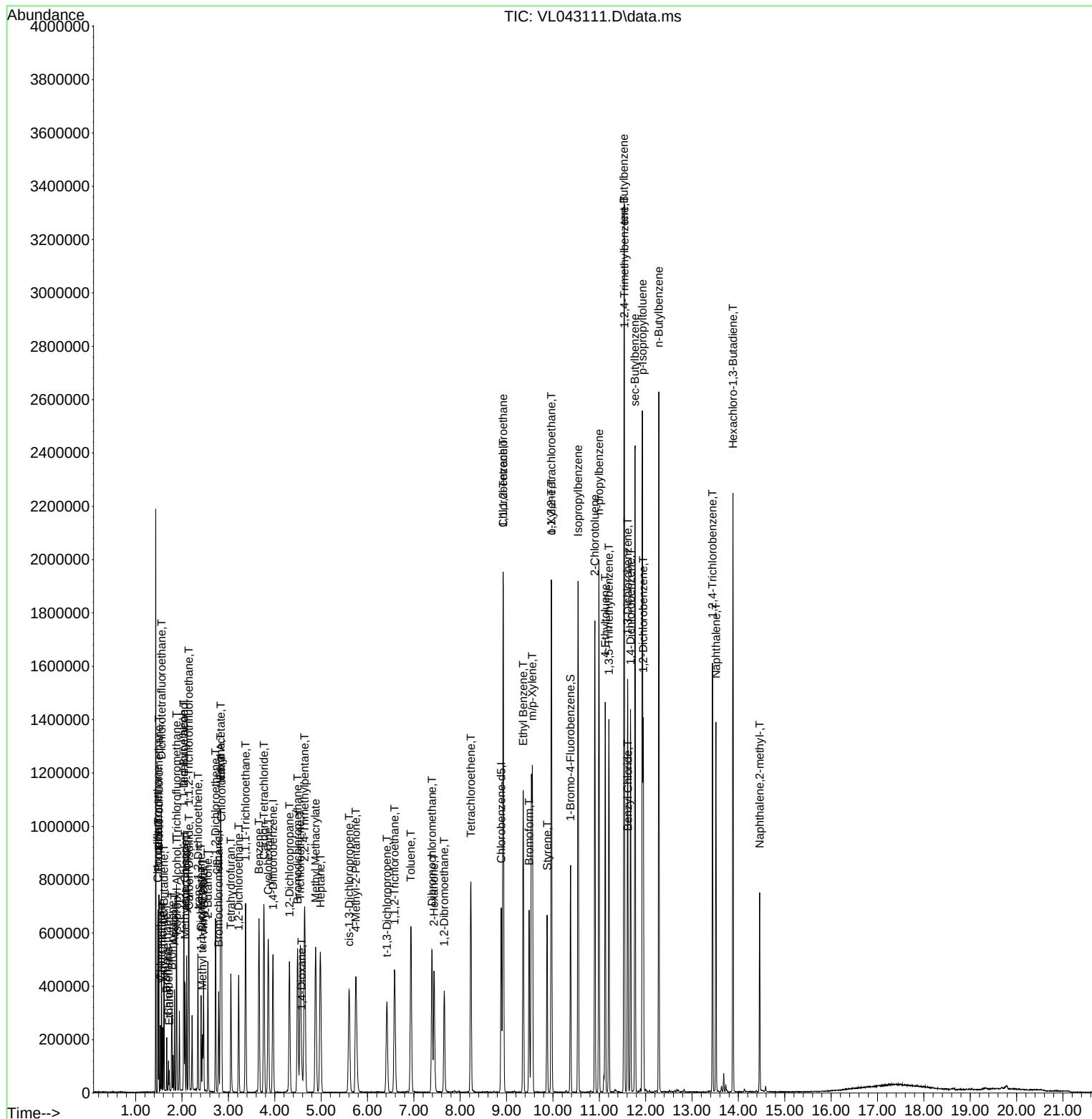
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 Acq On : 14 Oct 2025 14:18  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

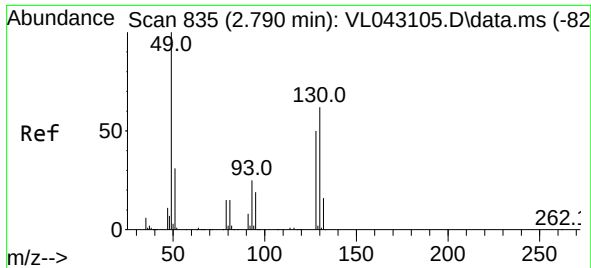
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 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

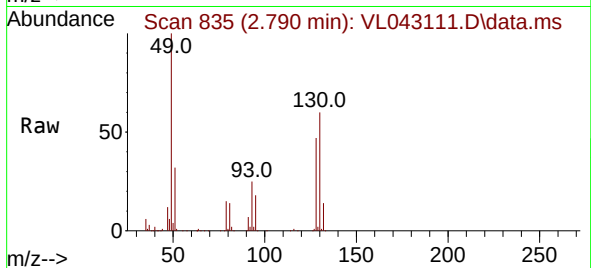
Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

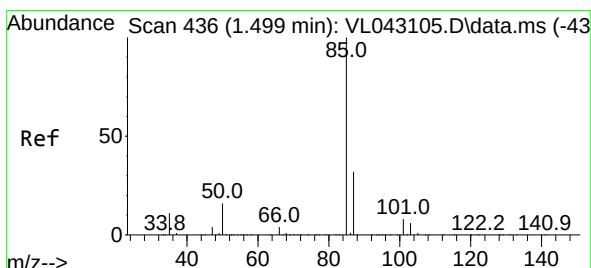
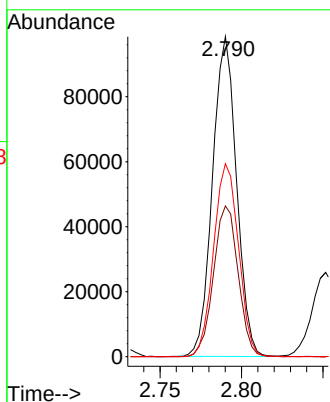
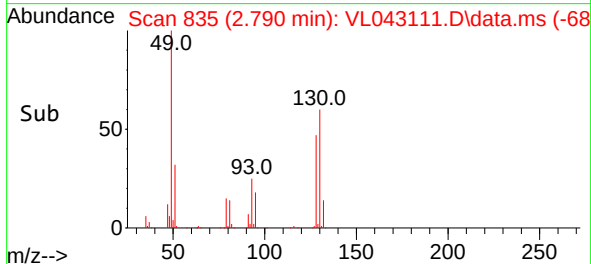
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



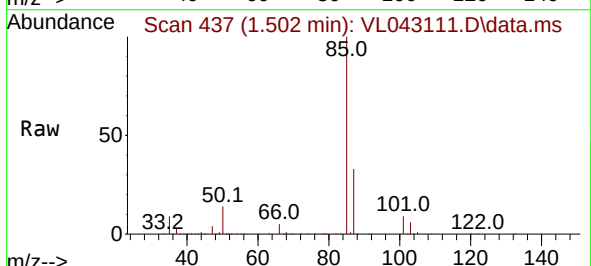
Tgt Ion: 49 Resp: 100858  
Ion Ratio Lower Upper  
49 100  
128 48.4 24.4 73.4  
130 62.4 31.0 93.0

Manual Integrations  
APPROVED

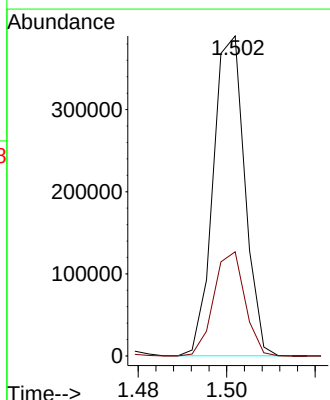
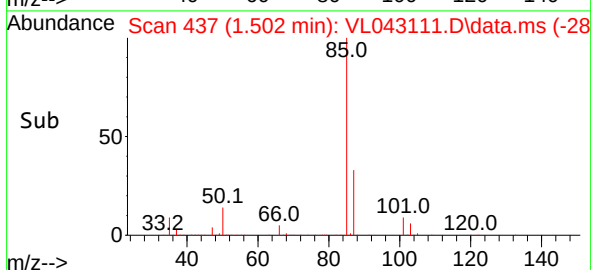
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

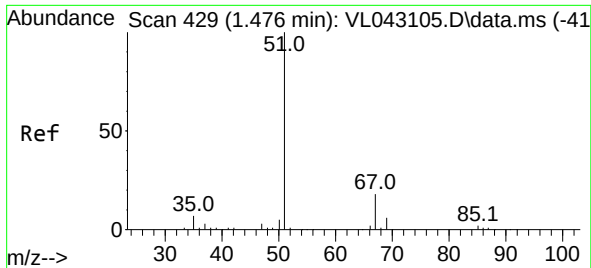


#2  
Dichlorodifluoromethane  
Concen: 13.485 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion: 85 Resp: 193353  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.3 37.9





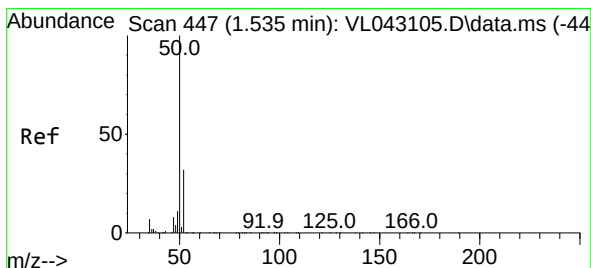
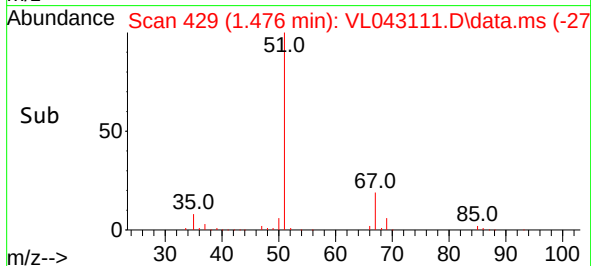
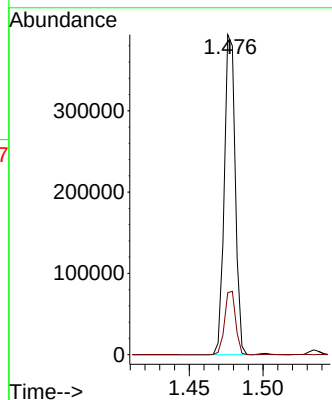
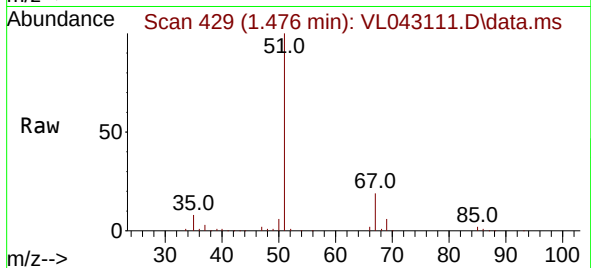
#3  
Chlorodifluoromethane  
Concen: 13.255 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 51 Resp: 205650  
Ion Ratio Lower Upper  
51 100  
67 20.0 15.1 22.7

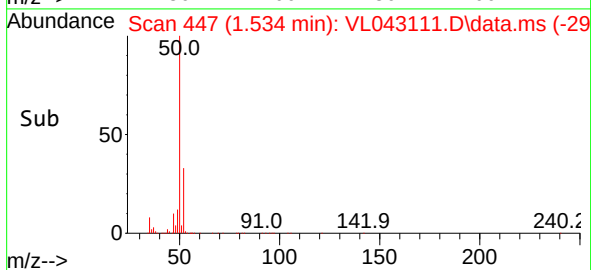
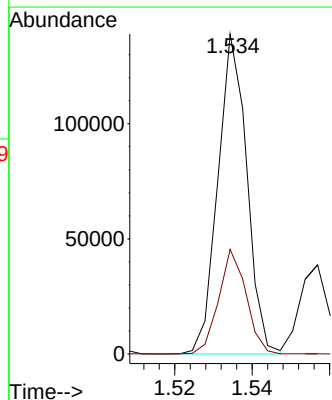
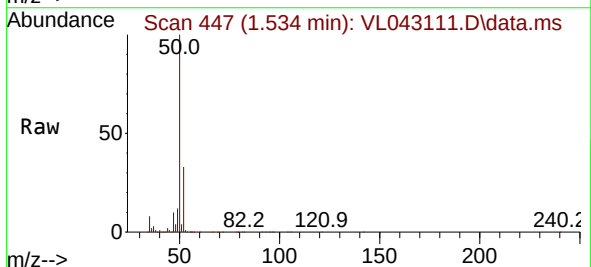
Manual Integrations  
APPROVED

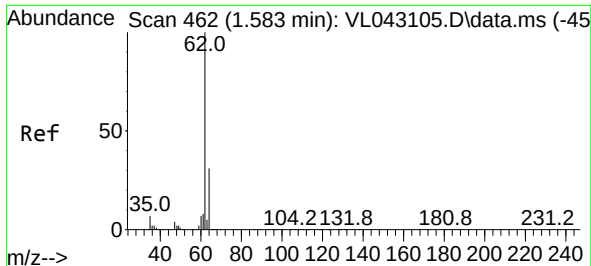
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#4  
Chloromethane  
Concen: 12.695 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

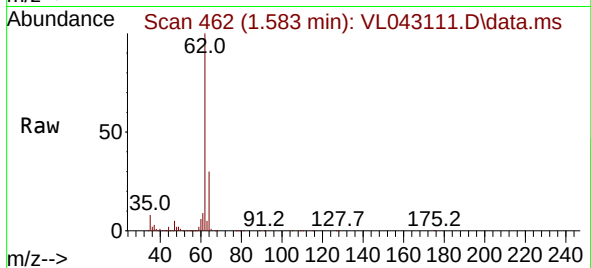
Tgt Ion: 50 Resp: 72111  
Ion Ratio Lower Upper  
50 100  
52 32.7 25.2 37.8





#5  
 Vinyl Chloride  
 Concen: 12.548 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

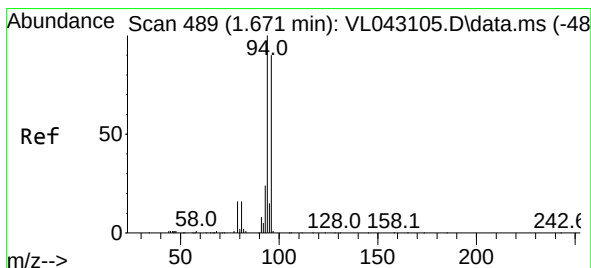
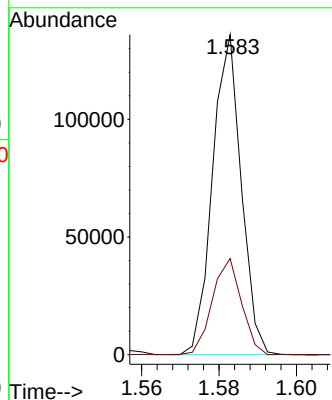
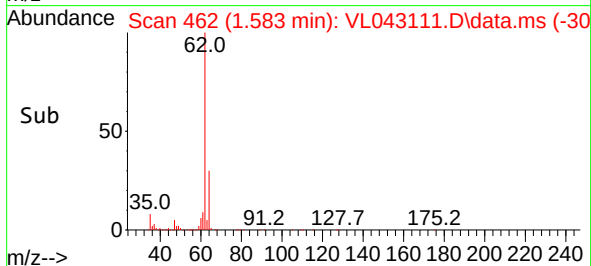
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



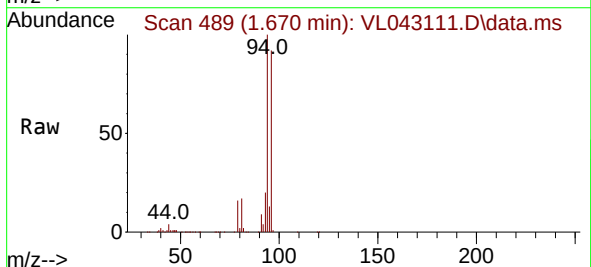
Tgt Ion: 62 Resp: 69909  
 Ion Ratio Lower Upper  
 62 100  
 64 30.0 24.6 36.8

Manual Integrations  
 APPROVED

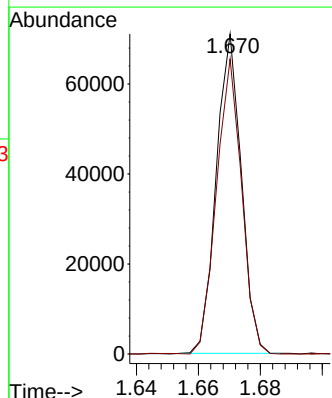
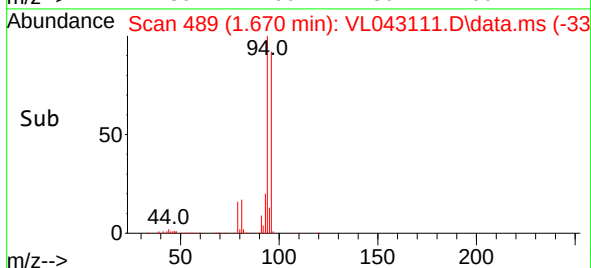
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

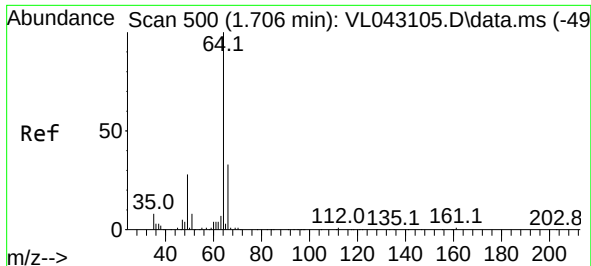


#6  
 Bromomethane  
 Concen: 13.013 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18



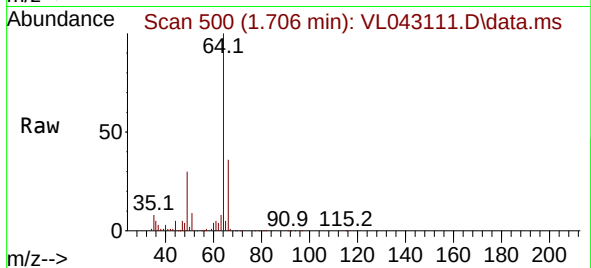
Tgt Ion: 94 Resp: 39756  
 Ion Ratio Lower Upper  
 94 100  
 96 92.4 72.2 108.4





#7  
Chloroethane  
Concen: 12.164 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

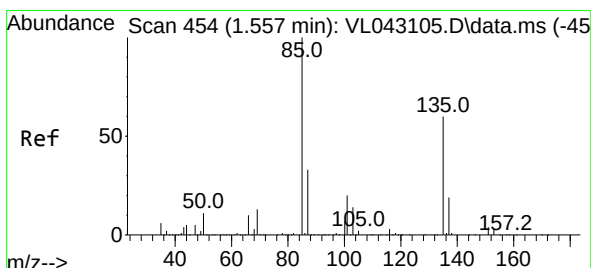
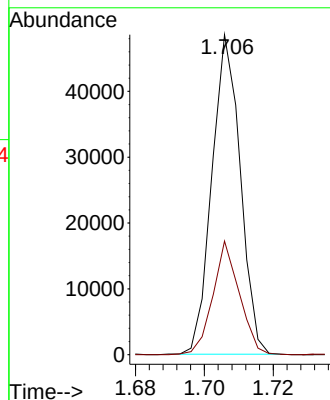
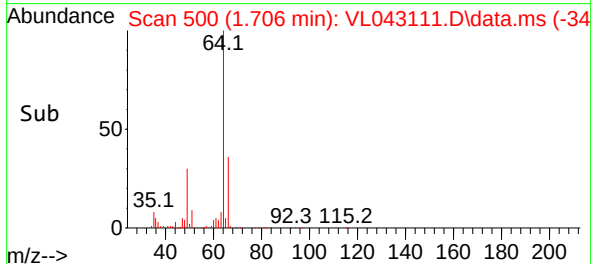
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



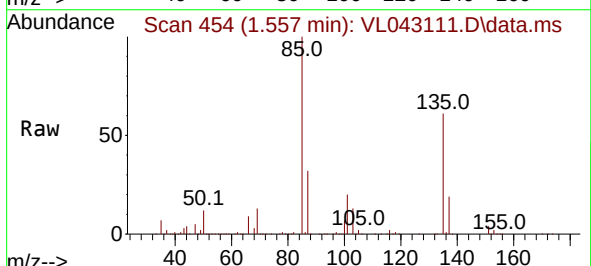
Tgt Ion: 64 Resp: 27709  
Ion Ratio Lower Upper  
64 100  
66 35.5 26.0 39.0

Manual Integrations  
APPROVED

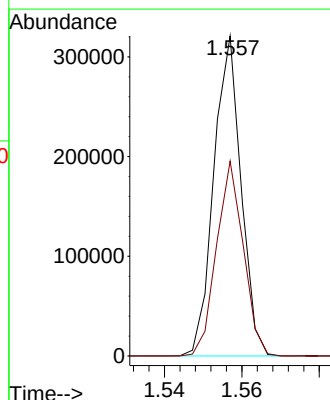
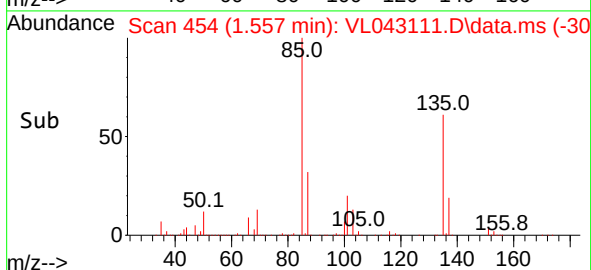
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

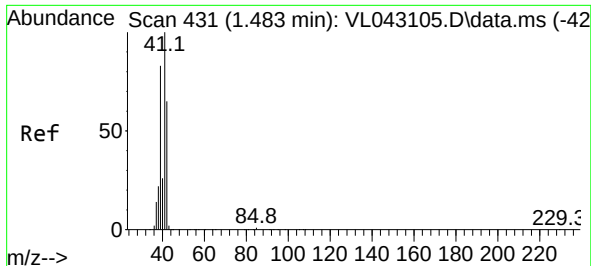


#8  
Dichlorotetrafluoroethane  
Concen: 13.526 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion: 85 Resp: 156753  
Ion Ratio Lower Upper  
85 100  
135 60.1 48.2 72.4





#9

Propene

Concen: 12.854 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 8845

Ion Ratio Lower Upper

41 100

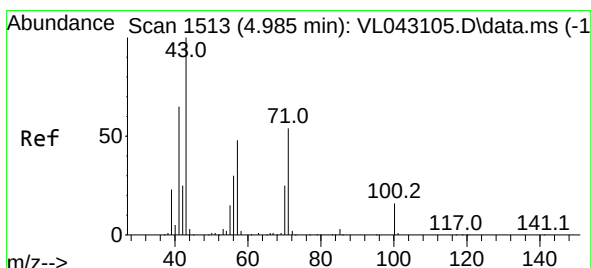
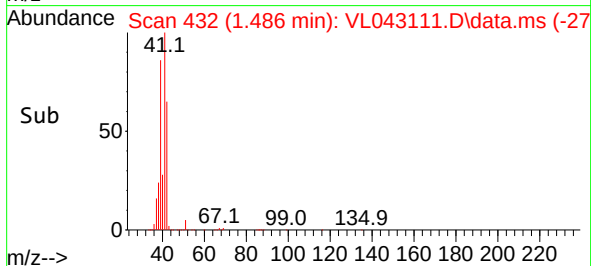
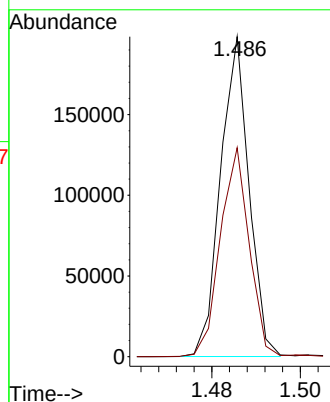
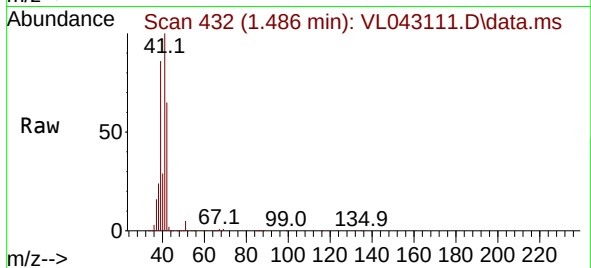
42 67.2 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 12.658 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043111.D

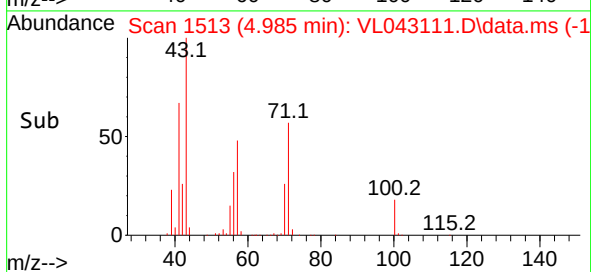
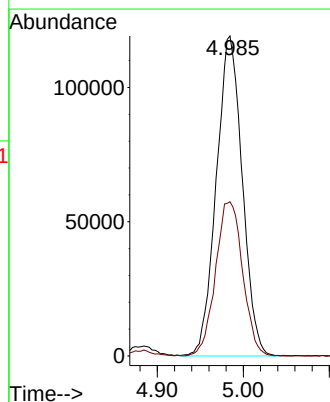
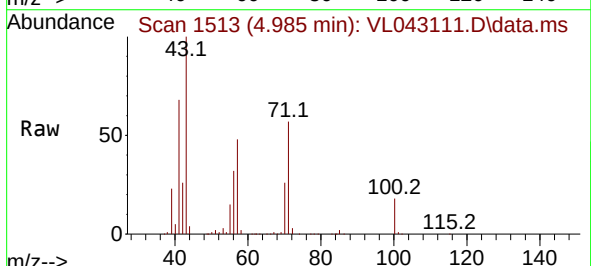
Acq: 14 Oct 2025 14:18

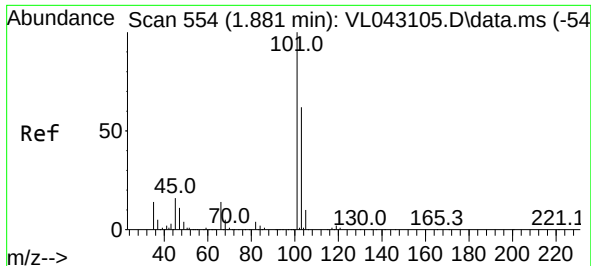
Tgt Ion: 43 Resp: 249682

Ion Ratio Lower Upper

43 100

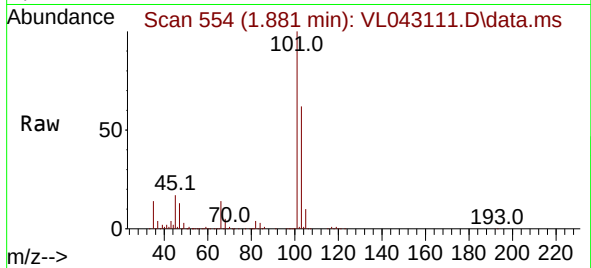
57 50.3 40.8 61.2





#11  
Trichlorofluoromethane  
Concen: 13.640 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

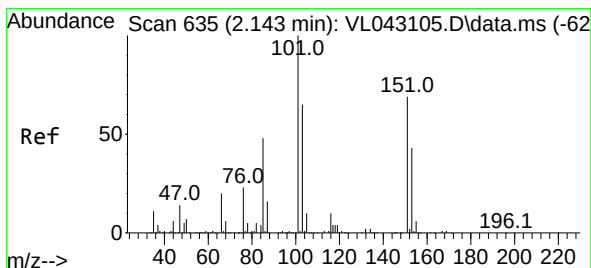
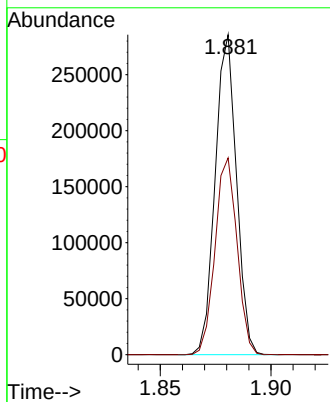
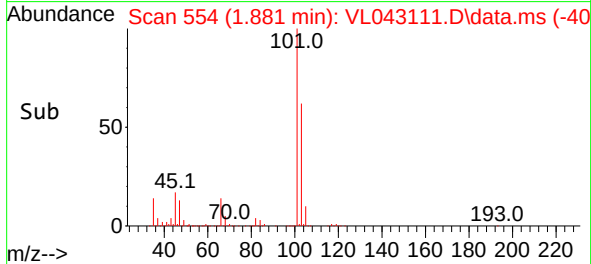
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



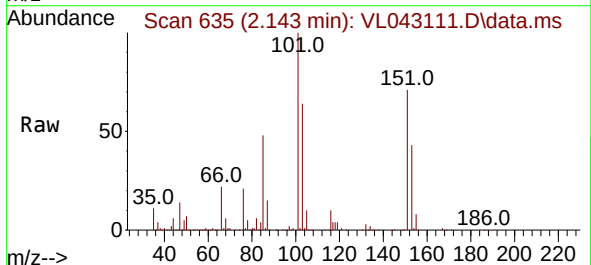
Tgt Ion:101 Resp: 191307  
Ion Ratio Lower Upper  
101 100  
103 61.5 49.3 73.9

Manual Integrations  
APPROVED

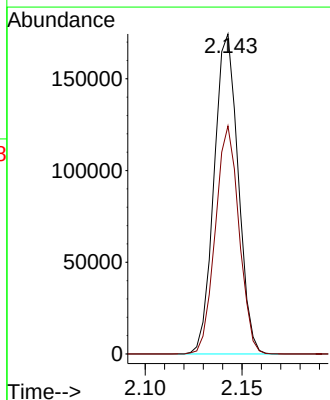
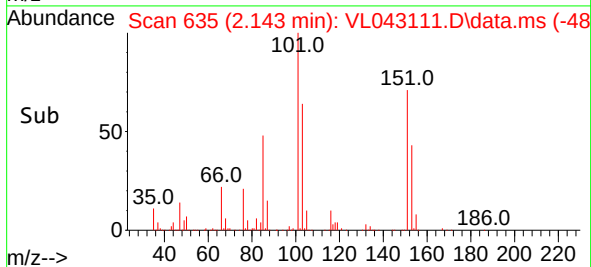
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



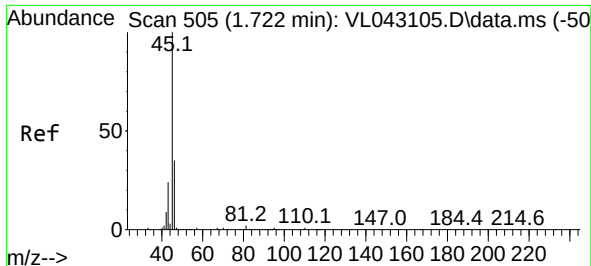
#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 13.341 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion:101 Resp: 150640  
Ion Ratio Lower Upper  
101 100  
151 70.0 54.7 82.1

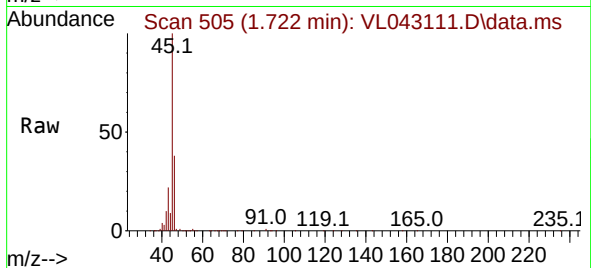






#13  
Ethanol  
Concen: 10.148 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

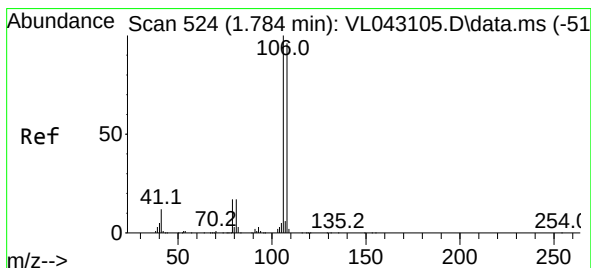
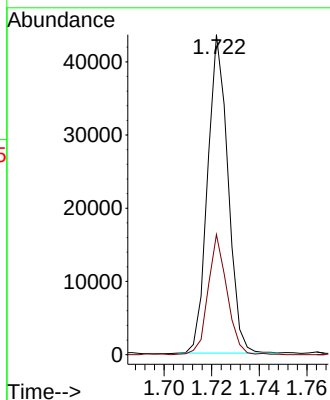
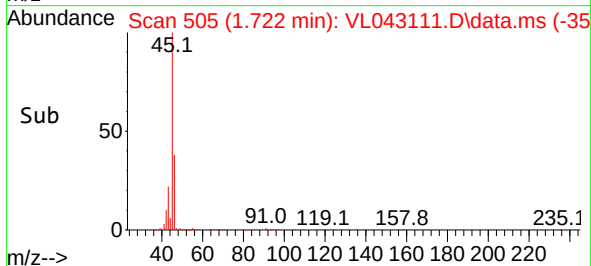
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



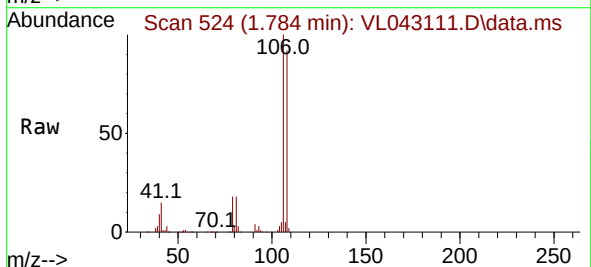
Tgt Ion: 45 Resp: 25828  
Ion Ratio Lower Upper  
45 100  
46 35.5 14.7 58.9

Manual Integrations  
APPROVED

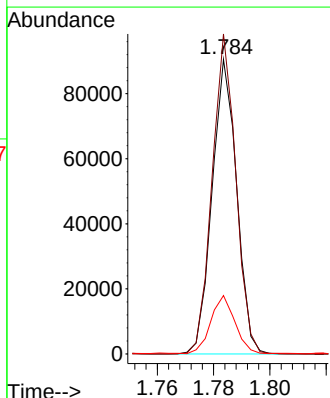
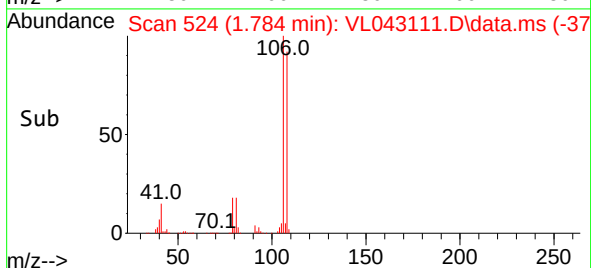
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

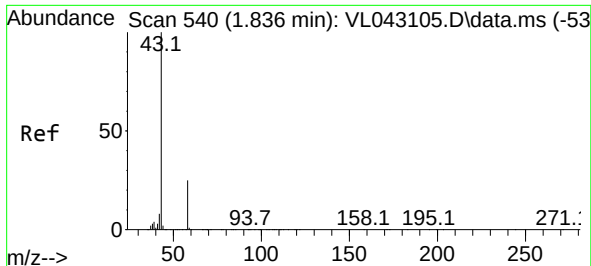


#14  
Bromoethene  
Concen: 13.068 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



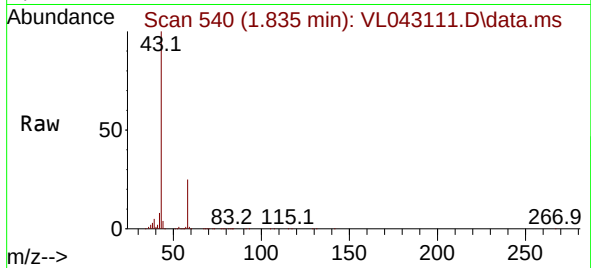
Tgt Ion:108 Resp: 54818  
Ion Ratio Lower Upper  
108 100  
106 104.9 84.4 126.6  
79 20.2 15.3 22.9





#15  
Acetone  
Concen: 11.710 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

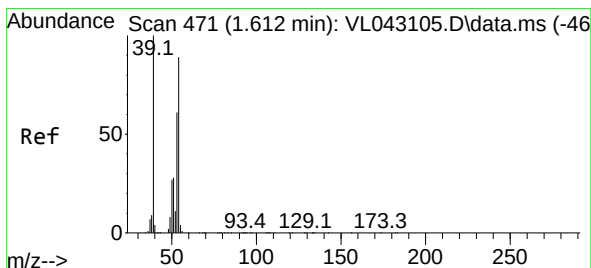
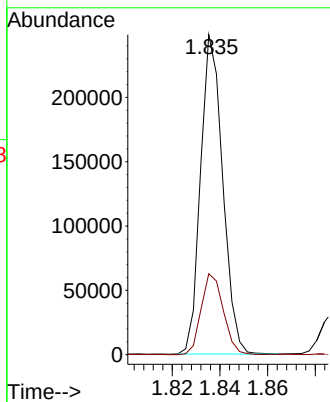
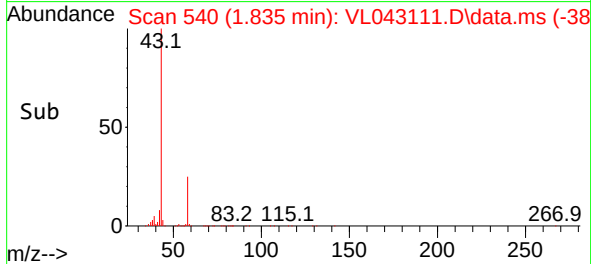
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 43 Resp: 160069  
Ion Ratio Lower Upper  
43 100  
58 26.0 20.8 31.2

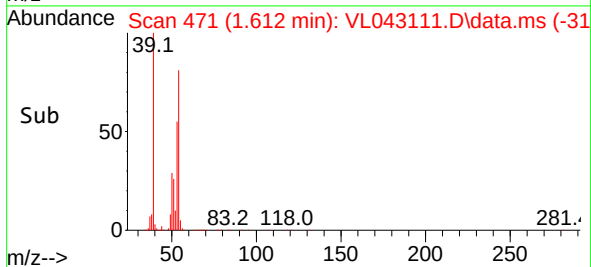
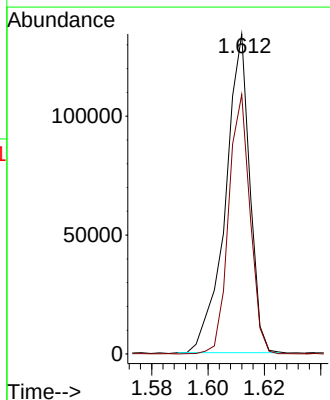
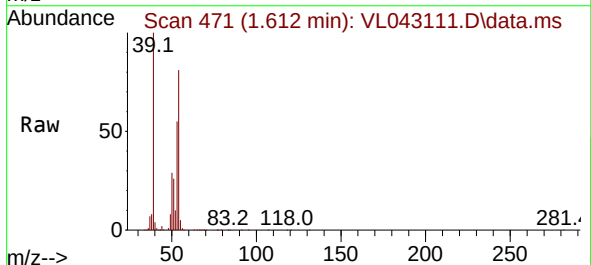
Manual Integrations  
APPROVED

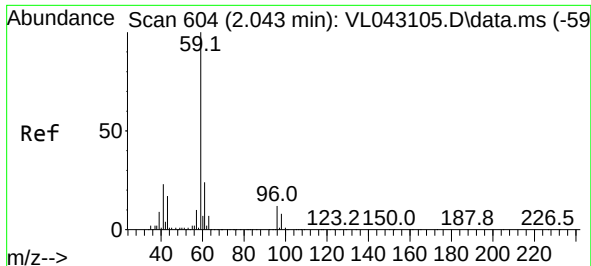
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#16  
1,3-Butadiene  
Concen: 12.411 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403  
Ion Ratio Lower Upper  
39 100  
54 71.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 12.735 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 59 Resp: 23763

Ion Ratio Lower Upper

59 100

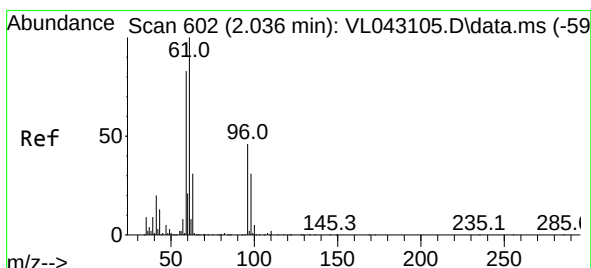
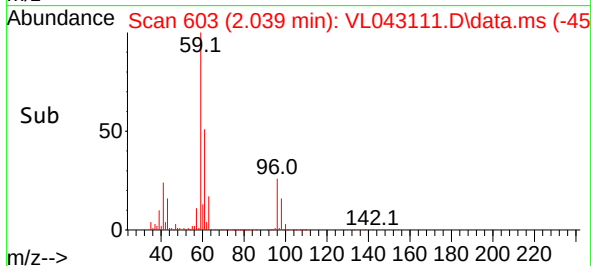
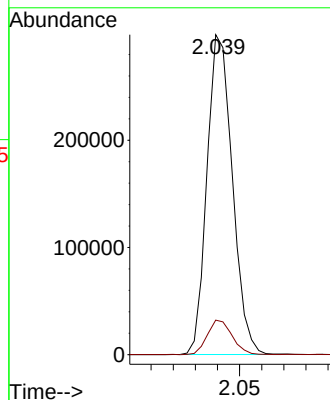
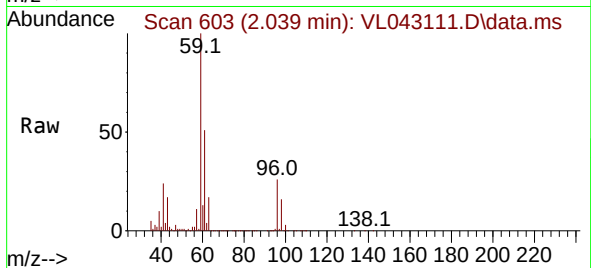
57 10.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

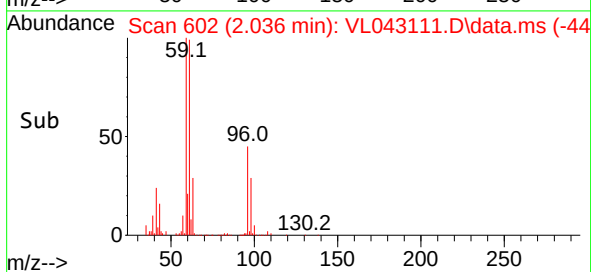
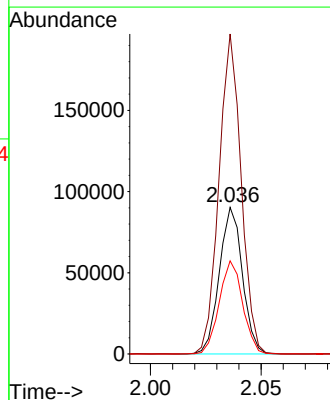
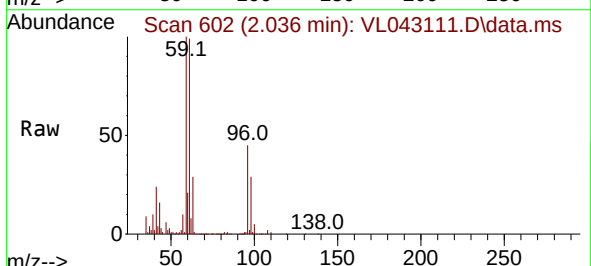
Tgt Ion: 96 Resp: 65634

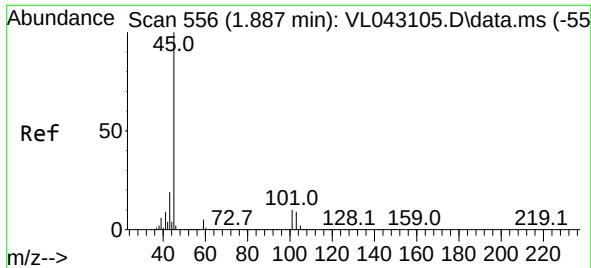
Ion Ratio Lower Upper

96 100

61 218.2 173.4 260.0

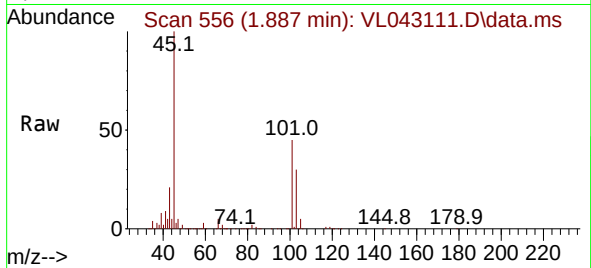
98 63.5 53.2 79.8





#19  
Isopropyl Alcohol  
Concen: 12.051 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

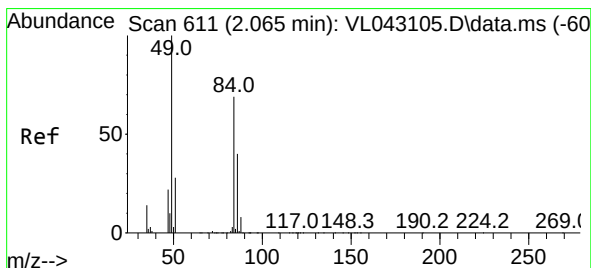
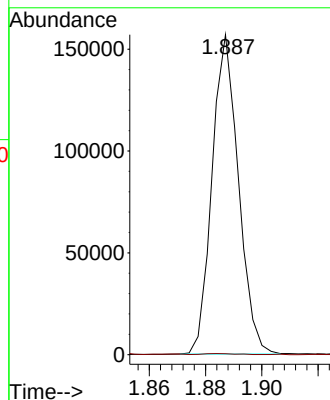
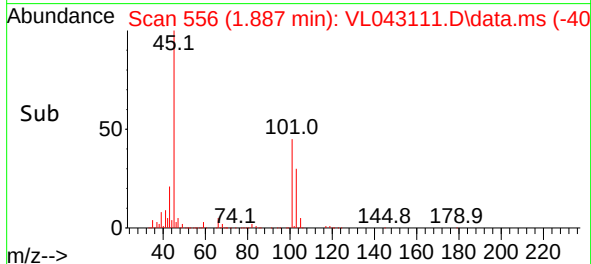
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



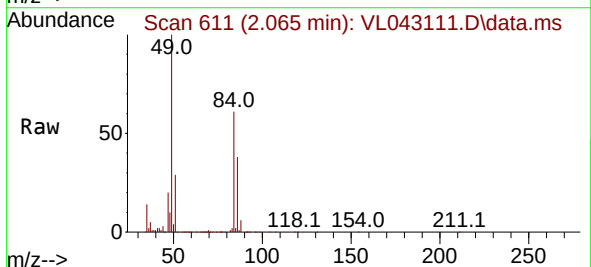
Tgt Ion: 45 Resp: 102035  
Ion Ratio Lower Upper  
45 100  
58 40.2 31.3 46.9

Manual Integrations  
APPROVED

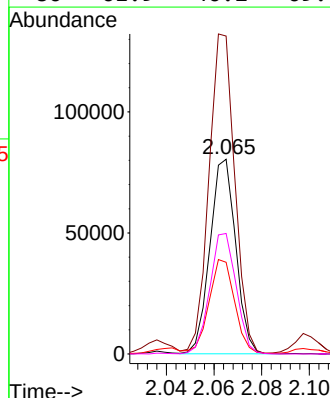
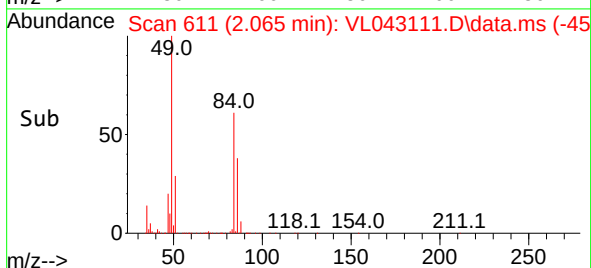
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

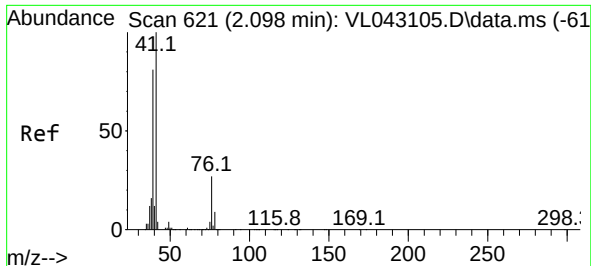


#20  
Methylene Chloride  
Concen: 11.268 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion: 84 Resp: 60549  
Ion Ratio Lower Upper  
84 100  
49 162.4 116.6 175.0  
51 46.6 34.8 52.2  
86 61.9 46.2 69.4





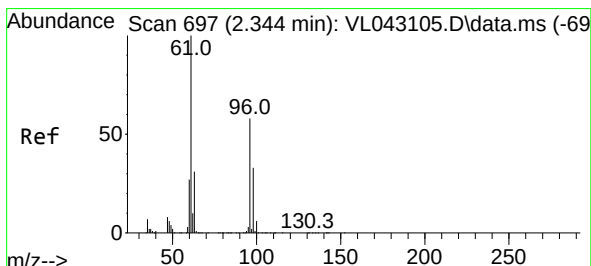
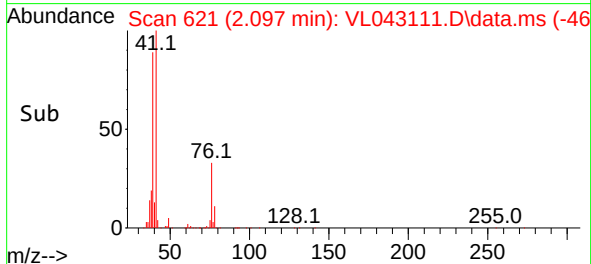
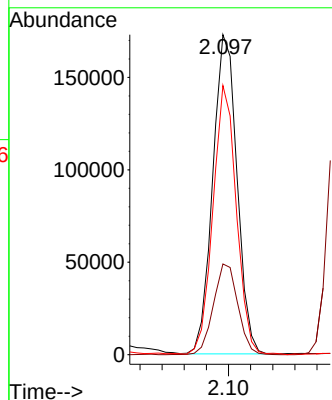
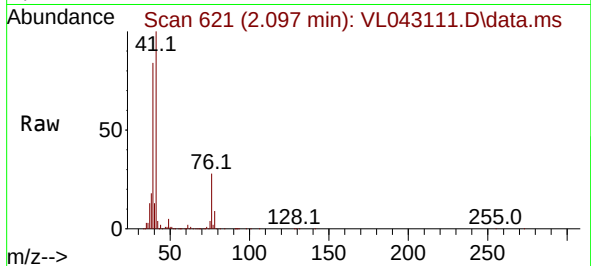
#21  
 Allyl Chloride  
 Concen: 13.105 ppbv  
 RT: 2.097 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 41 Resp: 131539  
 Ion Ratio Lower Upper  
 41 100  
 76 28.8 21.5 32.3  
 39 80.9 60.8 91.2

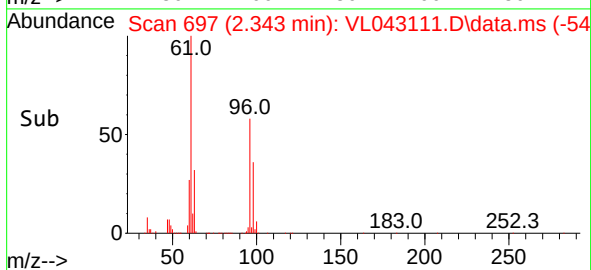
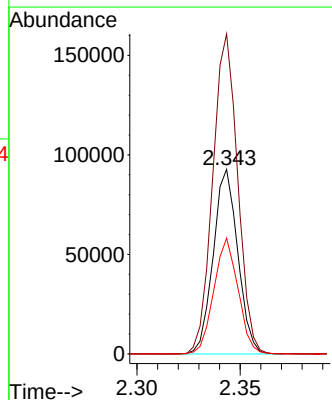
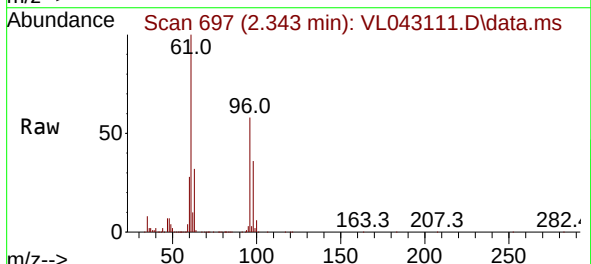
Manual Integrations  
 APPROVED

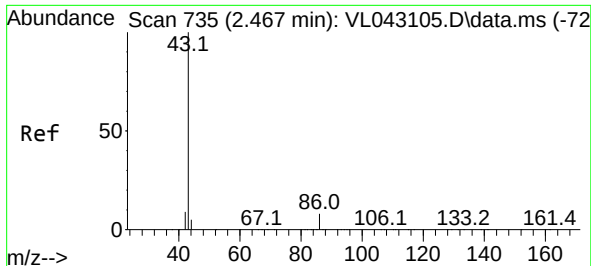
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 13.048 ppbv  
 RT: 2.343 min Scan# 697  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

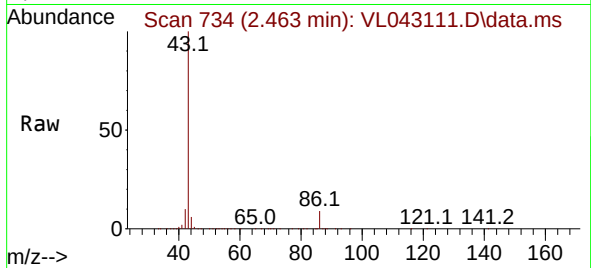
Tgt Ion: 96 Resp: 76780  
 Ion Ratio Lower Upper  
 96 100  
 61 173.2 137.0 205.6  
 98 62.8 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 14.476 ppbv  
 RT: 2.463 min Scan# 718  
 Delta R.T. -0.004 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

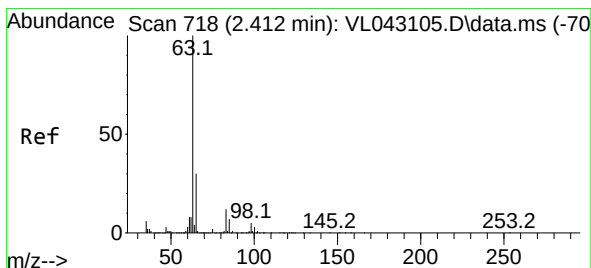
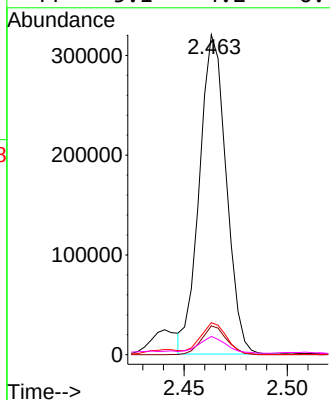
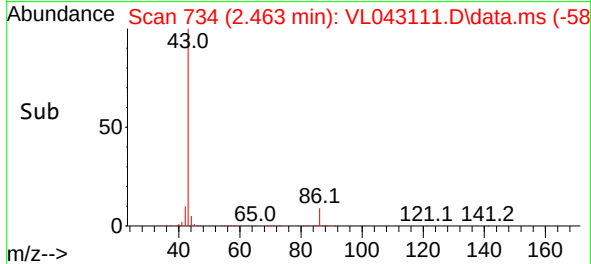
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



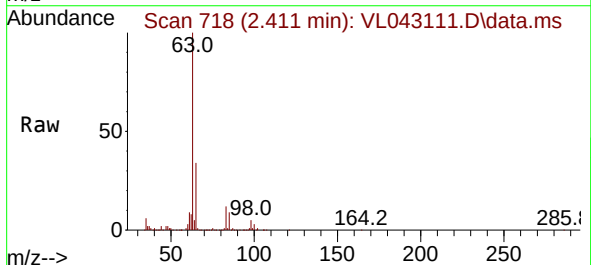
Tgt Ion: 43 Resp: 288274  
 Ion Ratio Lower Upper  
 43 100  
 86 9.0 6.2 9.2  
 42 10.0 7.6 11.4  
 44 5.1 4.2 6.4

Manual Integrations  
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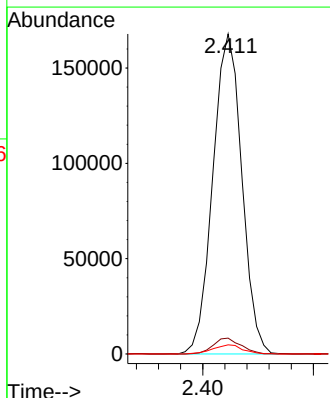
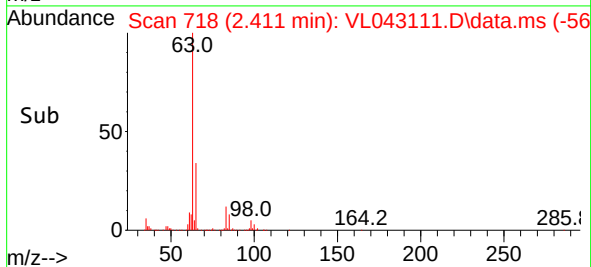
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

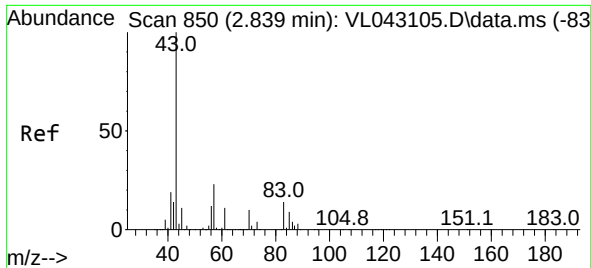


#24  
 1,1-Dichloroethane  
 Concen: 13.428 ppbv  
 RT: 2.411 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18



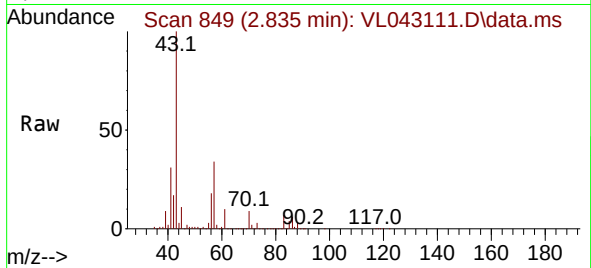
Tgt Ion: 63 Resp: 152663  
 Ion Ratio Lower Upper  
 63 100  
 98 4.9 2.6 7.8  
 100 2.8 1.5 4.4





#25  
Ethyl Acetate  
Concen: 12.884 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

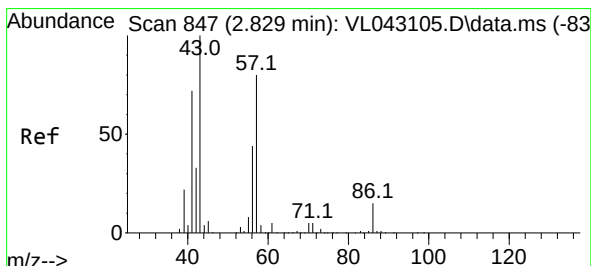
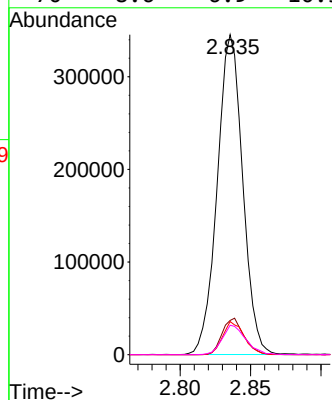
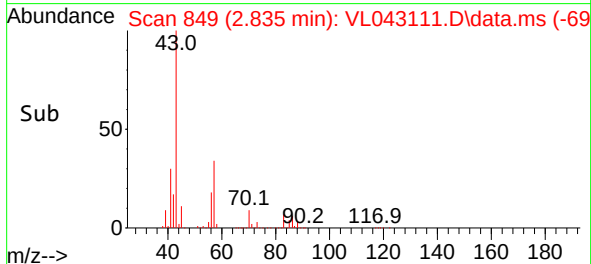
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC015



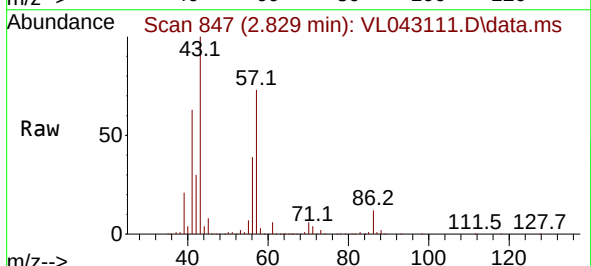
| Tgt Ion:  | 43  | Resp: | 434350 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 43        | 100 |       |        |
| 45        | 9.8 | 7.8   | 11.8   |
| 61        | 8.9 | 7.0   | 10.6   |
| 70        | 8.6 | 6.9   | 10.3   |

Manual Integrations  
APPROVED

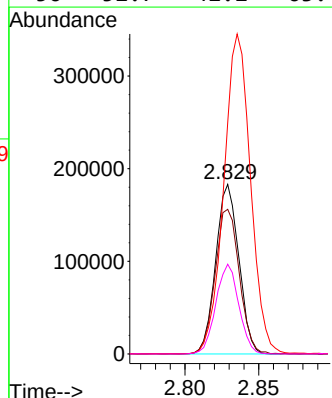
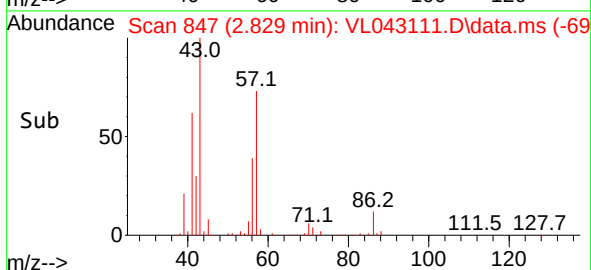
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

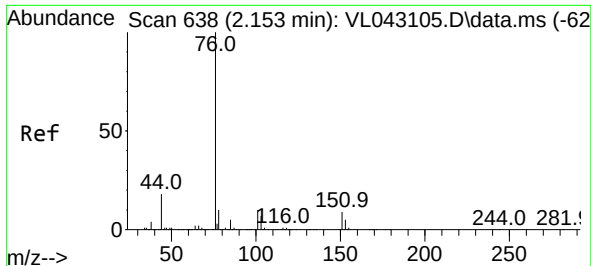


#26  
Hexane  
Concen: 12.836 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



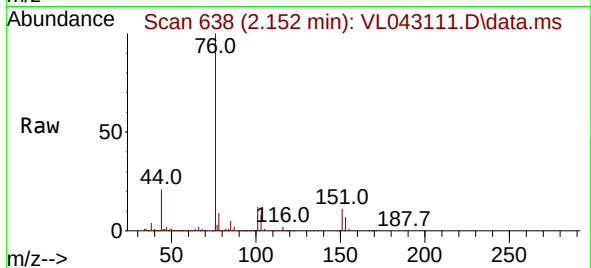
| Tgt Ion:  | 57    | Resp: | 199384 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 41        | 89.9  | 71.4  | 107.0  |
| 43        | 218.2 | 178.5 | 267.7  |
| 56        | 52.7  | 42.2  | 63.4   |





#27  
Carbon Disulfide  
Concen: 13.522 ppbv  
RT: 2.152 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

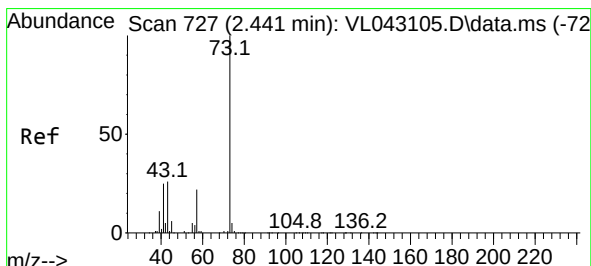
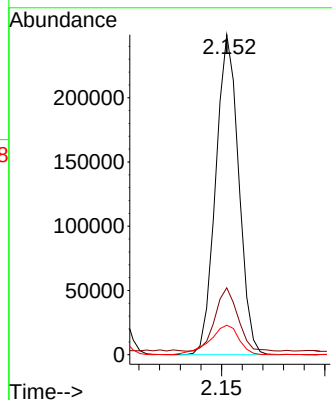
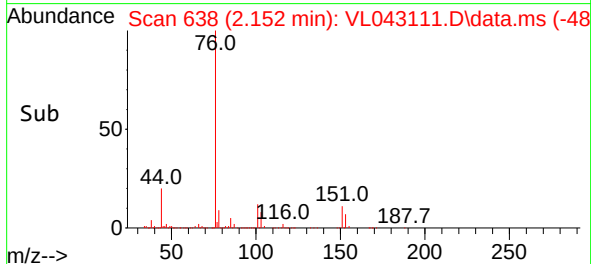
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 76 Resp: 19245  
Ion Ratio Lower Upper  
76 100  
44 20.6 16.7 25.1  
78 11.6 9.3 13.9

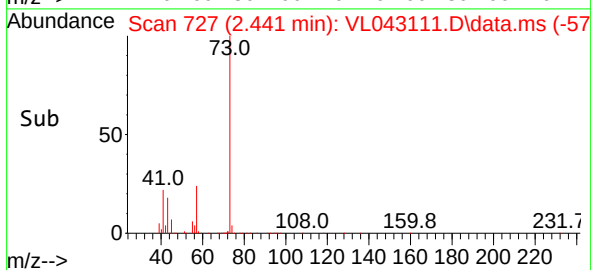
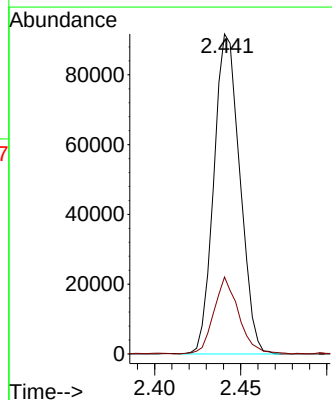
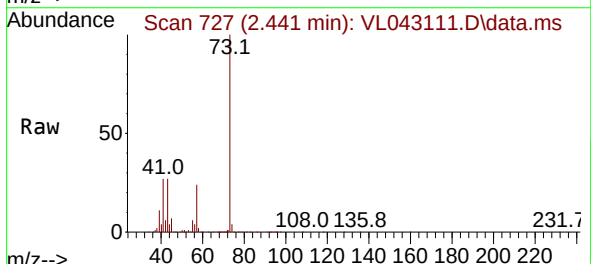
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

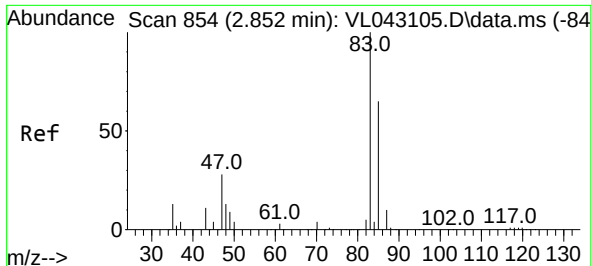


#28  
Methyl tert-Butyl Ether  
Concen: 13.650 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464  
Ion Ratio Lower Upper  
73 100  
57 22.7 20.5 30.7







#29

Chloroform

Concen: 13.425 ppbv

RT: 2.852 min Scan# 8

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 83 Resp: 302154

Ion Ratio Lower Upper

83 100

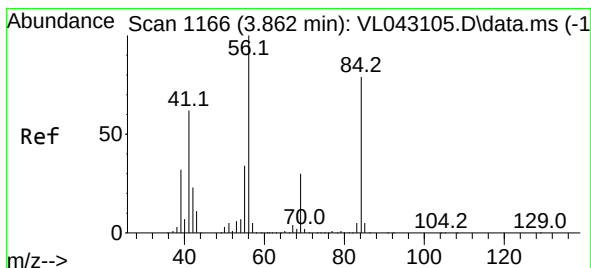
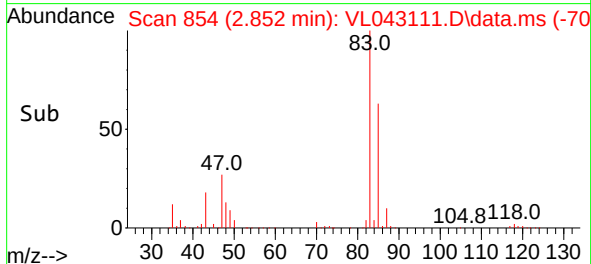
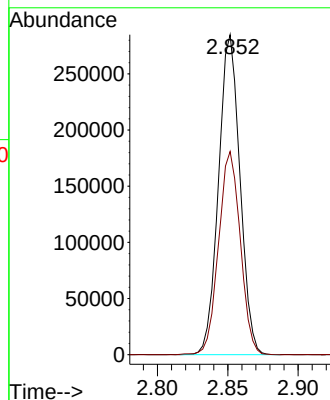
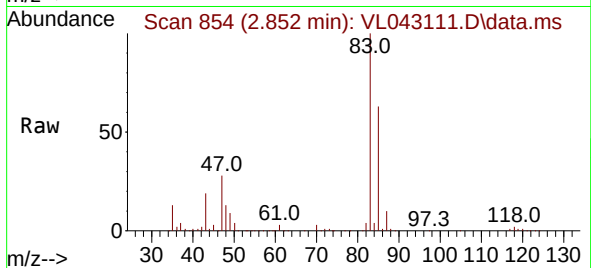
85 63.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Cyclohexane

Concen: 13.133 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

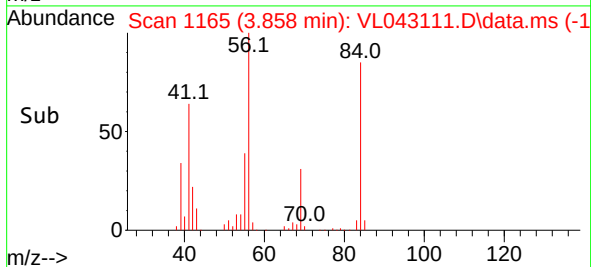
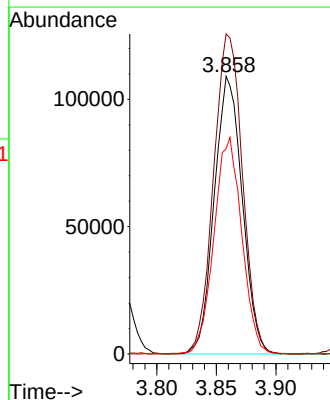
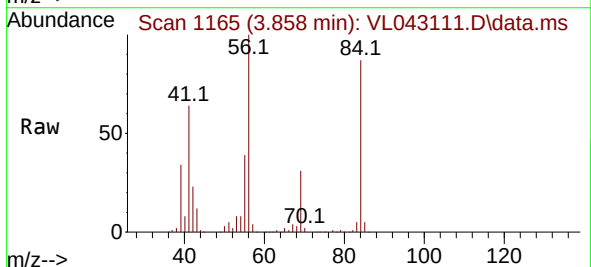
Tgt Ion: 84 Resp: 177947

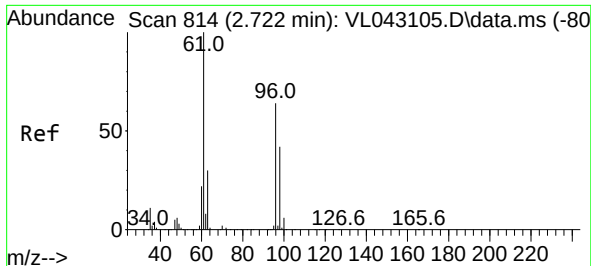
Ion Ratio Lower Upper

84 100

56 119.1 100.9 151.3

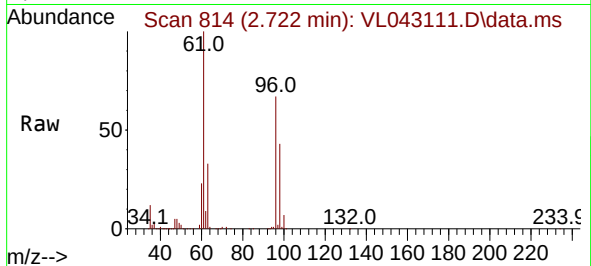
41 77.3 63.8 95.6





#31  
 cis-1,2-Dichloroethene  
 Concen: 13.745 ppbv  
 RT: 2.722 min Scan# 814  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

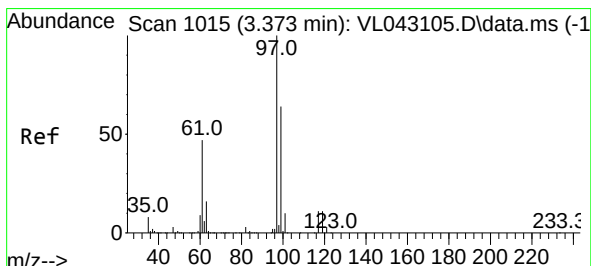
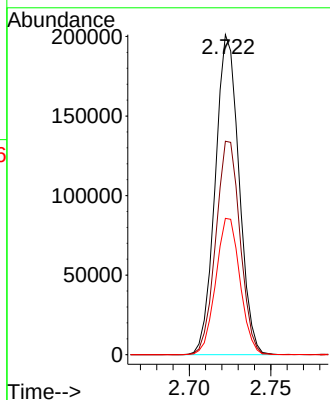
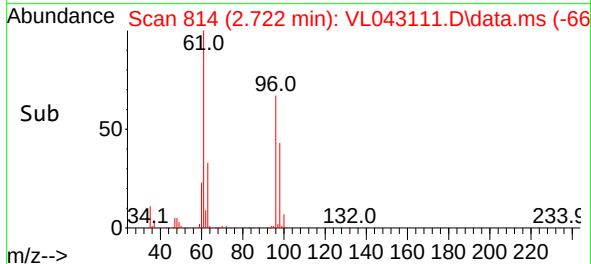
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015



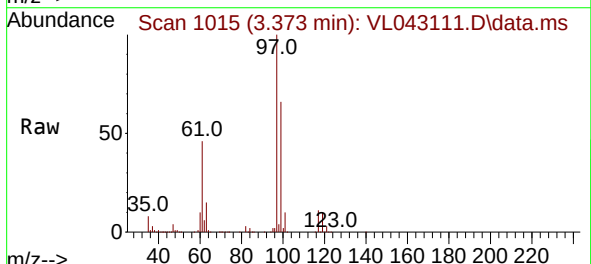
Tgt Ion: 61 Resp: 20388  
 Ion Ratio Lower Upper  
 61 100  
 96 66.7 51.0 76.6  
 98 42.6 33.5 50.3

Manual Integrations  
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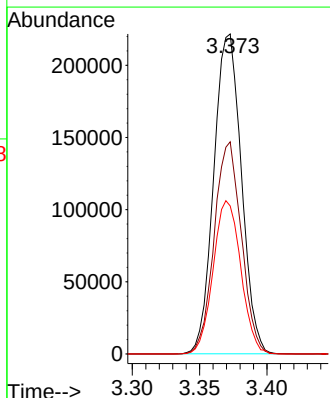
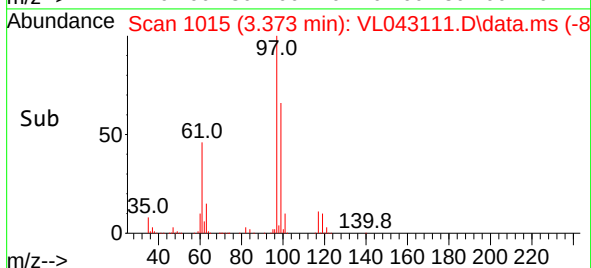
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

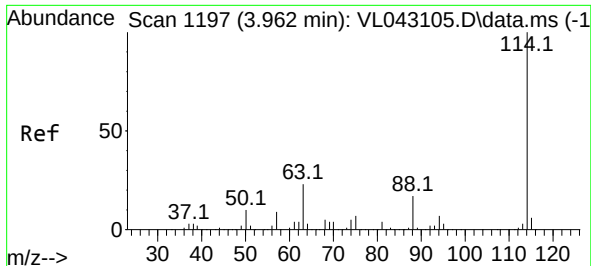


#32  
 1,1,1-Trichloroethane  
 Concen: 13.500 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18



Tgt Ion: 97 Resp: 316442  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 51.3 76.9  
 61 48.0 38.4 57.6





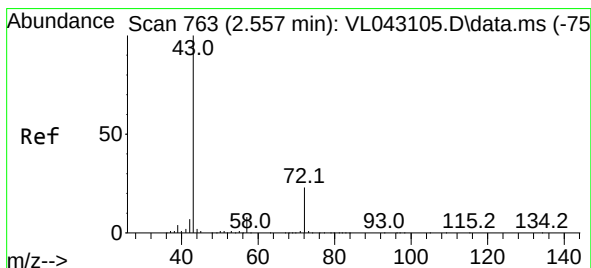
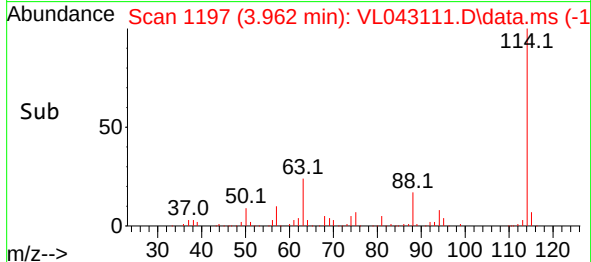
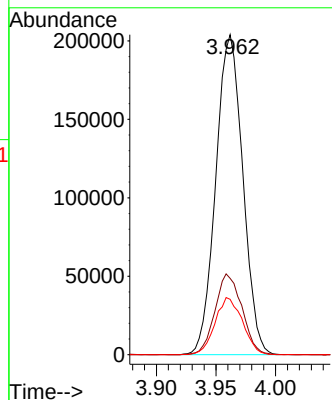
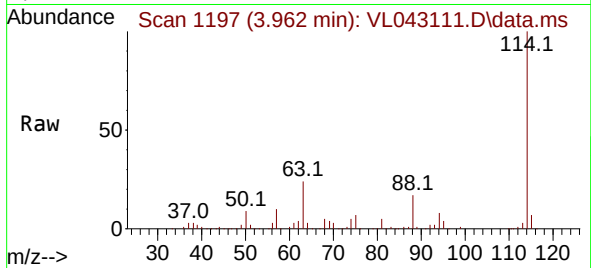
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:114 Resp: 32166  
Ion Ratio Lower Upper  
114 100  
63 25.1 19.3 28.9  
88 18.1 13.9 20.9

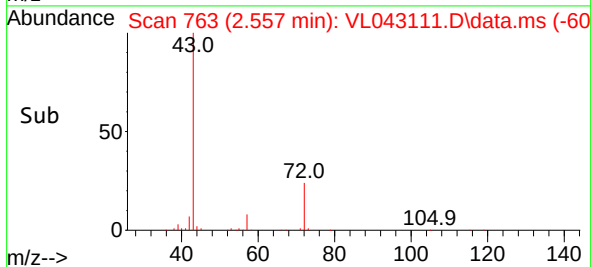
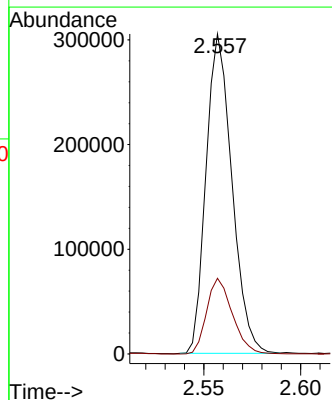
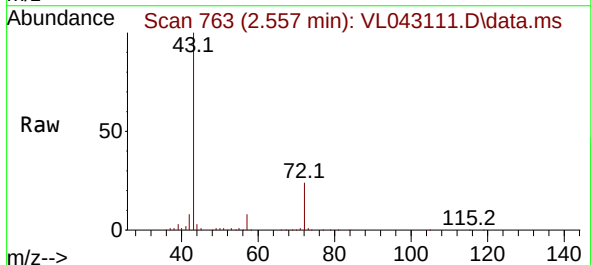
Manual Integrations  
APPROVED

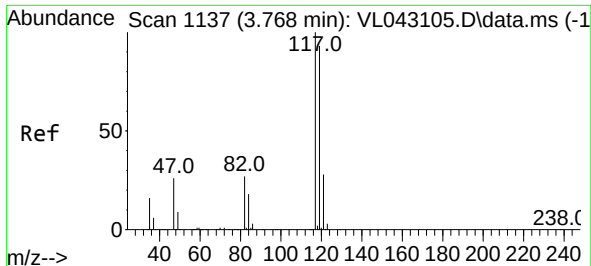
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#34  
2-Butanone  
Concen: 13.020 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

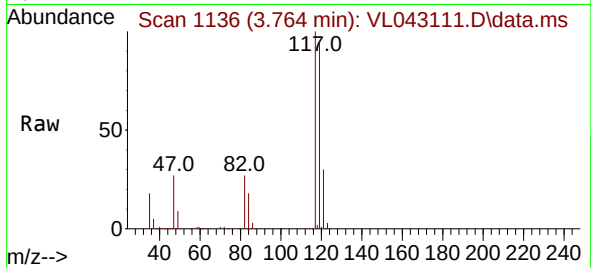
Tgt Ion: 43 Resp: 283134  
Ion Ratio Lower Upper  
43 100  
72 23.6 18.4 27.6





#35  
Carbon Tetrachloride  
Concen: 14.056 ppbv  
RT: 3.764 min Scan# 1136  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

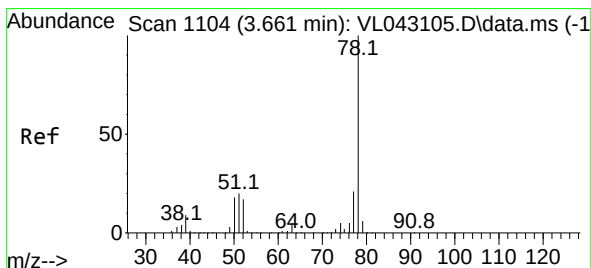
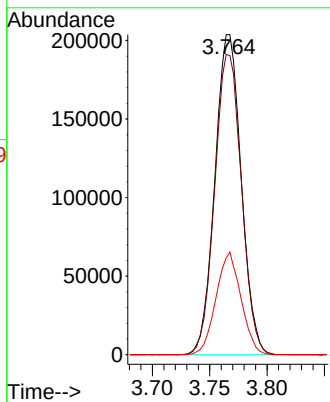
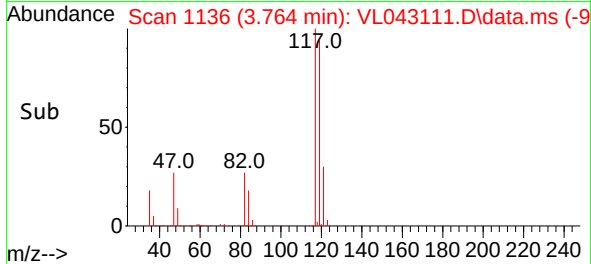
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 117 Resp: 325078  
Ion Ratio Lower Upper  
117 100  
119 93.8 74.1 111.1  
121 30.2 22.2 33.2

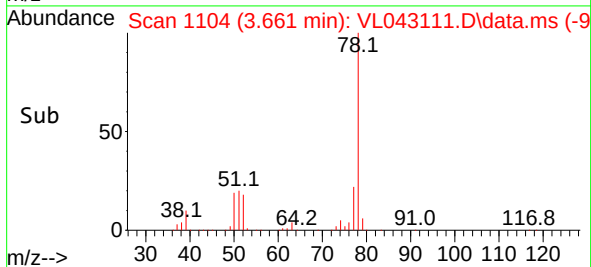
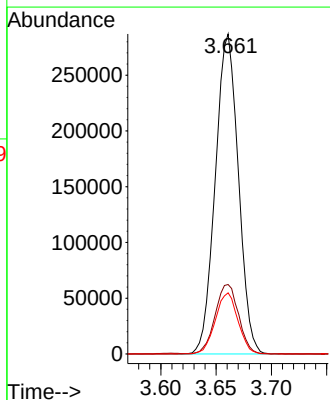
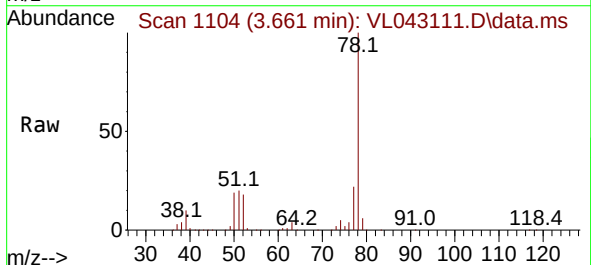
Manual Integrations  
APPROVED

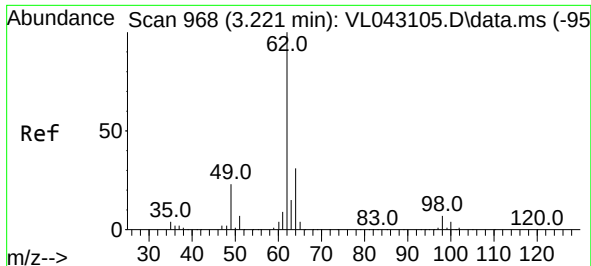
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#36  
Benzene  
Concen: 13.725 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 78 Resp: 415823  
Ion Ratio Lower Upper  
78 100  
77 21.6 17.0 25.6  
50 19.1 14.6 22.0





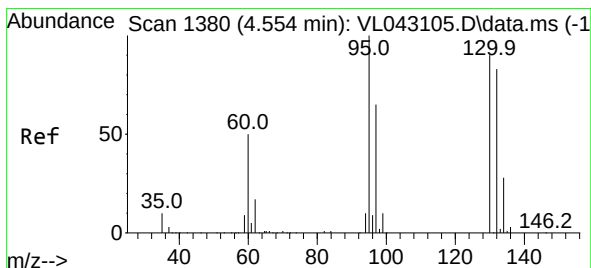
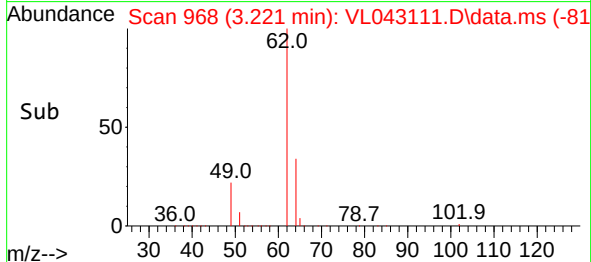
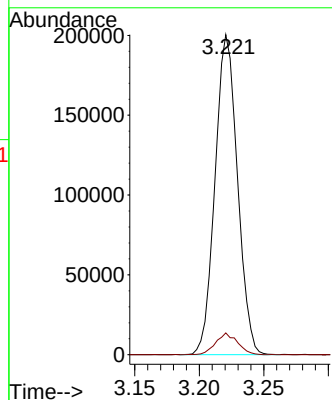
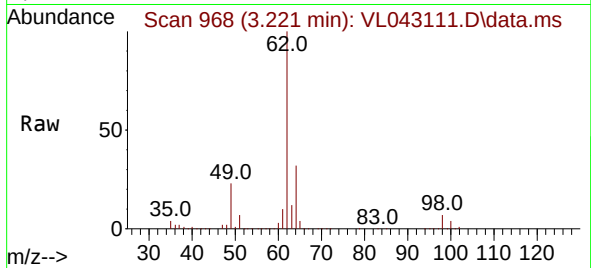
#37  
1,2-Dichloroethane  
Concen: 13.865 ppbv  
RT: 3.221 min Scan# 968  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 62 Resp: 24198  
Ion Ratio Lower Upper  
62 100  
98 6.6 5.8 8.6

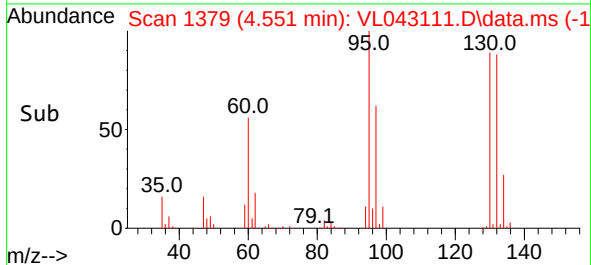
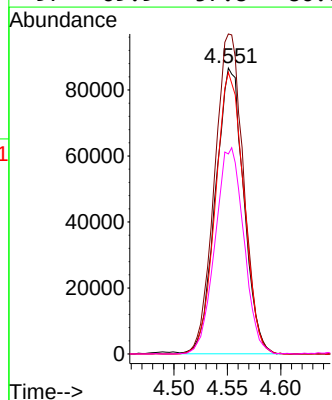
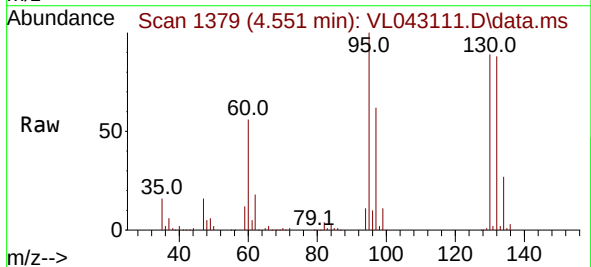
Manual Integrations  
APPROVED

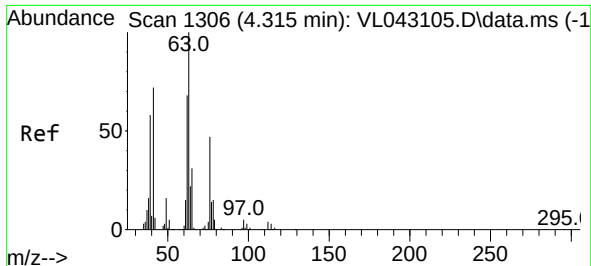
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 12.590 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:130 Resp: 159136  
Ion Ratio Lower Upper  
130 100  
95 111.8 88.6 133.0  
132 98.5 73.4 110.0  
97 69.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 13.274 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043111.D

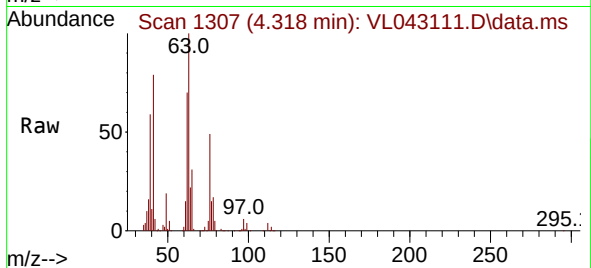
Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015



Tgt Ion: 63 Resp: 14715

Ion Ratio Lower Upper

63 100

41 78.4 58.0 87.0

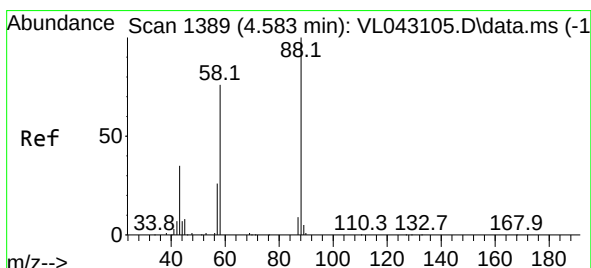
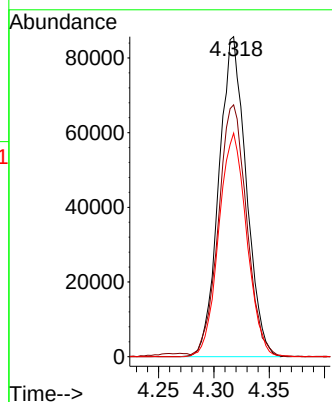
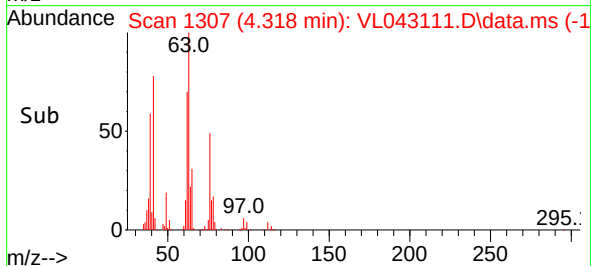
62 69.9 54.7 82.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 13.180 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Tgt Ion: 88 Resp: 65323

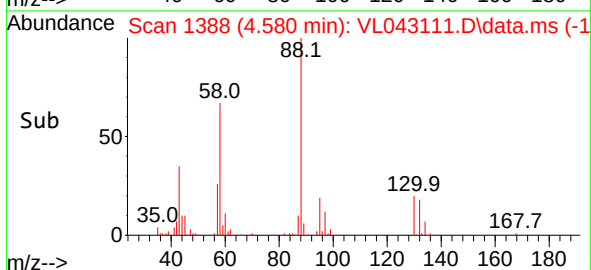
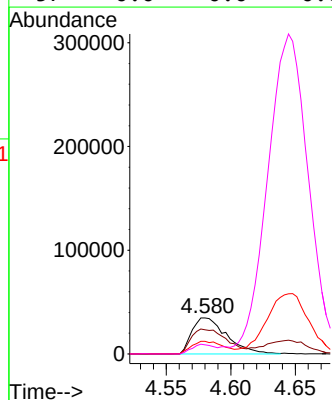
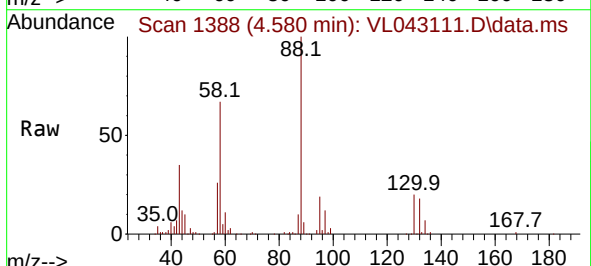
Ion Ratio Lower Upper

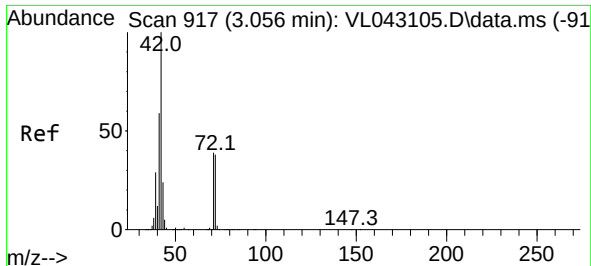
88 100

58 69.1 61.1 91.7

43 30.0 24.0 36.0

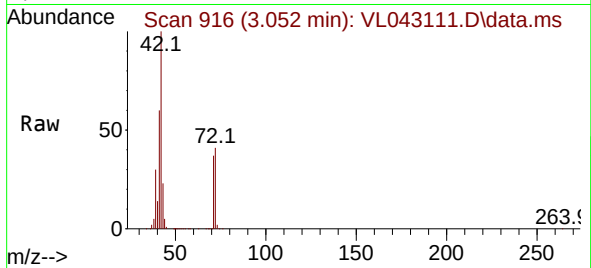
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 13.200 ppbv  
RT: 3.052 min Scan# 916  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

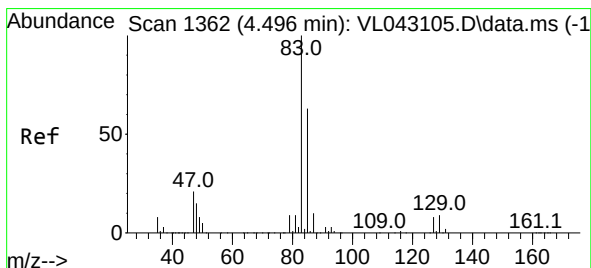
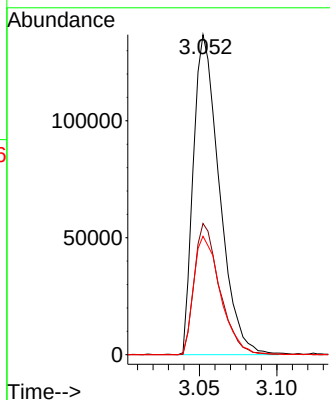
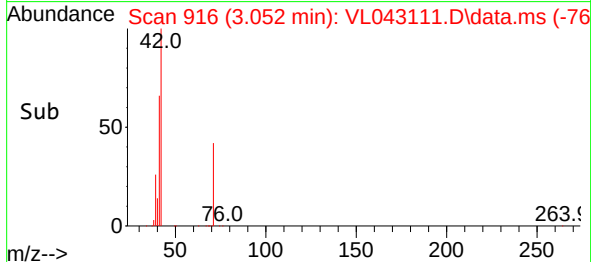
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



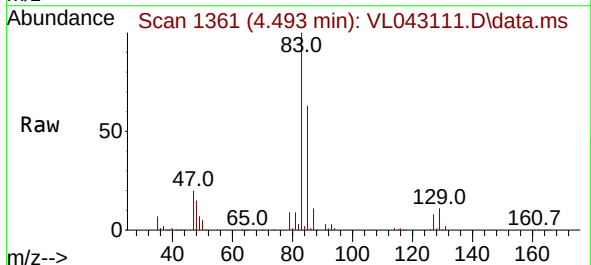
Tgt Ion: 42 Resp: 16024  
Ion Ratio Lower Upper  
42 100  
72 40.0 31.3 46.9  
71 38.2 30.4 45.6

Manual Integrations  
APPROVED

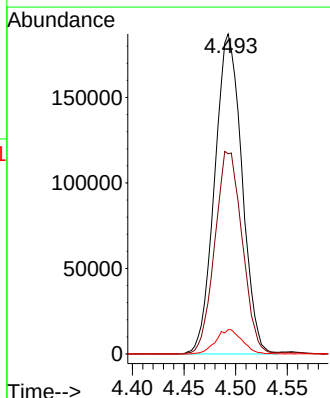
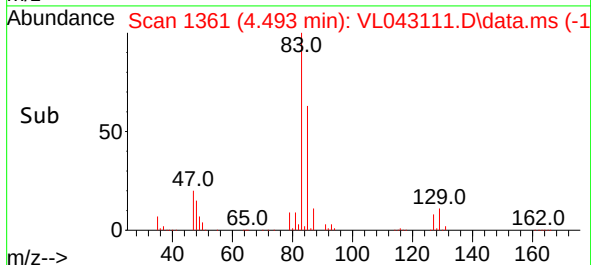
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

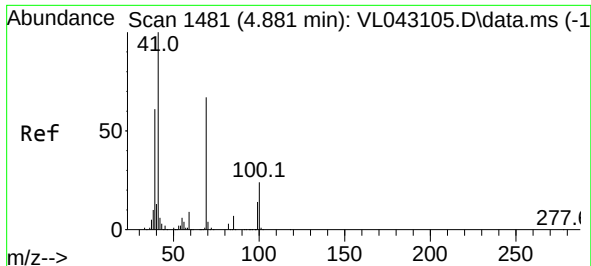


#42  
Bromodichloromethane  
Concen: 14.234 ppbv  
RT: 4.493 min Scan# 1361  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion: 83 Resp: 343817  
Ion Ratio Lower Upper  
83 100  
85 62.5 50.6 75.8  
127 7.6 6.3 9.5





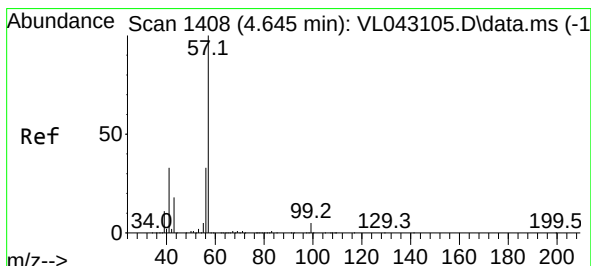
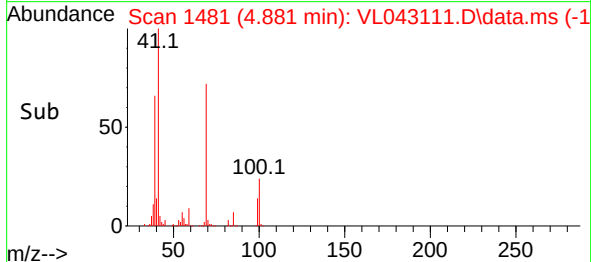
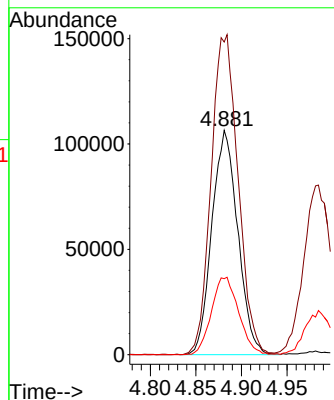
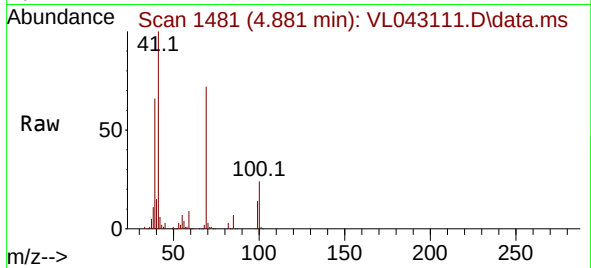
#43  
Methyl Methacrylate  
Concen: 13.633 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 69 Resp: 210750  
Ion Ratio Lower Upper  
69 100  
41 148.2 120.5 180.7  
100 36.3 29.0 43.4

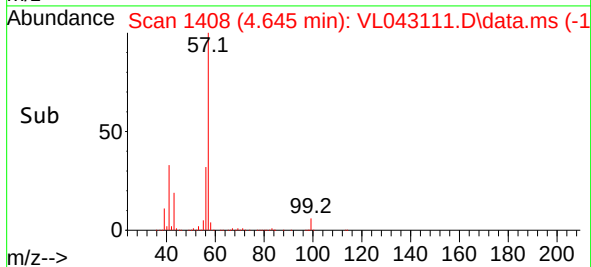
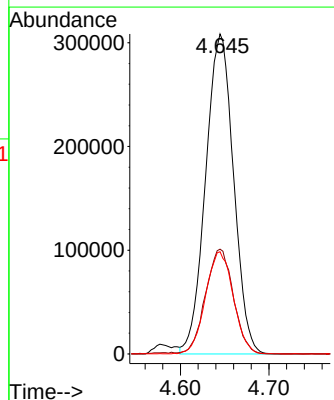
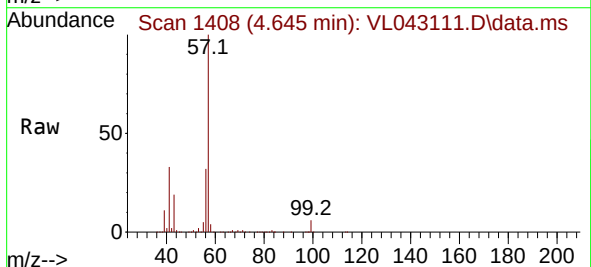
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

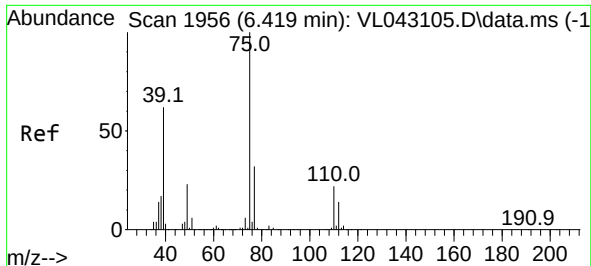


#44  
2,2,4-Trimethylpentane  
Concen: 13.340 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770  
Ion Ratio Lower Upper  
57 100  
41 33.2 26.3 39.5  
56 31.9 25.9 38.9

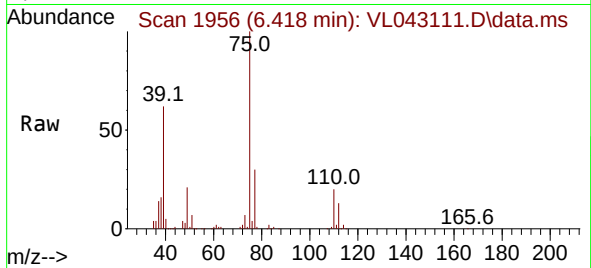






#45  
 t-1,3-Dichloropropene  
 Concen: 14.142 ppbv  
 RT: 6.418 min Scan# 1956  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

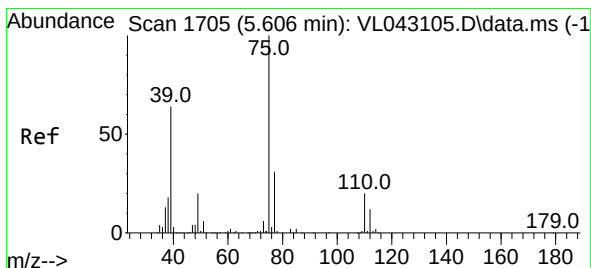
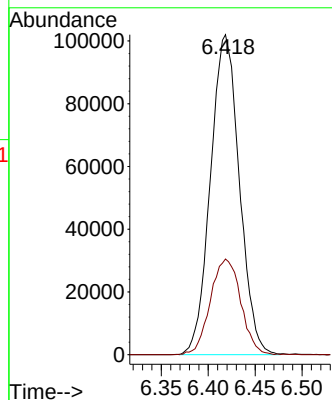
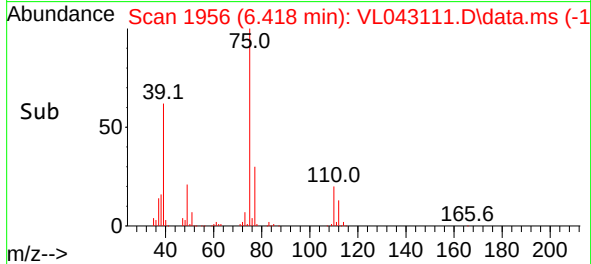
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



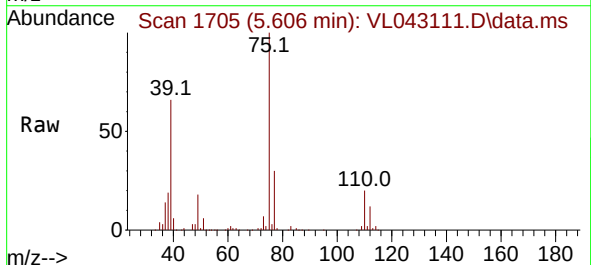
Tgt Ion: 75 Resp: 21838  
 Ion Ratio Lower Upper  
 75 100  
 77 29.9 25.4 38.2

Manual Integrations  
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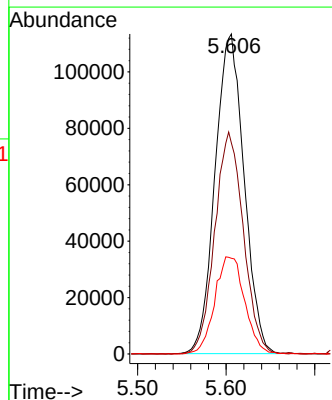
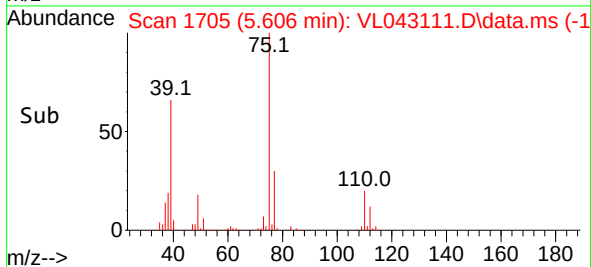
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

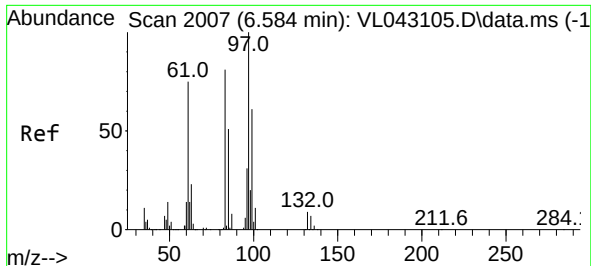


#46  
 cis-1,3-Dichloropropene  
 Concen: 14.018 ppbv  
 RT: 5.606 min Scan# 1705  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18



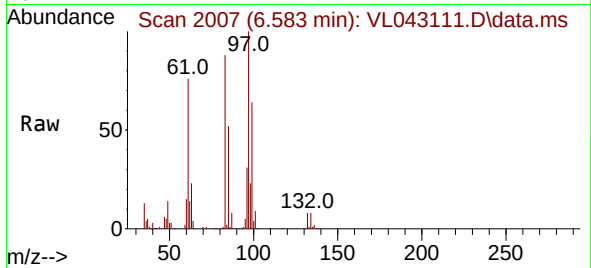
Tgt Ion: 75 Resp: 258355  
 Ion Ratio Lower Upper  
 75 100  
 39 65.8 51.0 76.6  
 77 29.9 25.0 37.4





#47  
1,1,2-Trichloroethane  
Concen: 13.638 ppbv  
RT: 6.583 min Scan# 2007  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

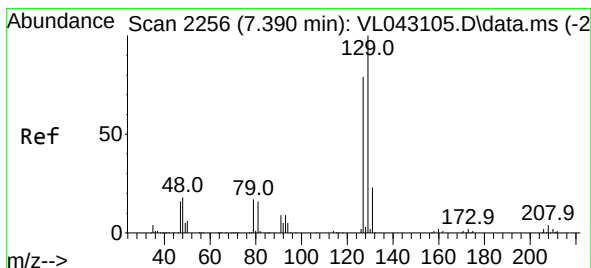
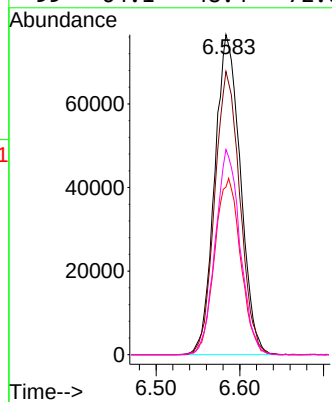
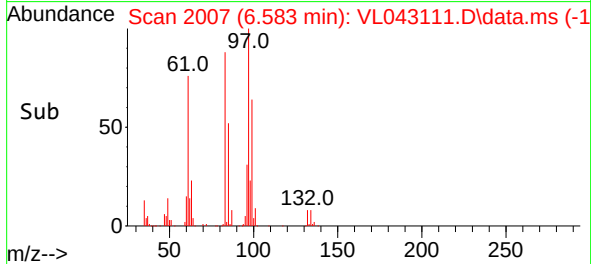
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



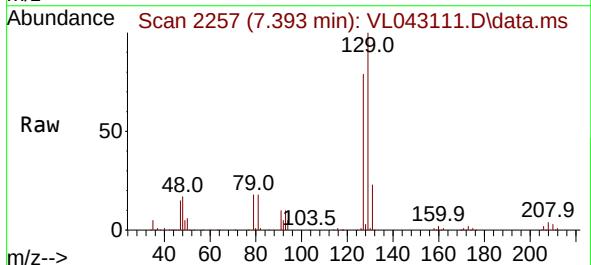
Tgt Ion: 97 Resp: 16311  
Ion Ratio Lower Upper  
97 100  
83 88.4 64.6 96.8  
85 52.4 40.6 60.8  
99 64.1 48.4 72.6

Manual Integrations  
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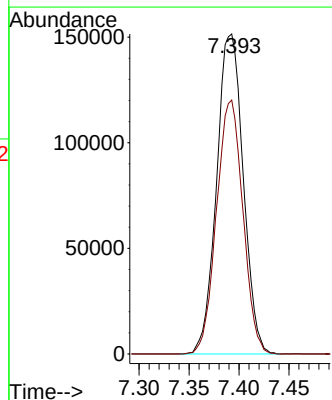
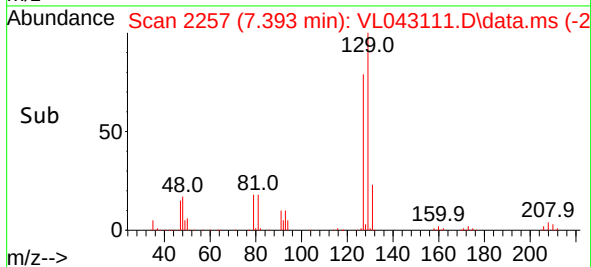
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

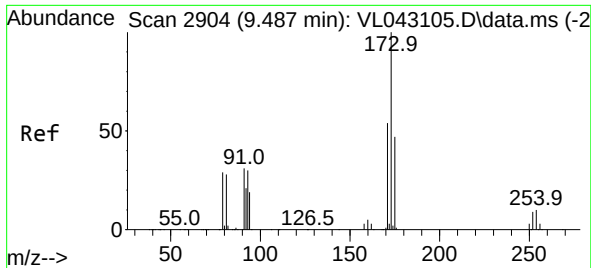


#48  
Dibromochloromethane  
Concen: 14.051 ppbv  
RT: 7.393 min Scan# 2257  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



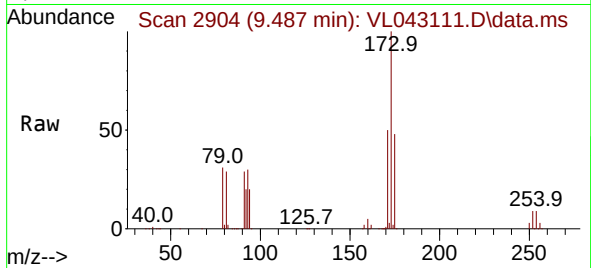
Tgt Ion:129 Resp: 280993  
Ion Ratio Lower Upper  
129 100  
127 78.6 39.3 117.9





#49  
Bromoform  
Concen: 14.184 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

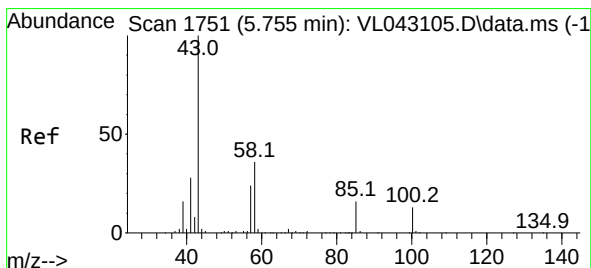
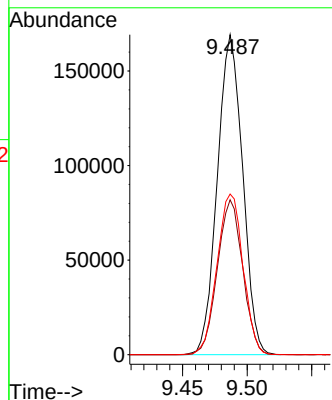
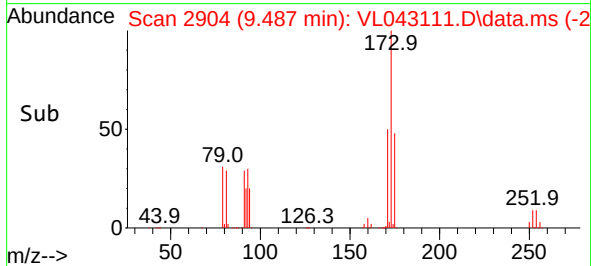
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 173 Resp: 23056  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
171 51.7 41.7 62.5

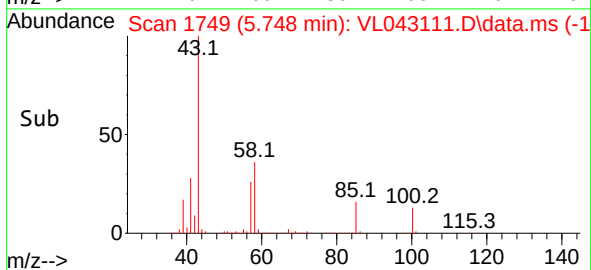
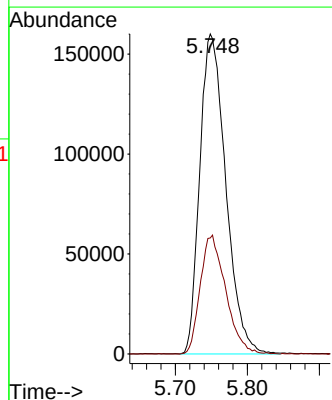
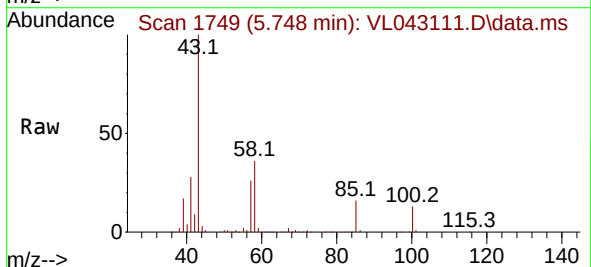
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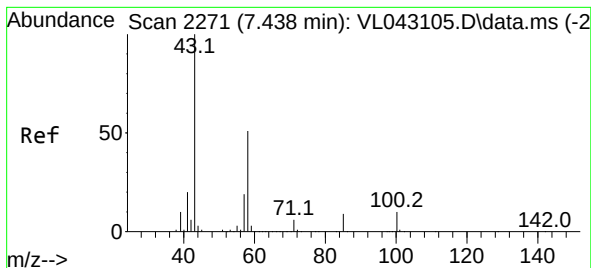
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#50  
4-Methyl-2-Pentanone  
Concen: 13.396 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. -0.007 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 401849  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.1 43.7





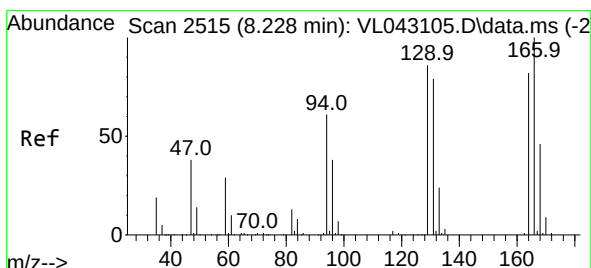
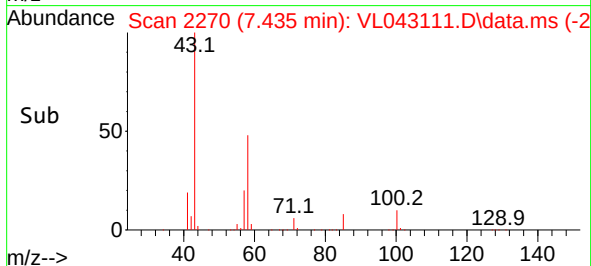
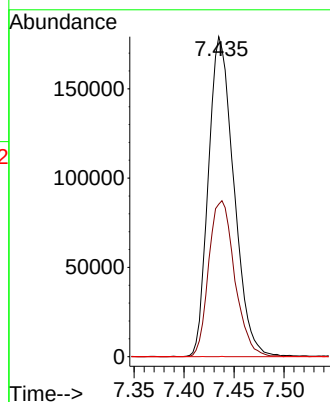
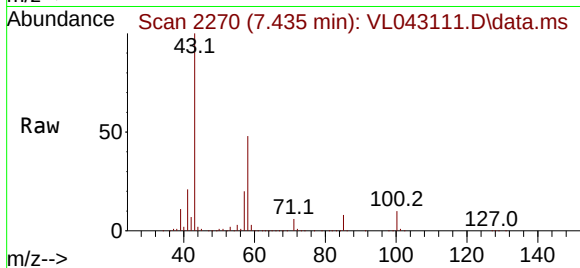
#51  
2-Hexanone  
Concen: 14.176 ppbv  
RT: 7.435 min Scan# 2178  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 43 Resp: 31728  
Ion Ratio Lower Upper  
43 100  
58 49.8 40.4 60.6  
98 0.0 0.1 0.1

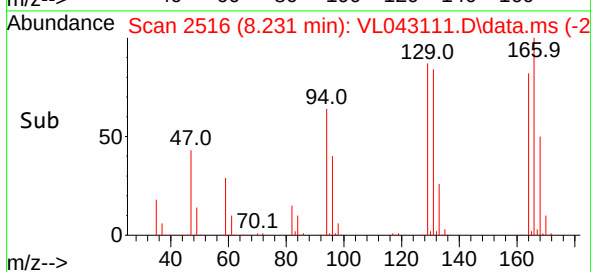
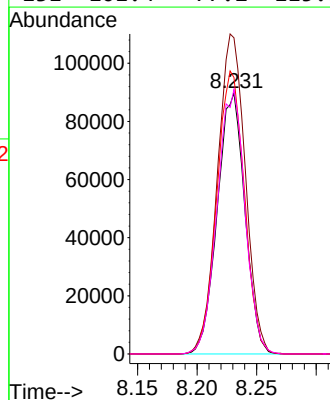
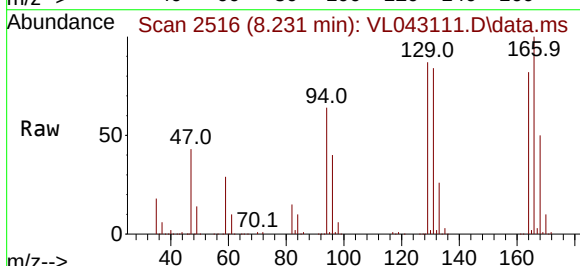
Manual Integrations  
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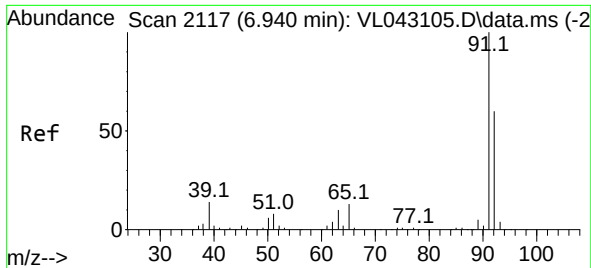
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#52  
Tetrachloroethene  
Concen: 13.177 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

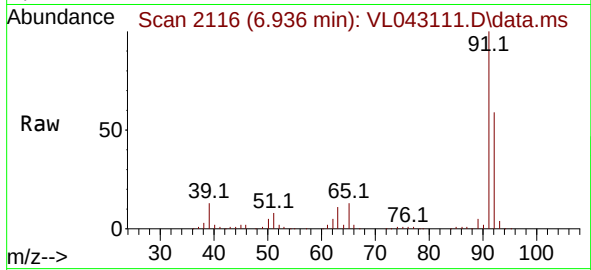
Tgt Ion:164 Resp: 143954  
Ion Ratio Lower Upper  
164 100  
166 121.3 97.6 146.4  
129 106.0 84.5 126.7  
131 101.4 77.2 115.8





#53  
Toluene  
Concen: 13.457 ppbv  
RT: 6.936 min Scan# 2117  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

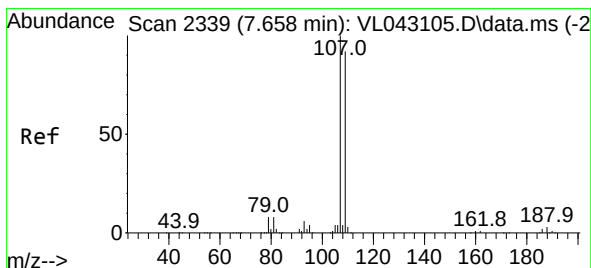
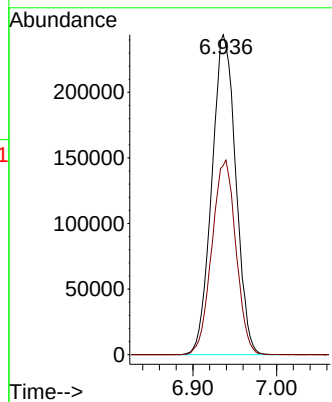
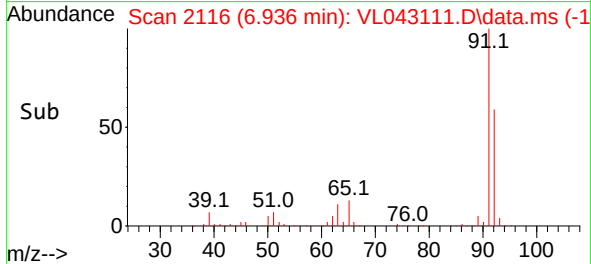
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



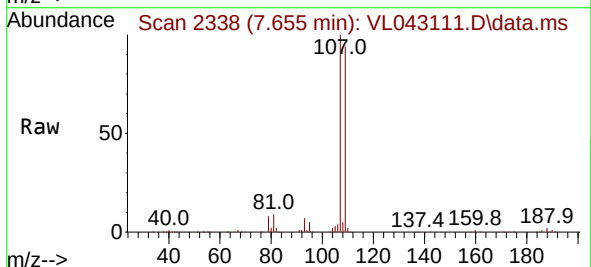
Tgt Ion: 91 Resp: 483870  
Ion Ratio Lower Upper  
91 100  
92 61.1 48.8 73.2

Manual Integrations  
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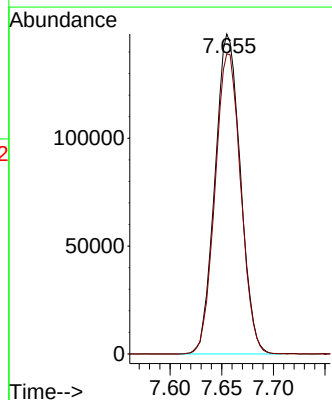
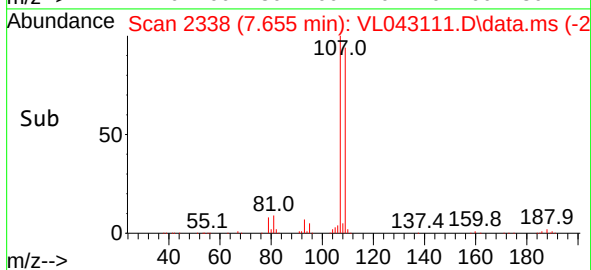
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

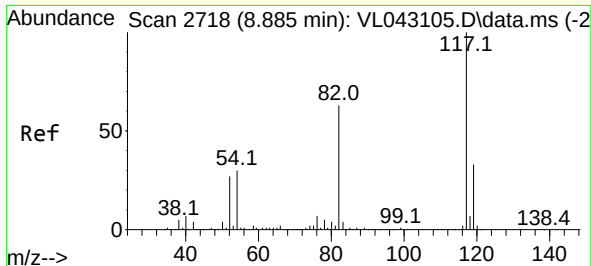


#54  
1,2-Dibromoethane  
Concen: 13.461 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



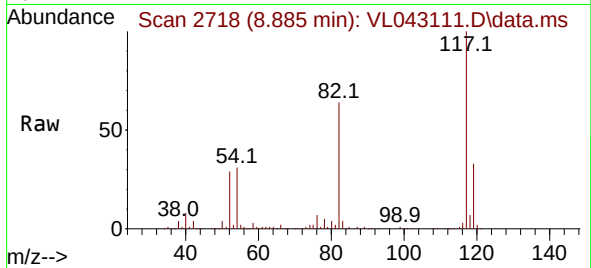
Tgt Ion:107 Resp: 254024  
Ion Ratio Lower Upper  
107 100  
109 93.8 73.4 110.2





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

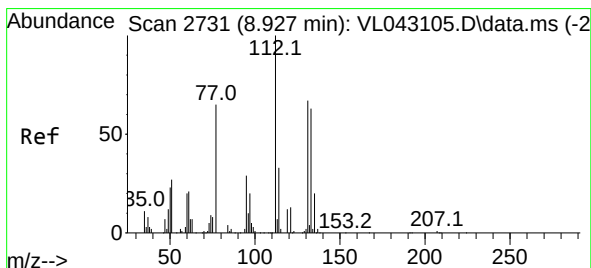
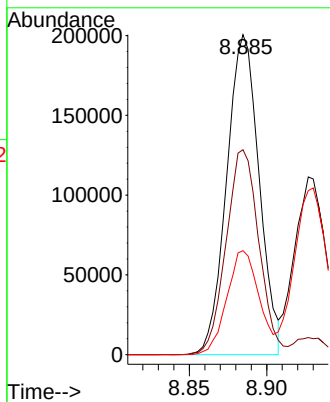
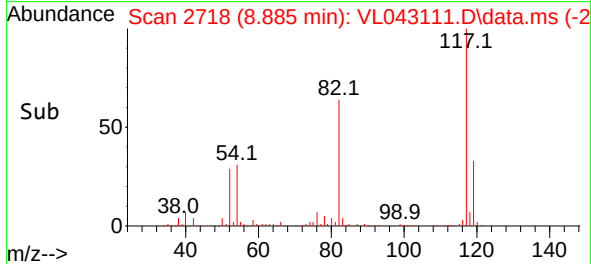
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



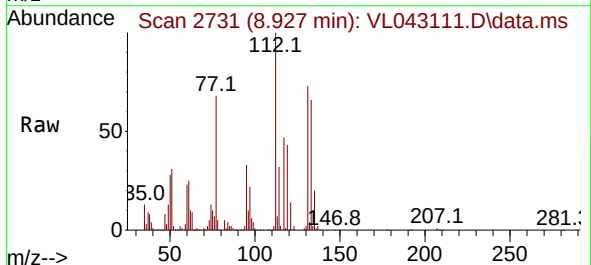
Tgt Ion:117 Resp: 29254  
Ion Ratio Lower Upper  
117 100  
82 70.2 53.8 80.8  
119 33.1 25.4 38.0

Manual Integrations  
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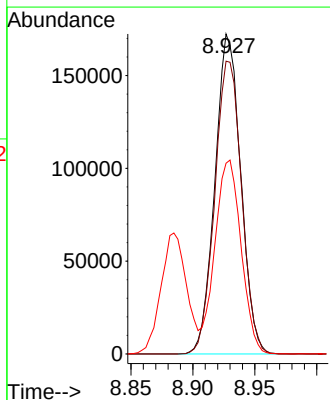
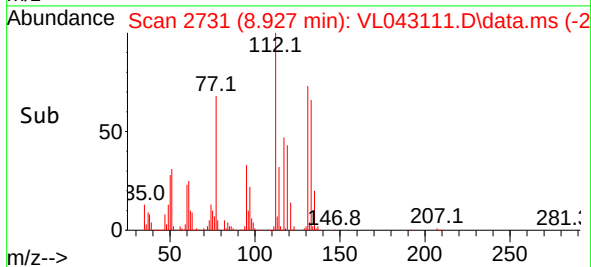
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

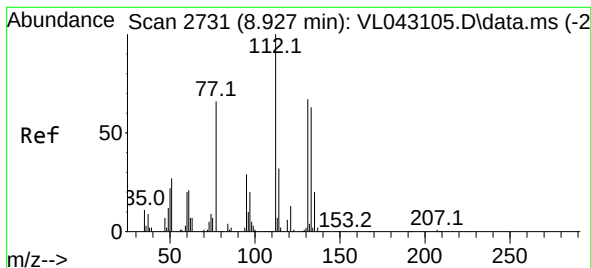


#56  
1,1,1,2-Tetrachloroethane  
Concen: 13.573 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion:131 Resp: 250303  
Ion Ratio Lower Upper  
131 100  
133 95.1 75.7 113.5  
119 61.9 50.6 76.0





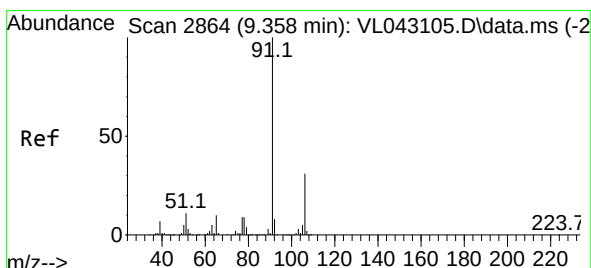
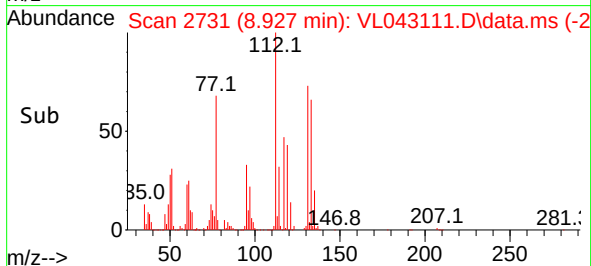
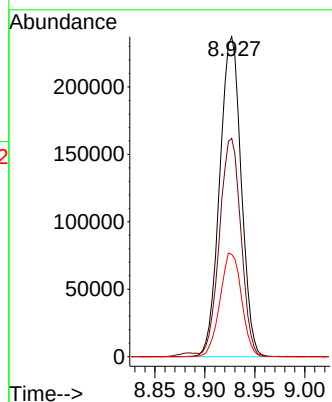
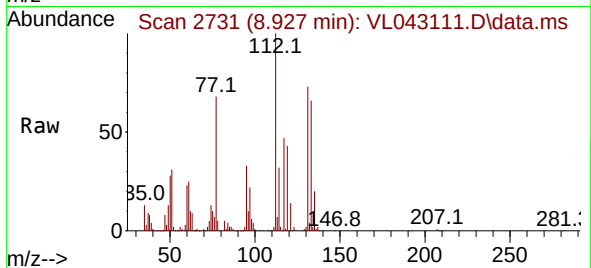
#57  
Chlorobenzene  
Concen: 12.983 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:112 Resp: 35530  
Ion Ratio Lower Upper  
112 100  
77 68.2 53.3 79.9  
114 32.0 29.3 35.8

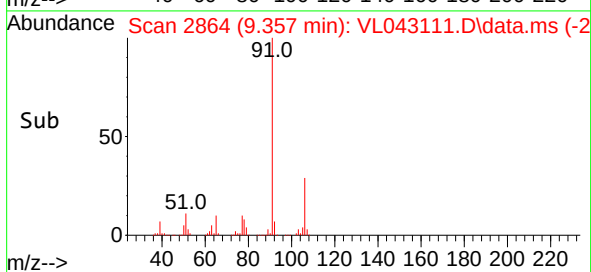
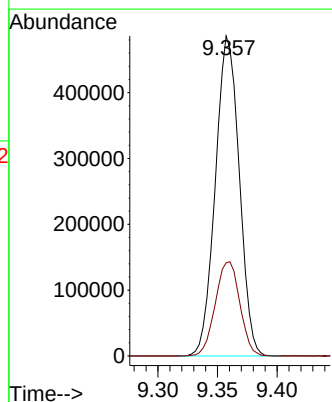
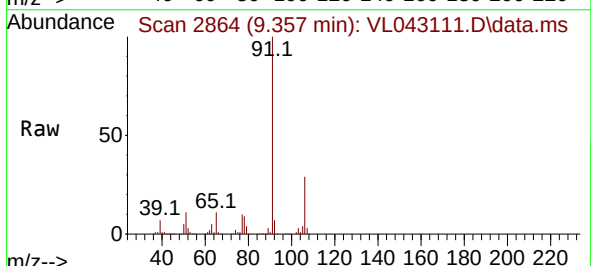
Manual Integrations  
APPROVED

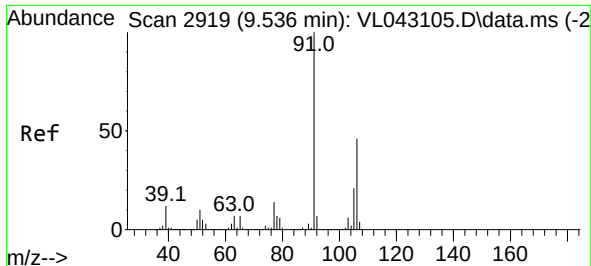
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#58  
Ethyl Benzene  
Concen: 13.375 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

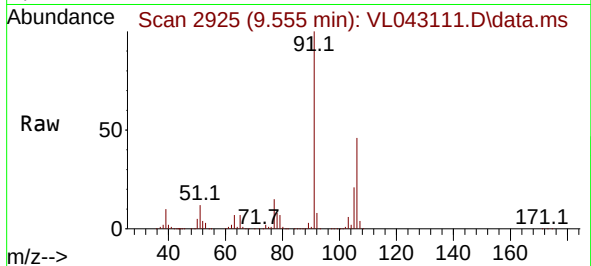
Tgt Ion: 91 Resp: 676918  
Ion Ratio Lower Upper  
91 100  
106 29.1 24.8 37.2





#59  
m/p-Xylene  
Concen: 26.498 ppbv m  
RT: 9.555 min Scan# 2919  
Delta R.T. 0.019 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

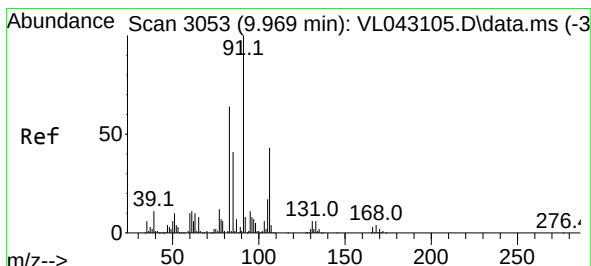
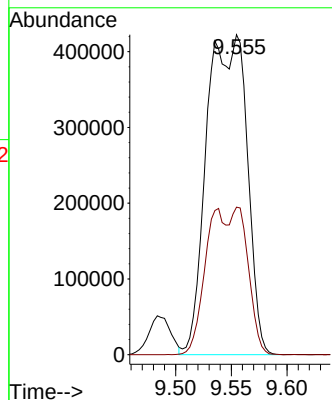
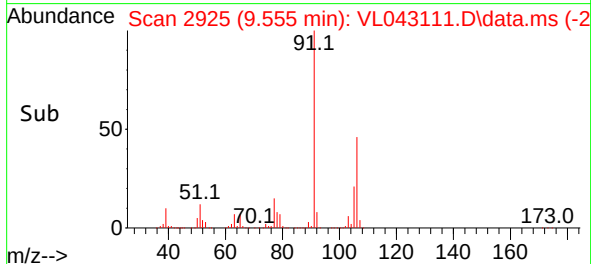
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



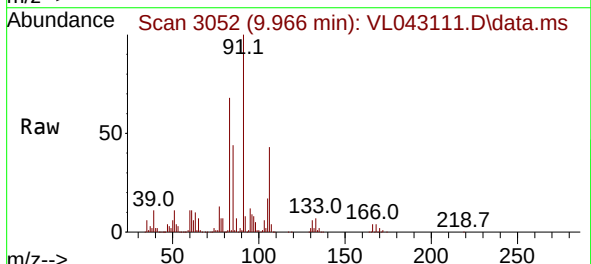
Tgt Ion: 91 Resp: 106195  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

Manual Integrations  
APPROVED

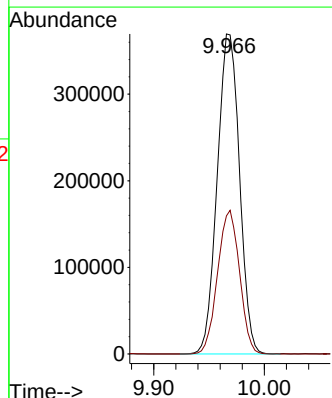
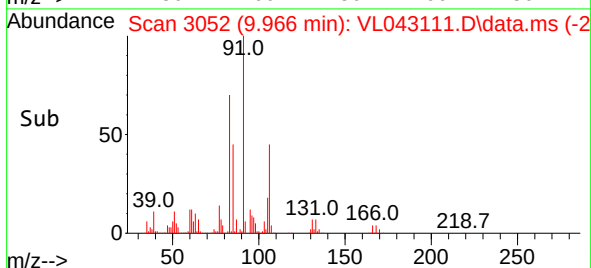
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



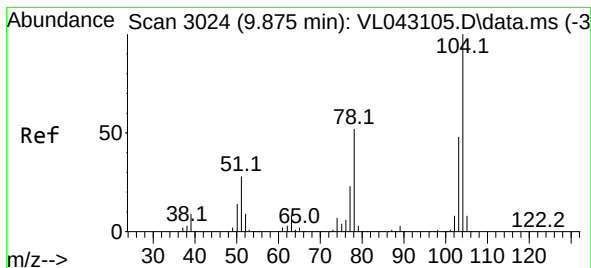
#60  
o-Xylene  
Concen: 13.063 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion: 91 Resp: 516660  
Ion Ratio Lower Upper  
91 100  
106 44.3 21.9 65.8







#61

Styrene

Concen: 13.867 ppbv

RT: 9.875 min Scan# 3024

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

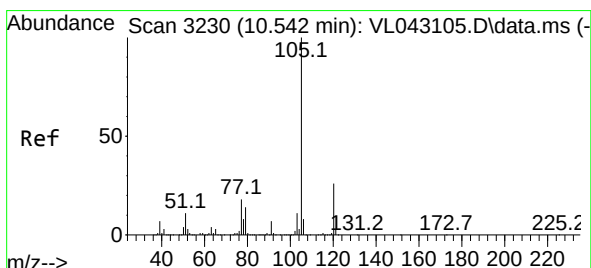
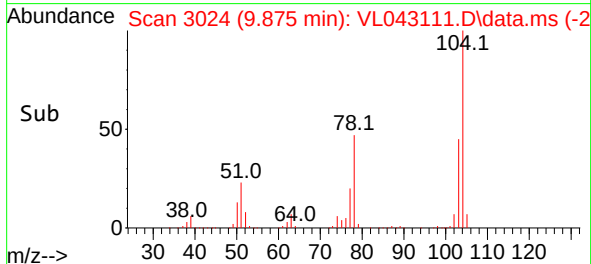
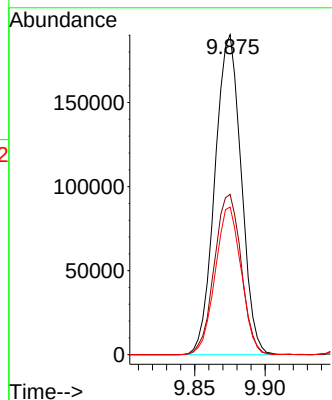
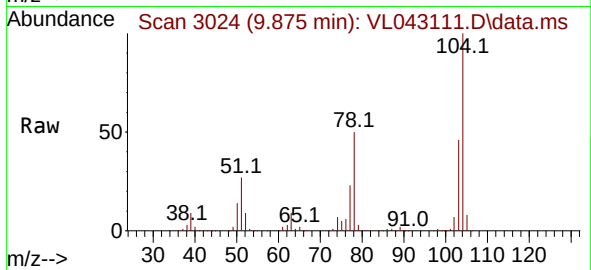
ClientSampleId :

VSTDIC015

Tgt Ion:104 Resp: 247589  
 Ion Ratio Lower Upper  
 104 100  
 78 51.2 40.2 60.2  
 103 46.0 36.9 55.3

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#62

Isopropylbenzene

Concen: 13.034 ppbv

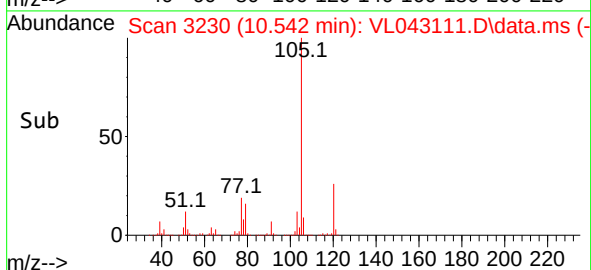
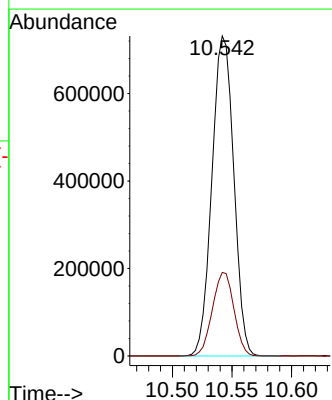
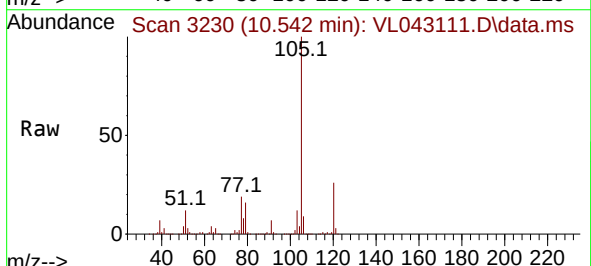
RT: 10.542 min Scan# 3230

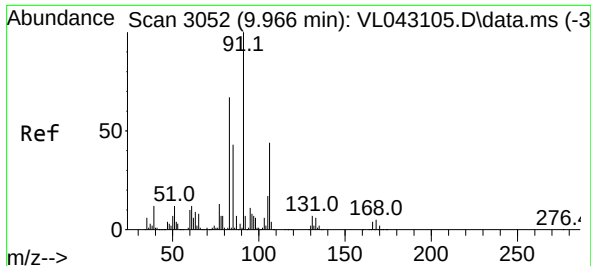
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

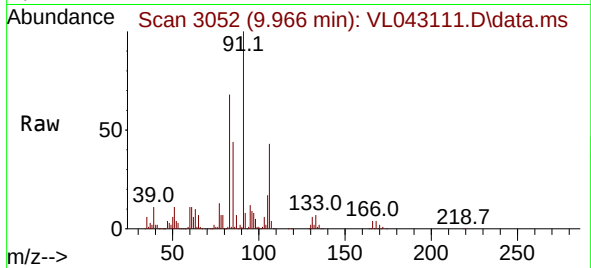
Tgt Ion:105 Resp: 931508  
 Ion Ratio Lower Upper  
 105 100  
 120 25.7 20.2 30.4





#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.515 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

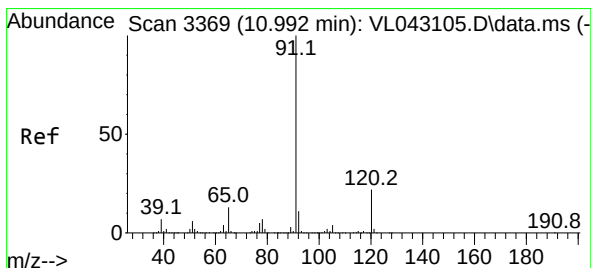
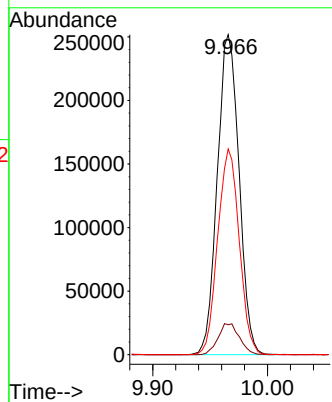
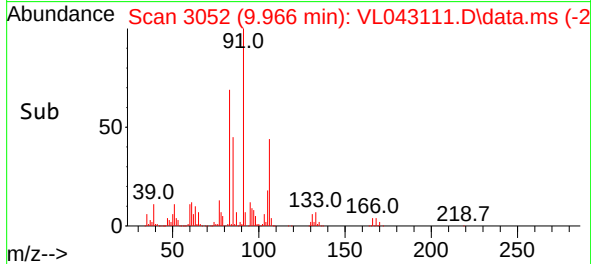
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



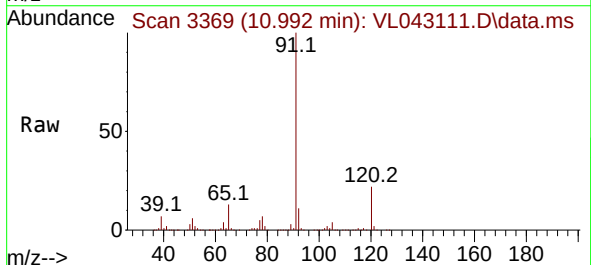
Tgt Ion: 83 Resp: 33142  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.3  
85 63.6 32.0 96.0

Manual Integrations  
APPROVED

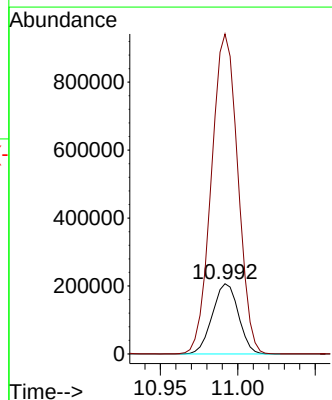
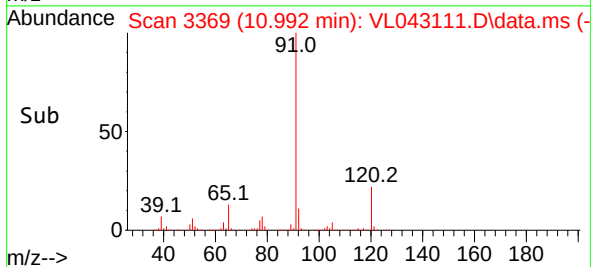
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

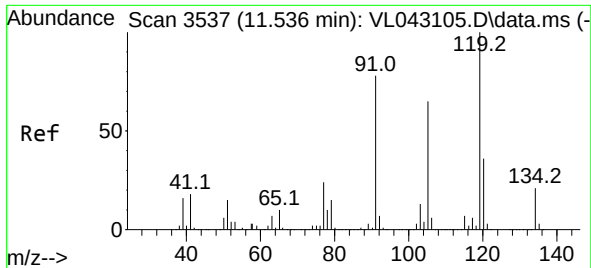


#64  
n-propylbenzene  
Concen: 12.775 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



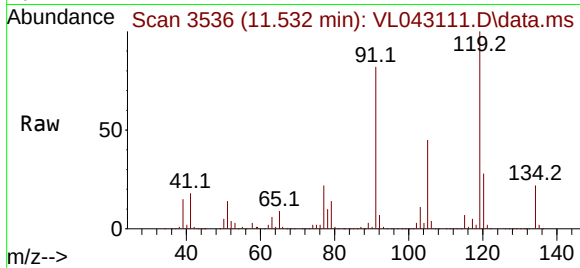
Tgt Ion:120 Resp: 241719  
Ion Ratio Lower Upper  
120 100  
91 463.5 361.6 542.4





#65  
tert-Butylbenzene  
Concen: 12.490 ppbv  
RT: 11.532 min Scan# 3537  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

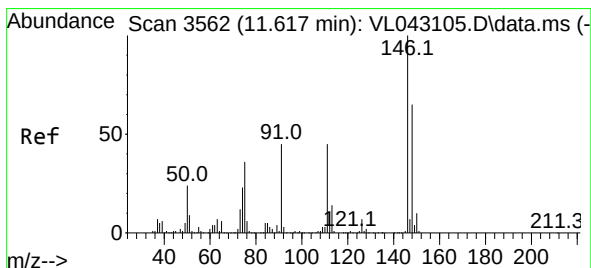
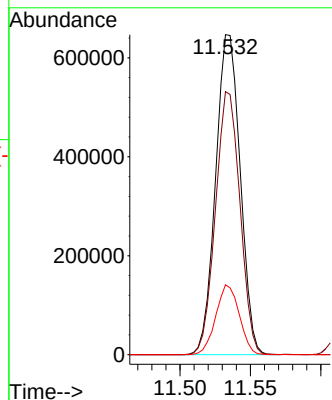
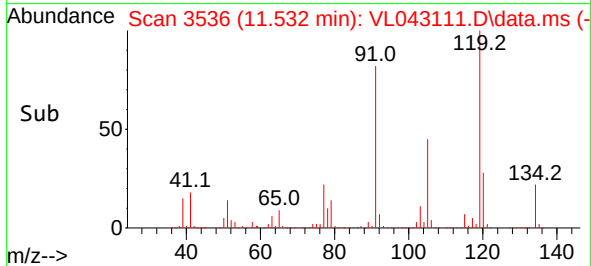
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



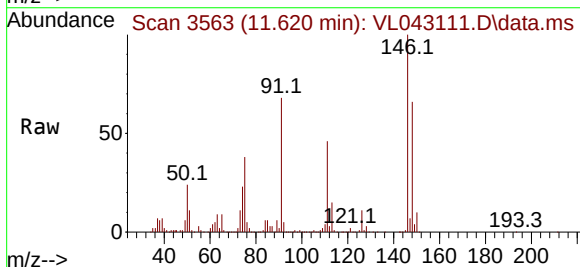
Tgt Ion: 119 Resp: 788234  
Ion Ratio Lower Upper  
119 100  
91 81.8 63.4 95.0  
134 20.8 17.3 25.9

Manual Integrations  
APPROVED

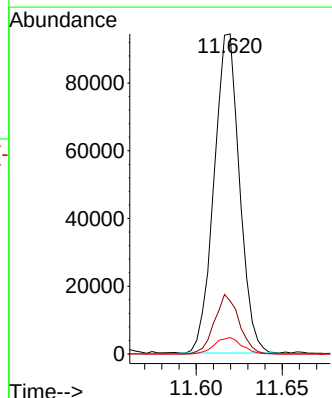
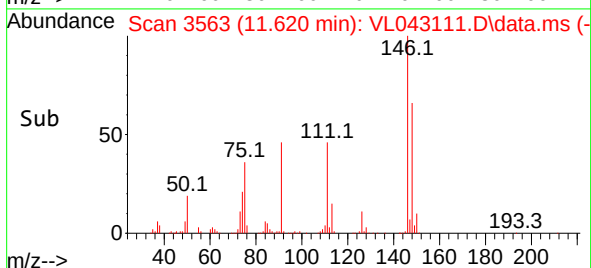
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

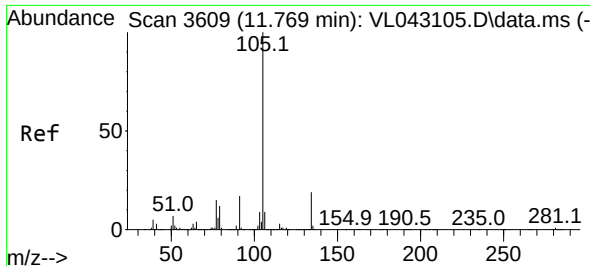


#66  
Benzyl Chloride  
Concen: 13.778 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



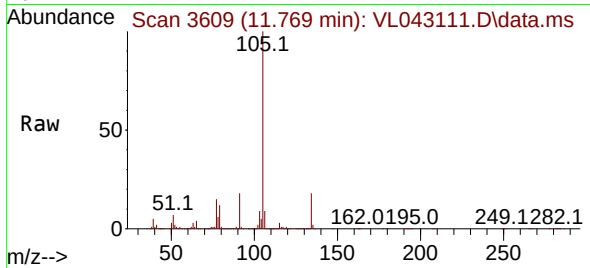
Tgt Ion: 91 Resp: 97114  
Ion Ratio Lower Upper  
91 100  
126 18.0 14.6 22.0  
128 5.4 4.6 6.8





#67  
 sec-Butylbenzene  
 Concen: 12.566 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

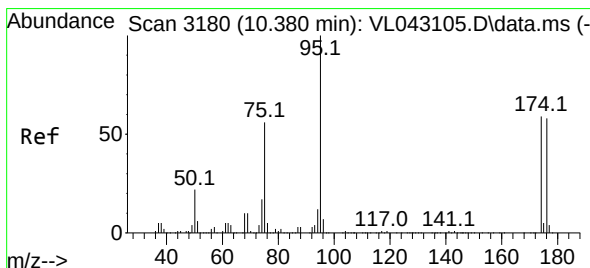
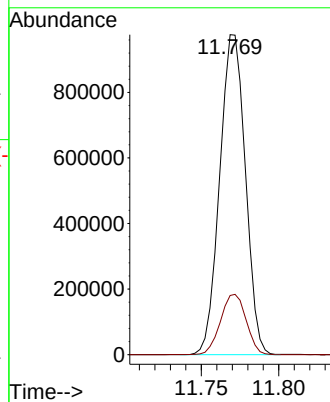
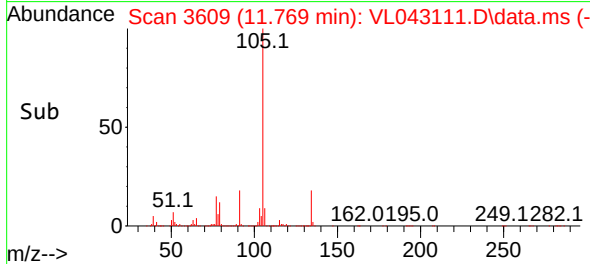
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion:105 Resp: 1125489  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 15.5 23.3

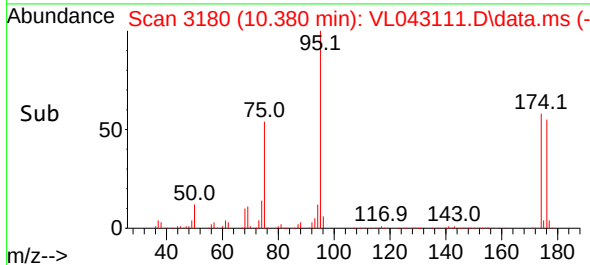
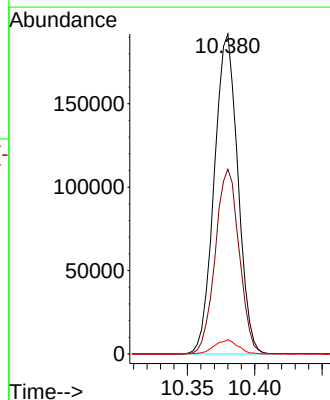
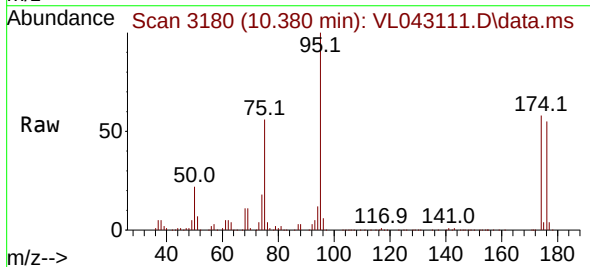
Manual Integrations  
 APPROVED

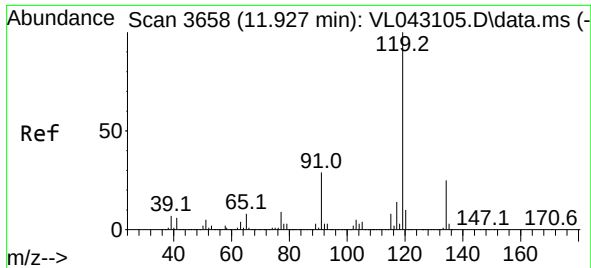
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.270 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

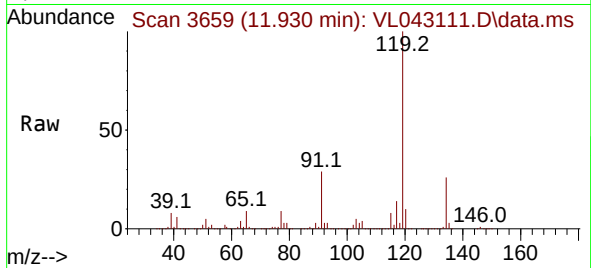
Tgt Ion: 95 Resp: 233522  
 Ion Ratio Lower Upper  
 95 100  
 174 58.7 48.3 72.5  
 175 4.4 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 12.602 ppbv  
RT: 11.930 min Scan# 3659  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

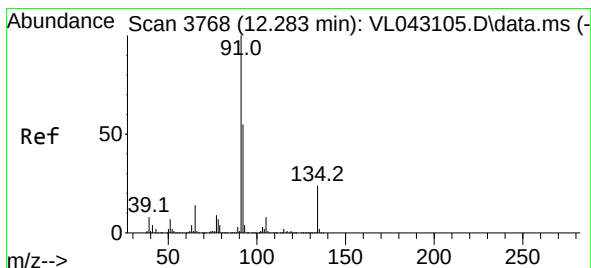
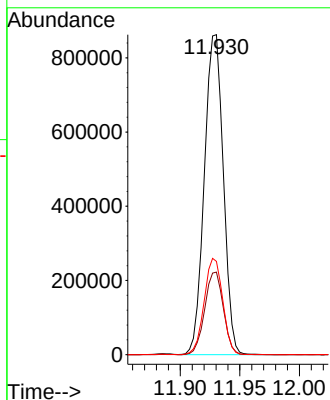
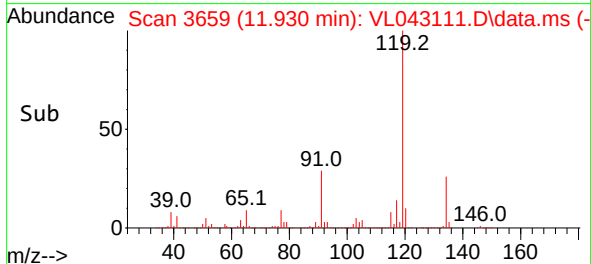
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



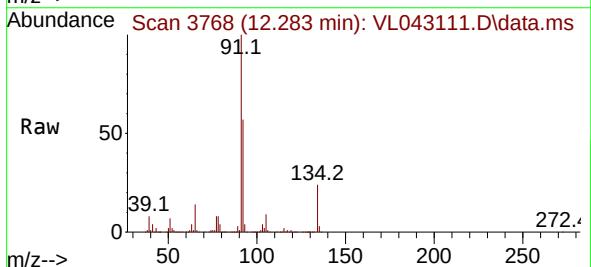
Tgt Ion: 119 Resp: 959200  
Ion Ratio Lower Upper  
119 100  
134 25.5 20.3 30.5  
91 29.5 22.6 33.8

Manual Integrations  
APPROVED

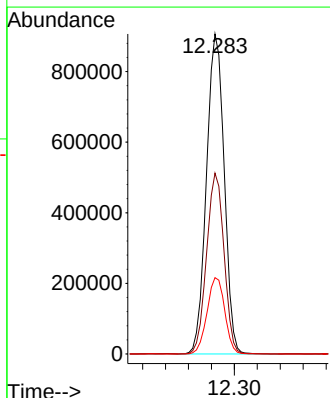
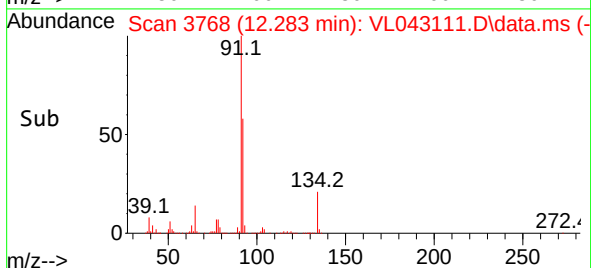
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

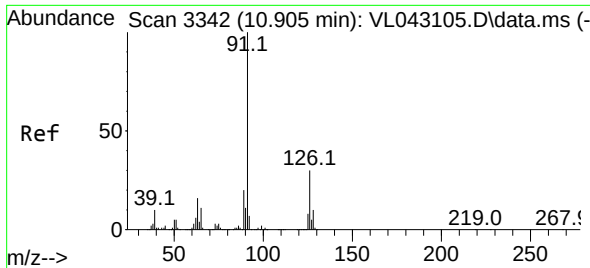


#70  
n-Butylbenzene  
Concen: 12.979 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18



Tgt Ion: 91 Resp: 973466  
Ion Ratio Lower Upper  
91 100  
92 55.6 44.5 66.7  
134 23.8 19.3 28.9





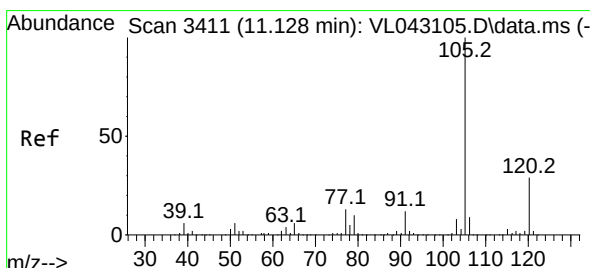
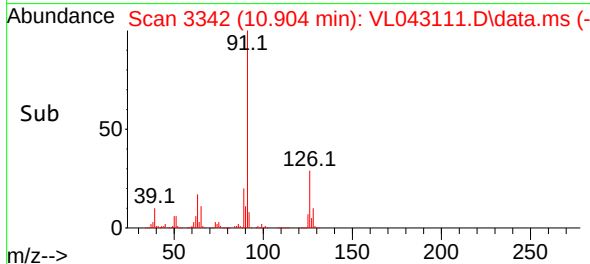
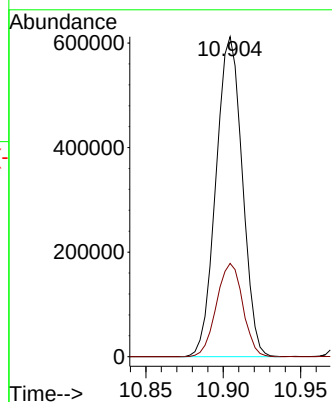
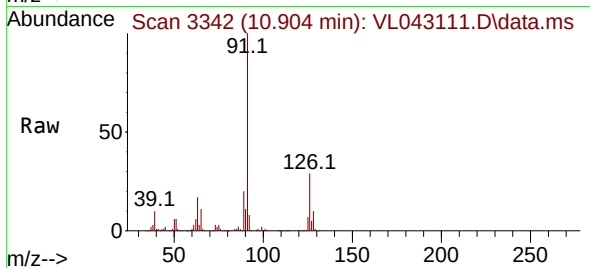
#71  
2-Chlorotoluene  
Concen: 13.242 ppbv  
RT: 10.904 min Scan# 3111  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 91 Resp: 72182  
Ion Ratio Lower Upper  
91 100  
126 29.1 12.0 48.0

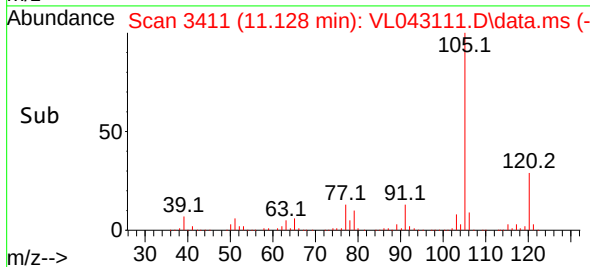
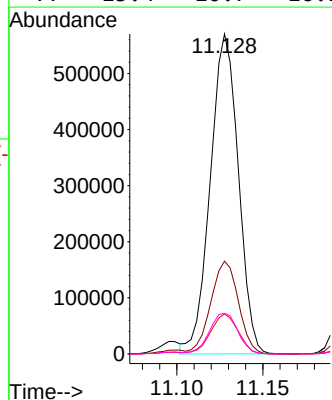
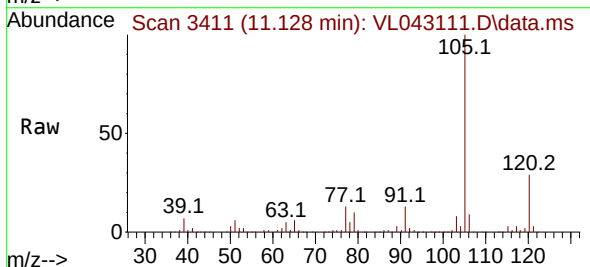
Manual Integrations  
APPROVED

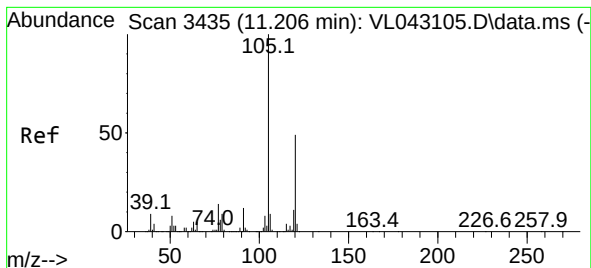
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#72  
4-Ethyltoluene  
Concen: 13.310 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 647315  
Ion Ratio Lower Upper  
105 100  
120 29.6 24.2 36.4  
91 12.7 10.0 15.0  
77 13.4 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 13.314 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 534000

Ion Ratio Lower Upper

105 100

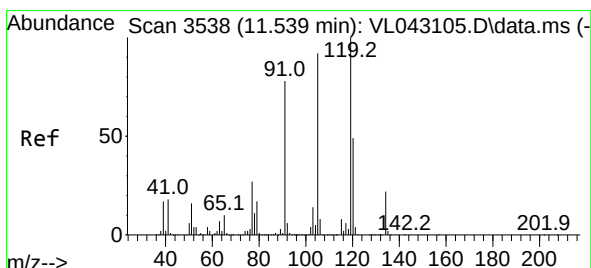
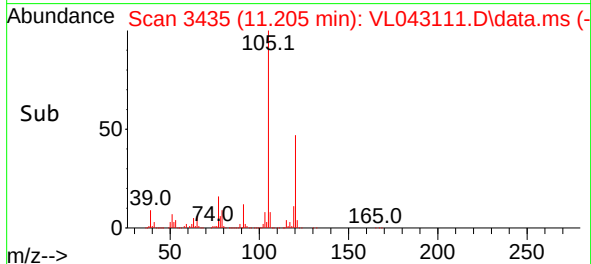
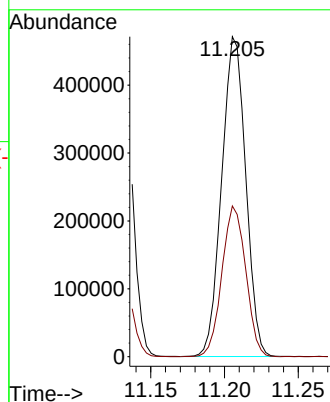
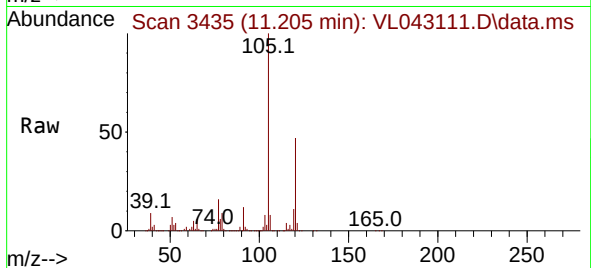
120 47.1 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 12.498 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 560932

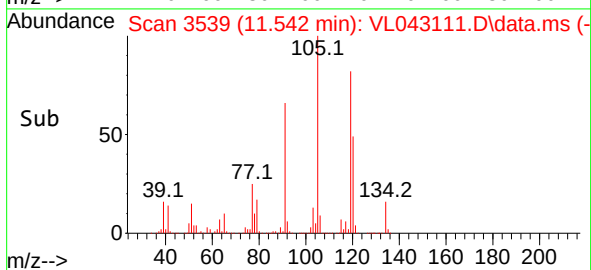
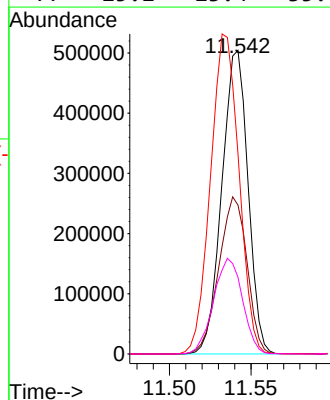
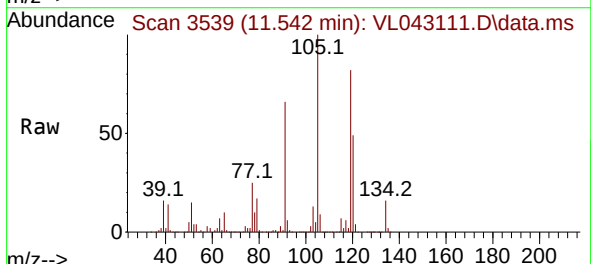
Ion Ratio Lower Upper

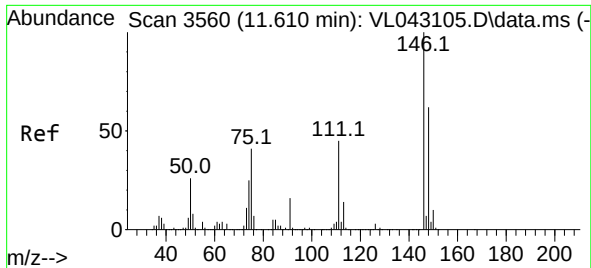
105 100

120 49.0 42.8 64.2

91 66.0 68.3 102.5#

77 25.2 23.4 35.0





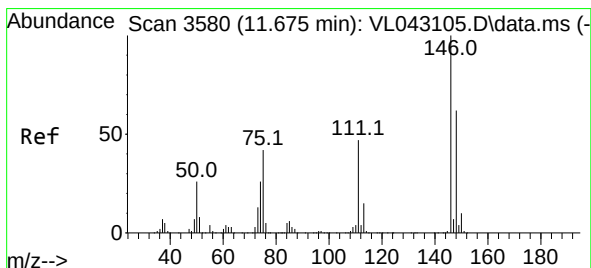
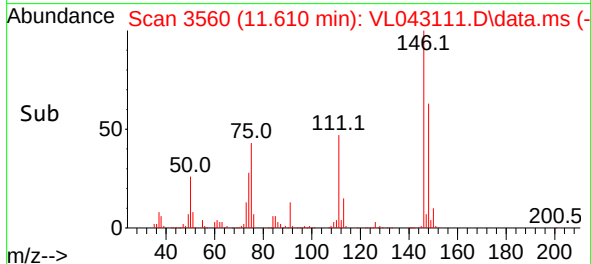
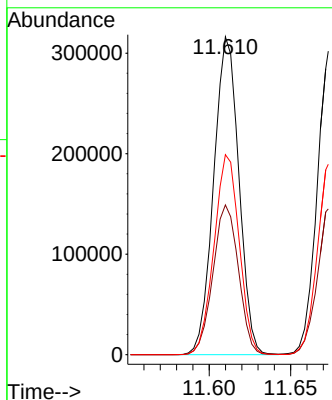
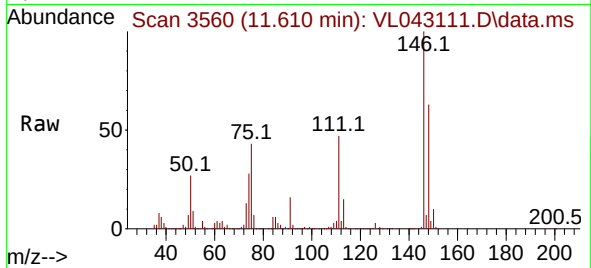
#75  
1,3-Dichlorobenzene  
Concen: 13.031 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:146 Resp: 33920  
Ion Ratio Lower Upper  
146 100  
111 47.7 23.3 69.9  
148 63.0 31.6 95.0

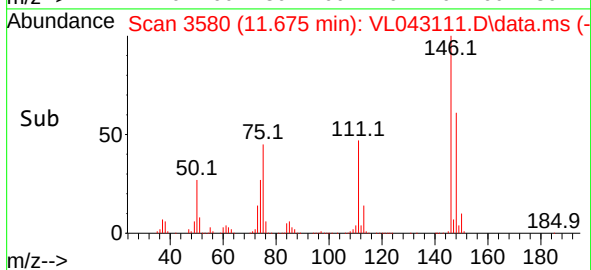
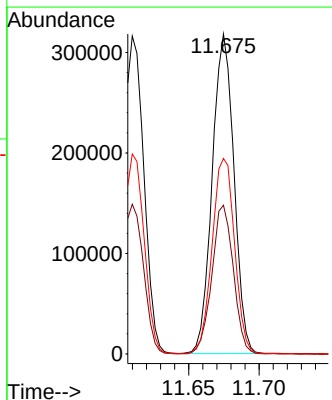
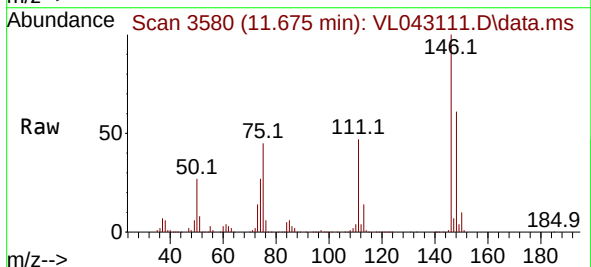
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

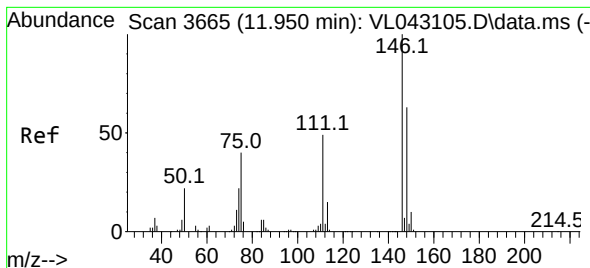


#76  
1,4-Dichlorobenzene  
Concen: 13.027 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 341936  
Ion Ratio Lower Upper  
146 100  
111 46.1 22.4 67.0  
148 63.4 31.6 94.7







#77

1,2-Dichlorobenzene

Concen: 12.660 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 318800

Ion Ratio Lower Upper

146 100

111 48.8 24.0 72.0

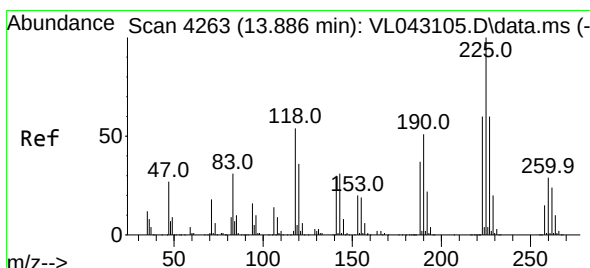
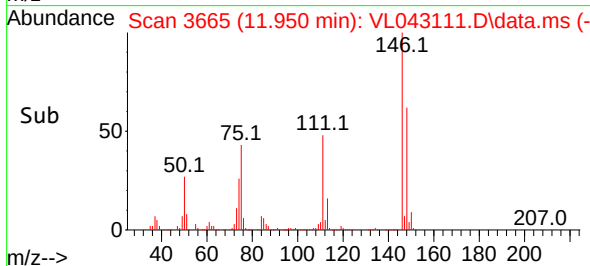
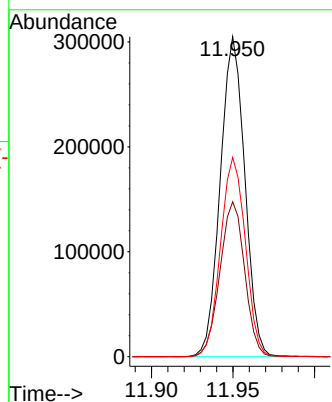
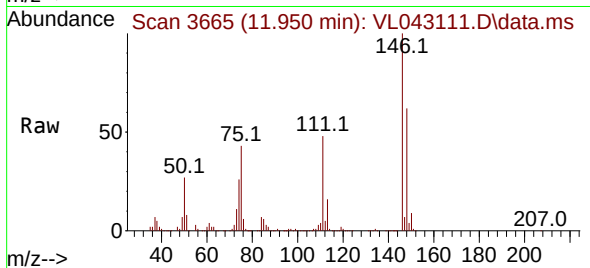
148 63.2 31.1 93.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#78

Hexachloro-1,3-Butadiene

Concen: 11.606 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

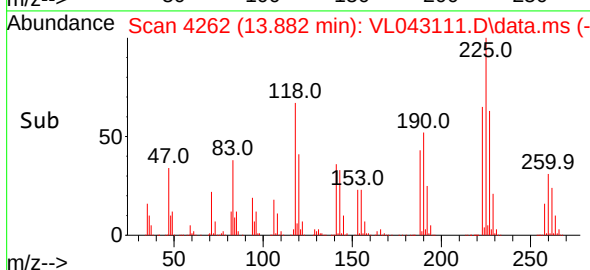
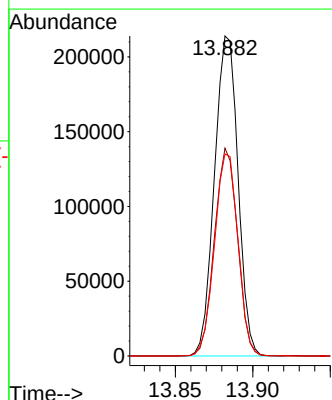
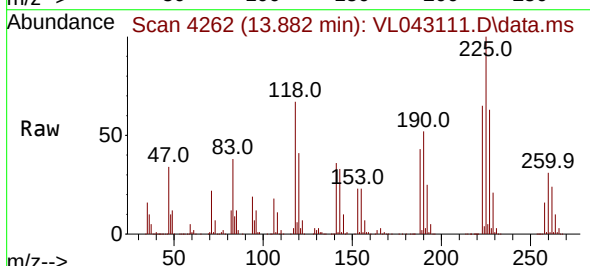
Tgt Ion:225 Resp: 226294

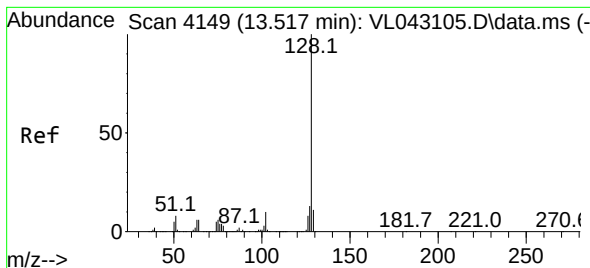
Ion Ratio Lower Upper

225 100

223 63.5 50.2 75.4

227 63.1 49.6 74.4





#79

Naphthalene

Concen: 14.260 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

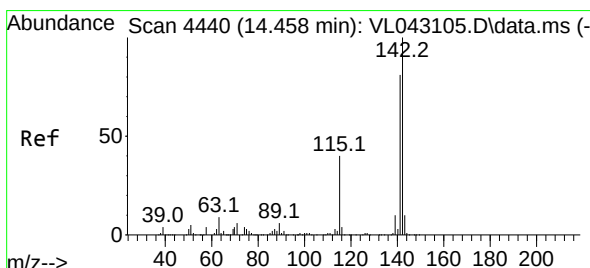
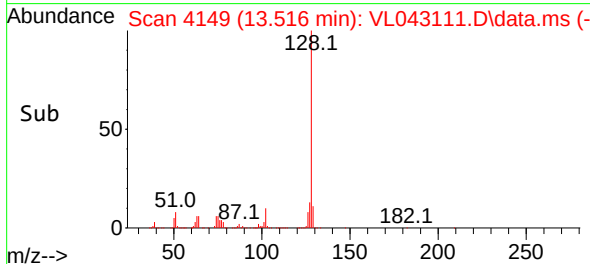
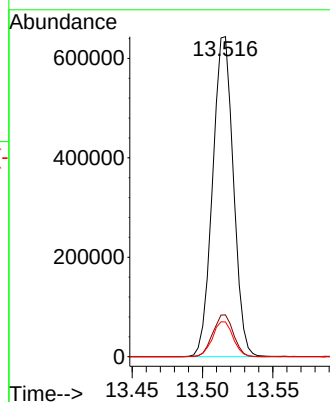
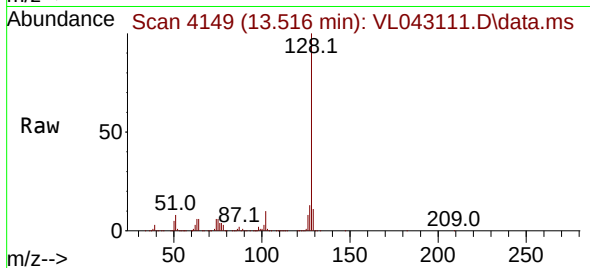
VSTDIC015

|             |              |
|-------------|--------------|
| Tgt Ion:128 | Resp: 661098 |
| Ion Ratio   | Lower Upper  |
| 128 100     |              |
| 127 13.1    | 10.5 15.7    |
| 129 10.8    | 9.1 13.7     |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#80

Naphthalene,2-methyl-

Concen: 17.384 ppbv

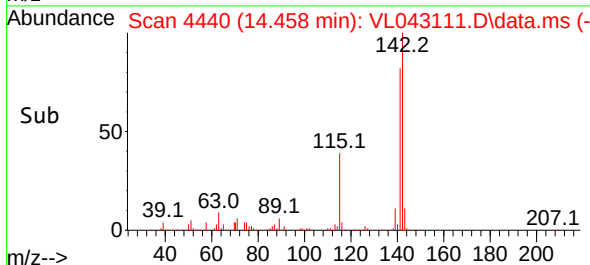
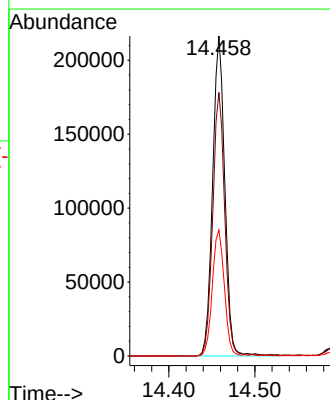
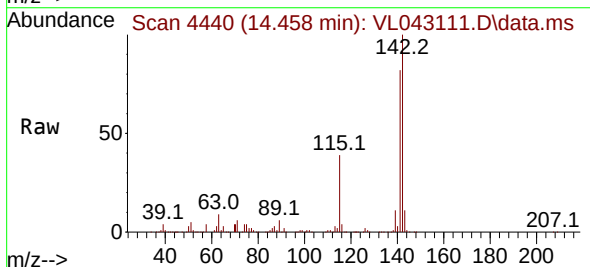
RT: 14.458 min Scan# 4440

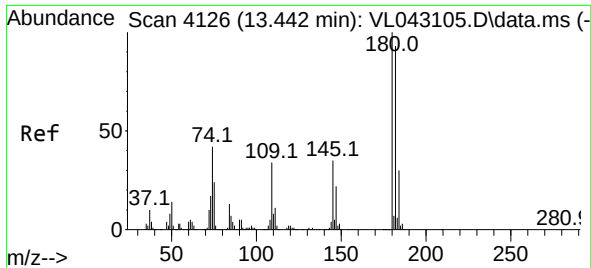
Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

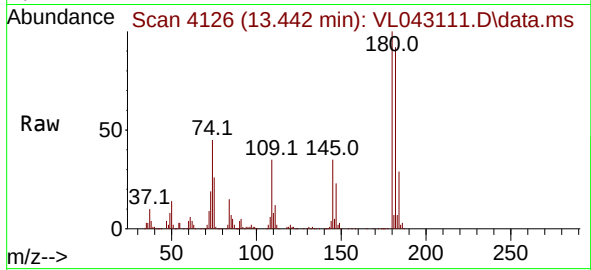
|             |              |
|-------------|--------------|
| Tgt Ion:142 | Resp: 212784 |
| Ion Ratio   | Lower Upper  |
| 142 100     |              |
| 141 81.9    | 64.6 97.0    |
| 115 39.4    | 30.2 45.4    |





#81  
1,2,4-Trichlorobenzene  
Concen: 13.698 ppbv  
RT: 13.442 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

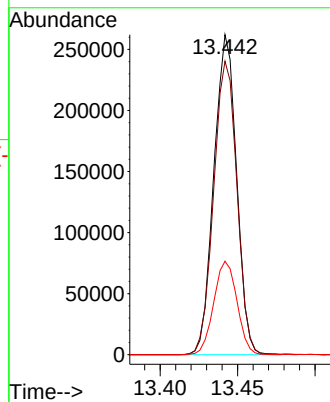
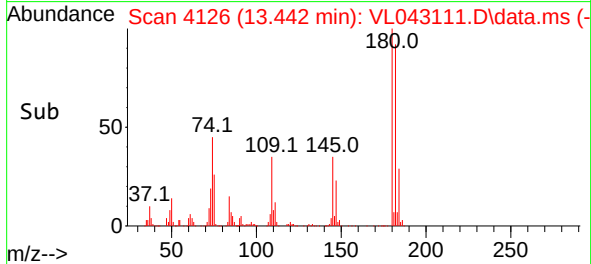
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion:180 Resp: 266712  
Ion Ratio Lower Upper  
180 100  
182 94.2 75.5 113.3  
184 30.0 23.9 35.9

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043112.D  
 Acq On : 14 Oct 2025 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025  
 Supervised By : Mahesh Dadoda 10/16/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 97563    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 325610   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 291676   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 229010 10.101 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 130726 | 9.425 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 138956 | 9.260 | ppbv   | 99     |
| 4) Chloromethane              | 1.538 | 50  | 48722  | 8.867 | ppbv   | 96     |
| 5) Vinyl Chloride             | 1.583 | 62  | 47005  | 8.722 | ppbv   | 97     |
| 6) Bromomethane               | 1.670 | 94  | 26304  | 8.901 | ppbv   | 98     |
| 7) Chloroethane               | 1.709 | 64  | 19138  | 8.685 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 107147 | 9.558 | ppbv   | 99     |
| 9) Propene                    | 1.486 | 41  | 59287  | 8.908 | ppbv   | 98     |
| 10) Heptane                   | 4.991 | 43  | 165341 | 8.629 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 132447 | 9.762 | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 102449 | 9.380 | ppbv   | 98     |
| 13) Ethanol                   | 1.725 | 45  | 17659m | 7.173 | ppbv   |        |
| 14) Bromoethene               | 1.787 | 108 | 37835  | 9.324 | ppbv   | 100    |
| 15) Acetone                   | 1.839 | 43  | 108010 | 8.214 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 55493  | 8.855 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 162672 | 9.012 | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 46544  | 9.774 | ppbv   | 93     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 67552  | 8.248 | ppbv   | 97     |
| 20) Methylene Chloride        | 2.065 | 84  | 40319  | 7.757 | ppbv   | 89     |
| 21) Allyl Chloride            | 2.101 | 41  | 88965  | 9.181 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 51295  | 9.011 | ppbv   | 93     |
| 23) Vinyl Acetate             | 2.467 | 43  | 185329 | 9.621 | ppbv   | 98     |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 102877 | 9.355 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.839 | 43  | 292399 | 8.966 | ppbv   | 100    |
| 26) Hexane                    | 2.832 | 57  | 135463 | 9.015 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.156 | 76  | 131064 | 9.520 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 67260  | 9.839 | ppbv   | 97     |
| 29) Chloroform                | 2.852 | 83  | 204925 | 9.412 | ppbv   | 95     |
| 30) Cyclohexane               | 3.865 | 84  | 119287 | 9.096 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 137462 | 9.580 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 219167 | 9.666 | ppbv   | 98     |
| 34) 2-Butanone                | 2.560 | 43  | 188755 | 8.624 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.771 | 117 | 217678 | 9.298 | ppbv   | 96     |
| 36) Benzene                   | 3.664 | 78  | 278365 | 9.077 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 161750 | 9.156 | ppbv   | 98     |
| 38) Trichloroethene           | 4.557 | 130 | 108261 | 8.453 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.321 | 63  | 100580 | 8.971 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.587 | 88  | 41464  | 8.265 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.056 | 42  | 104701 | 8.553 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.496 | 83  | 228288 | 9.336 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.884 | 69  | 138593 | 8.898 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 452117 | 8.738 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.422 | 75  | 142964 | 9.146 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043112.D  
 Acq On : 14 Oct 2025 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

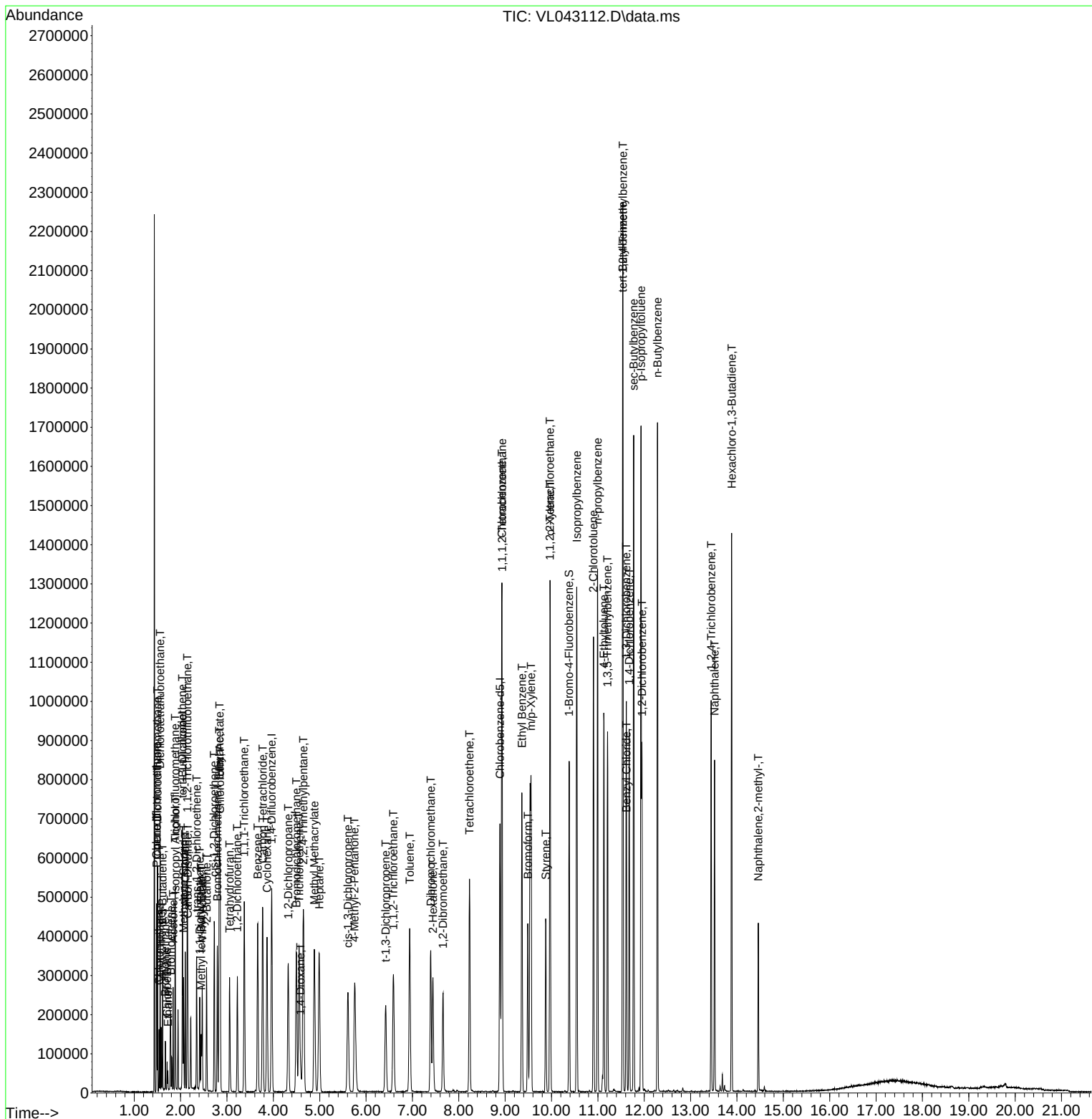
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 170038   | 9.106  | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 108965   | 9.000  | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.396  | 129  | 184757   | 9.127  | ppbv   | 100      |
| 49) Bromoform                 | 9.490  | 173  | 147759   | 8.980  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 263070   | 8.709  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.441  | 43   | 203876   | 8.999  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.231  | 164  | 96000    | 8.681  | ppbv   | 97       |
| 53) Toluene                   | 6.943  | 91   | 324944   | 8.928  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 167936   | 8.856  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 166059   | 9.031  | ppbv   | 98       |
| 57) Chlorobenzene             | 8.930  | 112  | 239309   | 8.770  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.361  | 91   | 450029   | 8.990  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.558  | 91   | 715191m  | 17.913 | ppbv   |          |
| 60) o-Xylene                  | 9.969  | 91   | 348346   | 8.834  | ppbv   | 100      |
| 61) Styrene                   | 9.878  | 104  | 161979   | 9.099  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.545 | 105  | 621758   | 8.726  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 215911   | 8.177  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 160411   | 8.503  | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 532570   | 8.464  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.620 | 91   | 58169    | 8.306  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 762711   | 8.541  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 638261   | 8.411  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.286 | 91   | 641547   | 8.579  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 479799   | 8.828  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 427034   | 8.807  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 354875   | 8.874  | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 372506   | 8.324  | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 219423   | 8.454  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 221364   | 8.458  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 204178   | 8.132  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 144646   | 7.440  | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 389814   | 8.334  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 123632   | 10.146 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 162553   | 8.373  | ppbv   | 98       |

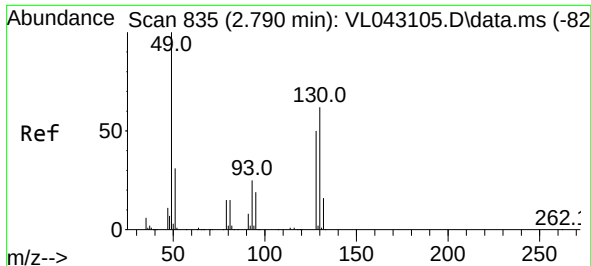
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

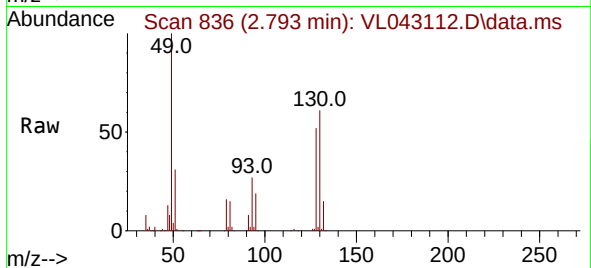
Quant Time: Oct 15 02:14:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.793 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

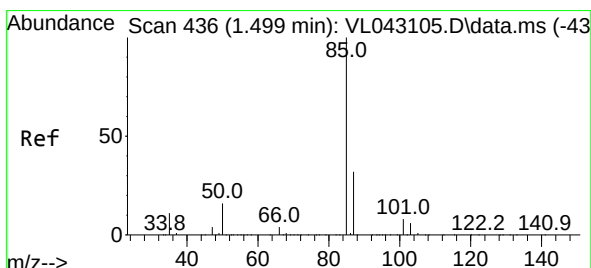
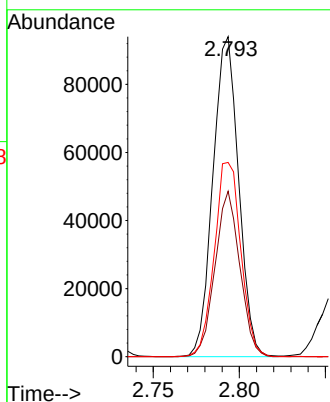
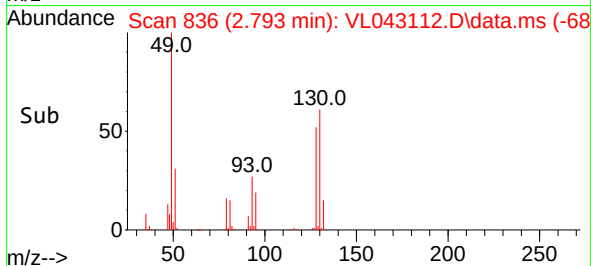
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



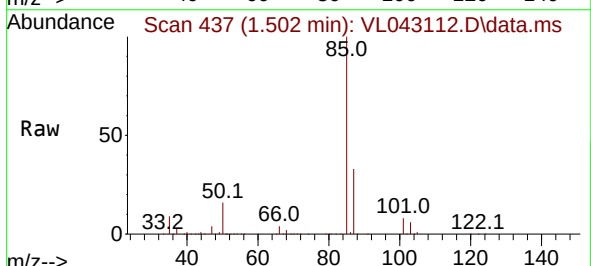
Tgt Ion: 49 Resp: 9756  
Ion Ratio Lower Upper  
49 100  
128 50.0 24.4 73.4  
130 62.8 31.0 93.0

Manual Integrations  
APPROVED

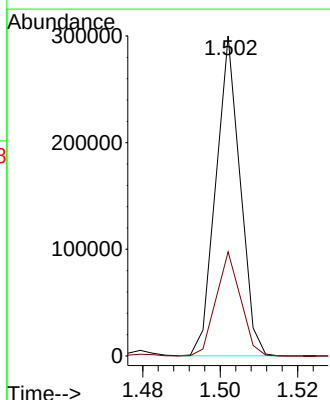
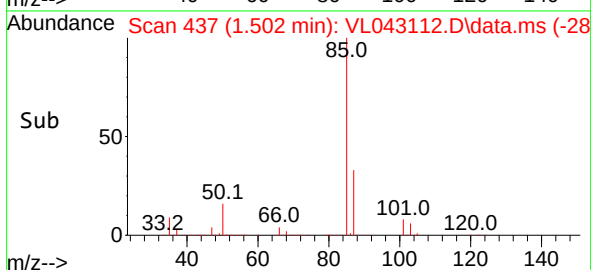
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

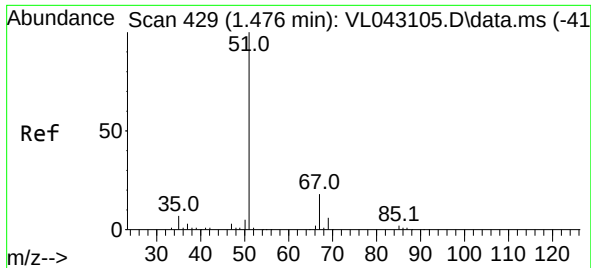


#2  
Dichlorodifluoromethane  
Concen: 9.425 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



Tgt Ion: 85 Resp: 130726  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.3 37.9





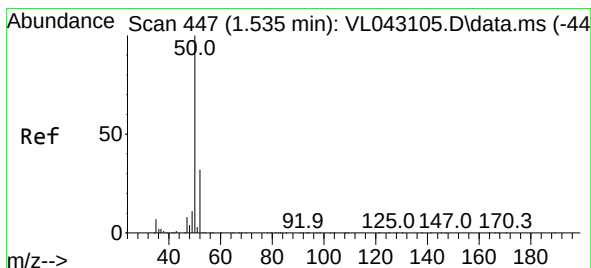
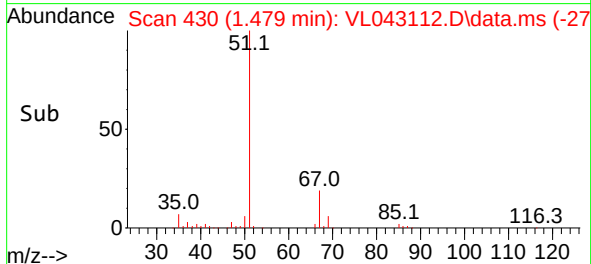
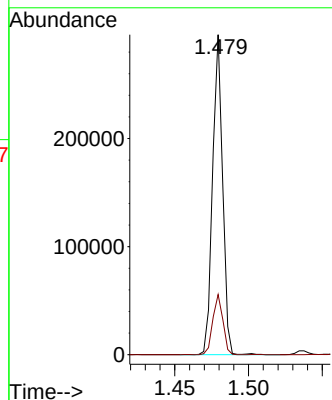
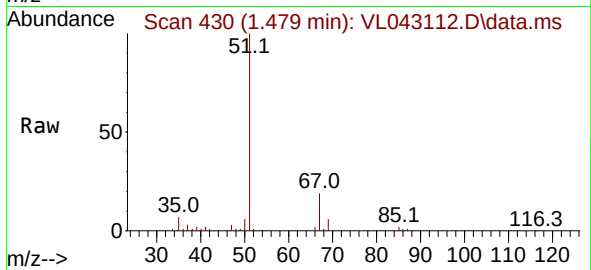
#3  
Chlorodifluoromethane  
Concen: 9.260 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 51 Resp: 138950  
Ion Ratio Lower Upper  
51 100  
67 19.1 15.1 22.7

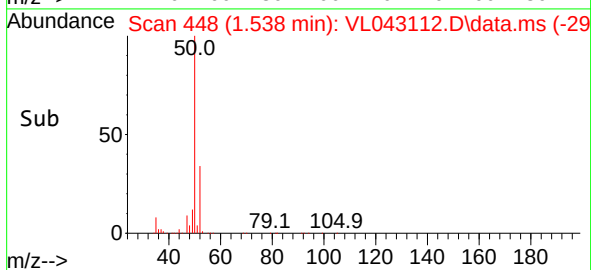
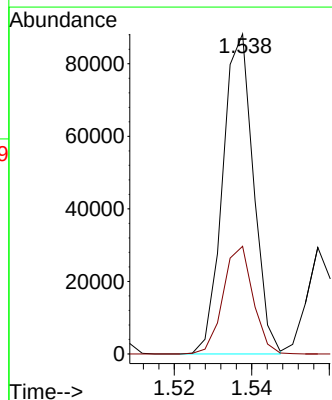
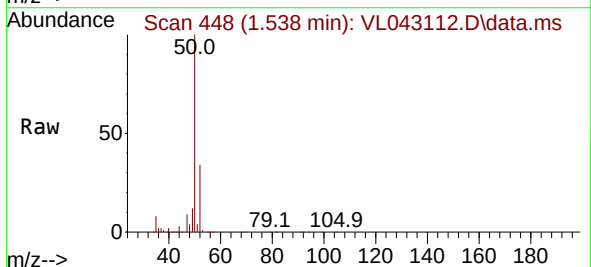
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

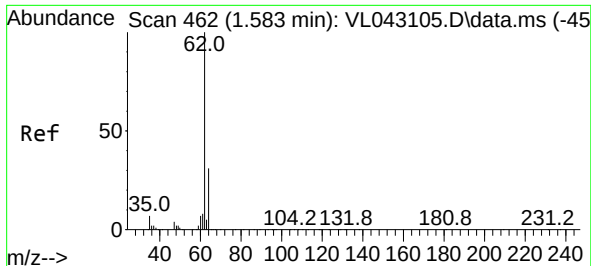


#4  
Chloromethane  
Concen: 8.867 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 50 Resp: 48722  
Ion Ratio Lower Upper  
50 100  
52 33.4 25.2 37.8







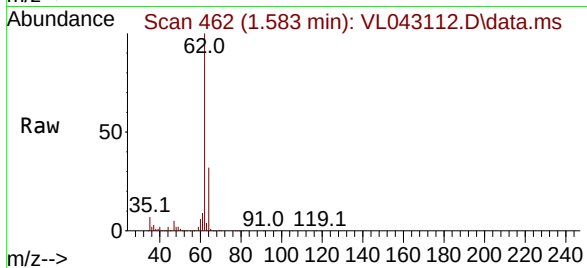
#5  
 Vinyl Chloride  
 Concen: 8.722 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

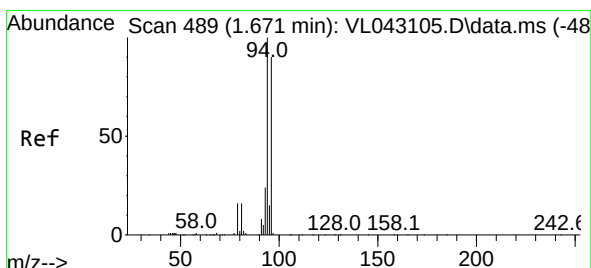
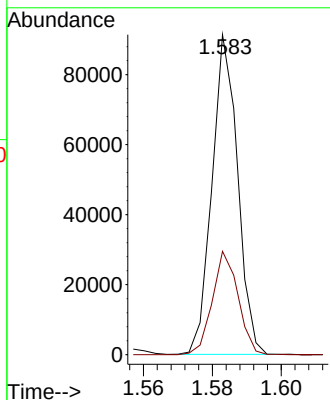
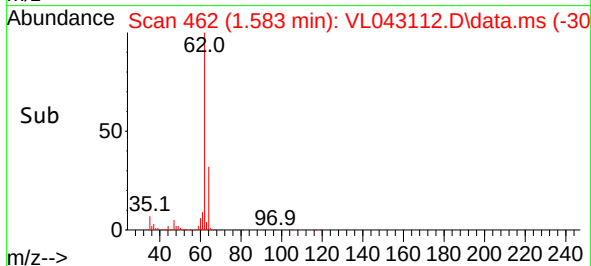
ICVVL101425



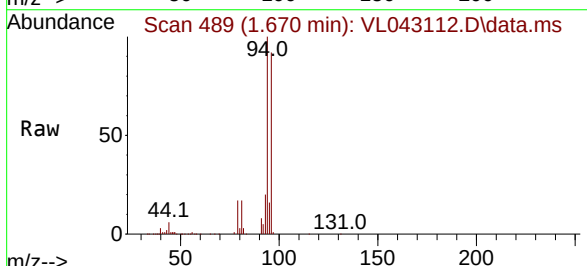
Tgt Ion: 62 Resp: 4700  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 24.6 36.8

Manual Integrations  
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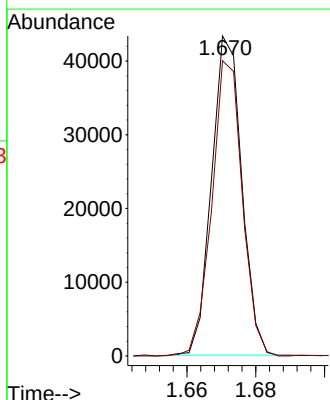
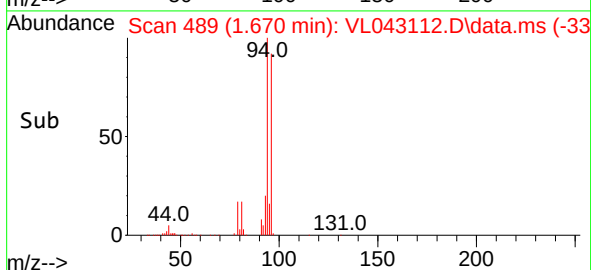
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

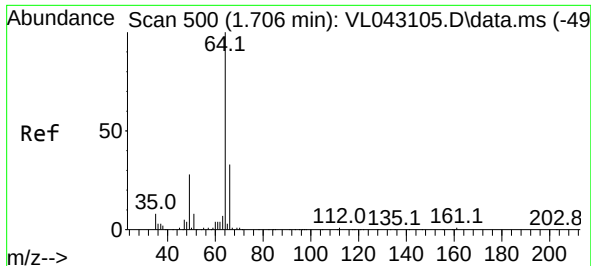


#6  
 Bromomethane  
 Concen: 8.901 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51



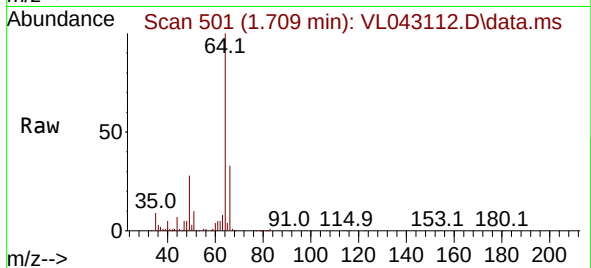
Tgt Ion: 94 Resp: 26304  
 Ion Ratio Lower Upper  
 94 100  
 96 92.5 72.2 108.4





#7  
Chloroethane  
Concen: 8.685 ppbv  
RT: 1.709 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

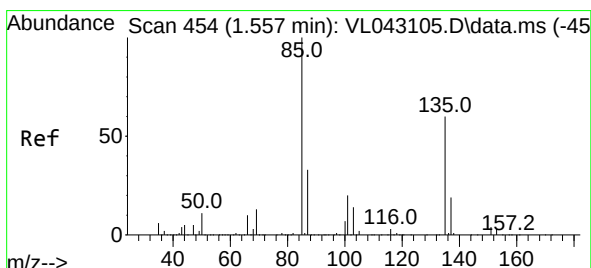
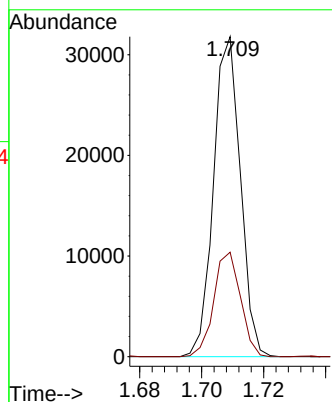
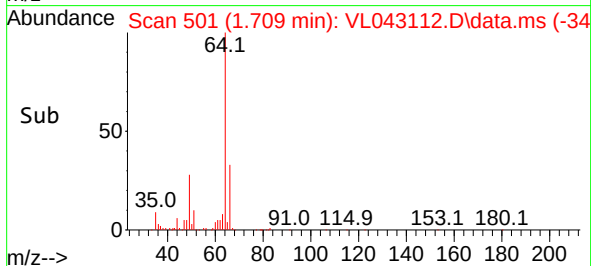
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



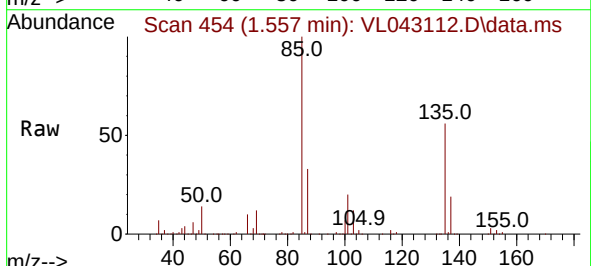
Tgt Ion: 64 Resp: 19138  
Ion Ratio Lower Upper  
64 100  
66 32.7 26.0 39.0

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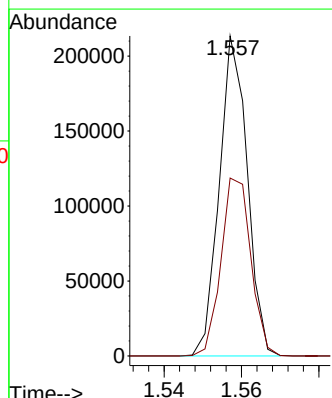
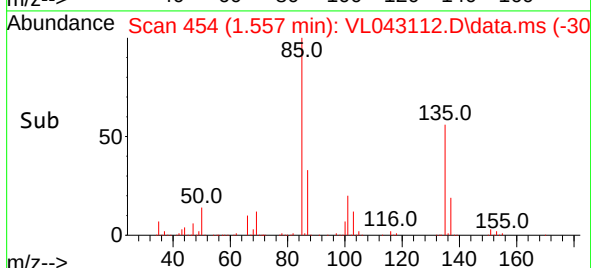
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

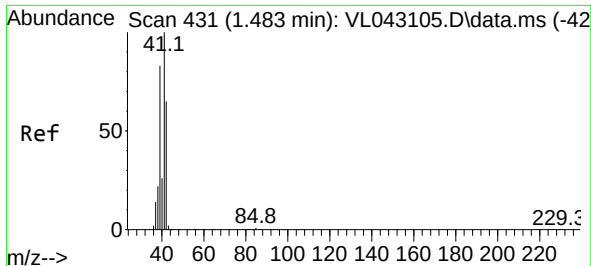


#8  
Dichlorotetrafluoroethane  
Concen: 9.558 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



Tgt Ion: 85 Resp: 107147  
Ion Ratio Lower Upper  
85 100  
135 59.5 48.2 72.4





#9

Propene

Concen: 8.908 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101425

Tgt Ion: 41 Resp: 5928

Ion Ratio Lower Upper

41 100

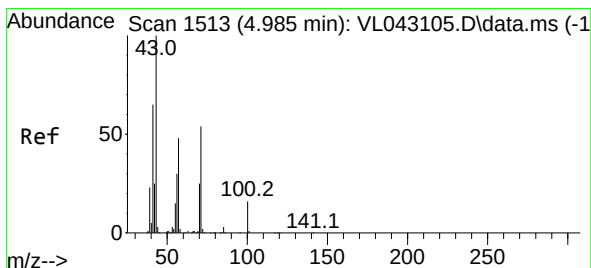
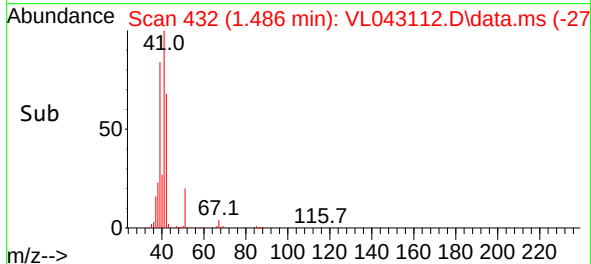
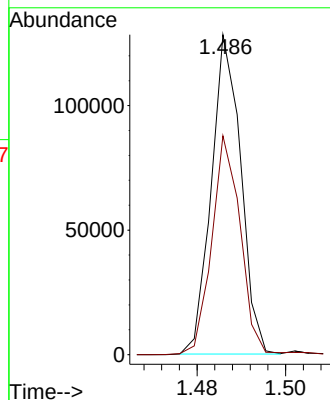
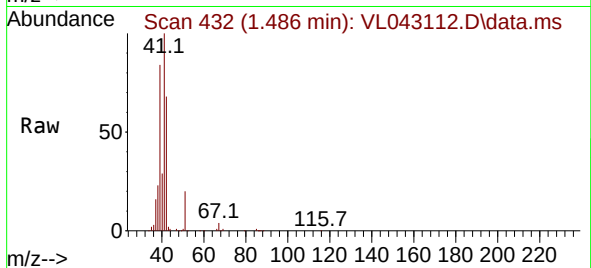
42 67.3 55.1 82.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#10

Heptane

Concen: 8.629 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VL043112.D

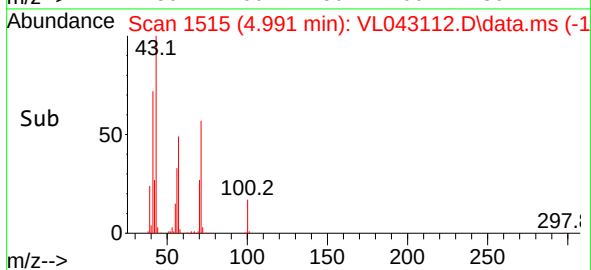
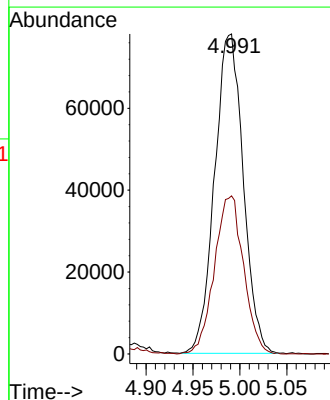
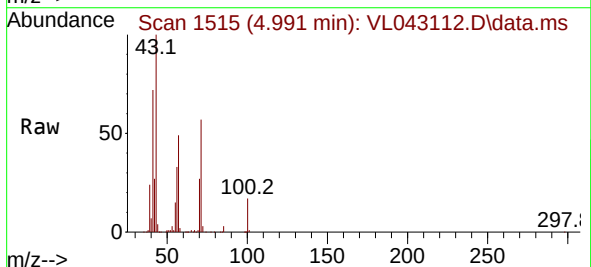
Acq: 14 Oct 2025 14:51

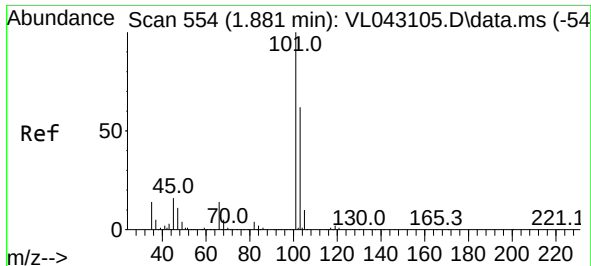
Tgt Ion: 43 Resp: 165341

Ion Ratio Lower Upper

43 100

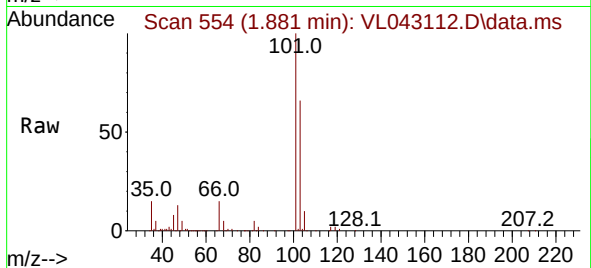
57 50.4 40.8 61.2





#11  
 Trichlorofluoromethane  
 Concen: 9.762 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

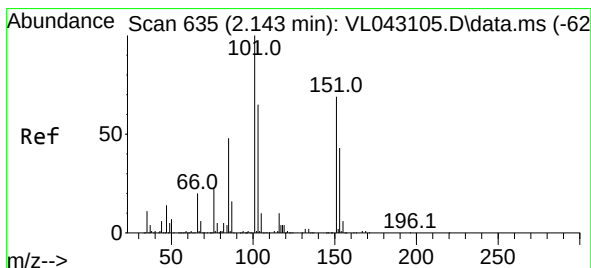
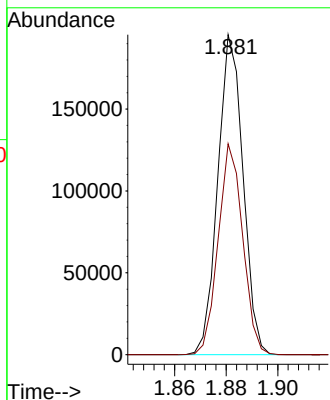
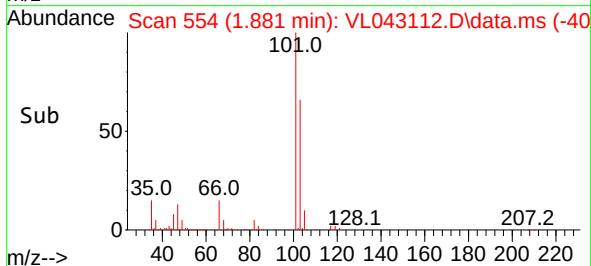
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425



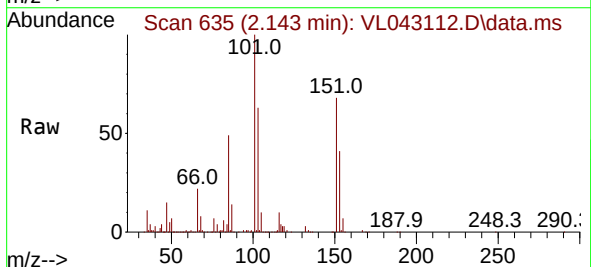
Tgt Ion:101 Resp: 13244  
 Ion Ratio Lower Upper  
 101 100  
 103 65.9 49.3 73.9

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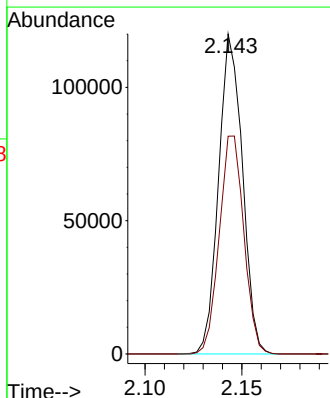
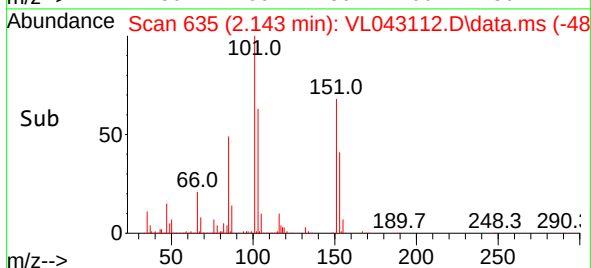
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

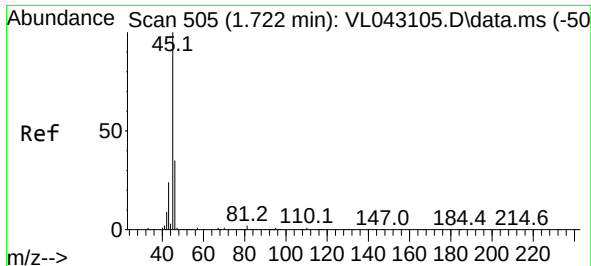


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.380 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51



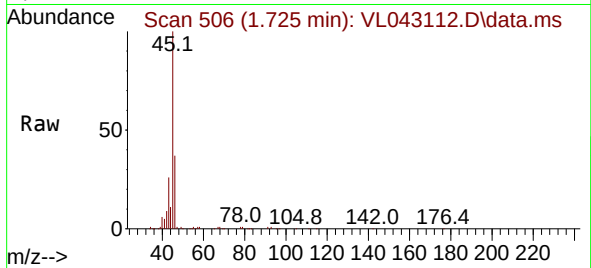
Tgt Ion:101 Resp: 102449  
 Ion Ratio Lower Upper  
 101 100  
 151 70.4 54.7 82.1





#13  
Ethanol  
Concen: 7.173 ppbv m  
RT: 1.725 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

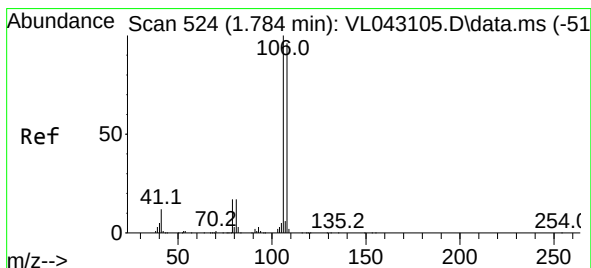
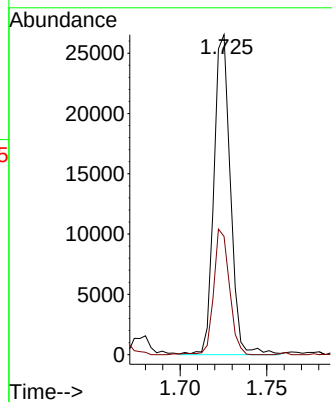
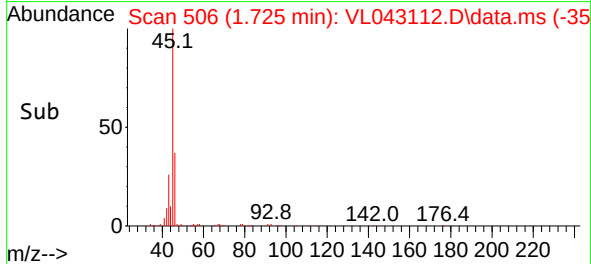
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



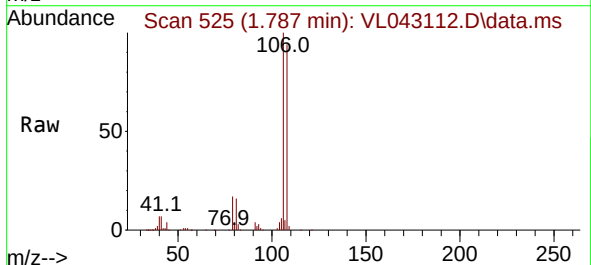
Tgt Ion: 45 Resp: 17659  
Ion Ratio Lower Upper  
45 100  
46 37.4 14.7 58.9

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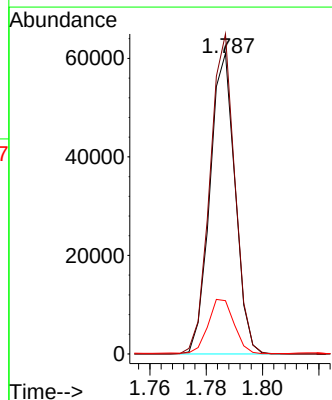
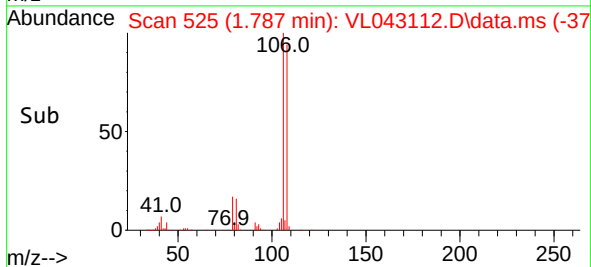
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

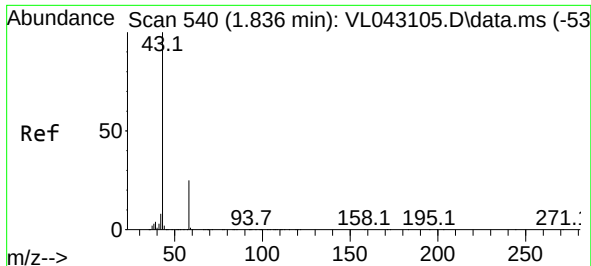


#14  
Bromoethene  
Concen: 9.324 ppbv  
RT: 1.787 min Scan# 525  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



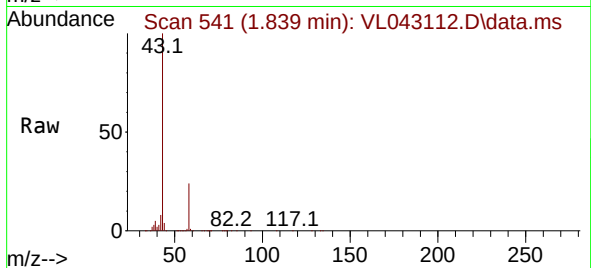
Tgt Ion:108 Resp: 37835  
Ion Ratio Lower Upper  
108 100  
106 105.3 84.4 126.6  
79 18.7 15.3 22.9





#15  
Acetone  
Concen: 8.214 ppbv  
RT: 1.839 min Scan# 540  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

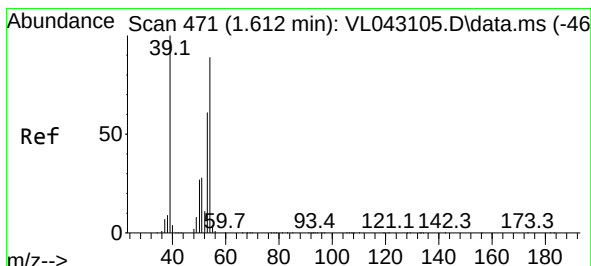
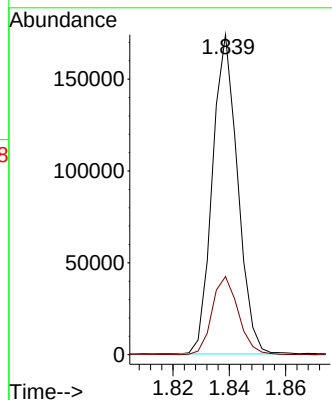
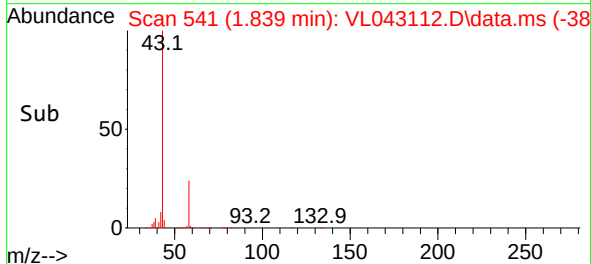
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



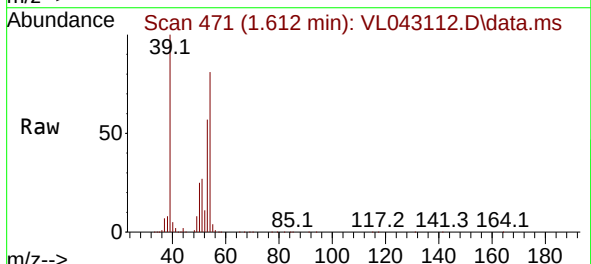
Tgt Ion: 43 Resp: 108010  
Ion Ratio Lower Upper  
43 100  
58 25.7 20.8 31.2

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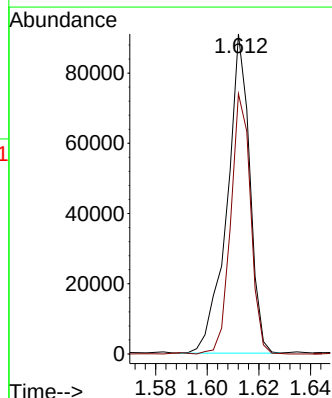
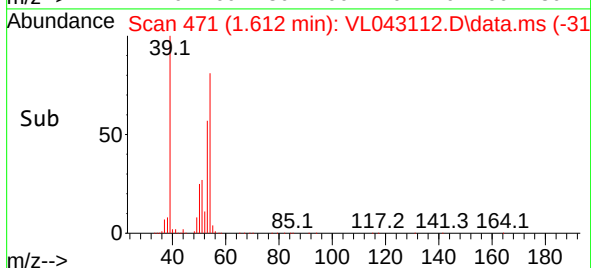
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

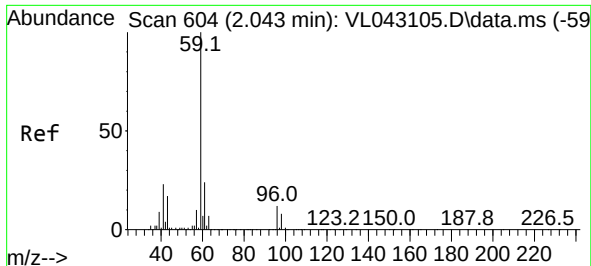


#16  
1,3-Butadiene  
Concen: 8.855 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



Tgt Ion: 39 Resp: 55493  
Ion Ratio Lower Upper  
39 100  
54 72.0 59.0 88.4





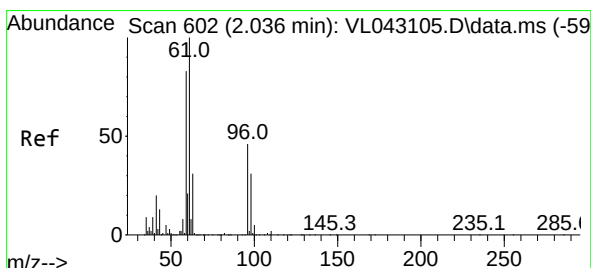
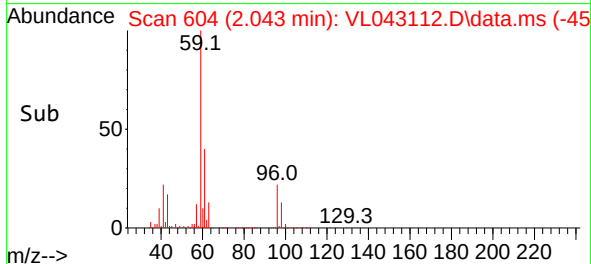
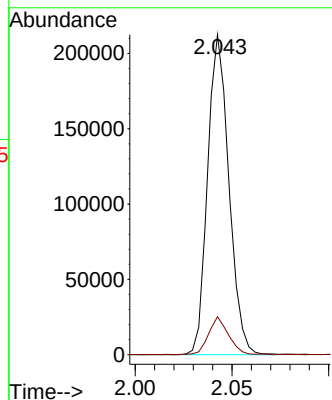
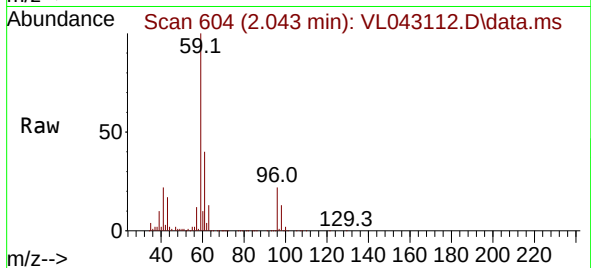
#17  
tert-Butyl alcohol  
Concen: 9.012 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument : MSVOA\_L  
ClientSampleId : ICVVL101425

Tgt Ion: 59 Resp: 162672  
Ion Ratio Lower Upper  
59 100  
57 11.4 8.2 12.4

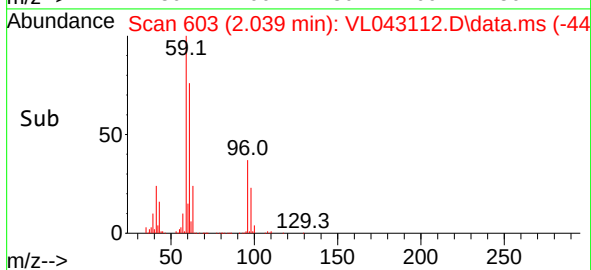
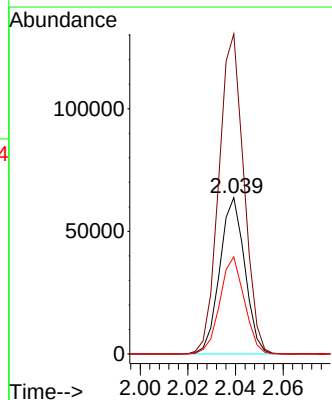
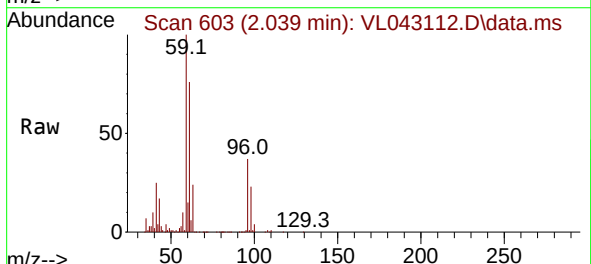
Manual Integrations  
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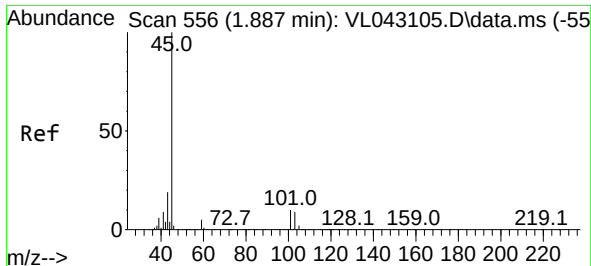
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#18  
1,1-Dichloroethene  
Concen: 9.774 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

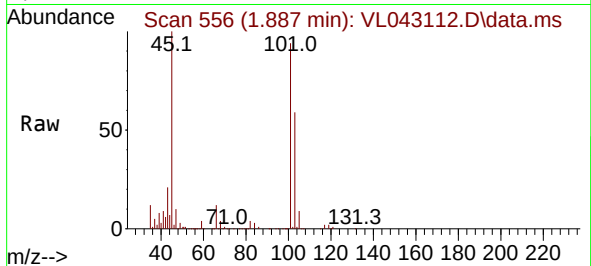
Tgt Ion: 96 Resp: 46544  
Ion Ratio Lower Upper  
96 100  
61 204.7 173.4 260.0  
98 62.1 53.2 79.8





#19  
Isopropyl Alcohol  
Concen: 8.248 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

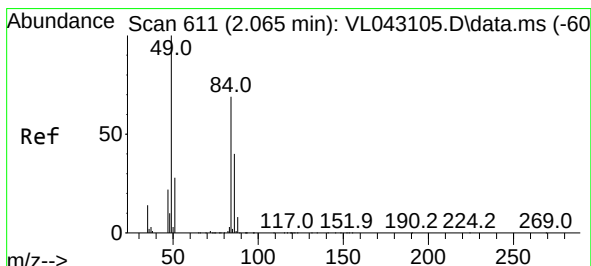
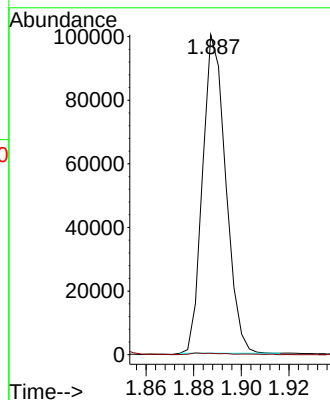
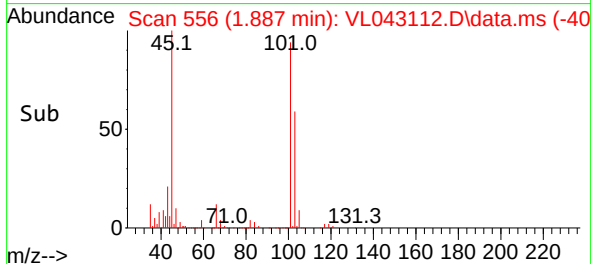
Instrument : MSVOA\_L  
ClientSampleId : ICVVL101425



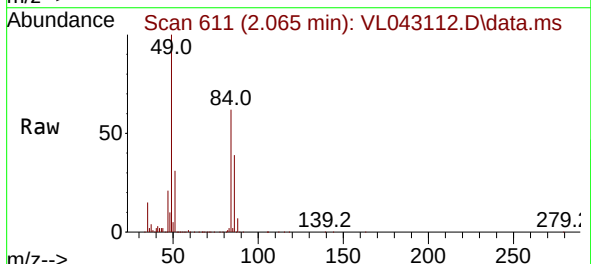
Tgt Ion: 45 Resp: 67552  
Ion Ratio Lower Upper  
45 100  
58 41.1 31.3 46.9

Manual Integrations  
APPROVED

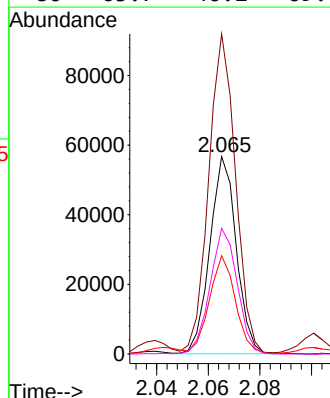
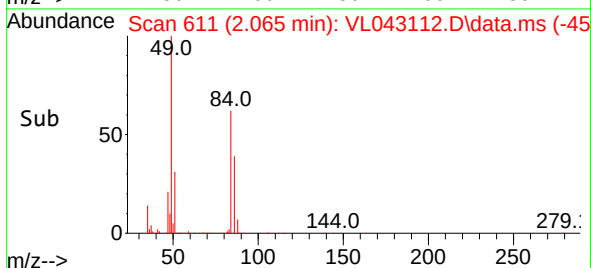
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



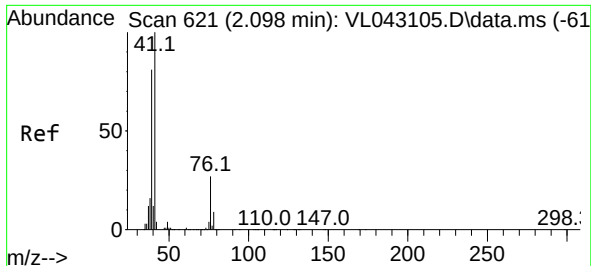
#20  
Methylene Chloride  
Concen: 7.757 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



Tgt Ion: 84 Resp: 40319  
Ion Ratio Lower Upper  
84 100  
49 161.4 116.6 175.0  
51 49.4 34.8 52.2  
86 63.7 46.2 69.4







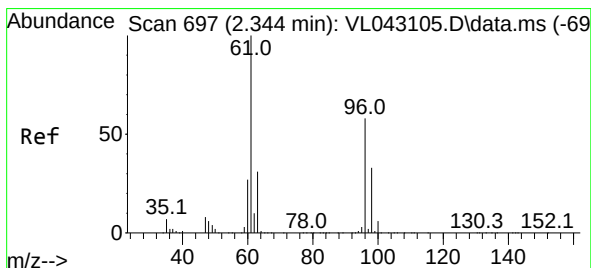
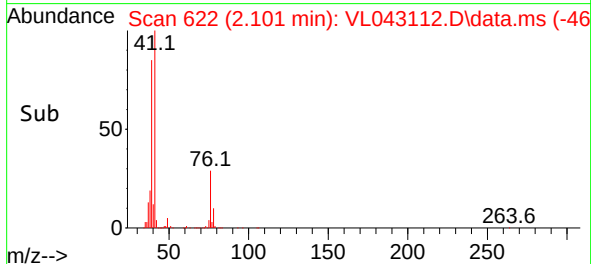
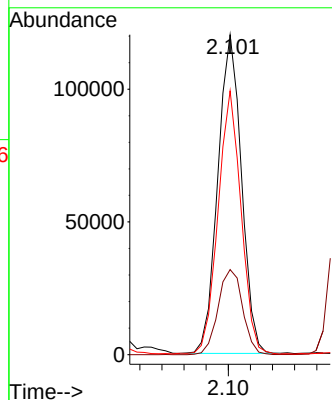
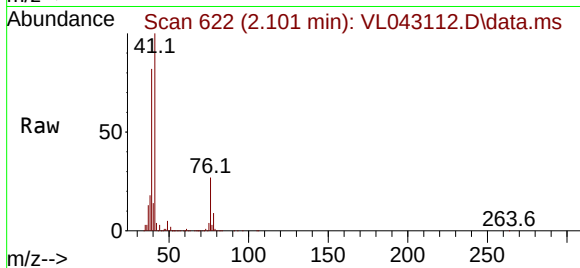
#21  
 Allyl Chloride  
 Concen: 9.181 ppbv  
 RT: 2.101 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425

Tgt Ion: 41 Resp: 8896  
 Ion Ratio Lower Upper  
 41 100  
 76 27.7 21.5 32.3  
 39 80.2 60.8 91.2

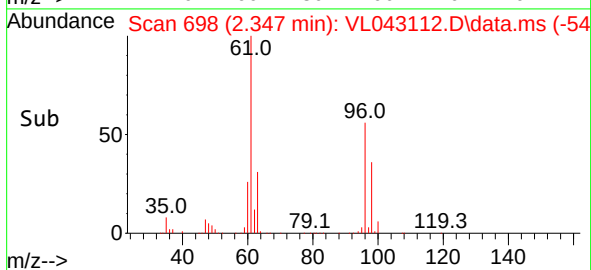
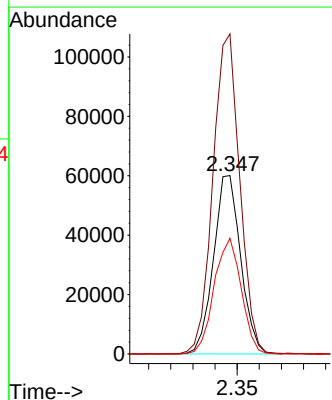
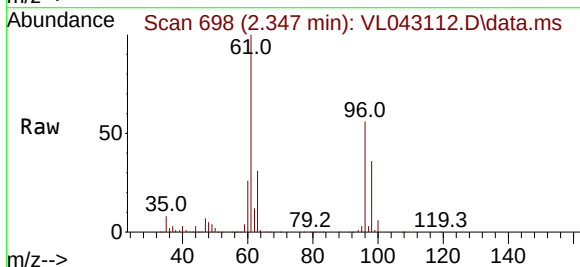
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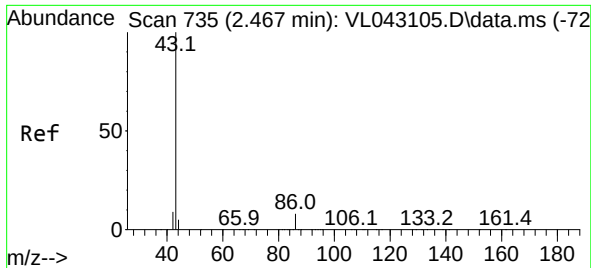
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.011 ppbv  
 RT: 2.347 min Scan# 698  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

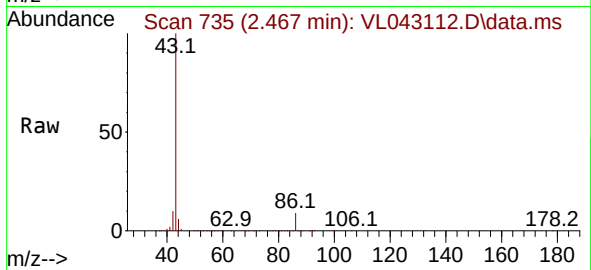
Tgt Ion: 96 Resp: 51295  
 Ion Ratio Lower Upper  
 96 100  
 61 179.2 137.0 205.6  
 98 64.8 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 9.621 ppbv  
 RT: 2.467 min Scan# 719  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Instrument : MSVOA\_1  
 ClientSampleId : ICVVL101425

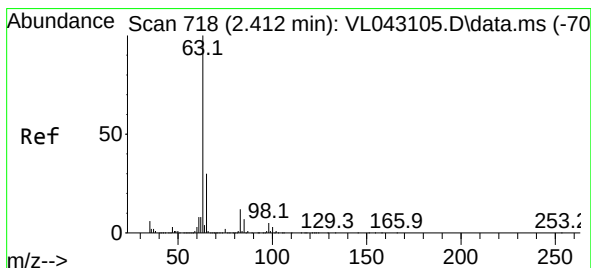
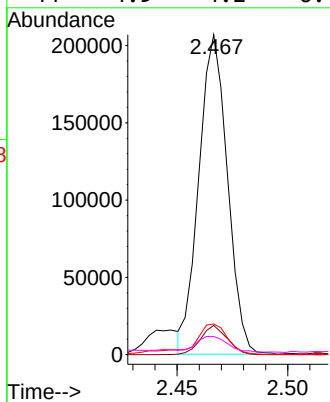
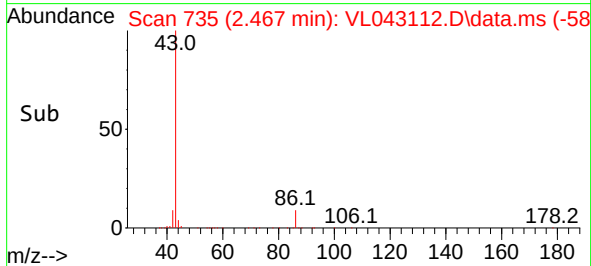


Tgt Ion: 43 Resp: 185329

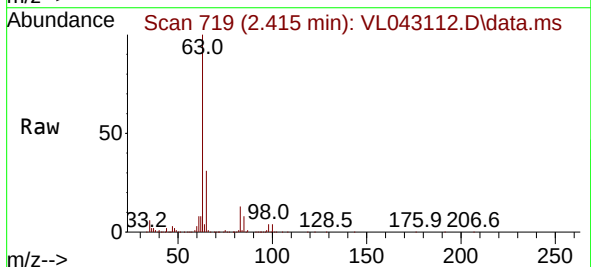
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 9.2   | 6.2   | 9.2   |
| 42  | 9.5   | 7.6   | 11.4  |
| 44  | 4.9   | 4.2   | 6.4   |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

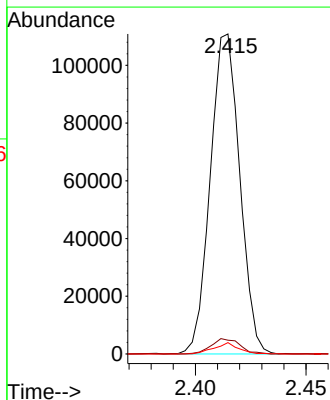
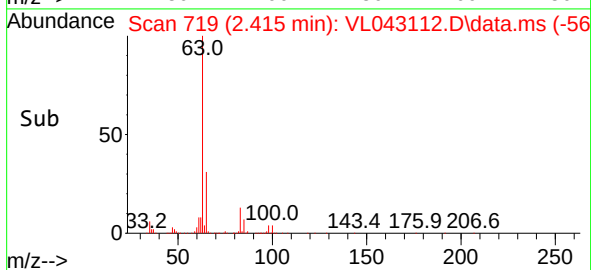


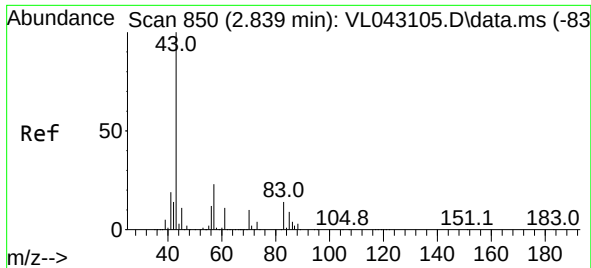
#24  
 1,1-Dichloroethane  
 Concen: 9.355 ppbv  
 RT: 2.415 min Scan# 719  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51



Tgt Ion: 63 Resp: 102877

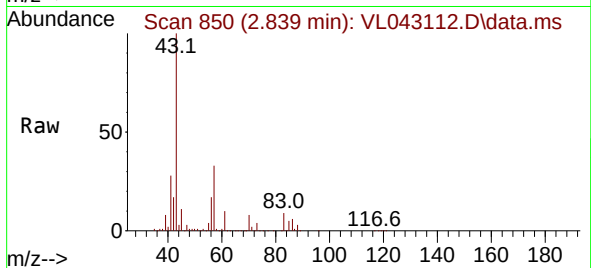
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.3   | 2.6   | 7.8   |
| 100 | 3.5   | 1.5   | 4.4   |





#25  
Ethyl Acetate  
Concen: 8.966 ppbv  
RT: 2.839 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

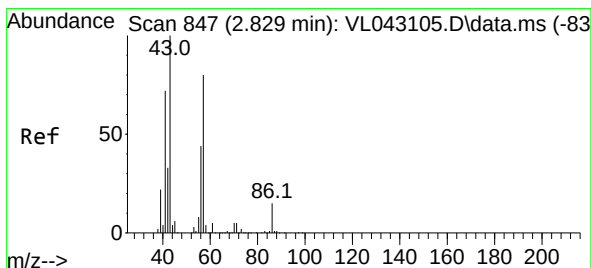
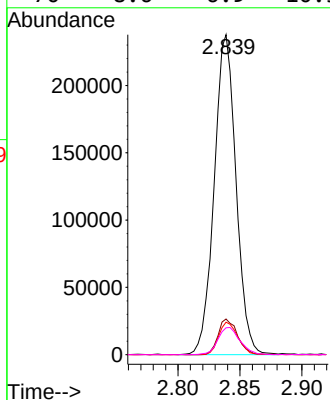
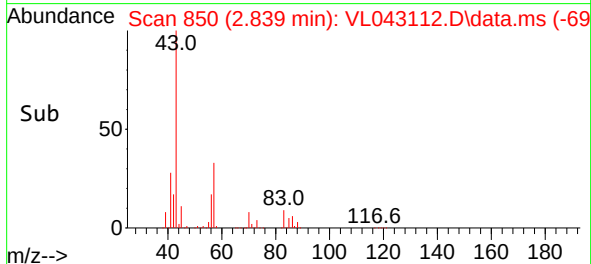
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 292399 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.0  | 7.8   | 11.8   |
| 61       | 9.0   | 7.0   | 10.6   |
| 70       | 8.6   | 6.9   | 10.3   |

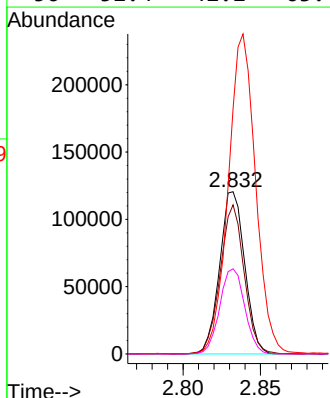
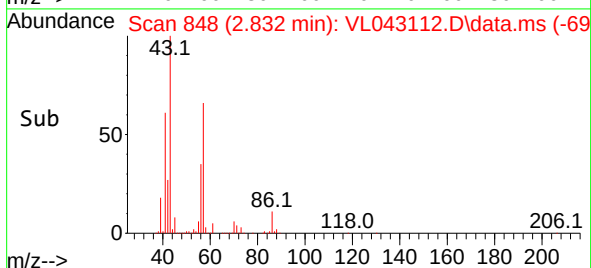
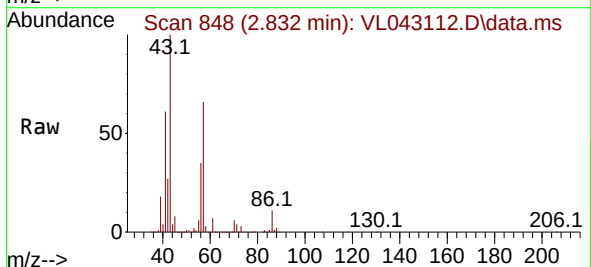
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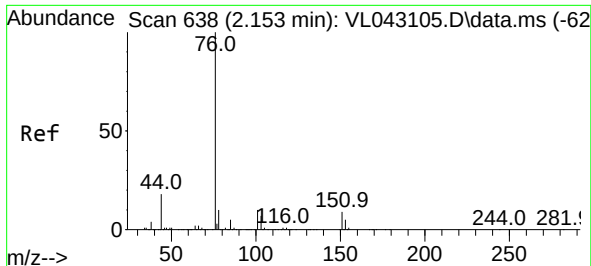
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#26  
Hexane  
Concen: 9.015 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

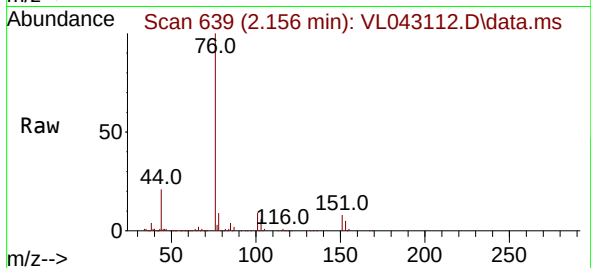
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 135463 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 88.9  | 71.4  | 107.0  |
| 43       | 216.8 | 178.5 | 267.7  |
| 56       | 52.4  | 42.2  | 63.4   |





#27  
Carbon Disulfide  
Concen: 9.520 ppbv  
RT: 2.156 min Scan# 611  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

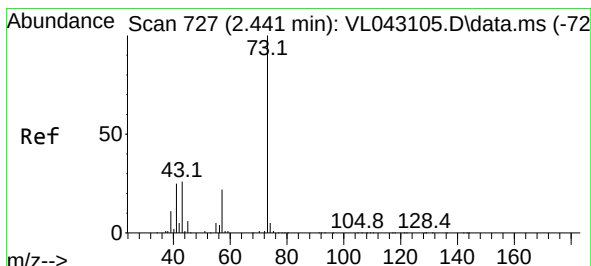
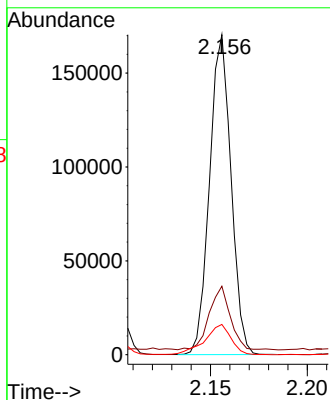
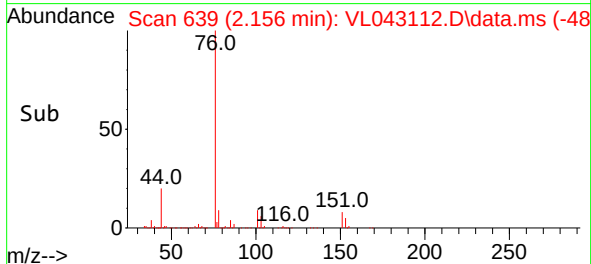
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



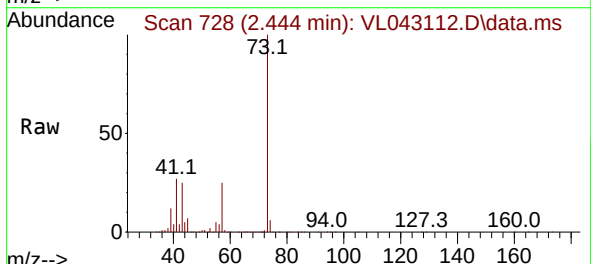
Tgt Ion: 76 Resp: 131064  
Ion Ratio Lower Upper  
76 100  
44 20.7 16.7 25.1  
78 11.7 9.3 13.9

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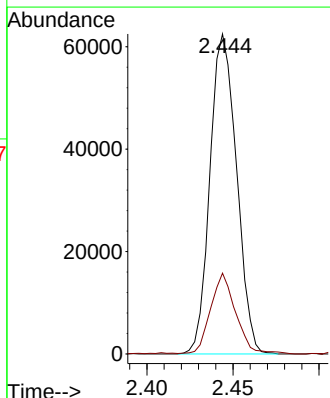
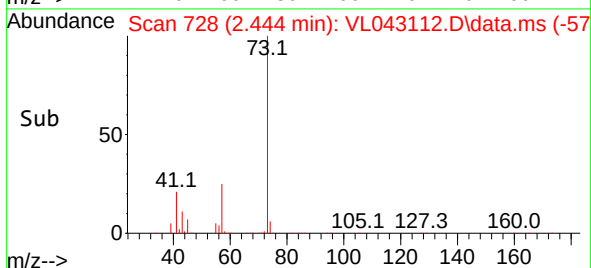
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

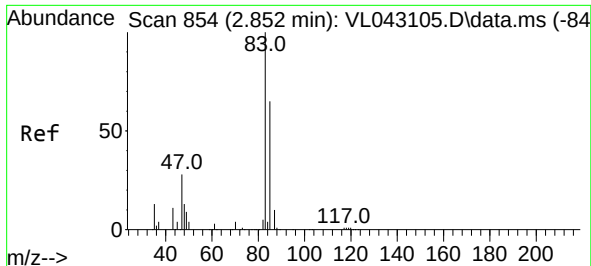


#28  
Methyl tert-Butyl Ether  
Concen: 9.839 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



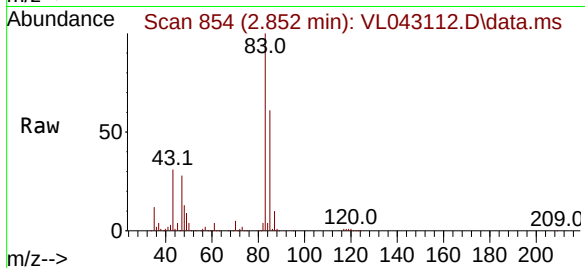
Tgt Ion: 73 Resp: 67260  
Ion Ratio Lower Upper  
73 100  
57 24.1 20.5 30.7





#29  
Chloroform  
Concen: 9.412 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

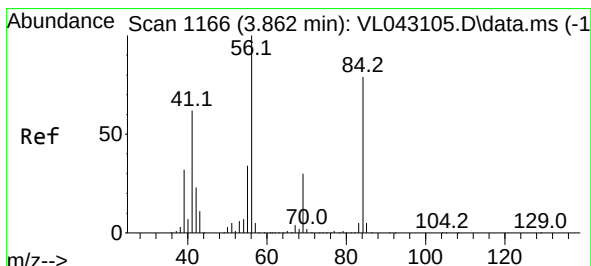
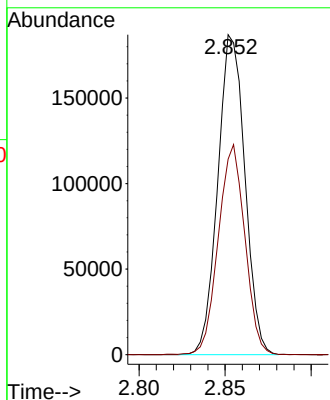
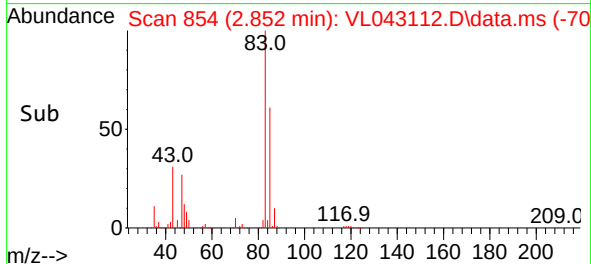
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



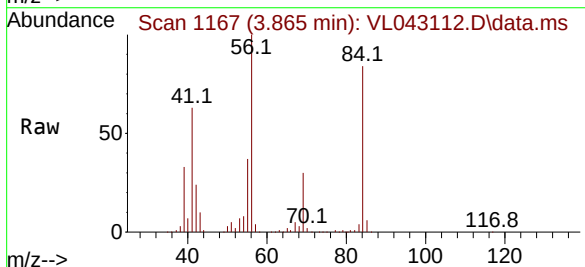
Tgt Ion: 83 Resp: 204925  
Ion Ratio Lower Upper  
83 100  
85 61.0 51.8 77.6

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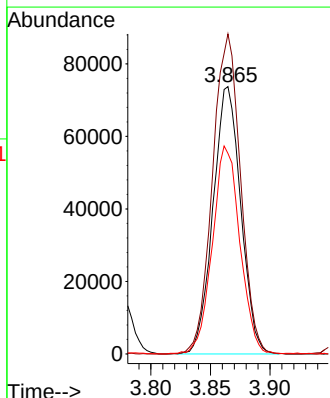
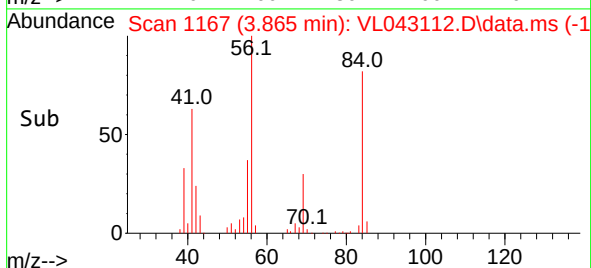
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

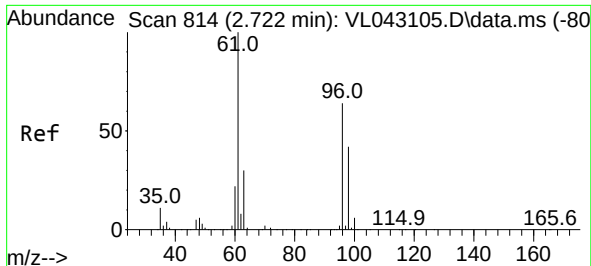


#30  
Cyclohexane  
Concen: 9.096 ppbv  
RT: 3.865 min Scan# 1167  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



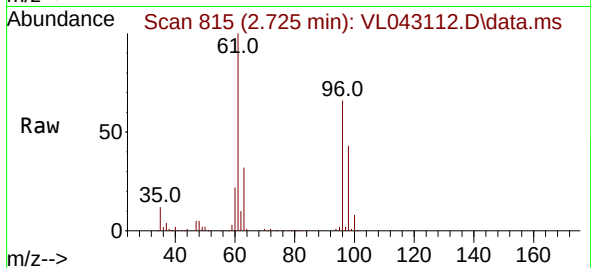
Tgt Ion: 84 Resp: 119287  
Ion Ratio Lower Upper  
84 100  
56 120.8 100.9 151.3  
41 77.4 63.8 95.6





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.580 ppbv  
 RT: 2.725 min Scan# 814  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

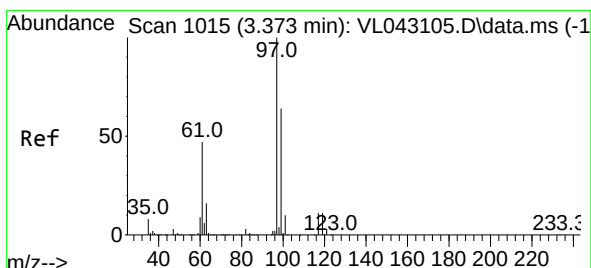
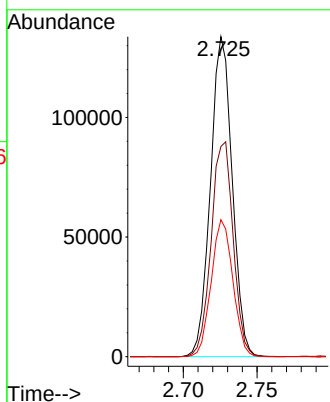
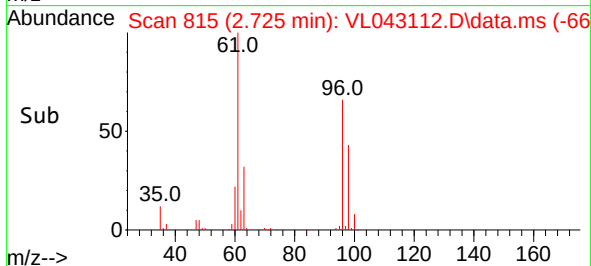
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425



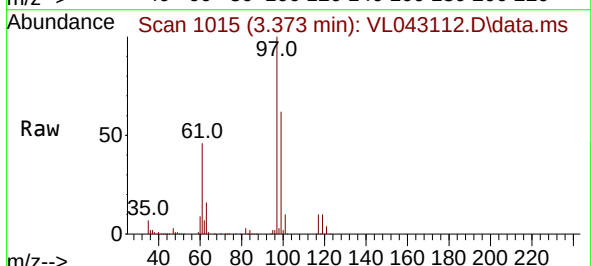
Tgt Ion: 61 Resp: 137462  
 Ion Ratio Lower Upper  
 61 100  
 96 65.7 51.0 76.6  
 98 42.8 33.5 50.3

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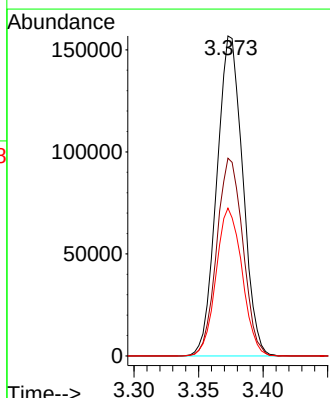
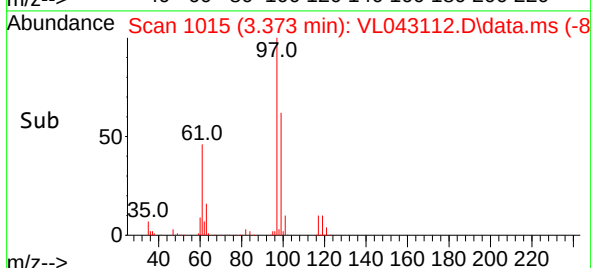
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

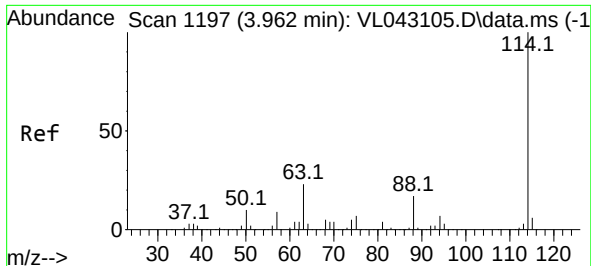


#32  
 1,1,1-Trichloroethane  
 Concen: 9.666 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51



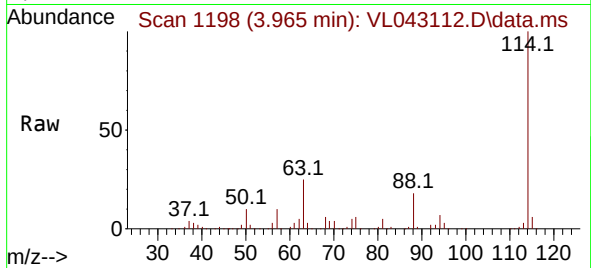
Tgt Ion: 97 Resp: 219167  
 Ion Ratio Lower Upper  
 97 100  
 99 62.3 51.3 76.9  
 61 46.4 38.4 57.6





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

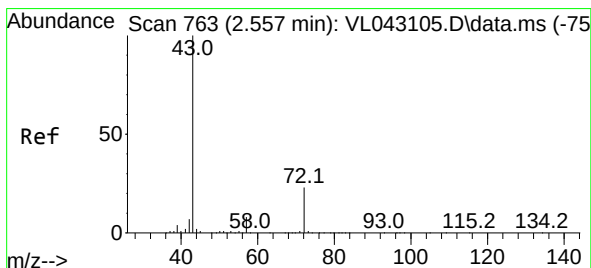
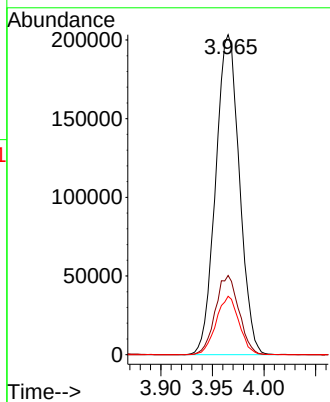
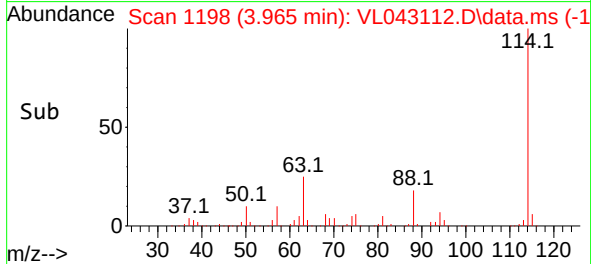
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



Tgt Ion:114 Resp: 325610  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.3 28.9  
88 17.6 13.9 20.9

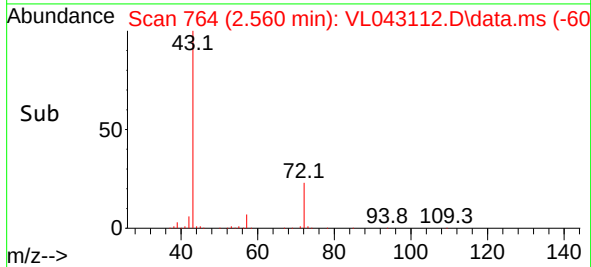
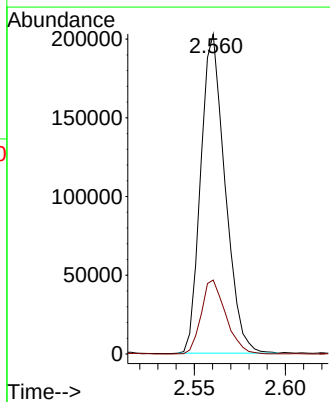
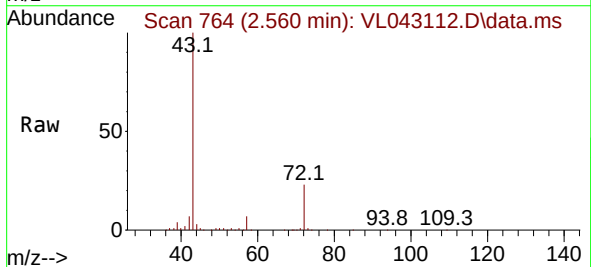
Manual Integrations  
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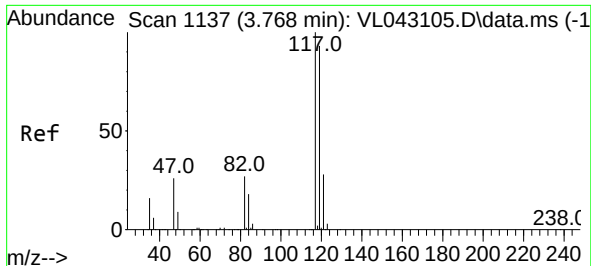
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#34  
2-Butanone  
Concen: 8.624 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

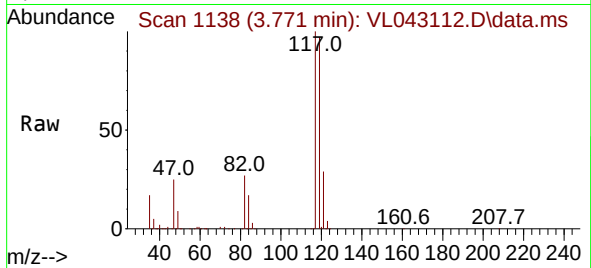
Tgt Ion: 43 Resp: 188755  
Ion Ratio Lower Upper  
43 100  
72 23.4 18.4 27.6





#35  
Carbon Tetrachloride  
Concen: 9.298 ppbv  
RT: 3.771 min Scan# 1137  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

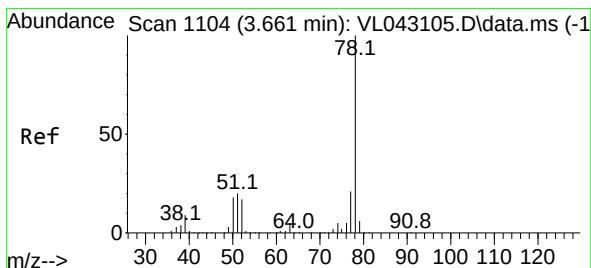
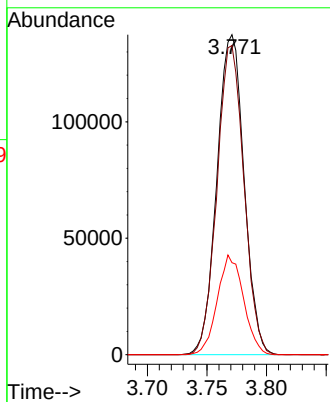
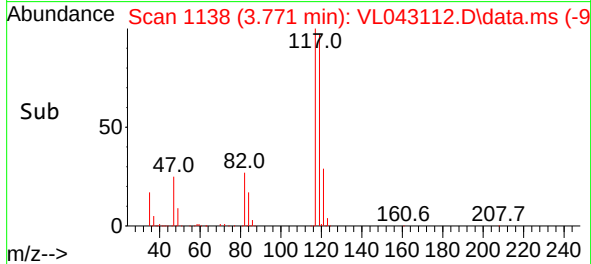
Instrument : MSVOA\_L  
ClientSampleId : ICVVL101425



Tgt Ion: 117 Resp: 217678  
Ion Ratio Lower Upper  
117 100  
119 96.6 74.1 111.1  
121 28.7 22.2 33.2

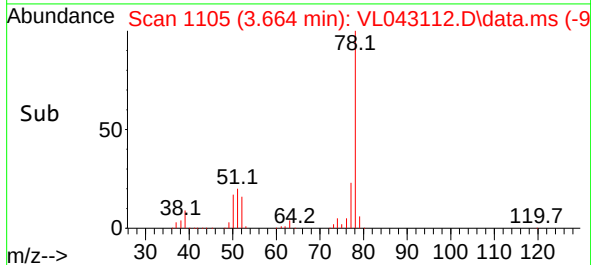
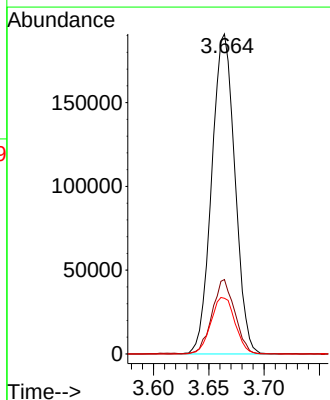
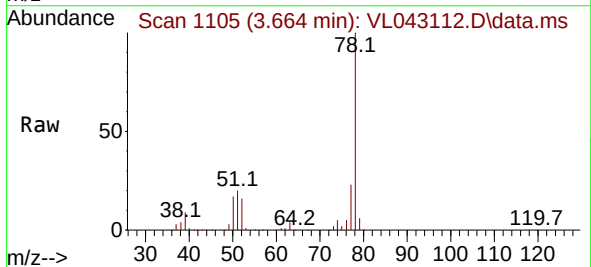
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

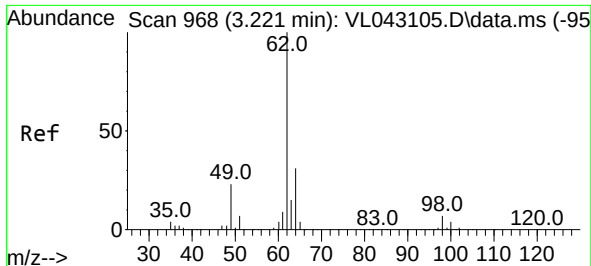


#36  
Benzene  
Concen: 9.077 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365  
Ion Ratio Lower Upper  
78 100  
77 23.2 17.0 25.6  
50 17.4 14.6 22.0







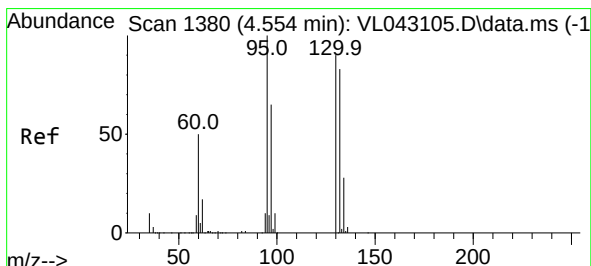
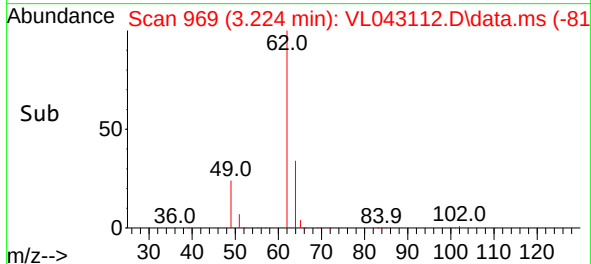
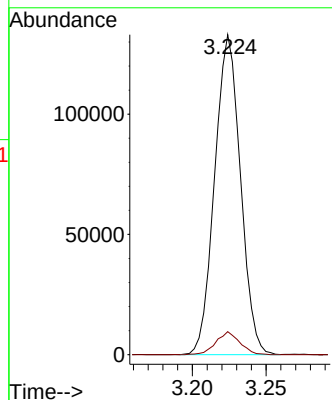
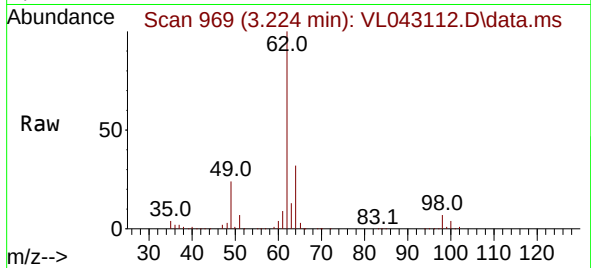
#37  
1,2-Dichloroethane  
Concen: 9.156 ppbv  
RT: 3.224 min Scan# 968  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 62 Resp: 161750  
Ion Ratio Lower Upper  
62 100  
98 6.7 5.8 8.6

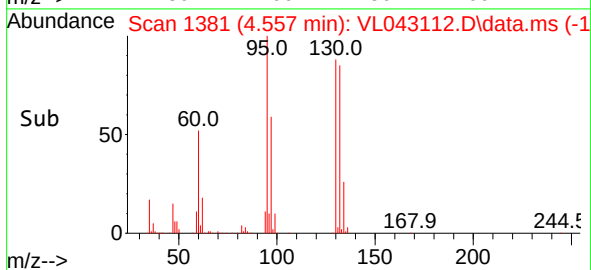
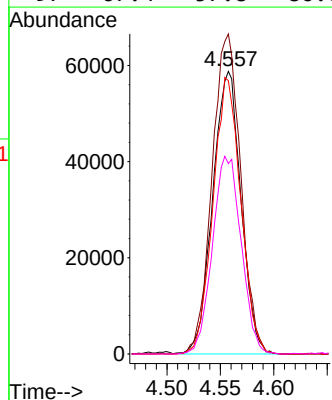
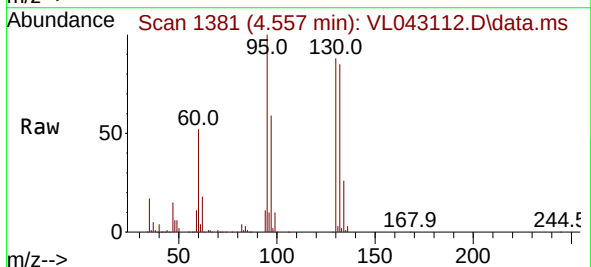
Manual Integrations  
APPROVED

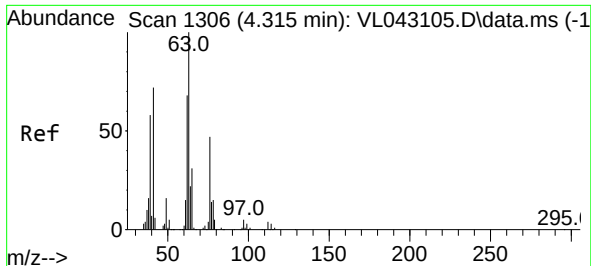
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38  
Trichloroethene  
Concen: 8.453 ppbv  
RT: 4.557 min Scan# 1381  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261  
Ion Ratio Lower Upper  
130 100  
95 113.2 88.6 133.0  
132 96.7 73.4 110.0  
97 67.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.971 ppbv

RT: 4.321 min Scan# 1306

Delta R.T. 0.006 min

Lab File: VL043112.D

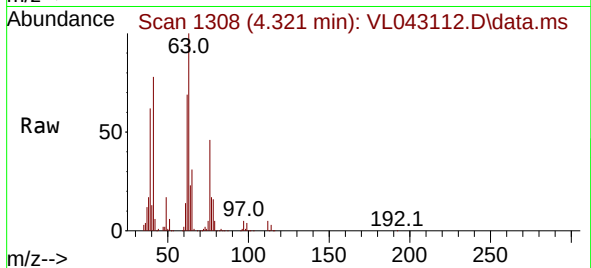
Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101425



Tgt Ion: 63 Resp: 100580

Ion Ratio Lower Upper

63 100

41 78.0 58.0 87.0

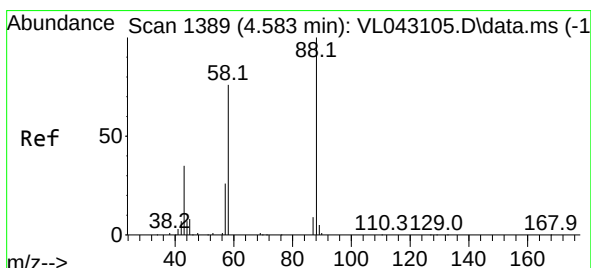
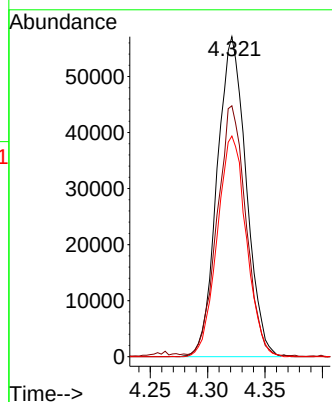
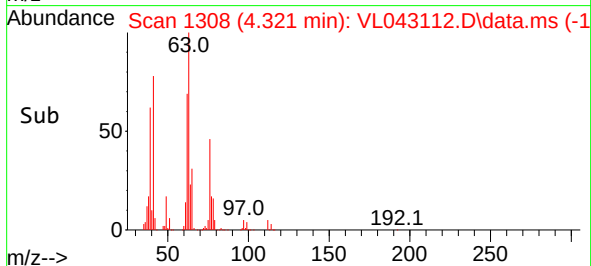
62 69.0 54.7 82.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#40

1,4-Dioxane

Concen: 8.265 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

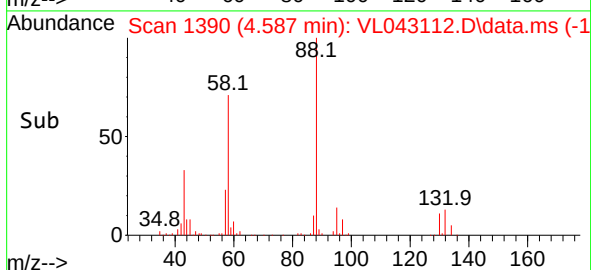
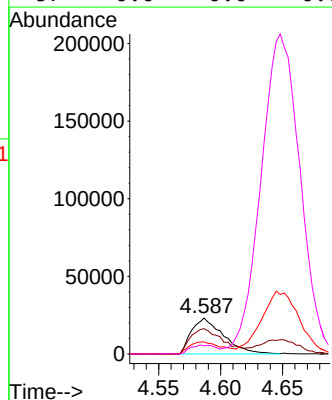
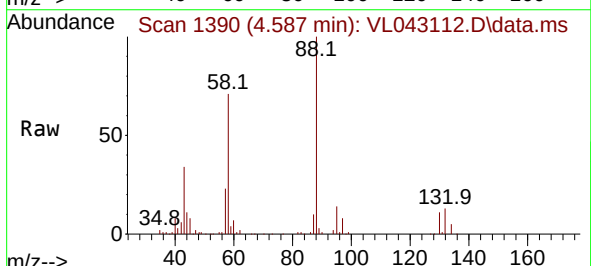
Ion Ratio Lower Upper

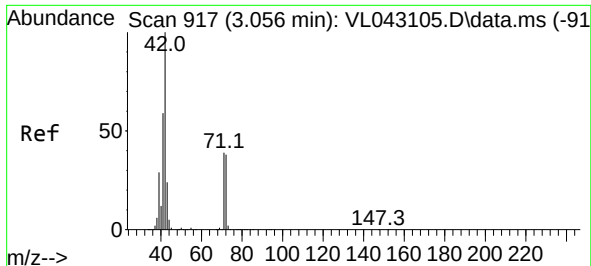
88 100

58 74.2 61.1 91.7

43 35.4 24.0 36.0

57 0.0 0.0 0.0





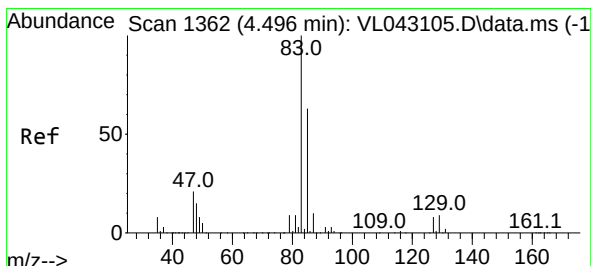
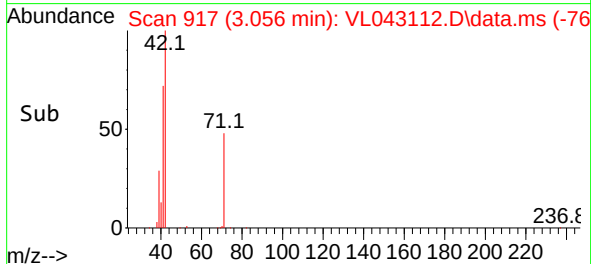
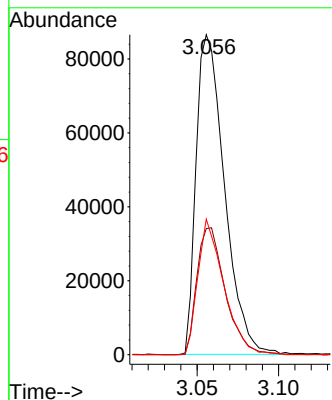
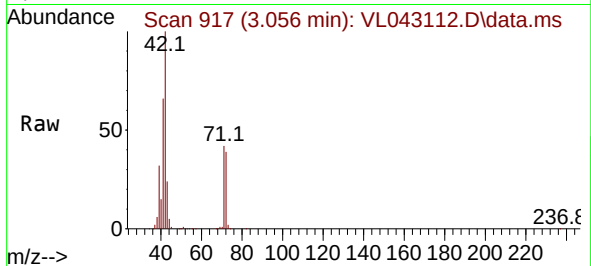
#41  
Tetrahydrofuran  
Concen: 8.553 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 42 Resp: 10470  
Ion Ratio Lower Upper  
42 100  
72 39.8 31.3 46.9  
71 38.8 30.4 45.6

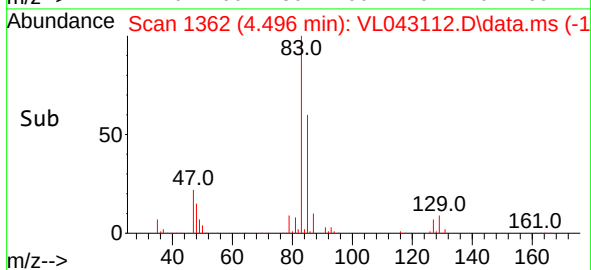
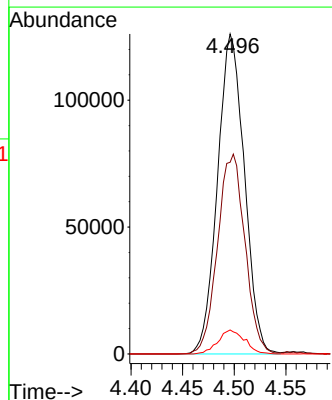
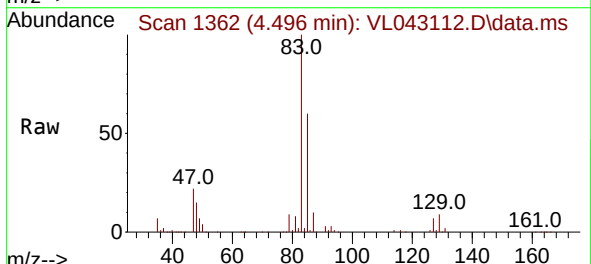
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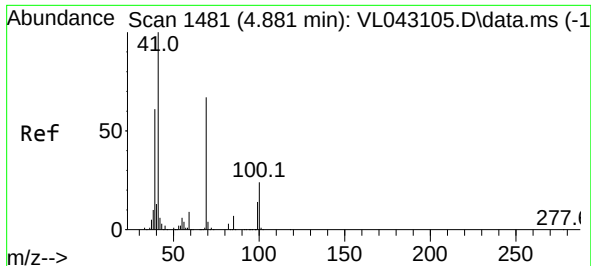
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#42  
Bromodichloromethane  
Concen: 9.336 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 83 Resp: 228288  
Ion Ratio Lower Upper  
83 100  
85 59.8 50.6 75.8  
127 7.5 6.3 9.5





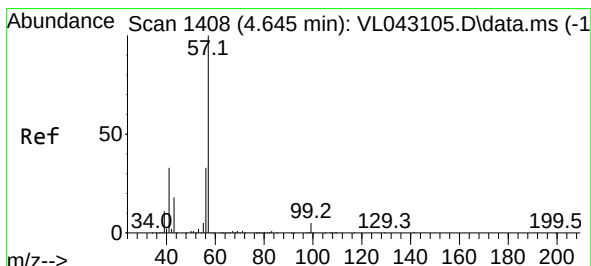
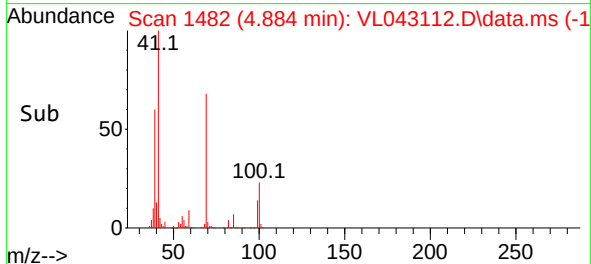
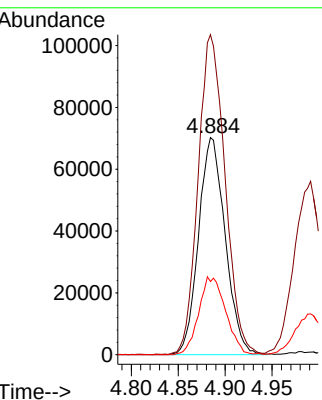
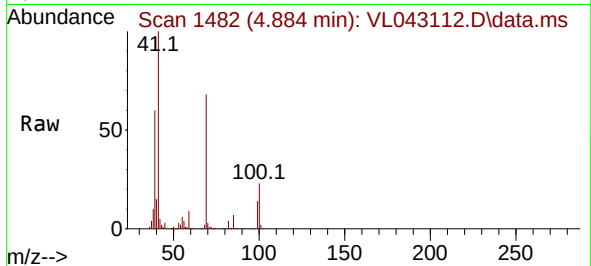
#43  
Methyl Methacrylate  
Concen: 8.898 ppbv  
RT: 4.884 min Scan# 1482  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 69 Resp: 13859  
Ion Ratio Lower Upper  
69 100  
41 149.1 120.5 180.7  
100 36.3 29.0 43.4

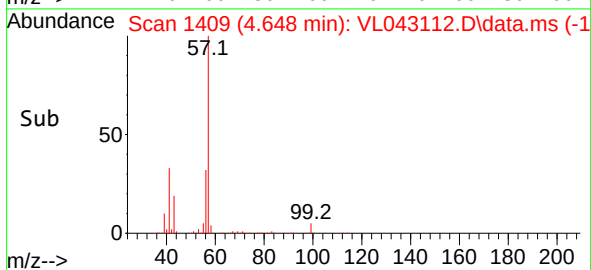
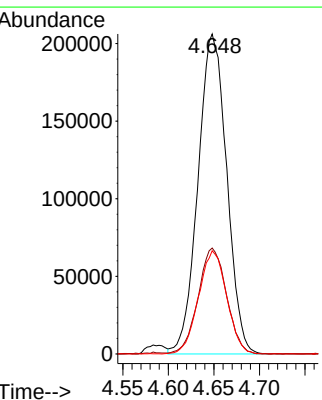
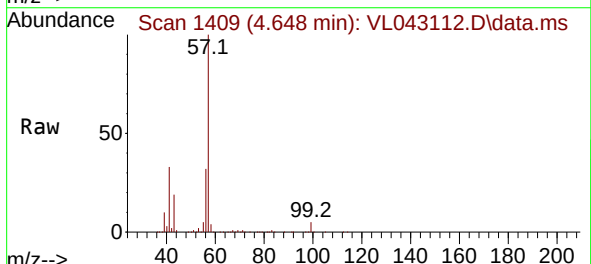
Manual Integrations  
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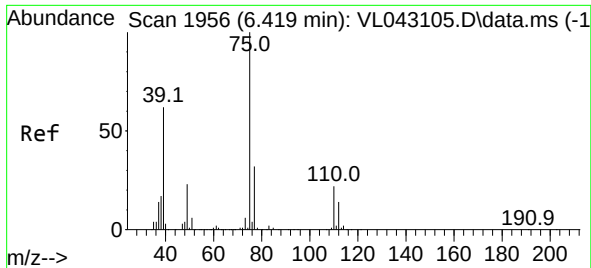
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#44  
2,2,4-Trimethylpentane  
Concen: 8.738 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

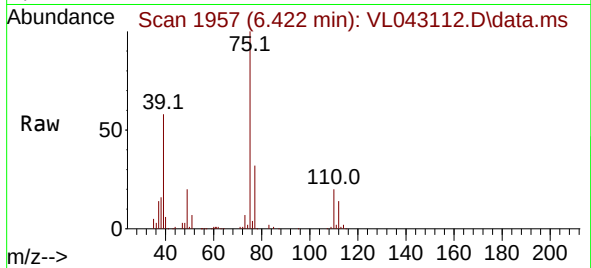
Tgt Ion: 57 Resp: 452117  
Ion Ratio Lower Upper  
57 100  
41 33.2 26.3 39.5  
56 31.6 25.9 38.9





#45  
t-1,3-Dichloropropene  
Concen: 9.146 ppbv  
RT: 6.422 min Scan# 1956  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

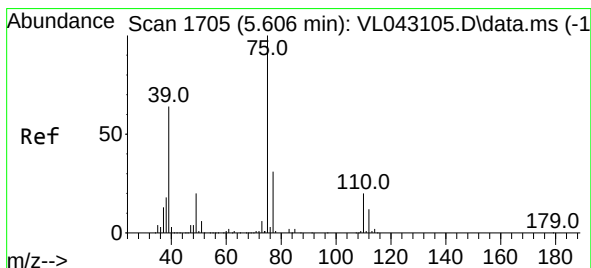
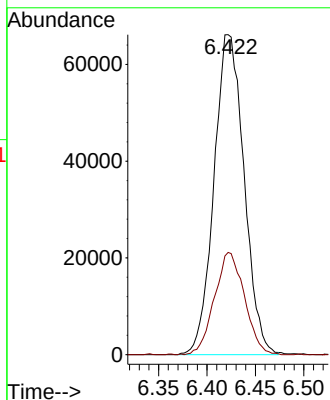
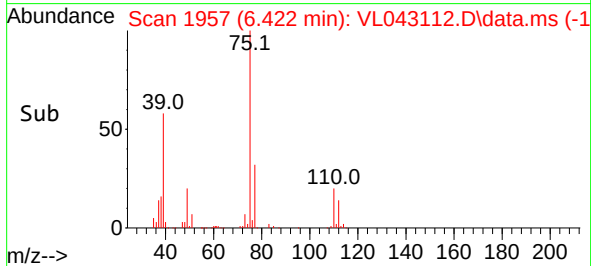
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



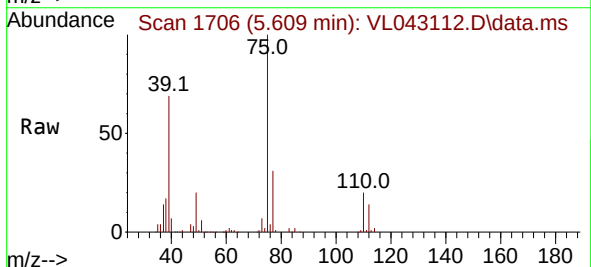
Tgt Ion: 75 Resp: 142964  
Ion Ratio Lower Upper  
75 100  
77 32.0 25.4 38.2

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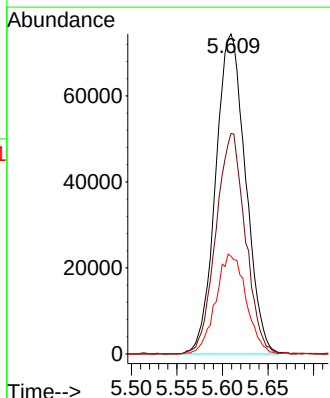
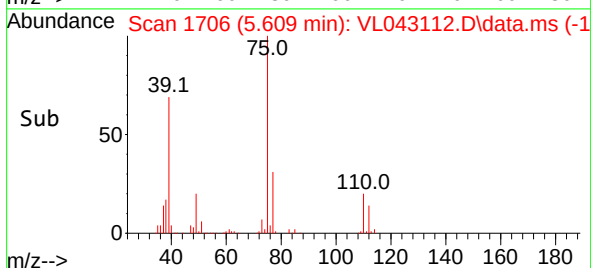
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

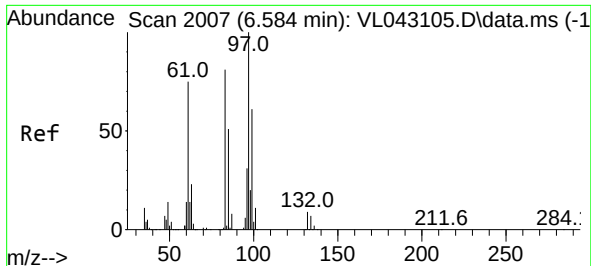


#46  
cis-1,3-Dichloropropene  
Concen: 9.106 ppbv  
RT: 5.609 min Scan# 1706  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



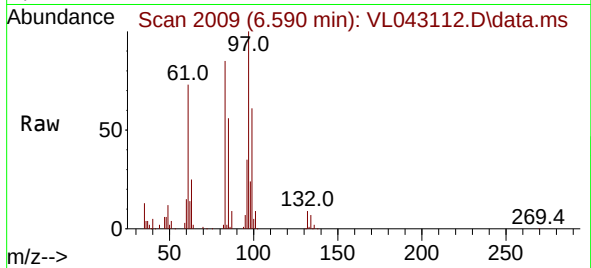
Tgt Ion: 75 Resp: 170038  
Ion Ratio Lower Upper  
75 100  
39 68.8 51.0 76.6  
77 30.5 25.0 37.4





#47  
1,1,2-Trichloroethane  
Concen: 9.000 ppbv  
RT: 6.590 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

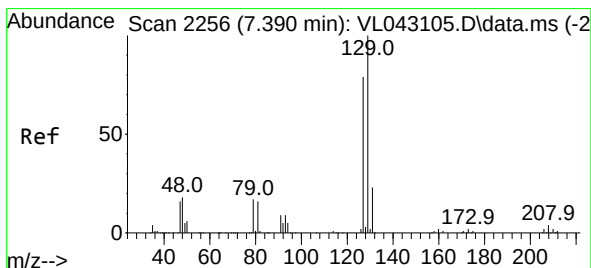
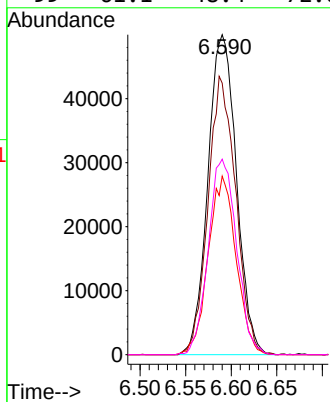
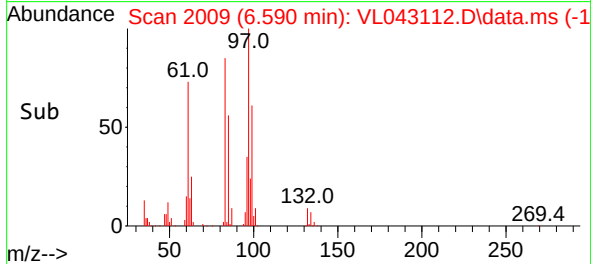
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 84.8  | 64.6  | 96.8  |
| 85      | 55.8  | 40.6  | 60.8  |
| 99      | 61.1  | 48.4  | 72.6  |

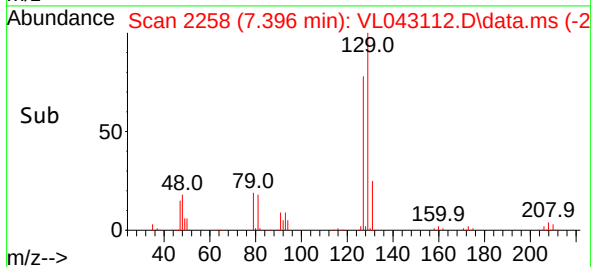
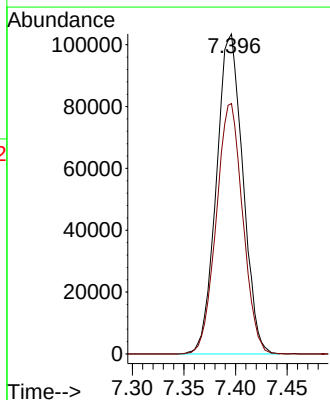
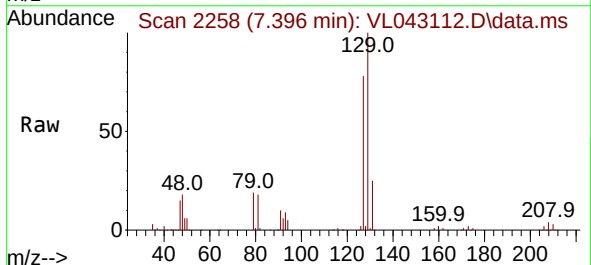
Manual Integrations  
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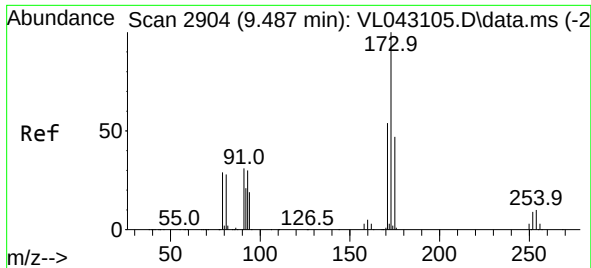
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#48  
Dibromochloromethane  
Concen: 9.127 ppbv  
RT: 7.396 min Scan# 2258  
Delta R.T. 0.006 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.3  | 39.3  | 117.9 |





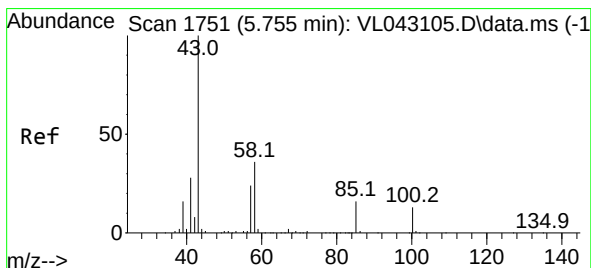
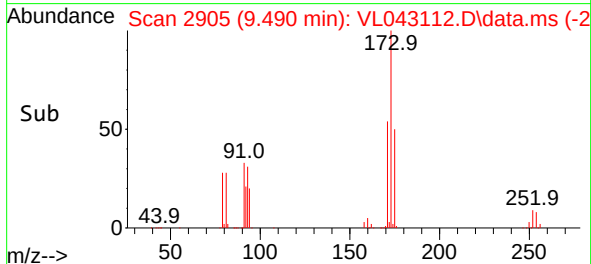
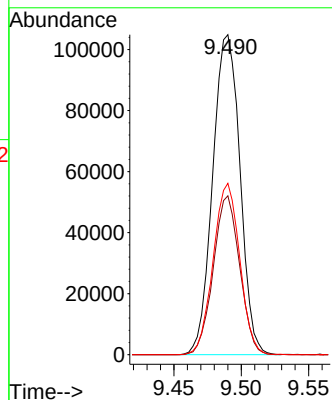
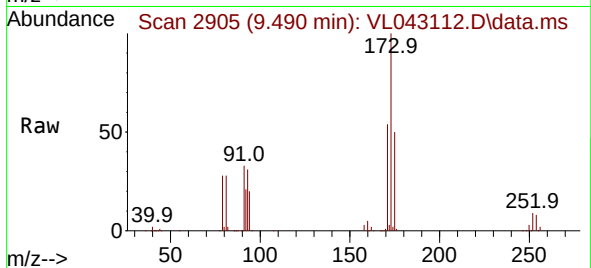
#49  
Bromoform  
Concen: 8.980 ppbv  
RT: 9.490 min Scan# 2904  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion:173 Resp: 147759  
Ion Ratio Lower Upper  
173 100  
175 48.0 38.8 58.2  
171 52.1 41.7 62.5

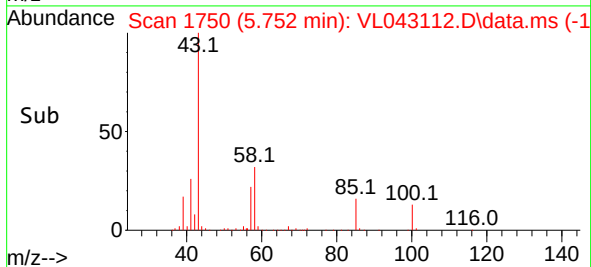
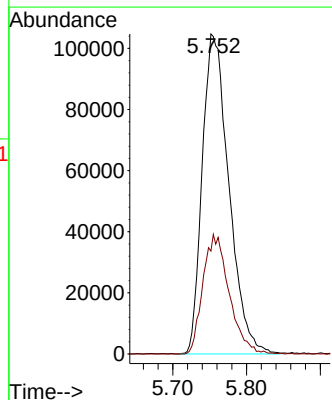
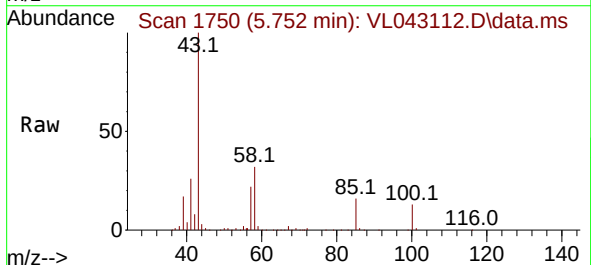
Manual Integrations  
APPROVED

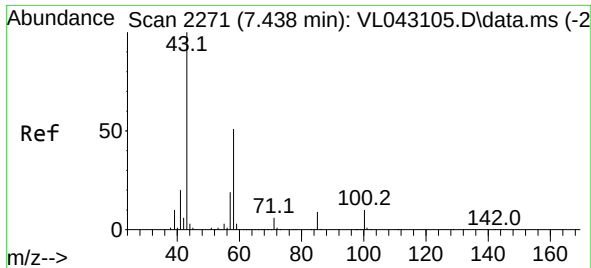
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#50  
4-Methyl-2-Pentanone  
Concen: 8.709 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. -0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

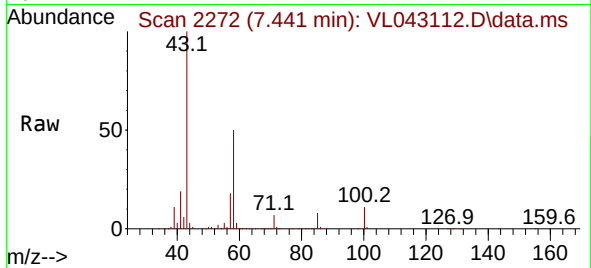
Tgt Ion: 43 Resp: 263070  
Ion Ratio Lower Upper  
43 100  
58 36.6 29.1 43.7





#51  
2-Hexanone  
Concen: 8.999 ppbv  
RT: 7.441 min Scan# 20387  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

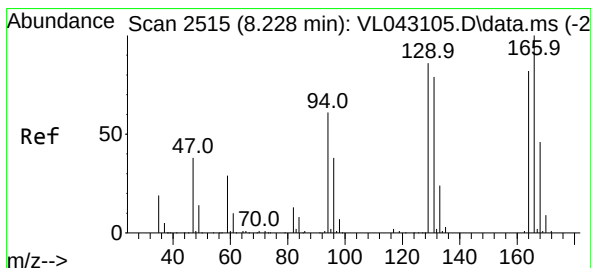
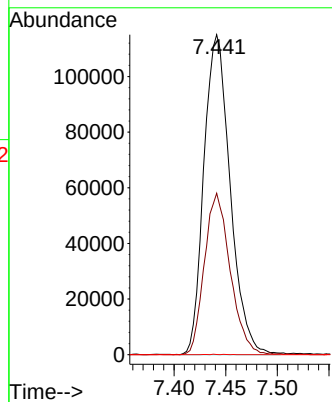
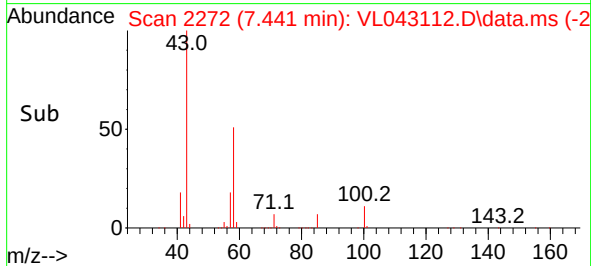
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



Tgt Ion: 43 Resp: 20387  
Ion Ratio Lower Upper  
43 100  
58 49.6 40.4 60.6  
98 0.1 0.1 0.1

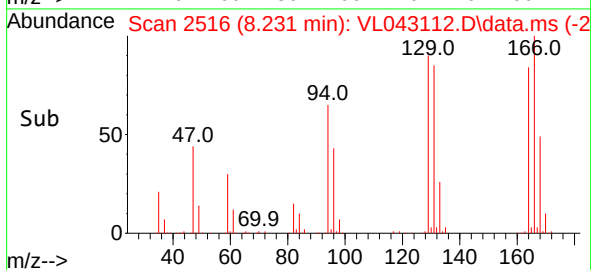
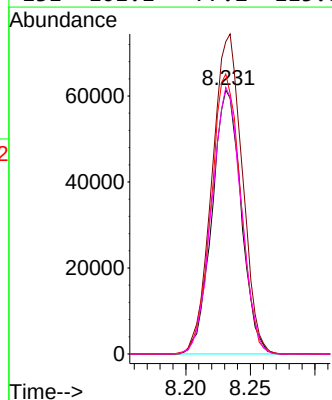
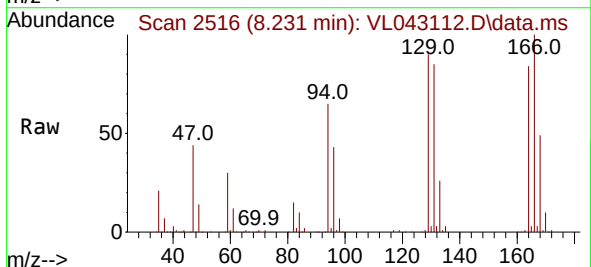
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

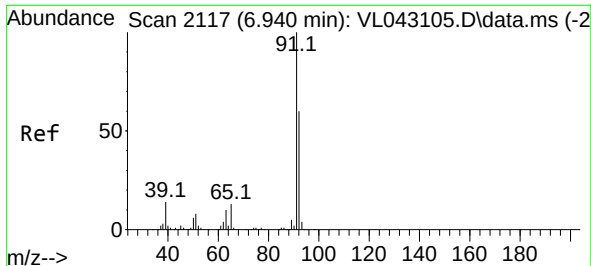


#52  
Tetrachloroethene  
Concen: 8.681 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:164 Resp: 96000  
Ion Ratio Lower Upper  
164 100  
166 118.4 97.6 146.4  
129 106.2 84.5 126.7  
131 101.1 77.2 115.8

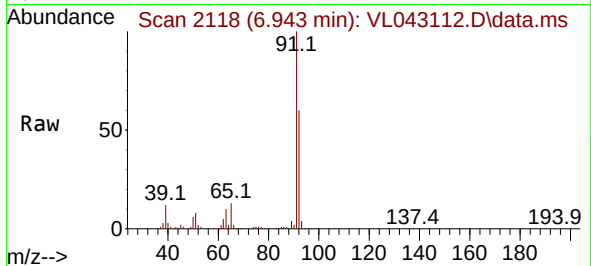






#53  
Toluene  
Concen: 8.928 ppbv  
RT: 6.943 min Scan# 2117  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

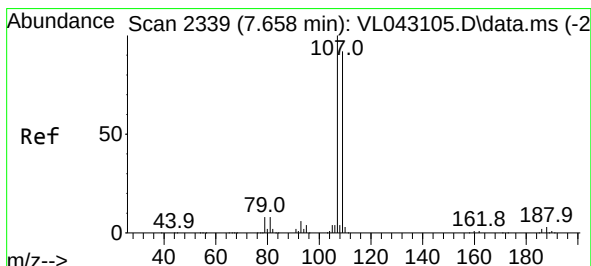
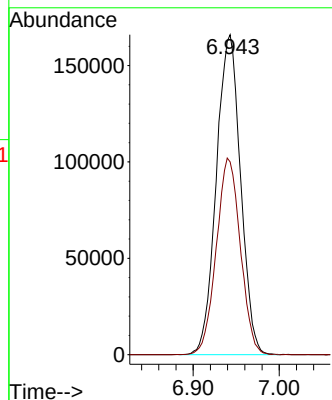
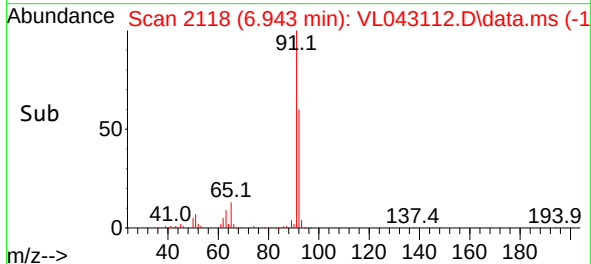
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



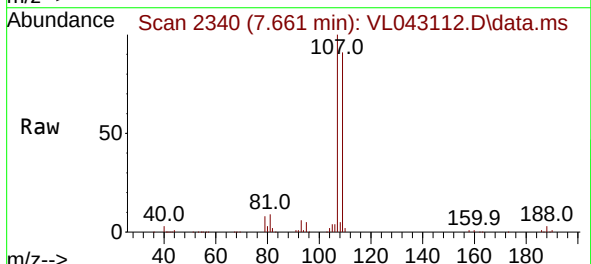
Tgt Ion: 91 Resp: 32494  
Ion Ratio Lower Upper  
91 100  
92 61.0 48.8 73.2

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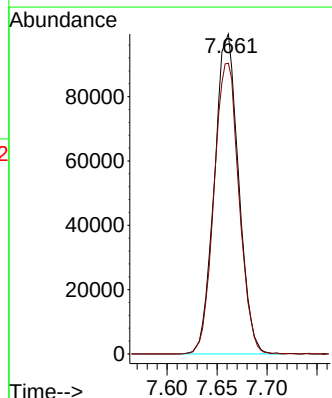
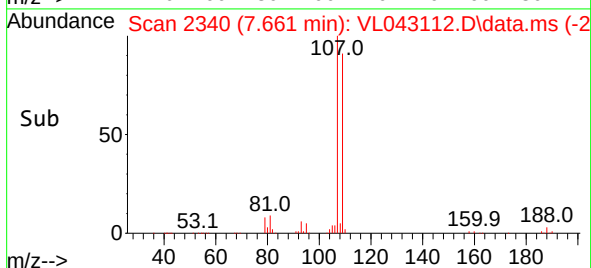
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

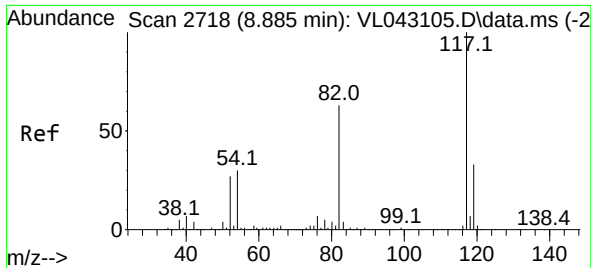


#54  
1,2-Dibromoethane  
Concen: 8.856 ppbv  
RT: 7.661 min Scan# 2340  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



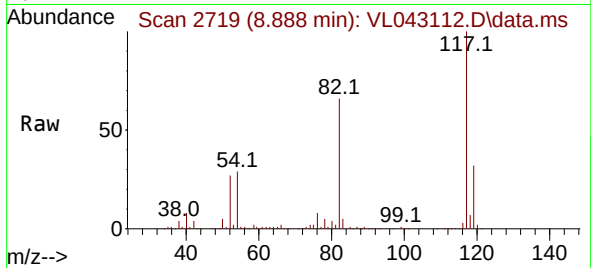
Tgt Ion:107 Resp: 167936  
Ion Ratio Lower Upper  
107 100  
109 90.9 73.4 110.2





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2718  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

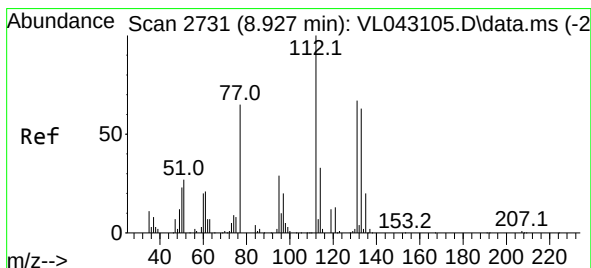
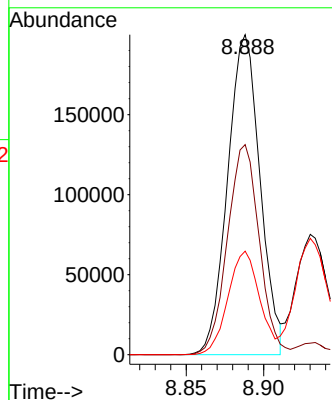
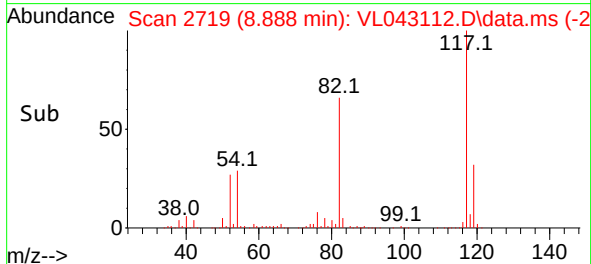
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



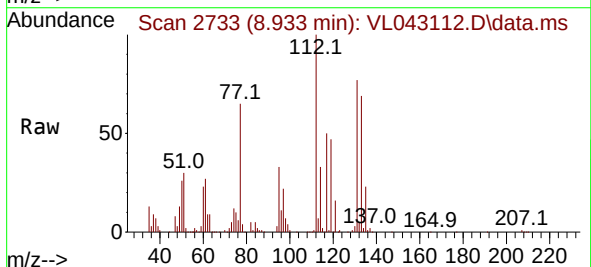
Tgt Ion:117 Resp: 291670  
Ion Ratio Lower Upper  
117 100  
82 67.8 53.8 80.8  
119 31.5 25.4 38.0

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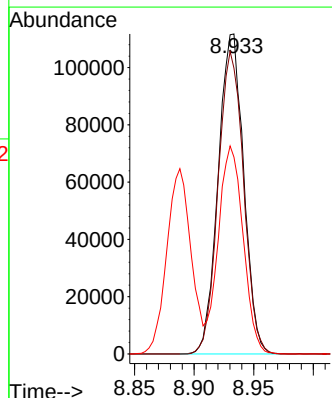
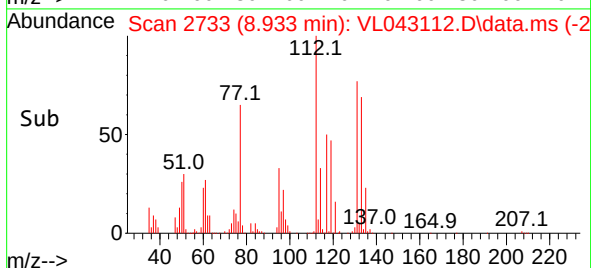
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

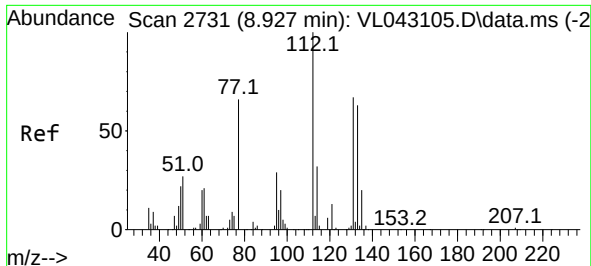


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.031 ppbv  
RT: 8.933 min Scan# 2733  
Delta R.T. 0.006 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



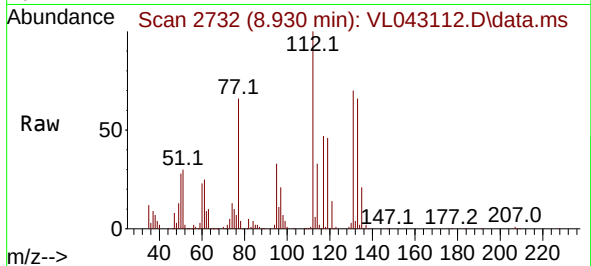
Tgt Ion:131 Resp: 166059  
Ion Ratio Lower Upper  
131 100  
133 94.2 75.7 113.5  
119 60.4 50.6 76.0





#57  
Chlorobenzene  
Concen: 8.770 ppbv  
RT: 8.930 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

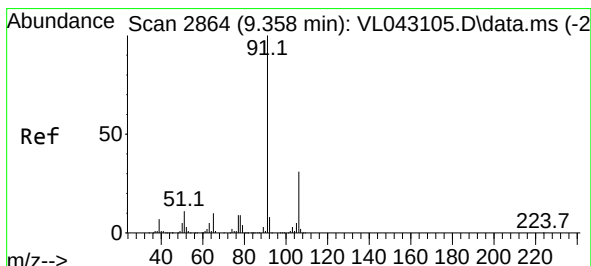
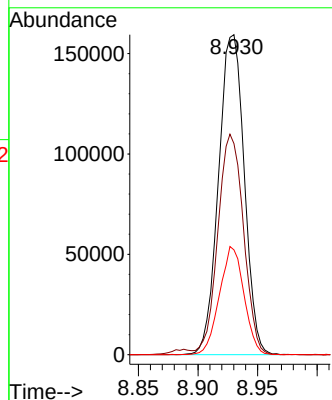
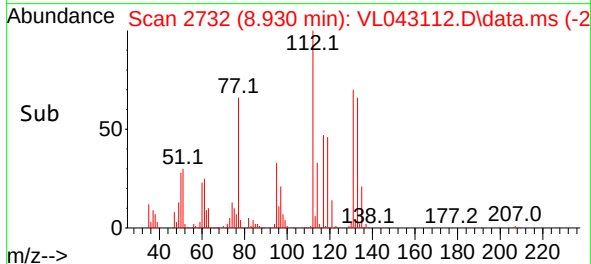
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



Tgt Ion:112 Resp: 239309  
Ion Ratio Lower Upper  
112 100  
77 65.9 53.3 79.9  
114 32.7 29.3 35.8

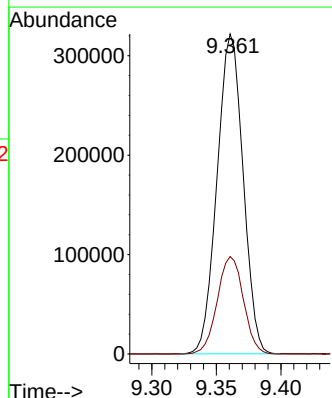
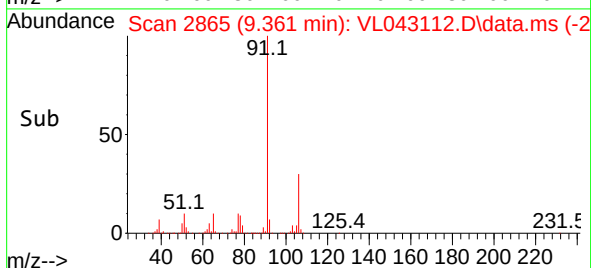
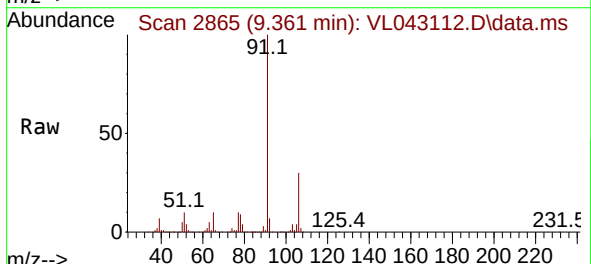
Manual Integrations  
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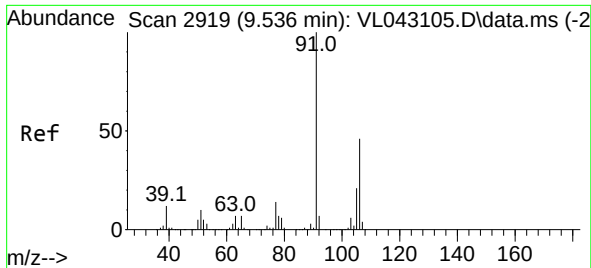
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#58  
Ethyl Benzene  
Concen: 8.990 ppbv  
RT: 9.361 min Scan# 2865  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029  
Ion Ratio Lower Upper  
91 100  
106 30.5 24.8 37.2





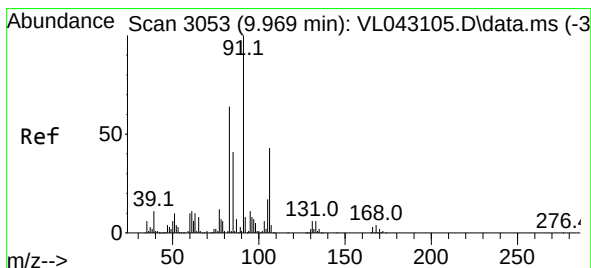
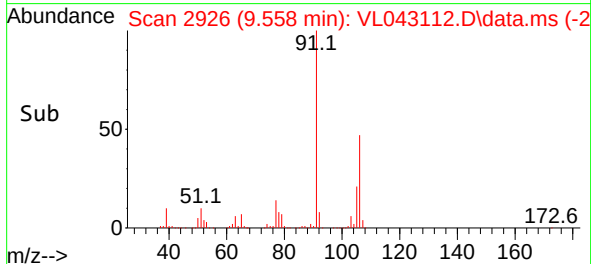
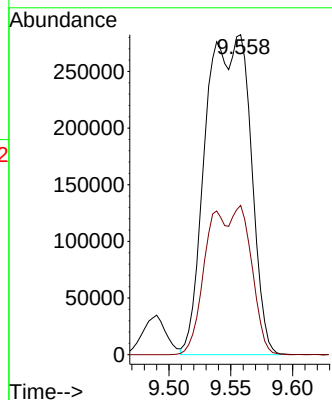
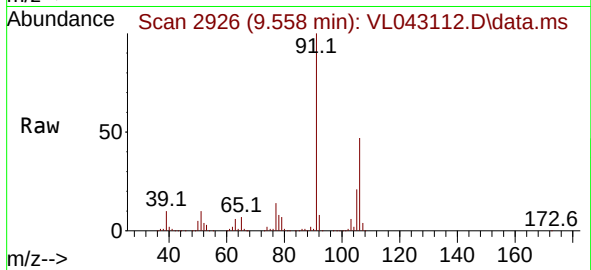
#59  
m/p-Xylene  
Concen: 17.913 ppbv m  
RT: 9.558 min Scan# 2919  
Delta R.T. 0.022 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 91 Resp: 71519  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

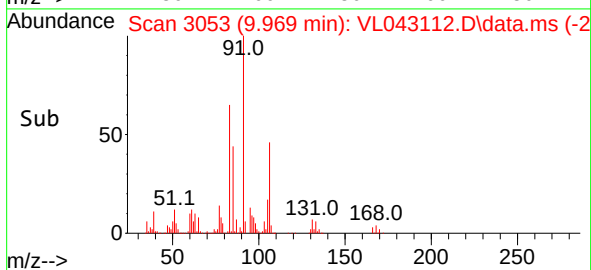
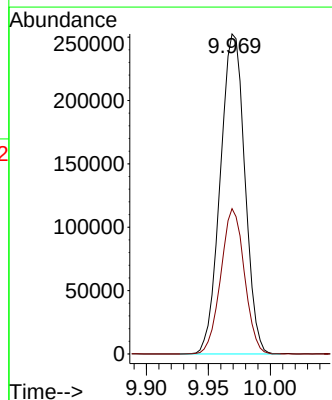
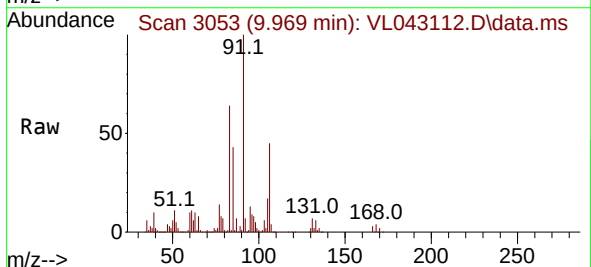
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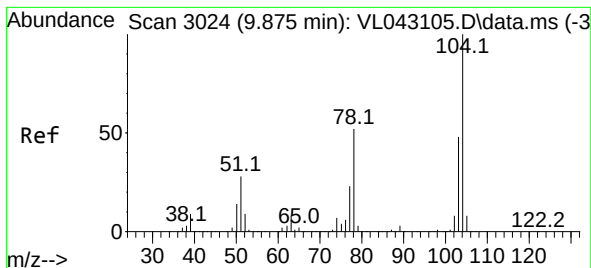
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#60  
o-Xylene  
Concen: 8.834 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 348346  
Ion Ratio Lower Upper  
91 100  
106 43.7 21.9 65.8





#61

Styrene

Concen: 9.099 ppbv

RT: 9.878 min Scan# 3024

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101425

Tgt Ion:104 Resp: 161979

Ion Ratio Lower Upper

104 100

78 51.4 40.2 60.2

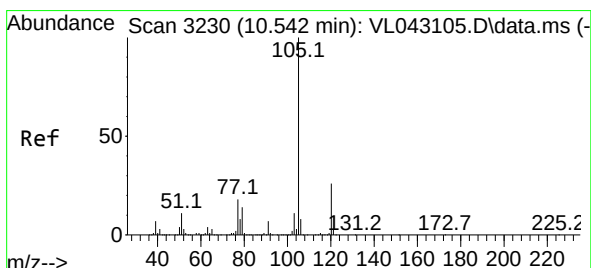
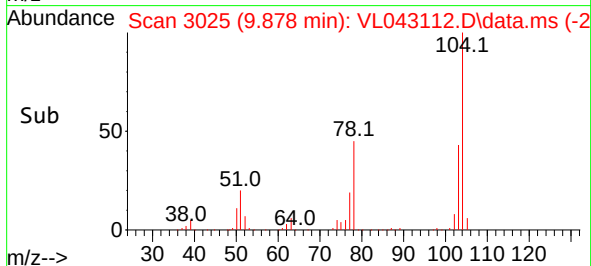
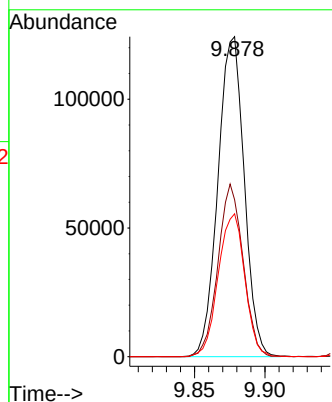
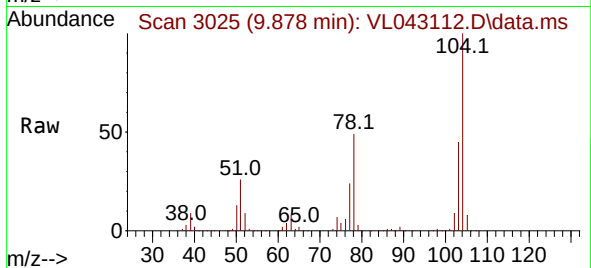
103 45.0 36.9 55.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#62

Isopropylbenzene

Concen: 8.726 ppbv

RT: 10.545 min Scan# 3231

Delta R.T. 0.003 min

Lab File: VL043112.D

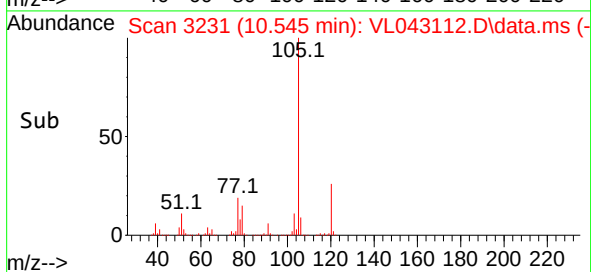
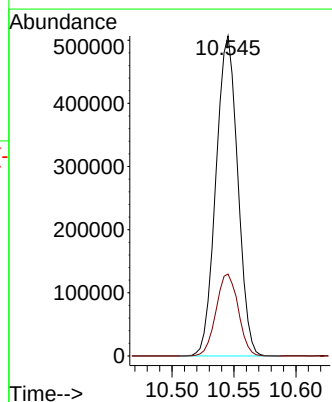
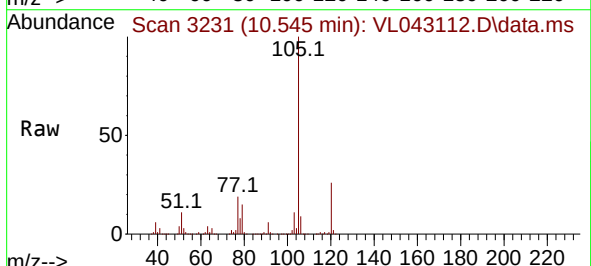
Acq: 14 Oct 2025 14:51

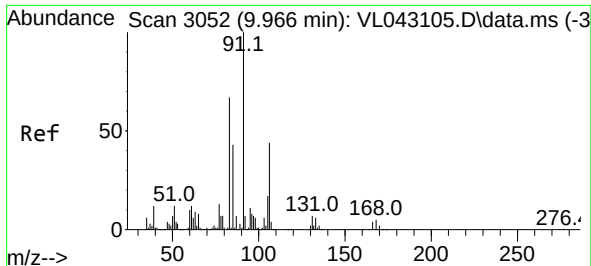
Tgt Ion:105 Resp: 621758

Ion Ratio Lower Upper

105 100

120 26.0 20.2 30.4





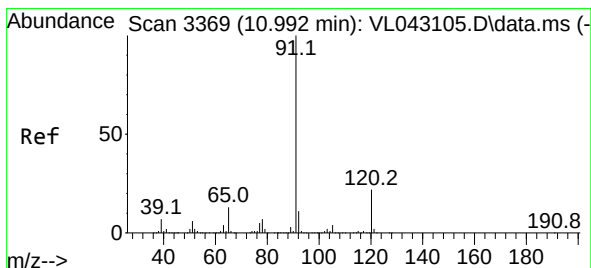
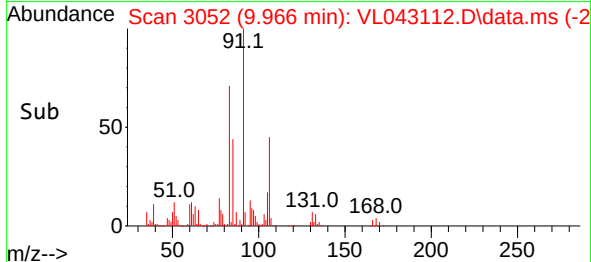
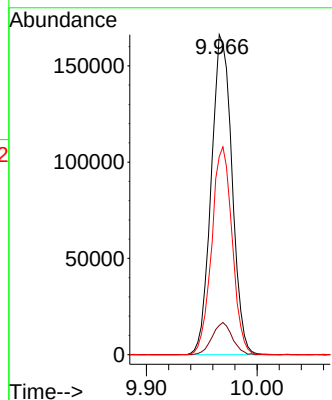
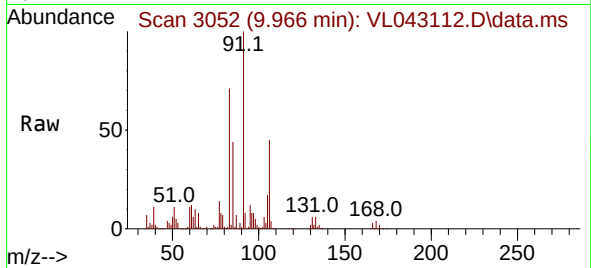
#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.177 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument : MSVOA\_L  
ClientSampleId : ICVVL101425

Tgt Ion: 83 Resp: 21591  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.3  
85 64.1 32.0 96.0

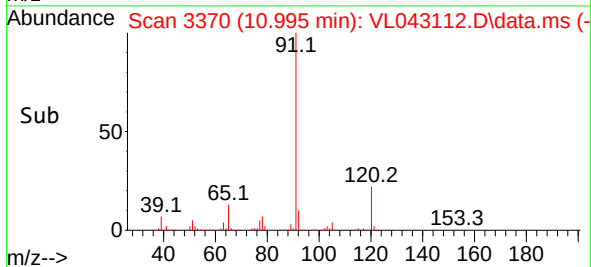
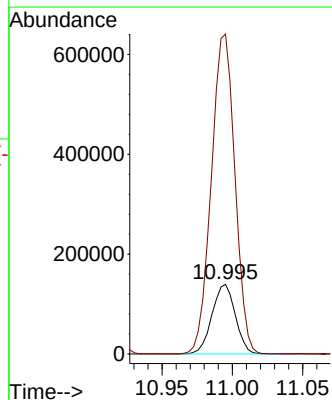
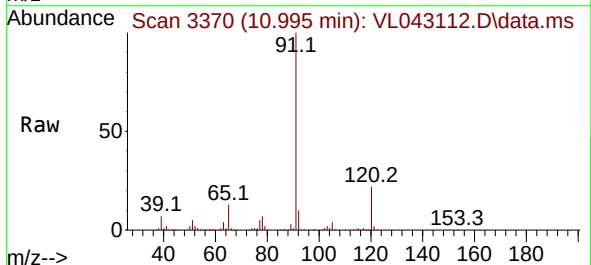
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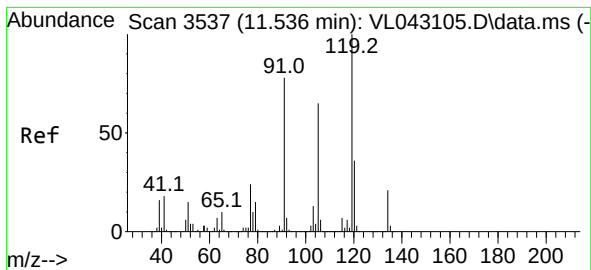
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#64  
n-propylbenzene  
Concen: 8.503 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:120 Resp: 160411  
Ion Ratio Lower Upper  
120 100  
91 467.8 361.6 542.4





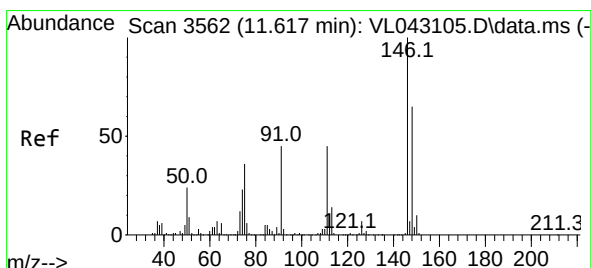
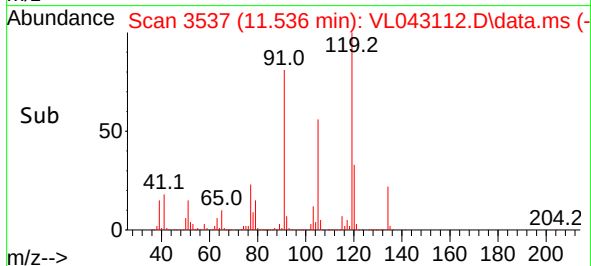
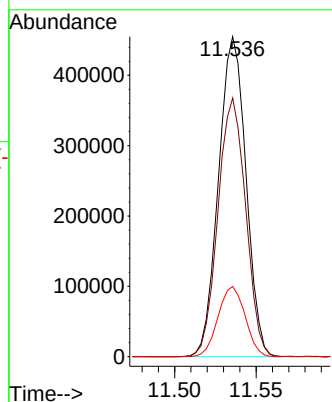
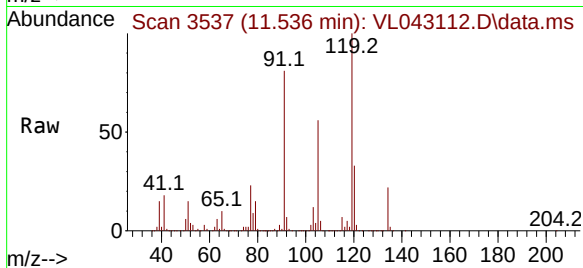
#65  
tert-Butylbenzene  
Concen: 8.464 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 119 Resp: 532570  
Ion Ratio Lower Upper  
119 100  
91 81.6 63.4 95.0  
134 21.6 17.3 25.9

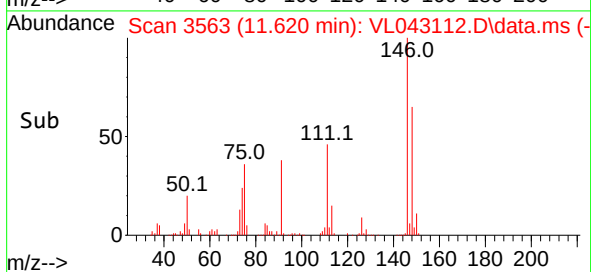
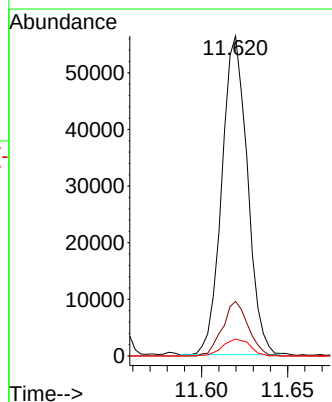
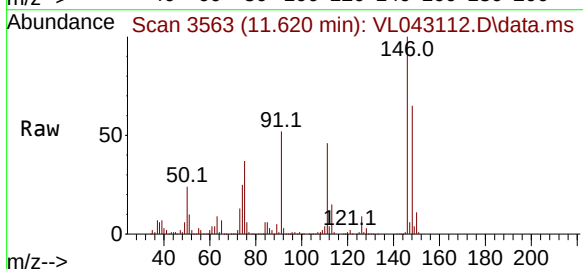
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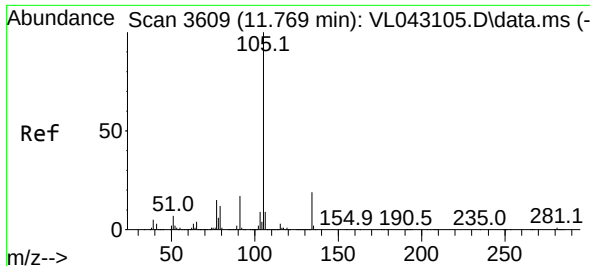
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#66  
Benzyl Chloride  
Concen: 8.306 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

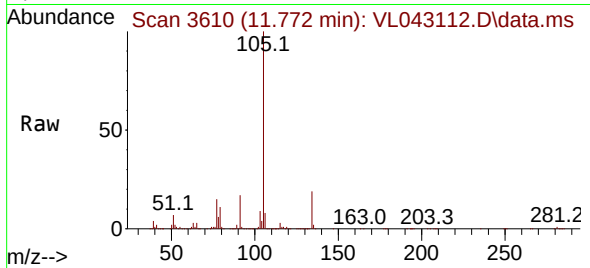
Tgt Ion: 91 Resp: 58169  
Ion Ratio Lower Upper  
91 100  
126 17.2 14.6 22.0  
128 5.8 4.6 6.8





#67  
 sec-Butylbenzene  
 Concen: 8.541 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

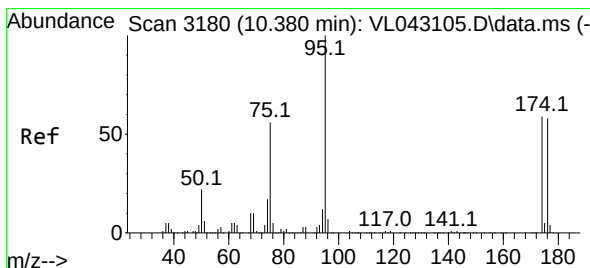
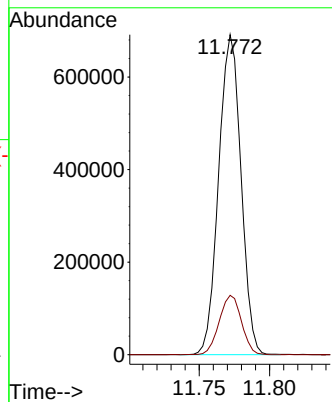
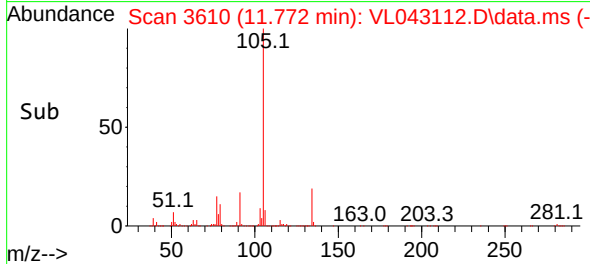
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425



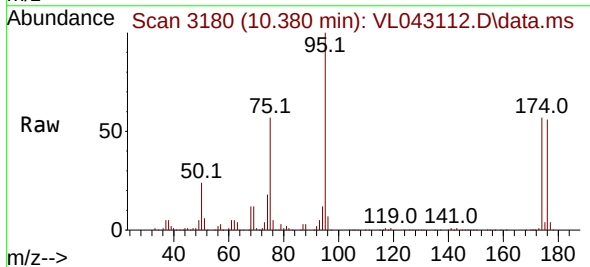
Tgt Ion:105 Resp: 76271  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 15.5 23.3

Manual Integrations  
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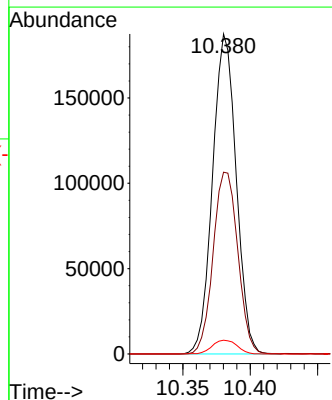
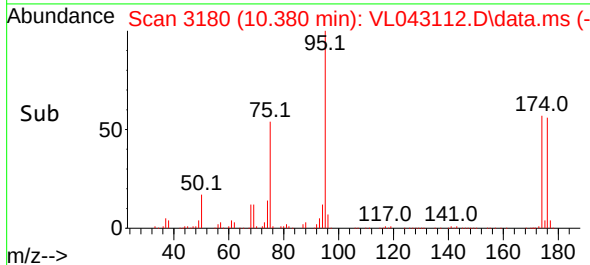
Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025



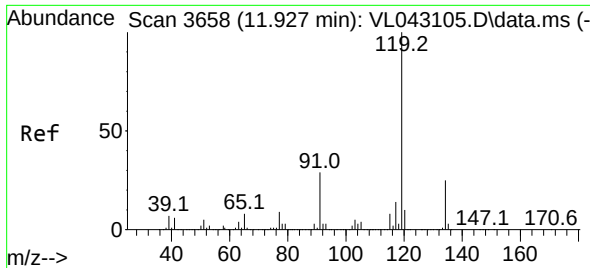
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.101 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51



Tgt Ion: 95 Resp: 229010  
 Ion Ratio Lower Upper  
 95 100  
 174 59.2 48.3 72.5  
 175 4.6 3.8 5.8

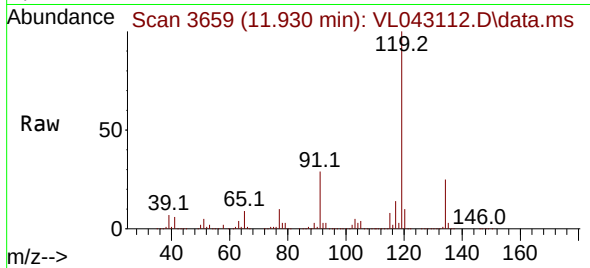






#69  
p-Isopropyltoluene  
Concen: 8.411 ppbv  
RT: 11.930 min Scan# 3659  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

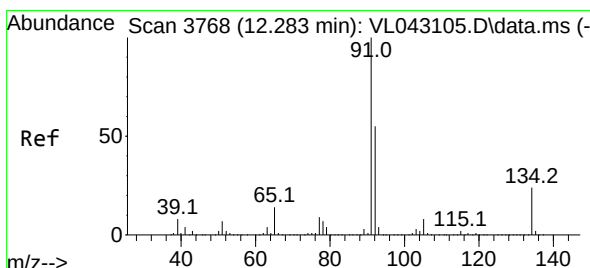
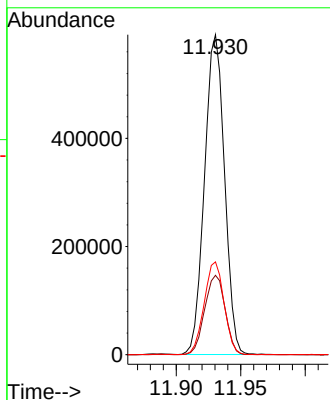
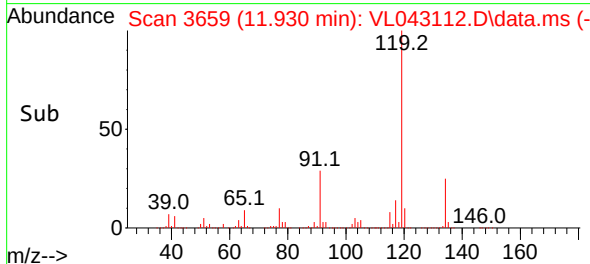
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



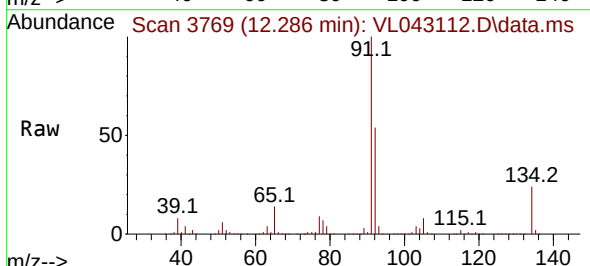
Tgt Ion: 119 Resp: 63826  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 29.0 22.6 33.8

Manual Integrations  
APPROVED

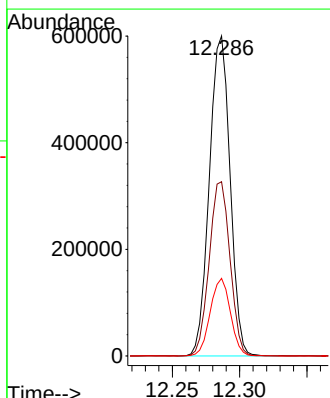
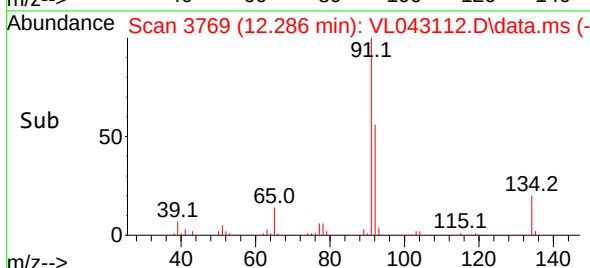
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

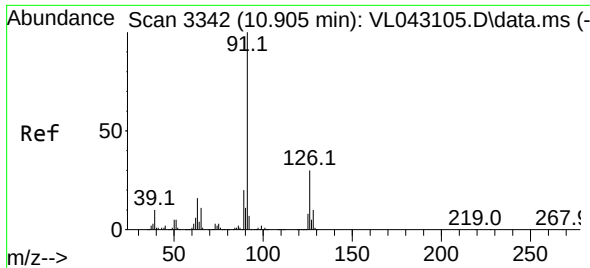


#70  
n-Butylbenzene  
Concen: 8.579 ppbv  
RT: 12.286 min Scan# 3769  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



Tgt Ion: 91 Resp: 641547  
Ion Ratio Lower Upper  
91 100  
92 54.8 44.5 66.7  
134 23.7 19.3 28.9





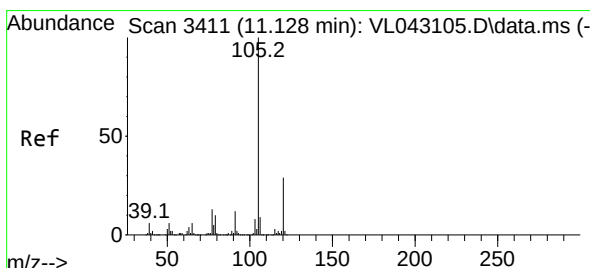
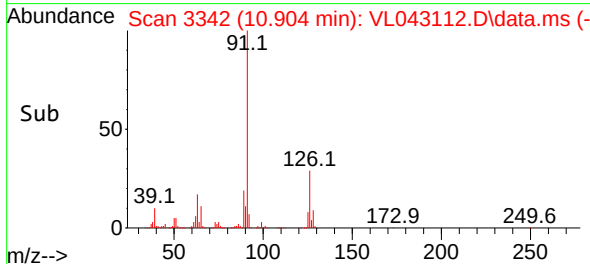
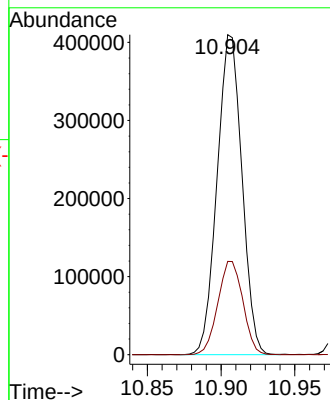
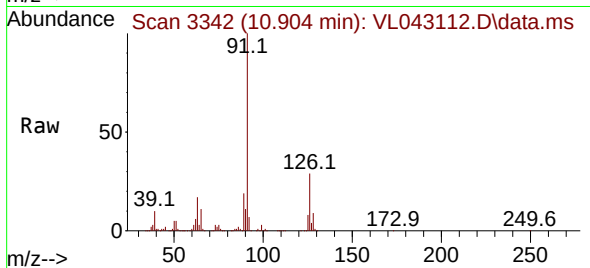
#71  
2-Chlorotoluene  
Concen: 8.828 ppbv  
RT: 10.904 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 91 Resp: 479799  
Ion Ratio Lower Upper  
91 100  
126 29.3 12.0 48.0

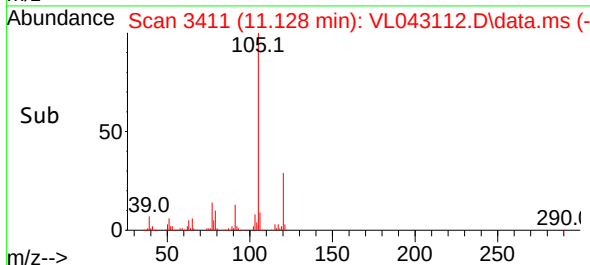
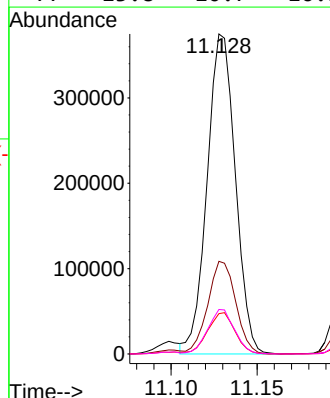
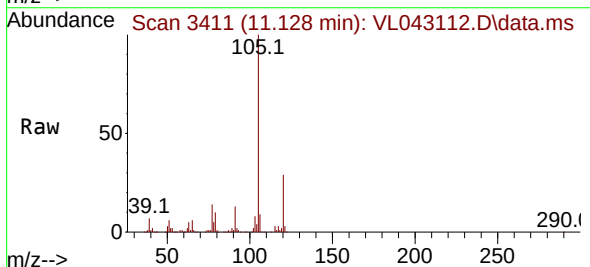
Manual Integrations  
APPROVED

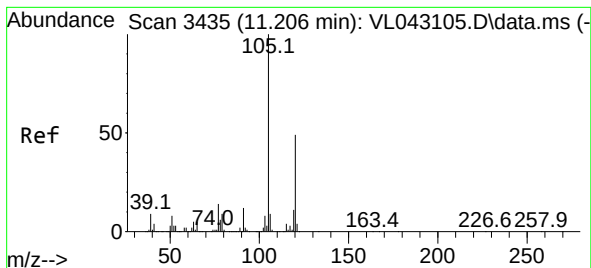
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#72  
4-Ethyltoluene  
Concen: 8.807 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 427034  
Ion Ratio Lower Upper  
105 100  
120 29.8 24.2 36.4  
91 13.1 10.0 15.0  
77 13.8 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 8.874 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101425

Tgt Ion:105 Resp: 35487

Ion Ratio Lower Upper

105 100

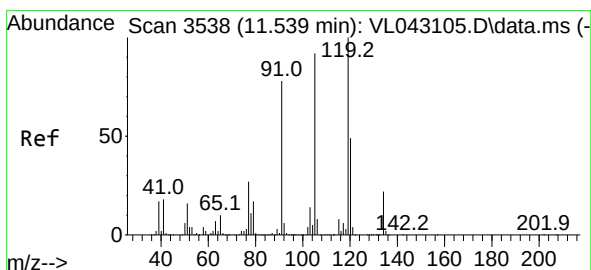
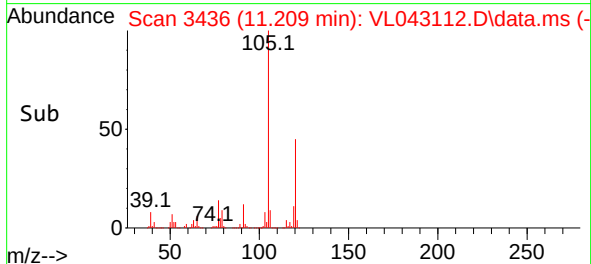
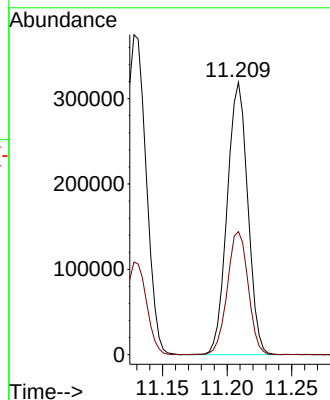
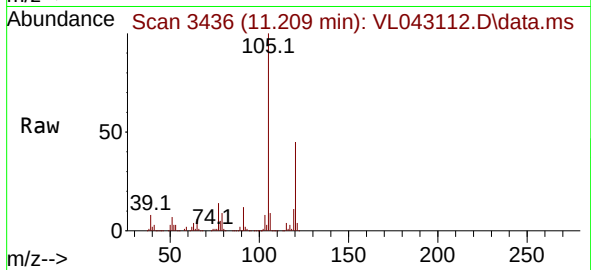
120 45.2 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.324 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506

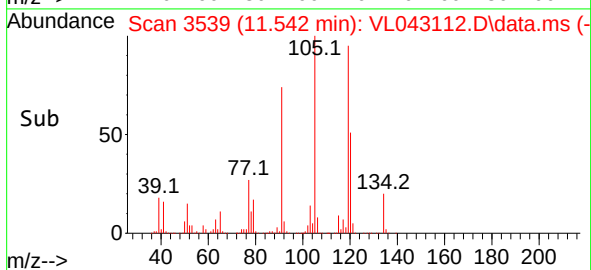
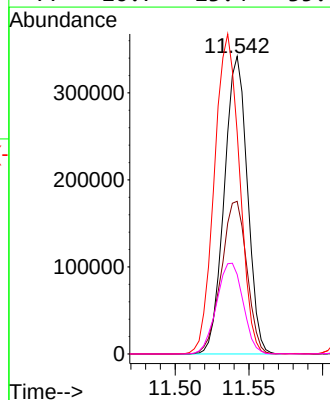
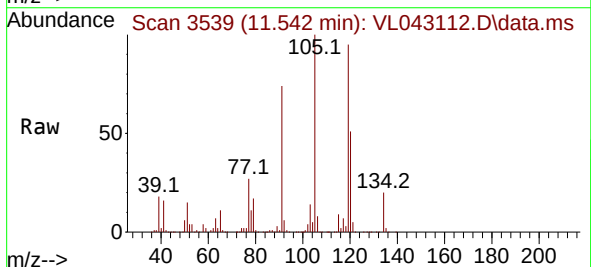
Ion Ratio Lower Upper

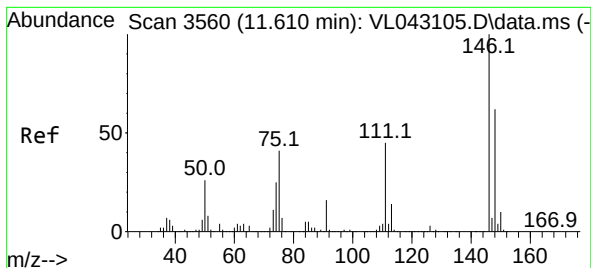
105 100

120 51.3 42.8 64.2

91 74.4 68.3 102.5

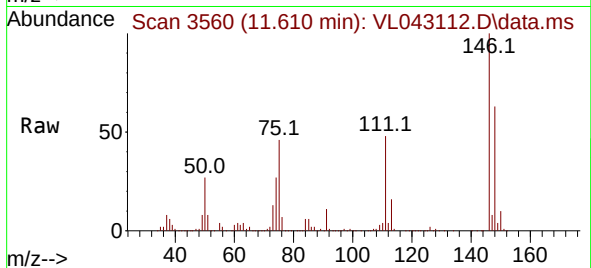
77 26.7 23.4 35.0





#75  
1,3-Dichlorobenzene  
Concen: 8.454 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

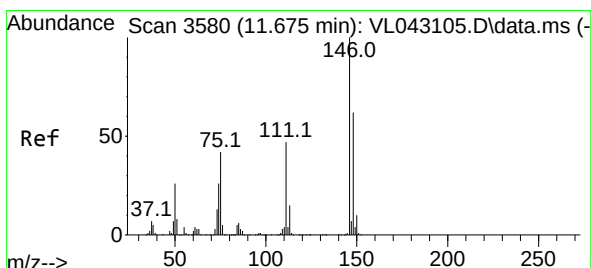
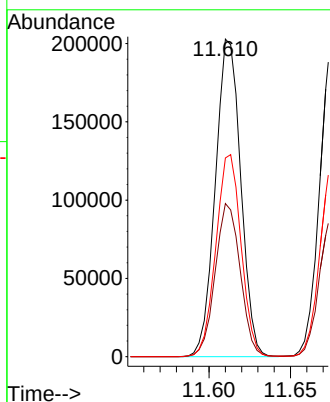
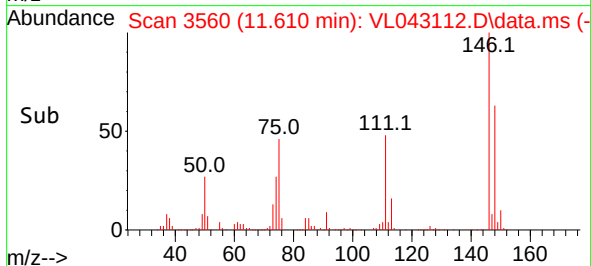
Instrument : MSVOA\_1  
ClientSampleId : ICVVL101425



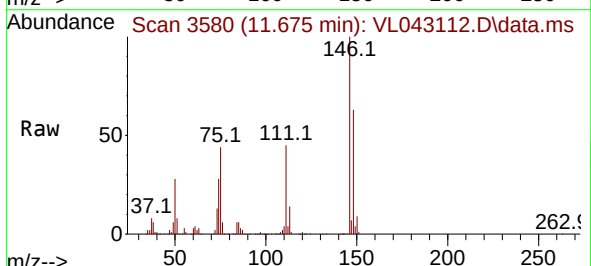
Tgt Ion:146 Resp: 21942  
Ion Ratio Lower Upper  
146 100  
111 47.6 23.3 69.9  
148 63.3 31.6 95.0

Manual Integrations  
APPROVED

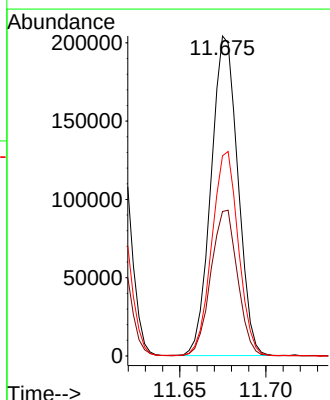
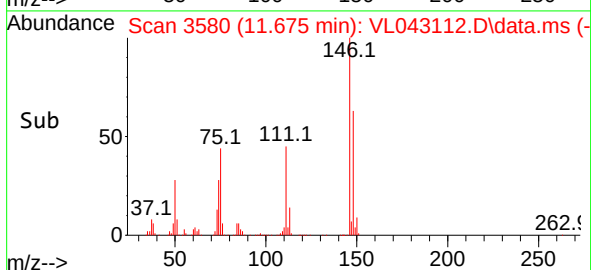
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

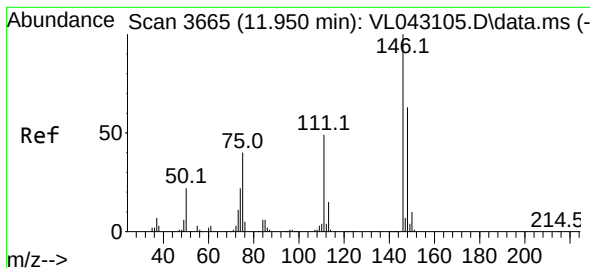


#76  
1,4-Dichlorobenzene  
Concen: 8.458 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



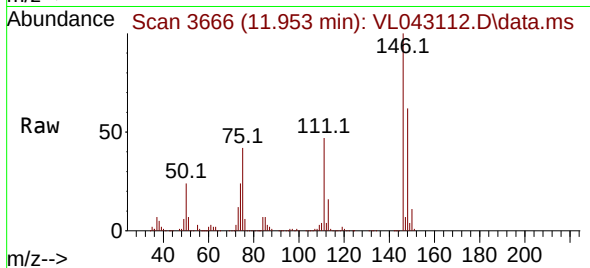
Tgt Ion:146 Resp: 221364  
Ion Ratio Lower Upper  
146 100  
111 45.7 22.4 67.0  
148 63.6 31.6 94.7





#77  
1,2-Dichlorobenzene  
Concen: 8.132 ppbv  
RT: 11.953 min Scan# 3666  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

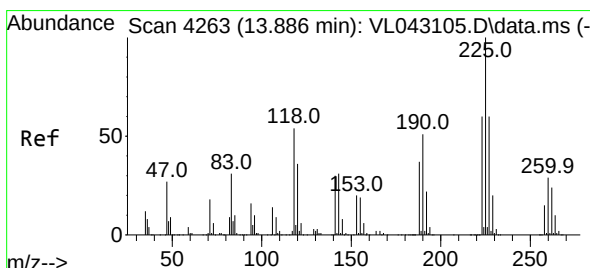
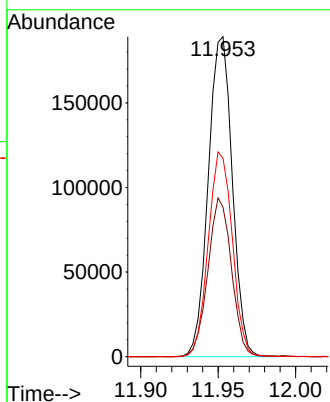
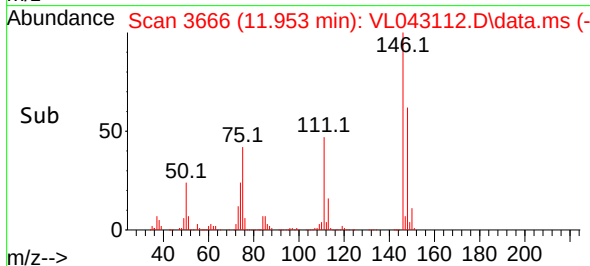
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



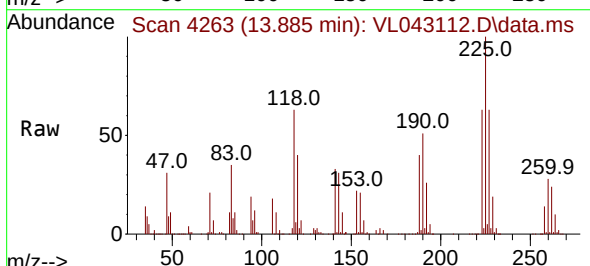
Tgt Ion:146 Resp: 204178  
Ion Ratio Lower Upper  
146 100  
111 48.8 24.0 72.0  
148 64.1 31.1 93.3

Manual Integrations  
APPROVED

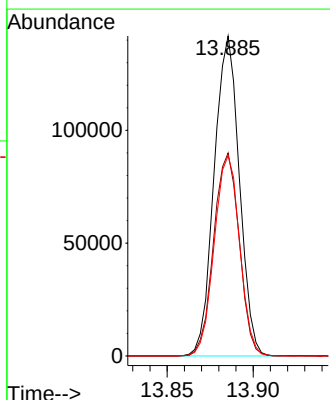
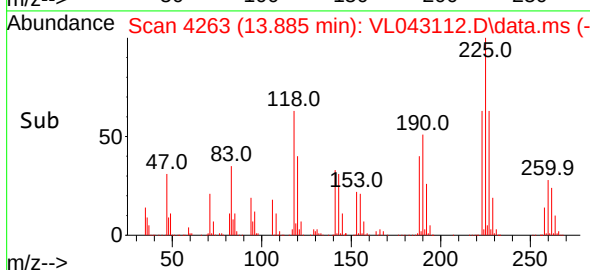
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

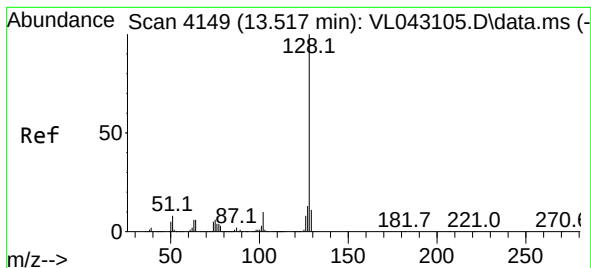


#78  
Hexachloro-1,3-Butadiene  
Concen: 7.440 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



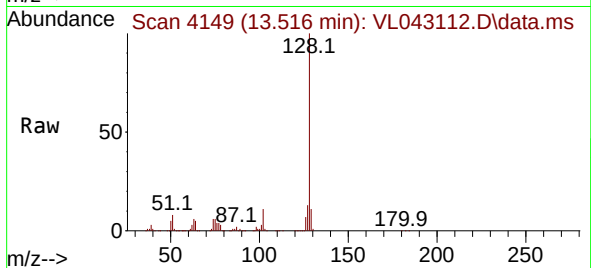
Tgt Ion:225 Resp: 144646  
Ion Ratio Lower Upper  
225 100  
223 64.1 50.2 75.4  
227 62.9 49.6 74.4





#79  
Naphthalene  
Concen: 8.334 ppbv  
RT: 13.516 min Scan# 4149  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

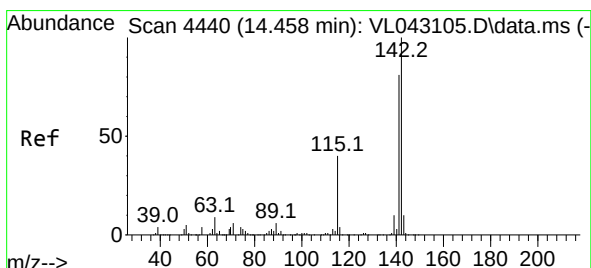
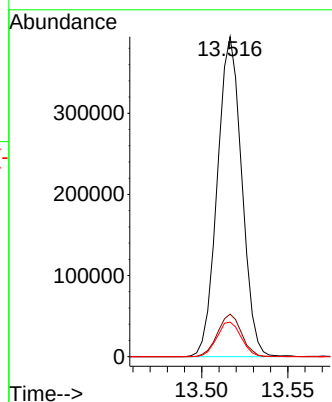
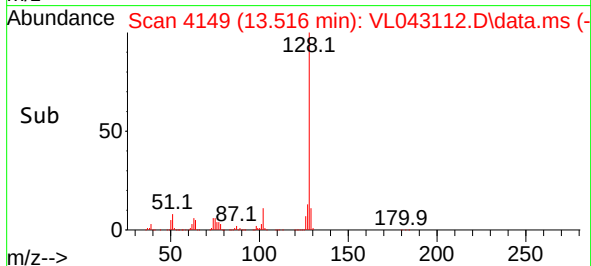
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



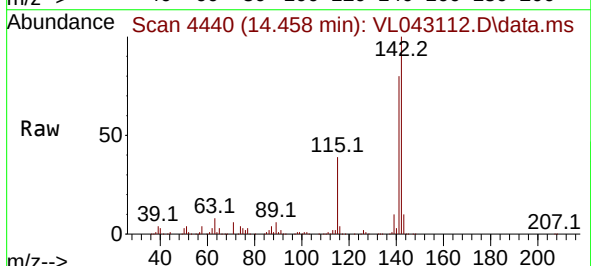
Tgt Ion:128 Resp: 389814  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.5 15.7  
129 10.8 9.1 13.7

Manual Integrations  
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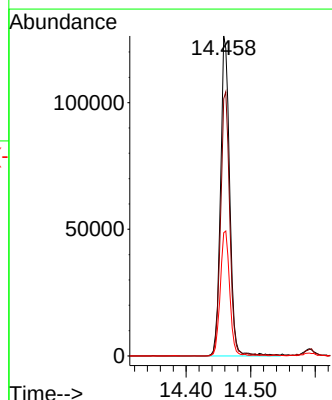
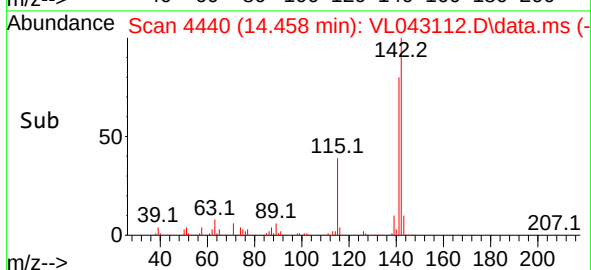
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025

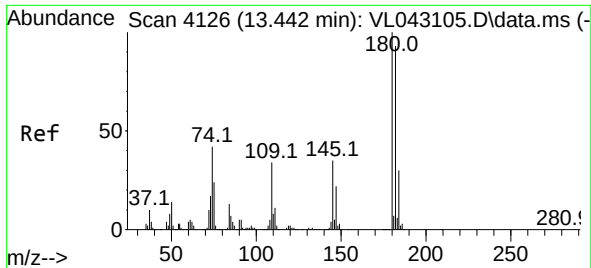


#80  
Naphthalene,2-methyl-  
Concen: 10.146 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51



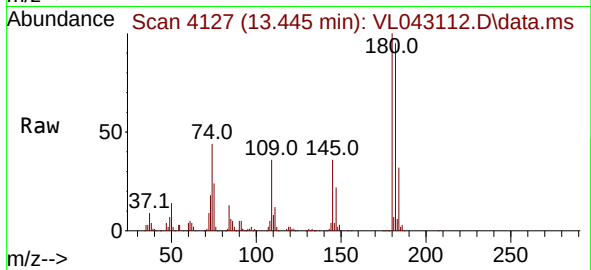
Tgt Ion:142 Resp: 123632  
Ion Ratio Lower Upper  
142 100  
141 83.1 64.6 97.0  
115 40.3 30.2 45.4





#81  
1,2,4-Trichlorobenzene  
Concen: 8.373 ppbv  
RT: 13.445 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

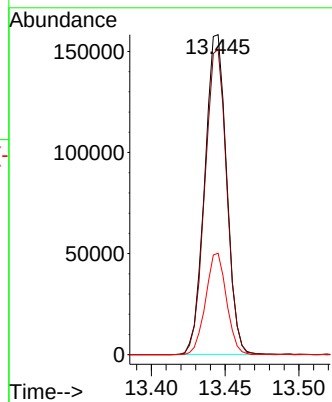
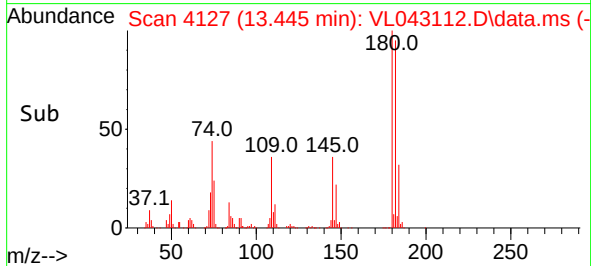
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425



Tgt Ion:180 Resp: 16255  
Ion Ratio Lower Upper  
180 100  
182 96.1 75.5 113.3  
184 30.4 23.9 35.9

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043112.D  
Acq On : 14 Oct 2025 14:51  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Quant Time: Oct 15 02:14:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0  | 94    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.422 | 1.340 | 5.8  | 98    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.538 | 1.424 | 7.4  | 92    | 0.00     |
| 4    | Chloromethane               | 0.563 | 0.499 | 11.4 | 94    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.552 | 0.482 | 12.7 | 94    | 0.00     |
| 6 T  | Bromomethane                | 0.303 | 0.270 | 10.9 | 97    | 0.00     |
| 7    | Chloroethane                | 0.226 | 0.196 | 13.3 | 96    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.149 | 1.098 | 4.4  | 99    | 0.00     |
| 9 T  | Propene                     | 0.682 | 0.608 | 10.9 | 87    | 0.00     |
| 10 T | Heptane                     | 1.964 | 1.695 | 13.7 | 88    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.391 | 1.358 | 2.4  | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.120 | 1.050 | 6.3  | 101   | 0.00     |
| 13   | Ethanol                     | 0.252 | 0.181 | 28.2 | 88    | 0.00     |
| 14 T | Bromoethene                 | 0.416 | 0.388 | 6.7  | 98    | 0.00     |
| 15 T | Acetone                     | 1.348 | 1.107 | 17.9 | 95    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.642 | 0.569 | 11.4 | 97    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.850 | 1.667 | 9.9  | 93    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.488 | 0.477 | 2.3  | 102   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.839 | 0.692 | 17.5 | 90    | 0.00     |
| 20 T | Methylene Chloride          | 0.533 | 0.413 | 22.5 | 96    | 0.00     |
| 21 T | Allyl Chloride              | 0.993 | 0.912 | 8.2  | 94    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.583 | 0.526 | 9.8  | 97    | 0.00     |
| 23 T | Vinyl Acetate               | 1.974 | 1.900 | 3.7  | 110   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.127 | 1.054 | 6.5  | 96    | 0.00     |
| 25 T | Ethyl Acetate               | 3.342 | 2.997 | 10.3 | 90    | 0.00     |
| 26 T | Hexane                      | 1.540 | 1.388 | 9.9  | 93    | 0.00     |
| 27 T | Carbon Disulfide            | 1.411 | 1.343 | 4.8  | 96    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.701 | 0.689 | 1.7  | 110   | 0.00     |
| 29 T | Chloroform                  | 2.232 | 2.100 | 5.9  | 97    | 0.00     |
| 30 T | Cyclohexane                 | 1.344 | 1.223 | 9.0  | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.471 | 1.409 | 4.2  | 94    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.324 | 2.246 | 3.4  | 99    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 95    | 0.00     |
| 34 T | 2-Butanone                  | 0.672 | 0.580 | 13.7 | 91    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.719 | 0.669 | 7.0  | 98    | 0.00     |
| 36 T | Benzene                     | 0.942 | 0.855 | 9.2  | 94    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.543 | 0.497 | 8.5  | 97    | 0.00     |
| 38 T | Trichloroethene             | 0.393 | 0.332 | 15.5 | 93    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.344 | 0.309 | 10.2 | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.154 | 0.127 | 17.5 | 86    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.376 | 0.322 | 14.4 | 89    | 0.00     |
| 42 T | Bromodichloromethane        | 0.751 | 0.701 | 6.7  | 96    | 0.00     |
| 43   | Methyl Methacrylate         | 0.478 | 0.426 | 10.9 | 90    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.589 | 1.389 | 12.6 | 91    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.480 | 0.439 | 8.5  | 91    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.573 | 0.522 | 8.9  | 91    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.372 | 0.335 | 9.9  | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 0.622 | 0.567 | 8.8  | 92    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043112.D  
Acq On : 14 Oct 2025 14:51  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Quant Time: Oct 15 02:14:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|---------------------------|-------|-------|------|-------|----------|
| 49 T | Bromoform                 | 0.505 | 0.454 | 10.1 | 89    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.928 | 0.808 | 12.9 | 88    | 0.00     |
| 51 T | 2-Hexanone                | 0.696 | 0.626 | 10.1 | 86    | 0.00     |
| 52 T | Tetrachloroethene         | 0.340 | 0.295 | 13.2 | 90    | 0.00     |
| 53 T | Toluene                   | 1.118 | 0.998 | 10.7 | 92    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.582 | 0.516 | 11.3 | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 94    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.630 | 0.569 | 9.7  | 91    | 0.00     |
| 57 T | Chlorobenzene             | 0.936 | 0.820 | 12.4 | 91    | 0.00     |
| 58 T | Ethyl Benzene             | 1.716 | 1.543 | 10.1 | 91    | 0.00     |
| 59 T | m/p-Xylene                | 1.369 | 1.226 | 10.4 | 93    | 0.02     |
| 60 T | o-Xylene                  | 1.352 | 1.194 | 11.7 | 92    | 0.00     |
| 61 T | Styrene                   | 0.610 | 0.555 | 9.0  | 91    | 0.00     |
| 62   | Isopropylbenzene          | 2.443 | 2.132 | 12.7 | 90    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.905 | 0.740 | 18.2 | 90    | 0.00     |
| 64   | n-propylbenzene           | 0.647 | 0.550 | 15.0 | 88    | 0.00     |
| 65   | tert-Butylbenzene         | 2.157 | 1.826 | 15.3 | 91    | 0.00     |
| 66 T | Benzyl Chloride           | 0.240 | 0.199 | 17.1 | 78    | 0.00     |
| 67   | sec-Butylbenzene          | 3.062 | 2.615 | 14.6 | 91    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.777 | 0.785 | -1.0 | 95    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.602 | 2.188 | 15.9 | 89    | 0.00     |
| 70   | n-Butylbenzene            | 2.564 | 2.200 | 14.2 | 89    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.863 | 1.645 | 11.7 | 91    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.662 | 1.464 | 11.9 | 90    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.371 | 1.217 | 11.2 | 91    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.534 | 1.277 | 16.8 | 90    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.890 | 0.752 | 15.5 | 87    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.897 | 0.759 | 15.4 | 87    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.861 | 0.700 | 18.7 | 86    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.667 | 0.496 | 25.6 | 84    | 0.00     |
| 79 T | Naphthalene               | 1.604 | 1.336 | 16.7 | 80    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.418 | 0.424 | -1.4 | 84    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.666 | 0.557 | 16.4 | 82    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043112.D  
Acq On : 14 Oct 2025 14:51  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Quant Time: Oct 15 02:14:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0  | 94    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.425  | 5.7  | 98    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.260  | 7.4  | 92    | 0.00     |
| 4    | Chloromethane               | 10.000 | 8.867  | 11.3 | 94    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.722  | 12.8 | 94    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 8.901  | 11.0 | 97    | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.685  | 13.1 | 96    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.558  | 4.4  | 99    | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.908  | 10.9 | 87    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.629  | 13.7 | 88    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.762  | 2.4  | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.380  | 6.2  | 101   | 0.00     |
| 13   | Ethanol                     | 10.000 | 7.173  | 28.3 | 88    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.324  | 6.8  | 98    | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.214  | 17.9 | 95    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.855  | 11.4 | 97    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 9.012  | 9.9  | 93    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.774  | 2.3  | 102   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.248  | 17.5 | 90    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.757  | 22.4 | 96    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.181  | 8.2  | 94    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.011  | 9.9  | 97    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.621  | 3.8  | 110   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.355  | 6.4  | 96    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 8.966  | 10.3 | 90    | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.015  | 9.8  | 93    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.520  | 4.8  | 96    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.839  | 1.6  | 110   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.412  | 5.9  | 97    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.096  | 9.0  | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.580  | 4.2  | 94    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.666  | 3.3  | 99    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0  | 95    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 8.624  | 13.8 | 91    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.298  | 7.0  | 98    | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.077  | 9.2  | 94    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.156  | 8.4  | 97    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 8.453  | 15.5 | 93    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 8.971  | 10.3 | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.265  | 17.3 | 86    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 8.553  | 14.5 | 89    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.336  | 6.6  | 96    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 8.898  | 11.0 | 90    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 8.738  | 12.6 | 91    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 9.146  | 8.5  | 91    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 9.106  | 8.9  | 91    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.000  | 10.0 | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 9.127  | 8.7  | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043112.D  
Acq On : 14 Oct 2025 14:51  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Quant Time: Oct 15 02:14:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|---------------------------|--------|--------|------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 8.980  | 10.2 | 89    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 8.709  | 12.9 | 88    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 8.999  | 10.0 | 86    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 8.681  | 13.2 | 90    | 0.00     |
| 53 T | Toluene                   | 10.000 | 8.928  | 10.7 | 92    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 8.856  | 11.4 | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0  | 94    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.031  | 9.7  | 91    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 8.770  | 12.3 | 91    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 8.990  | 10.1 | 91    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 17.913 | 10.4 | 93    | 0.02     |
| 60 T | o-Xylene                  | 10.000 | 8.834  | 11.7 | 92    | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.099  | 9.0  | 91    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 8.726  | 12.7 | 90    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.177  | 18.2 | 90    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 8.503  | 15.0 | 88    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 8.464  | 15.4 | 91    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 8.306  | 16.9 | 78    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 8.541  | 14.6 | 91    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.101 | -1.0 | 95    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 8.411  | 15.9 | 89    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 8.579  | 14.2 | 89    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 8.828  | 11.7 | 91    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 8.807  | 11.9 | 90    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 8.874  | 11.3 | 91    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 8.324  | 16.8 | 90    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 8.454  | 15.5 | 87    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 8.458  | 15.4 | 87    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 8.132  | 18.7 | 86    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 7.440  | 25.6 | 84    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 8.334  | 16.7 | 80    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 10.146 | -1.5 | 84    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 8.373  | 16.3 | 82    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                              |
|---------------------|-------------------|------------------------|------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>RTPE01</u>                |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3556</u>                 |
| Instrument ID:      | <u>MSVOA_L</u>    | Calibration Date/Time: | <u>11/06/2025 07:19</u>      |
| Lab File ID:        | <u>VL043155.D</u> | Init. Calib. Date(s):  | <u>10/14/2025 10/14/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>10:31 14:18</u>           |
| GC Column:          | <u>RTX-1</u>      | ID:                    | <u>0.32</u> (mm)             |

| COMPOUND                       | RRF   | RRF010 | MIN RRF | %D     | MAX%D |
|--------------------------------|-------|--------|---------|--------|-------|
| Dichlorodifluoromethane        | 1.422 | 1.540  |         | 8.3    | 30    |
| Chloromethane                  | 0.563 | 0.511  |         | -9.24  | 30    |
| Vinyl Chloride                 | 0.552 | 0.514  |         | -6.88  | 30    |
| Bromomethane                   | 0.303 | 0.317  |         | 4.62   | 30    |
| Chloroethane                   | 0.226 | 0.206  |         | -8.85  | 30    |
| Tetrahydrofuran                | 0.376 | 0.348  |         | -7.45  | 30    |
| Trichlorofluoromethane         | 1.391 | 1.658  |         | 19.19  | 30    |
| 1,1,2-Trichlorotrifluoroethane | 1.120 | 1.290  |         | 15.18  | 30    |
| Dichlorotetrafluoroethane      | 1.149 | 1.236  |         | 7.57   | 30    |
| tert-Butyl alcohol             | 1.850 | 1.830  |         | -1.08  | 30    |
| Heptane                        | 1.964 | 1.685  |         | -14.21 | 30    |
| 1,1-Dichloroethene             | 0.488 | 0.538  |         | 10.25  | 30    |
| Acetone                        | 1.348 | 1.223  |         | -9.27  | 30    |
| Carbon Disulfide               | 1.411 | 1.508  |         | 6.88   | 30    |
| Methyl tert-Butyl Ether        | 0.701 | 0.712  |         | 1.57   | 30    |
| Methylene Chloride             | 0.533 | 0.467  |         | -12.38 | 30    |
| trans-1,2-Dichloroethene       | 0.583 | 0.623  |         | 6.86   | 30    |
| 1,1-Dichloroethane             | 1.127 | 1.188  |         | 5.41   | 30    |
| Cyclohexane                    | 1.344 | 1.256  |         | -6.55  | 30    |
| 2-Butanone                     | 0.672 | 0.688  |         | 2.38   | 30    |
| Carbon Tetrachloride           | 0.719 | 0.852  |         | 18.5   | 30    |
| cis-1,2-Dichloroethene         | 1.471 | 1.509  |         | 2.58   | 30    |
| Chloroform                     | 2.232 | 2.437  |         | 9.19   | 30    |
| 1,1,1-Trichloroethane          | 2.324 | 2.520  |         | 8.43   | 30    |
| 2,2,4-Trimethylpentane         | 1.589 | 1.566  |         | -1.45  | 30    |
| Benzene                        | 0.942 | 0.956  |         | 1.49   | 30    |
| 1,2-Dichloroethane             | 0.543 | 0.624  |         | 14.92  | 30    |
| Trichloroethene                | 0.393 | 0.379  |         | -3.56  | 30    |
| 1,2-Dichloropropane            | 0.344 | 0.343  |         | -0.29  | 30    |
| Bromodichloromethane           | 0.751 | 0.853  |         | 13.58  | 30    |
| 4-Methyl-2-Pentanone           | 0.928 | 0.866  |         | -6.68  | 30    |
| Toluene                        | 1.118 | 1.096  |         | -1.97  | 30    |
| t-1,3-Dichloropropene          | 0.480 | 0.492  |         | 2.5    | 30    |
| cis-1,3-Dichloropropene        | 0.573 | 0.578  |         | 0.87   | 30    |
| 1,1,2-Trichloroethane          | 0.372 | 0.382  |         | 2.69   | 30    |
| Dibromochloromethane           | 0.622 | 0.699  |         | 12.38  | 30    |
| 1,2-Dibromoethane              | 0.582 | 0.602  |         | 3.44   | 30    |
| Tetrachloroethene              | 0.340 | 0.353  |         | 3.82   | 30    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                                     |
|---------------------|-------------------|------------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>RTPE01</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3556</u>                        |
| Instrument ID:      | <u>MSVOA_L</u>    | Calibration Date/Time: | <u>11/06/2025</u> <u>07:19</u>      |
| Lab File ID:        | <u>VL043155.D</u> | Init. Calib. Date(s):  | <u>10/14/2025</u> <u>10/14/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>10:31</u> <u>14:18</u>           |
| GC Column:          | <u>RTX-1</u>      | ID:                    | <u>0.32</u> (mm)                    |

| COMPOUND                  | RRF     | RRF010  | MIN<br>RRF | %D     | MAX%D |
|---------------------------|---------|---------|------------|--------|-------|
| Chlorobenzene             | 0.936   | 0.957   |            | 2.24   | 30    |
| Ethyl Benzene             | 1.716   | 1.761   |            | 2.62   | 30    |
| m/p-Xylene                | 1.369   | 1.442   |            | 5.33   | 30    |
| o-Xylene                  | 1.352   | 1.428   |            | 5.62   | 30    |
| Styrene                   | 0.610   | 0.601   |            | -1.48  | 30    |
| Bromoform                 | 0.505   | 0.603   |            | 19.41  | 30    |
| 1,1,2,2-Tetrachloroethane | 0.905   | 0.913   |            | 0.88   | 30    |
| 2-Chlorotoluene           | 1.863   | 1.949   |            | 4.62   | 30    |
| 1,3,5-Trimethylbenzene    | 1.371   | 1.463   |            | 6.71   | 30    |
| 1,2,4-Trimethylbenzene    | 1.534   | 1.599   |            | 4.24   | 30    |
| 1,3-Dichlorobenzene       | 0.890   | 0.974   |            | 9.44   | 30    |
| 1,4-Dichlorobenzene       | 0.897   | 0.976   |            | 8.81   | 30    |
| 1,2-Dichlorobenzene       | 0.861   | 0.919   |            | 6.74   | 30    |
| 1,2,4-Trichlorobenzene    | 0.666   | 0.715   |            | 7.36   | 30    |
| Hexachloro-1,3-Butadiene  | 0.667   | 0.694   |            | 4.05   | 30    |
| 1,3-Butadiene             | 0.642   | 0.564   |            | -12.15 | 30    |
| Naphthalene               | 1.604   | 1.622   |            | 1.12   | 30    |
| 4-Ethyltoluene            | 1.662   | 1.778   |            | 6.98   | 30    |
| 1-Bromo-4-Fluorobenzene   | 0.777   | 0.822   |            | 5.79   | 30    |
| Hexane                    | 1.540   | 1.464   |            | -4.93  | 30    |
| Allyl Chloride            | 0.993   | 0.925   |            | -6.85  | 30    |
| 1,4-Dioxane               | 154.080 | 147.512 |            | -4.26  | 30    |
| Methyl Methacrylate       | 0.478   | 0.460   |            | -3.77  | 30    |

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\_L\Data\VL110625\  
 Data File : VL043155.D  
 Acq On : 06 Nov 2025 07:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
 Supervised By : Mahesh Dadoda 11/10/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.790  | 49    | 111679   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 341877   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 299829   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 246332   | 10.570   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 105.700% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 171973   | 10.832   | ppbv       | 97       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 173652   | 10.109   | ppbv       | 96       |
| 4) Chloromethane              | 1.534  | 50    | 57078    | 9.075    | ppbv       | 97       |
| 5) Vinyl Chloride             | 1.583  | 62    | 57398    | 9.304    | ppbv       | 98       |
| 6) Bromomethane               | 1.670  | 94    | 35458    | 10.482   | ppbv       | 99       |
| 7) Chloroethane               | 1.706  | 64    | 23010    | 9.123    | ppbv       | 96       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 137989   | 10.753   | ppbv       | 91       |
| 9) Propene                    | 1.486  | 41    | 63768    | 8.370    | ppbv       | 99       |
| 10) Heptane                   | 4.985  | 43    | 188172   | 8.579    | ppbv       | 97       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 185190   | 11.925   | ppbv       | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 144020   | 11.519   | ppbv       | 99       |
| 13) Ethanol                   | 1.722  | 45    | 20822    | 7.389    | ppbv       | 98       |
| 14) Bromoethene               | 1.784  | 108   | 49929    | 10.750   | ppbv       | 99       |
| 15) Acetone                   | 1.835  | 43    | 136553   | 9.072    | ppbv       | 100      |
| 16) 1,3-Butadiene             | 1.612  | 39    | 63019    | 8.785    | ppbv       | 99       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 204329   | 9.889    | ppbv       | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 60122    | 11.030   | ppbv       | 93       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 81900    | 8.736    | ppbv       | 93       |
| 20) Methylene Chloride        | 2.065  | 84    | 52206    | 8.774    | ppbv       | 96       |
| 21) Allyl Chloride            | 2.098  | 41    | 103255   | 9.309    | ppbv       | 92       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 69627    | 10.686   | ppbv       | 96       |
| 23) Vinyl Acetate             | 2.463  | 43    | 236500   | 10.726   | ppbv       | 98       |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 132624   | 10.535   | ppbv       | 99       |
| 25) Ethyl Acetate             | 2.836  | 43    | 352821   | 9.452    | ppbv       | 99       |
| 26) Hexane                    | 2.829  | 57    | 163545   | 9.508    | ppbv       | 97       |
| 27) Carbon Disulfide          | 2.153  | 76    | 168378   | 10.684   | ppbv       | 98       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 79492    | 10.158   | ppbv       | 94       |
| 29) Chloroform                | 2.852  | 83    | 272134   | 10.919   | ppbv       | 100      |
| 30) Cyclohexane               | 3.862  | 84    | 140232   | 9.341    | ppbv       | 93       |
| 31) cis-1,2-Dichloroethene    | 2.725  | 61    | 168571   | 10.263   | ppbv       | 98       |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 281440   | 10.844   | ppbv       | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 235359   | 10.242   | ppbv       | 98       |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 291148   | 11.845   | ppbv       | 99       |
| 36) Benzene                   | 3.661  | 78    | 326769   | 10.148   | ppbv       | 96       |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 213185   | 11.493   | ppbv       | 98       |
| 38) Trichloroethene           | 4.554  | 130   | 129566   | 9.635    | ppbv       | 94       |
| 39) 1,2-Dichloropropane       | 4.318  | 63    | 117127   | 9.950    | ppbv       | 95       |
| 40) 1,4-Dioxane               | 4.580  | 88    | 50431    | 9.574    | ppbv       | # 96     |
| 41) Tetrahydrofuran           | 3.056  | 42    | 119118   | 9.267    | ppbv       | 97       |
| 42) Bromodichloromethane      | 4.496  | 83    | 291618   | 11.359   | ppbv       | 100      |
| 43) Methyl Methacrylate       | 4.884  | 69    | 157399   | 9.624    | ppbv       | 97       |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57    | 535251   | 9.853    | ppbv       | 99       |
| 45) t-1,3-Dichloropropene     | 6.418  | 75    | 168113   | 10.243   | ppbv       | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043155.D  
 Acq On : 06 Nov 2025 07:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
 Supervised By : Mahesh Dadoda 11/10/2025

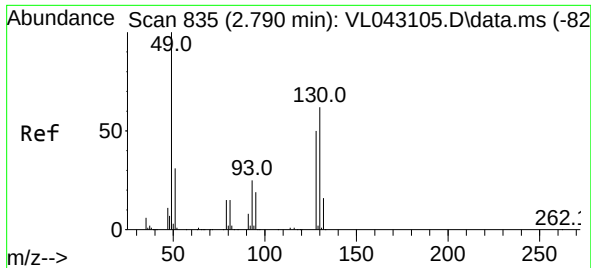
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 197738   | 10.086 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 130602   | 10.274 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.389  | 129  | 238917   | 11.241 | ppbv   | 98       |
| 49) Bromoform                 | 9.487  | 173  | 206162   | 11.933 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 295948   | 9.331  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 225625   | 9.485  | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.231  | 164  | 120713   | 10.396 | ppbv   | 98       |
| 53) Toluene                   | 6.936  | 91   | 374714   | 9.805  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 205679   | 10.330 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 216010   | 11.429 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.924  | 112  | 286894   | 10.228 | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.357  | 91   | 527991   | 10.261 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.555  | 91   | 864452m  | 21.062 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 428248   | 10.565 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 180052   | 9.839  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 773742   | 10.564 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 273835   | 10.089 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 202414   | 10.438 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 664024   | 10.266 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.620 | 91   | 66651    | 9.258  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 948023   | 10.327 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 798570   | 10.237 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.283 | 91   | 800217   | 10.410 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 584421   | 10.461 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 532971   | 10.693 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 438651   | 10.671 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 479281   | 10.419 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 291949   | 10.943 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 292491   | 10.872 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 275403   | 10.670 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 208179   | 10.417 | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 486229   | 10.113 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 137059   | 10.942 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 214527   | 10.750 | ppbv   | 98       |

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



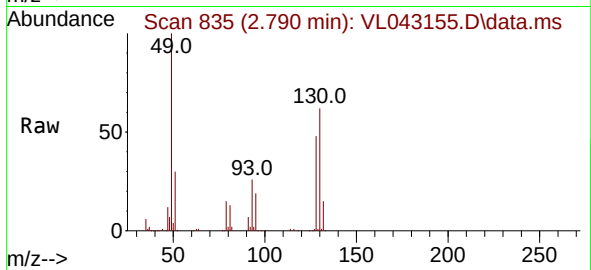






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Bromochloromethane  
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RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

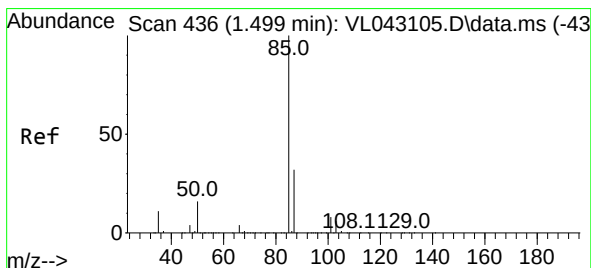
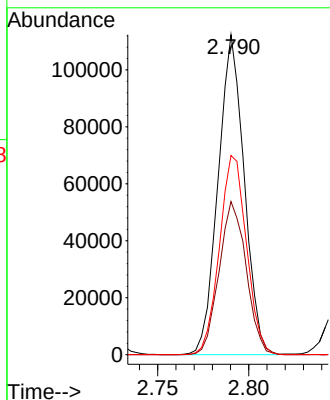
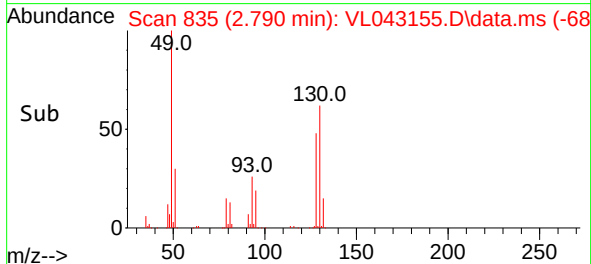
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



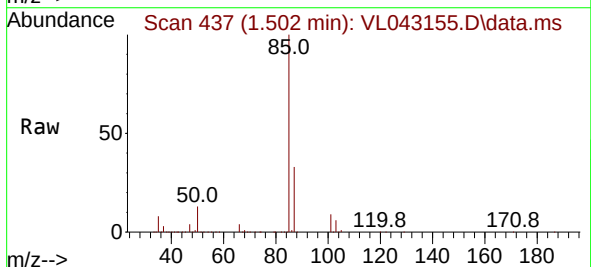
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Ion Ratio Lower Upper  
49 100  
128 49.7 24.4 73.4  
130 64.6 31.0 93.0

Manual Integrations  
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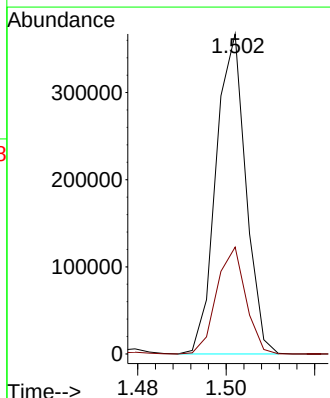
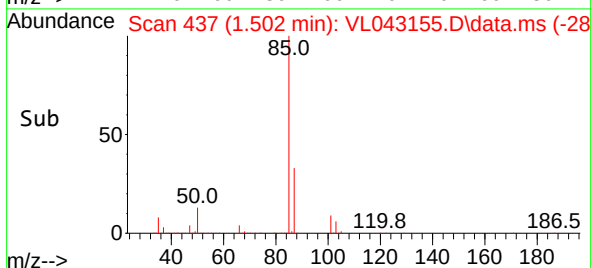
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

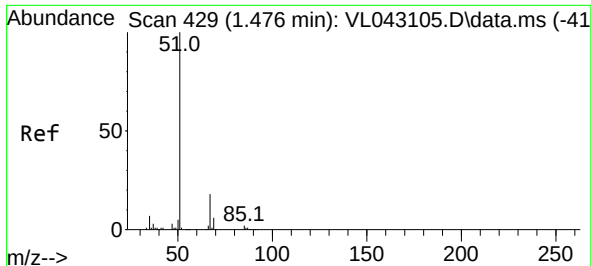


#2  
Dichlorodifluoromethane  
Concen: 10.832 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion: 85 Resp: 171973  
Ion Ratio Lower Upper  
85 100  
87 33.4 25.3 37.9





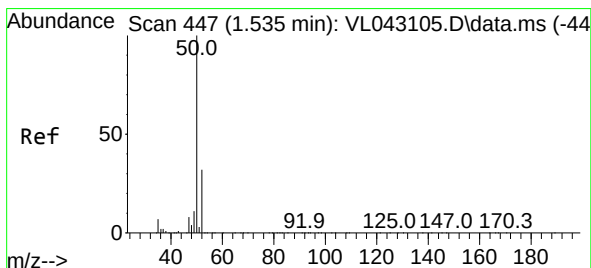
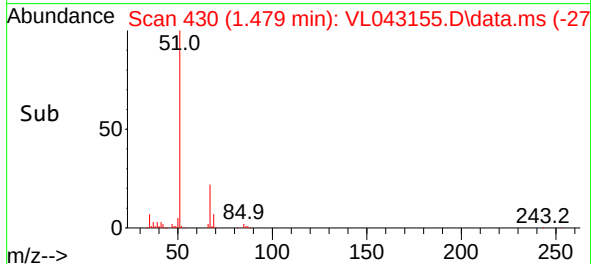
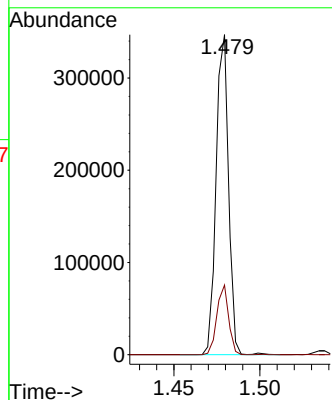
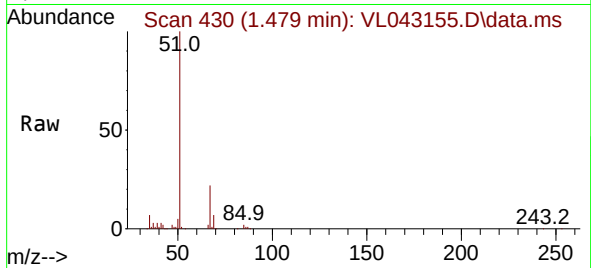
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Chlorodifluoromethane  
Concen: 10.109 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDC0010

Tgt Ion: 51 Resp: 173652  
Ion Ratio Lower Upper  
51 100  
67 20.7 15.1 22.7

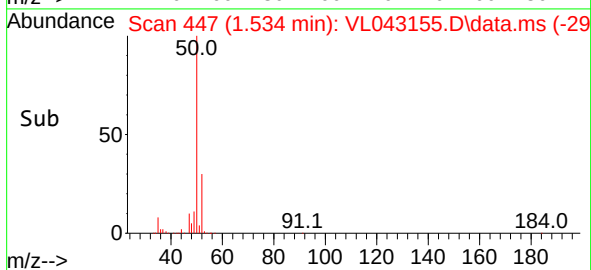
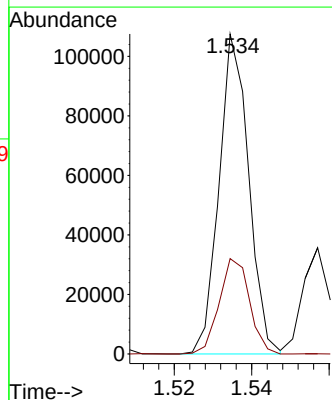
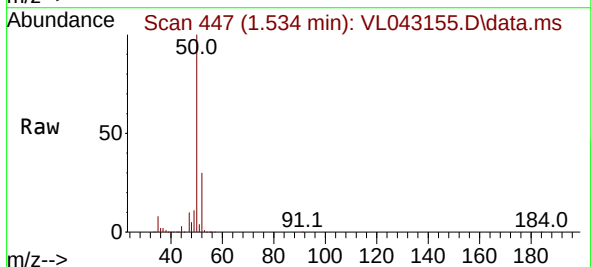
Manual Integrations  
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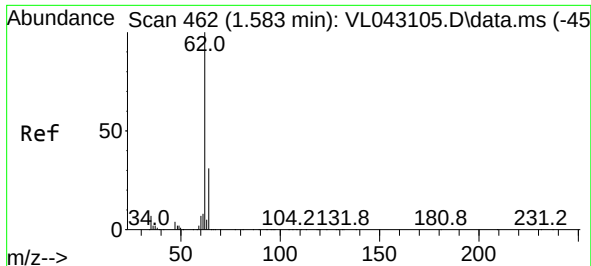
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#4  
Chloromethane  
Concen: 9.075 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

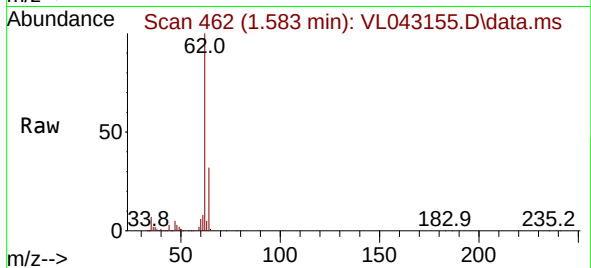
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Ion Ratio Lower Upper  
50 100  
52 29.8 25.2 37.8





#5  
 Vinyl Chloride  
 Concen: 9.304 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

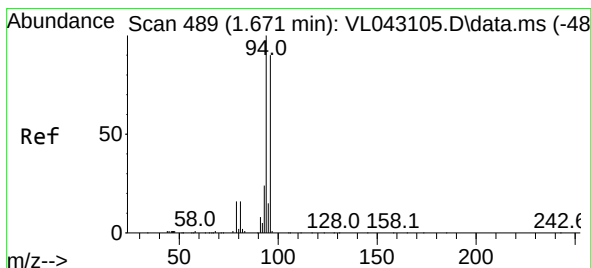
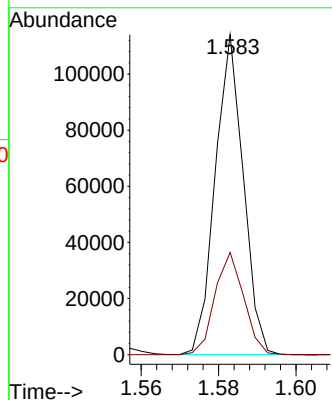
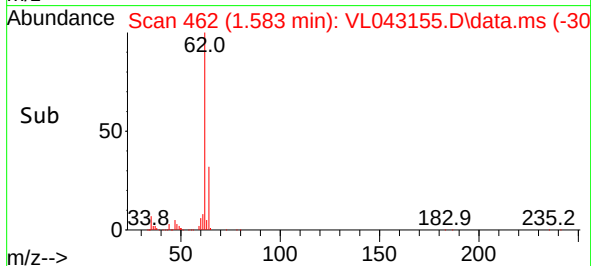
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



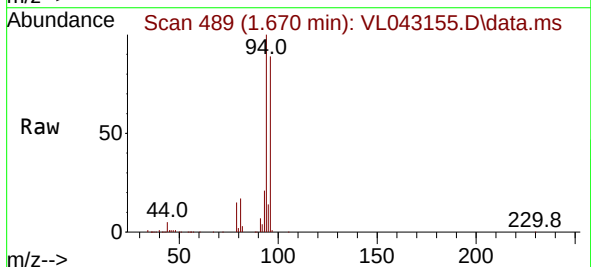
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 Ion Ratio Lower Upper  
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 64 32.0 24.6 36.8

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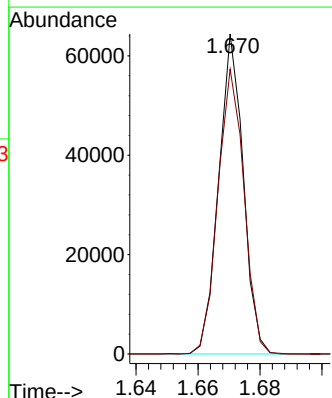
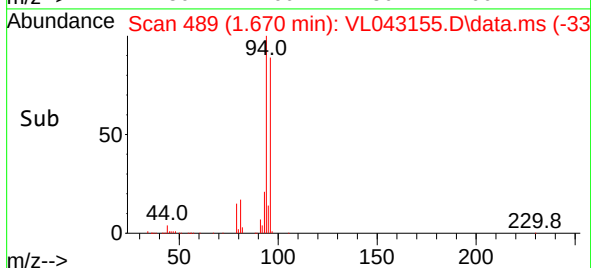
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

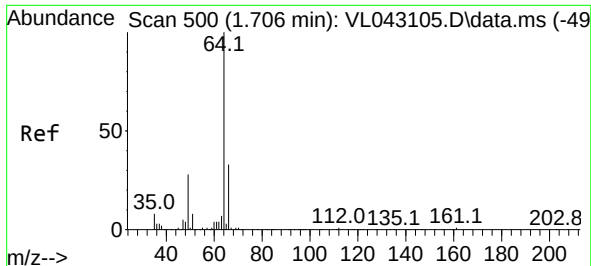


#6  
 Bromomethane  
 Concen: 10.482 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19



Tgt Ion: 94 Resp: 35458  
 Ion Ratio Lower Upper  
 94 100  
 96 89.0 72.2 108.4





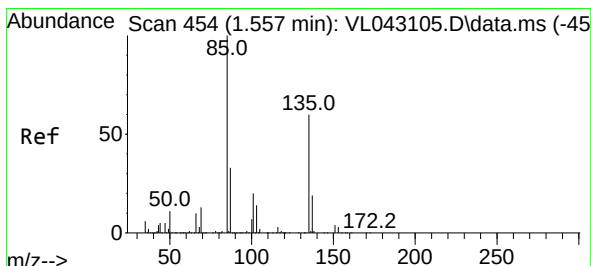
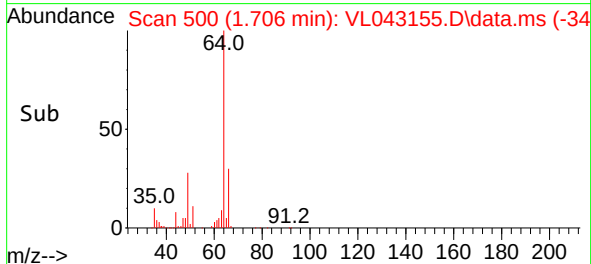
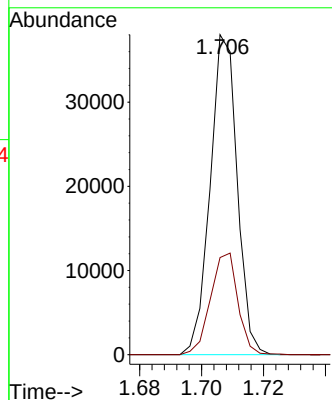
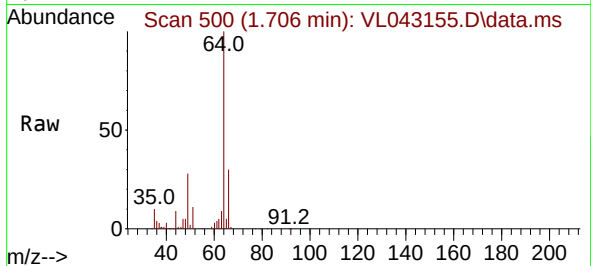
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Chloroethane  
Concen: 9.123 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010

Tgt Ion: 64 Resp: 23010  
Ion Ratio Lower Upper  
64 100  
66 30.4 26.0 39.0

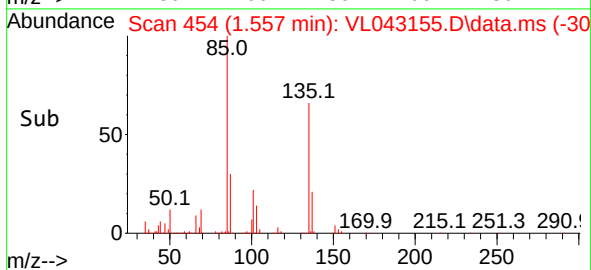
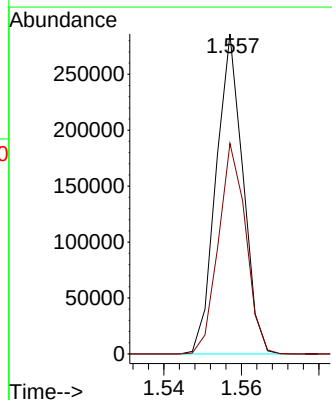
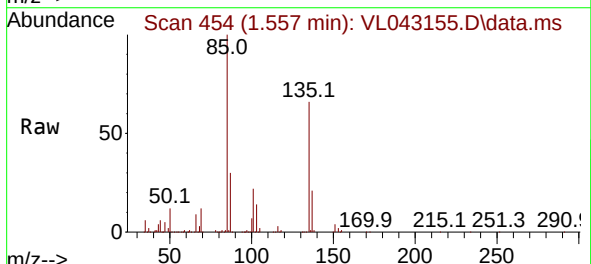
Manual Integrations  
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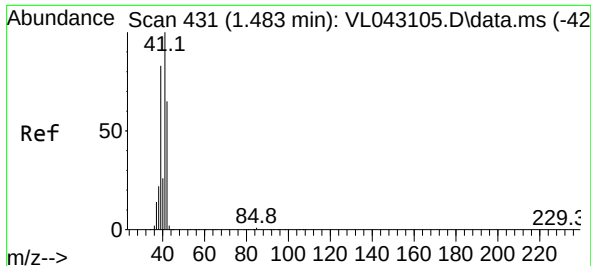
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#8  
Dichlorotetrafluoroethane  
Concen: 10.753 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 85 Resp: 137989  
Ion Ratio Lower Upper  
85 100  
135 67.0 48.2 72.4





#9

Propene

Concen: 8.370 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 6376

Ion Ratio Lower Upper

41 100

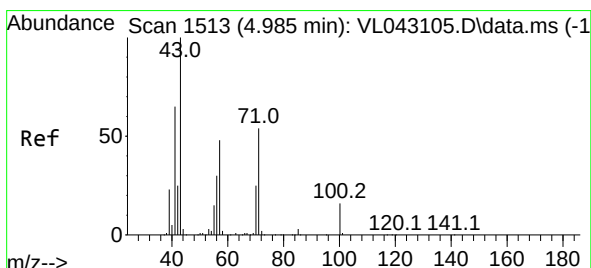
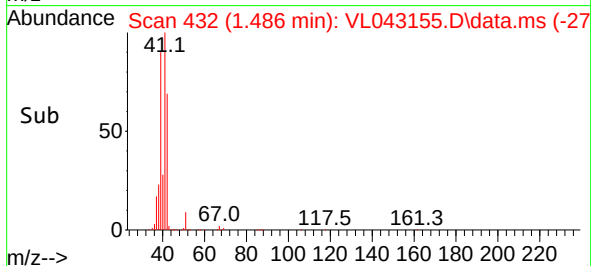
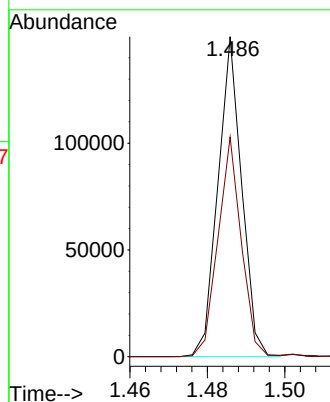
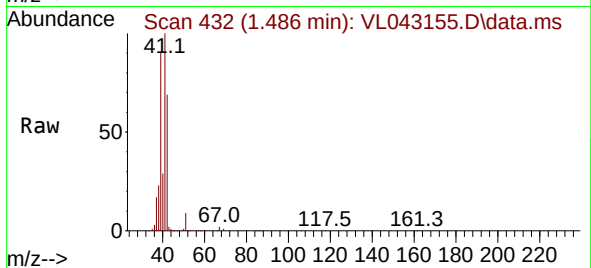
42 68.3 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#10

Heptane

Concen: 8.579 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043155.D

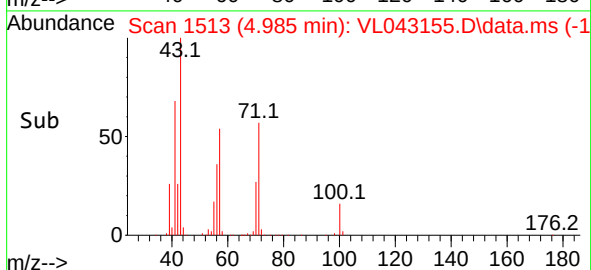
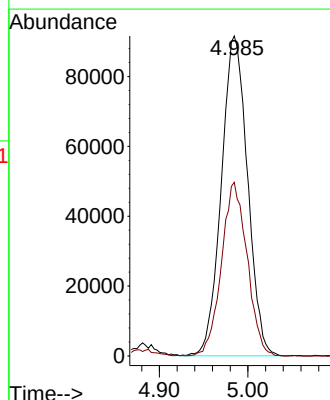
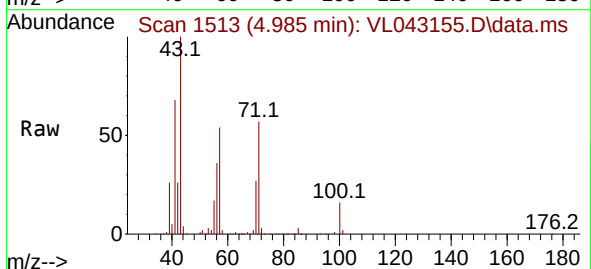
Acq: 06 Nov 2025 07:19

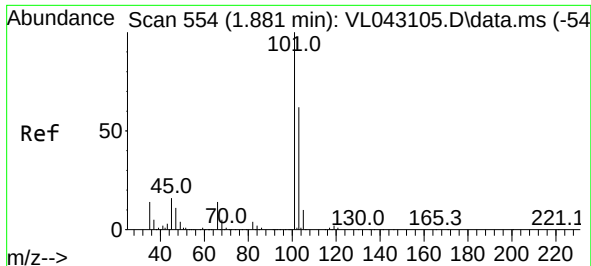
Tgt Ion: 43 Resp: 188172

Ion Ratio Lower Upper

43 100

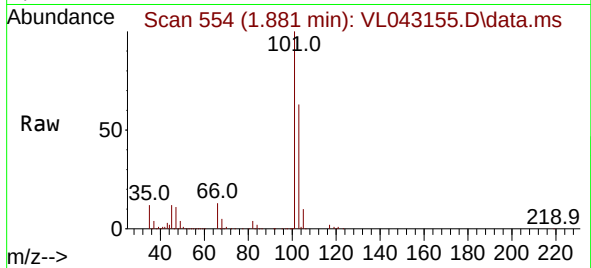
57 53.2 40.8 61.2





#11  
Trichlorofluoromethane  
Concen: 11.925 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

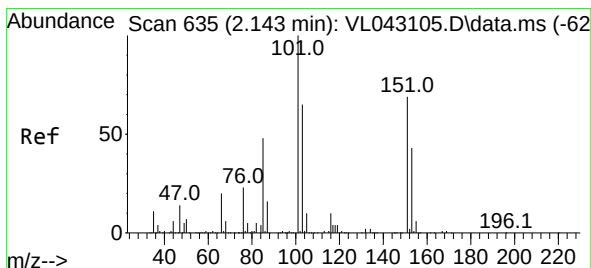
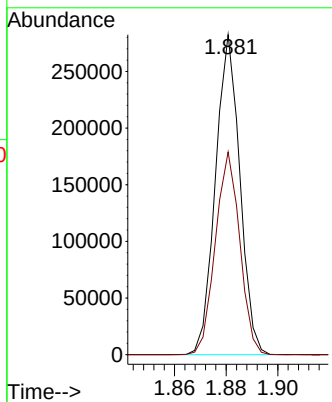
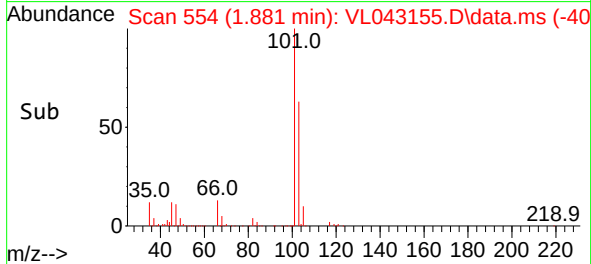
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



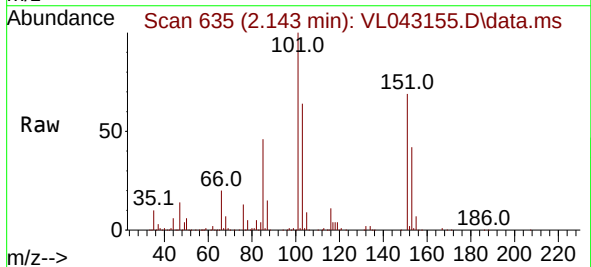
Tgt Ion:101 Resp: 185190  
Ion Ratio Lower Upper  
101 100  
103 63.3 49.3 73.9

Manual Integrations  
APPROVED

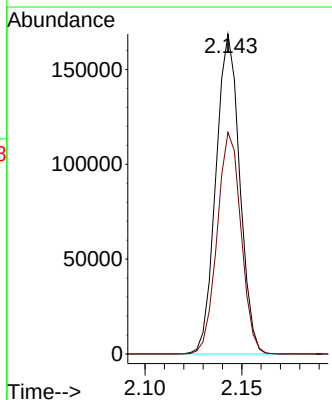
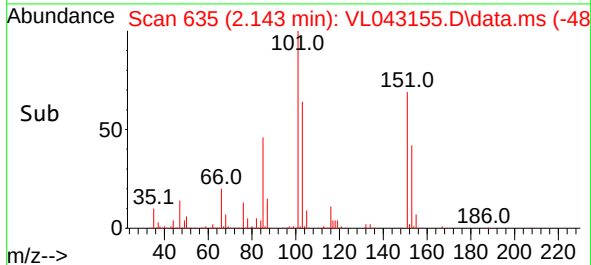
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

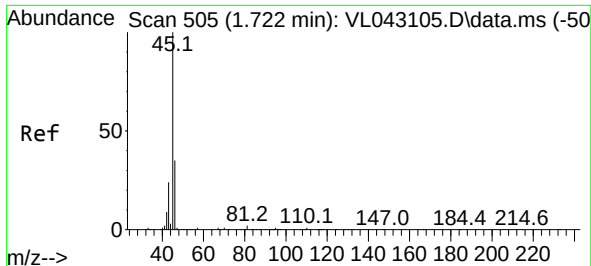


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 11.519 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



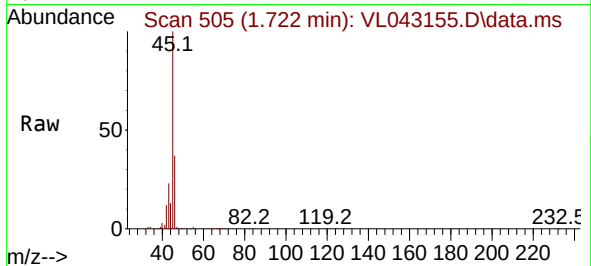
Tgt Ion:101 Resp: 144020  
Ion Ratio Lower Upper  
101 100  
151 69.5 54.7 82.1





#13  
Ethanol  
Concen: 7.389 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

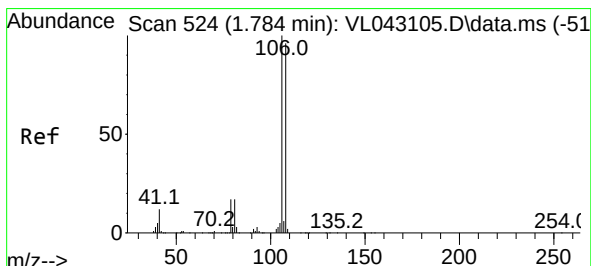
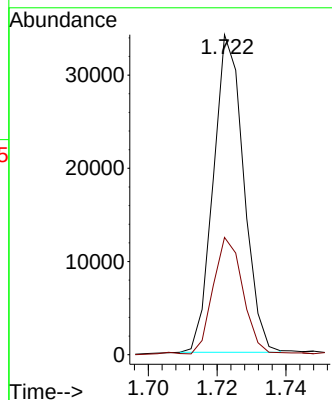
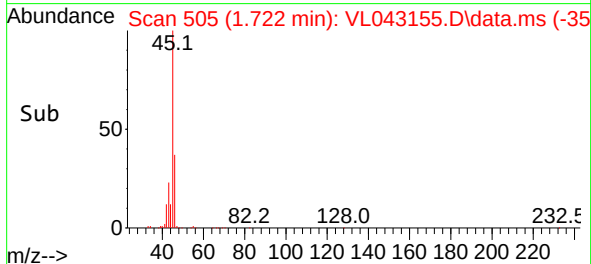
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



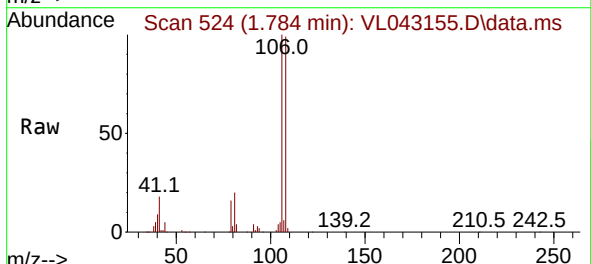
Tgt Ion: 45 Resp: 2082  
Ion Ratio Lower Upper  
45 100  
46 38.0 14.7 58.9

Manual Integrations  
APPROVED

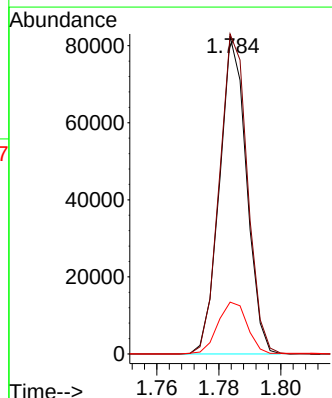
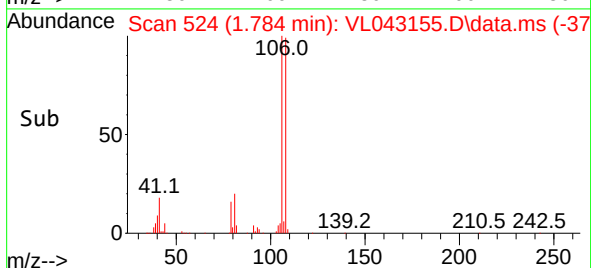
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

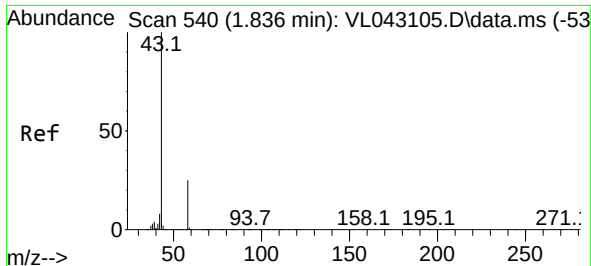


#14  
Bromoethene  
Concen: 10.750 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



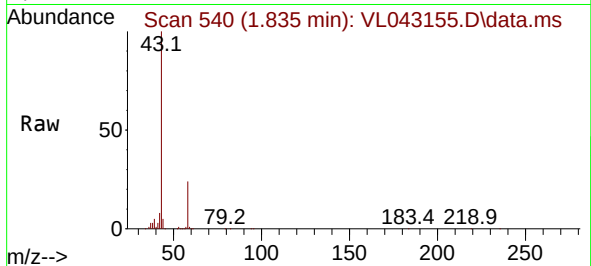
Tgt Ion:108 Resp: 49929  
Ion Ratio Lower Upper  
108 100  
106 104.4 84.4 126.6  
79 18.3 15.3 22.9





#15  
Acetone  
Concen: 9.072 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

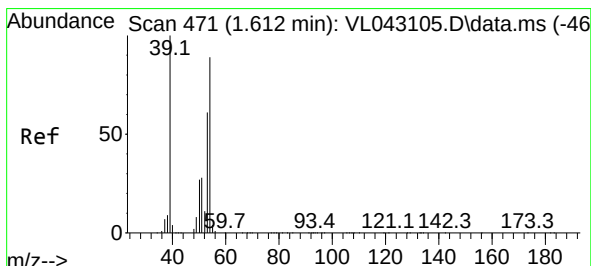
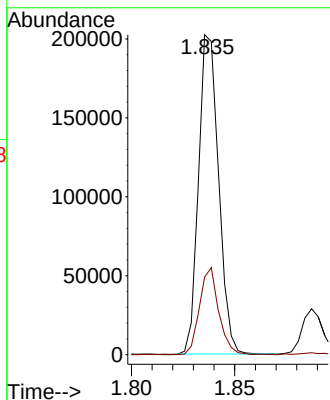
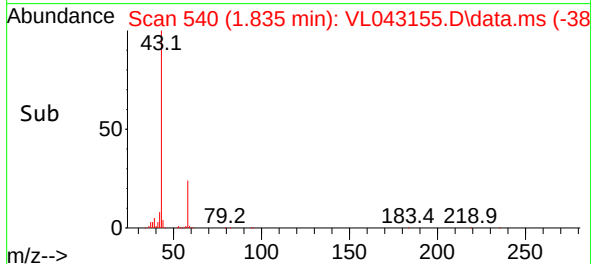
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



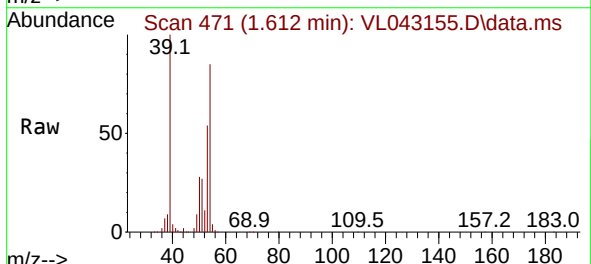
Tgt Ion: 43 Resp: 13655  
Ion Ratio Lower Upper  
43 100  
58 26.2 20.8 31.2

Manual Integrations  
APPROVED

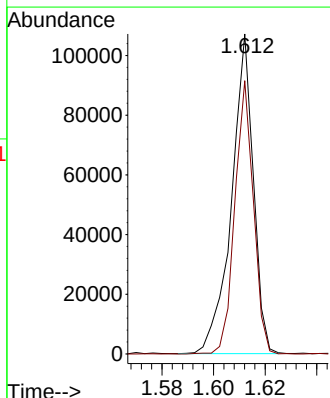
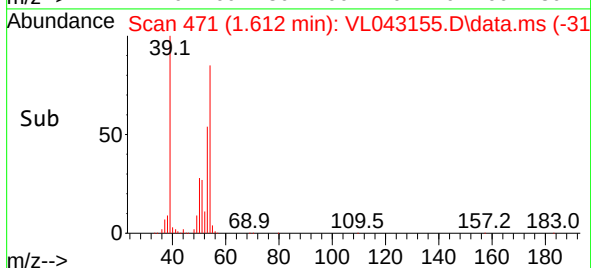
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



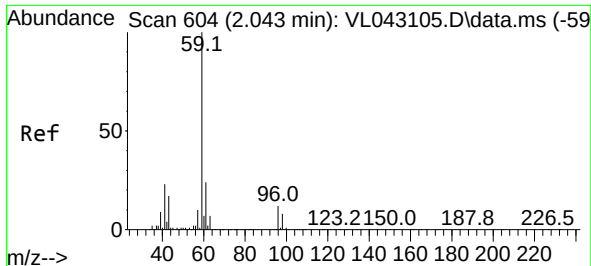
#16  
1,3-Butadiene  
Concen: 8.785 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion: 39 Resp: 63019  
Ion Ratio Lower Upper  
39 100  
54 72.9 59.0 88.4







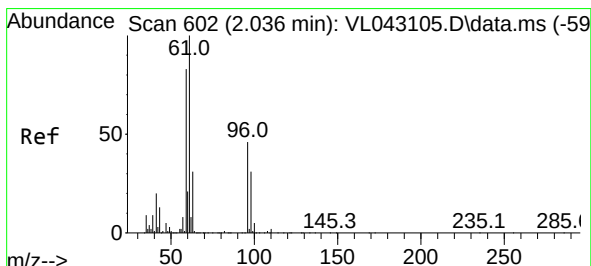
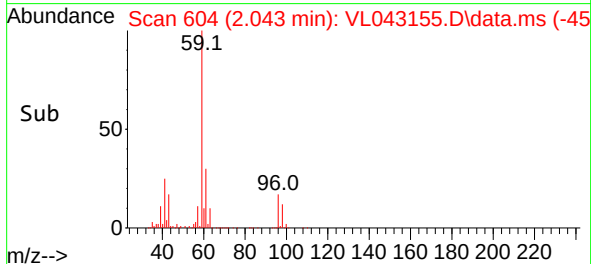
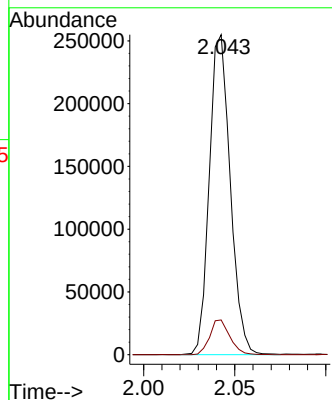
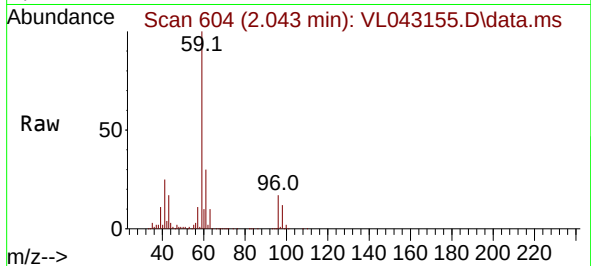
#17  
tert-Butyl alcohol  
Concen: 9.889 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDC0010

Tgt Ion: 59 Resp: 204329  
Ion Ratio Lower Upper  
59 100  
57 10.4 8.2 12.4

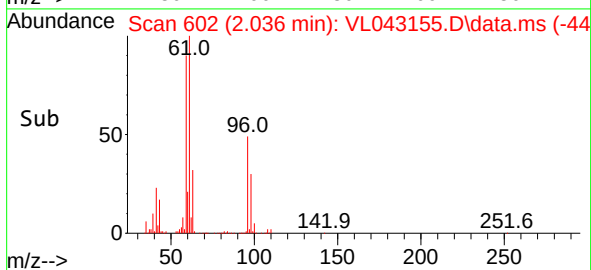
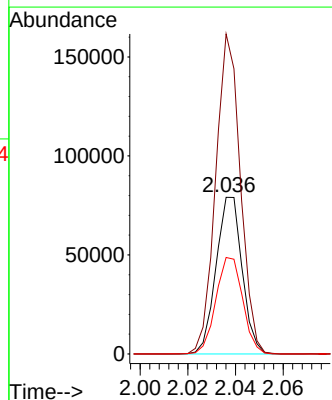
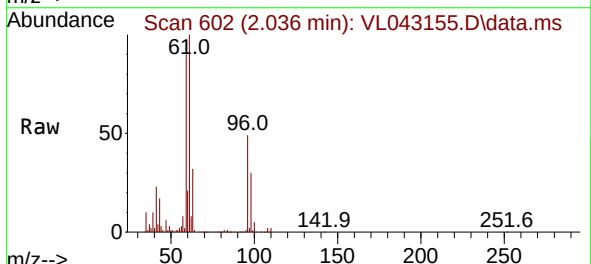
Manual Integrations  
APPROVED

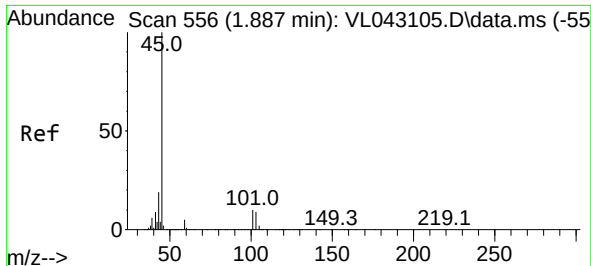
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#18  
1,1-Dichloroethene  
Concen: 11.030 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

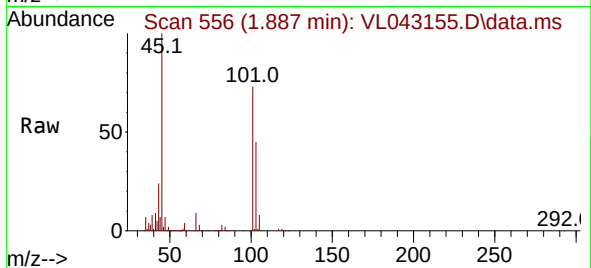
Tgt Ion: 96 Resp: 60122  
Ion Ratio Lower Upper  
96 100  
61 204.3 173.4 260.0  
98 61.6 53.2 79.8





#19  
Isopropyl Alcohol  
Concen: 8.736 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

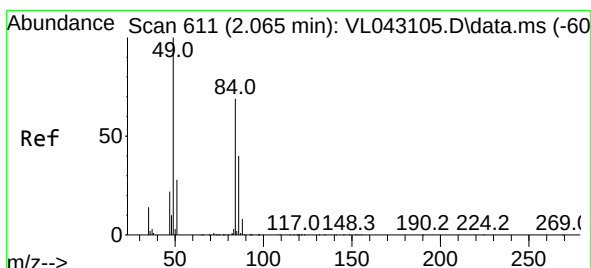
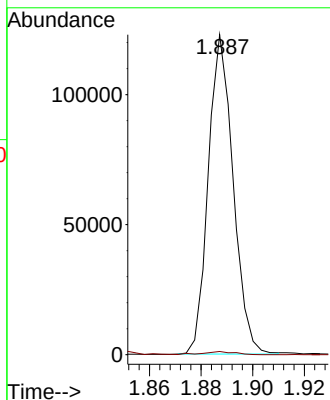
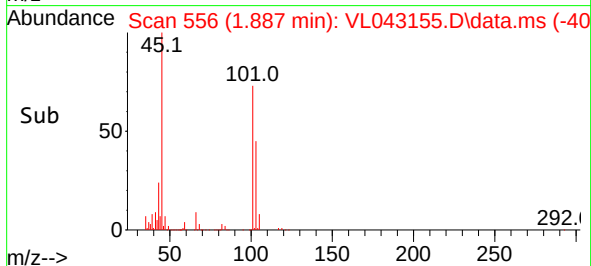
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



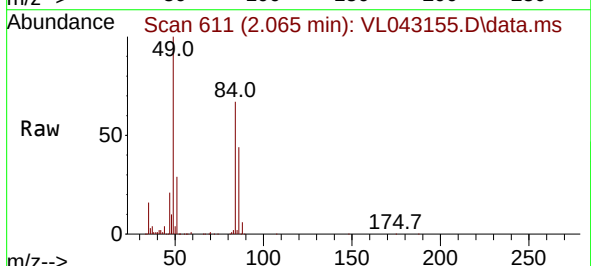
Tgt Ion: 45 Resp: 81900  
Ion Ratio Lower Upper  
45 100  
58 43.6 31.3 46.9

Manual Integrations  
APPROVED

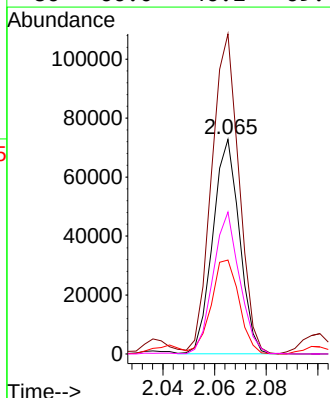
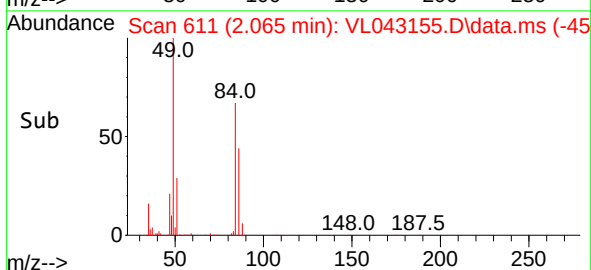
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

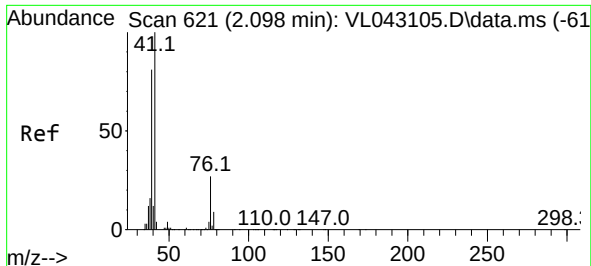


#20  
Methylene Chloride  
Concen: 8.774 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion: 84 Resp: 52206  
Ion Ratio Lower Upper  
84 100  
49 149.2 116.6 175.0  
51 43.7 34.8 52.2  
86 66.0 46.2 69.4





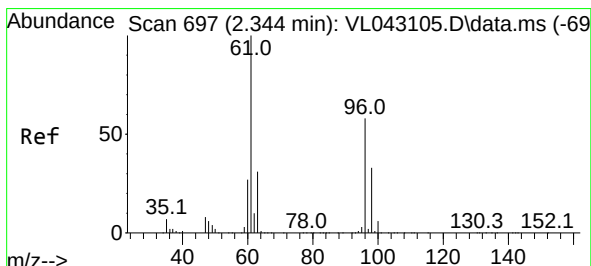
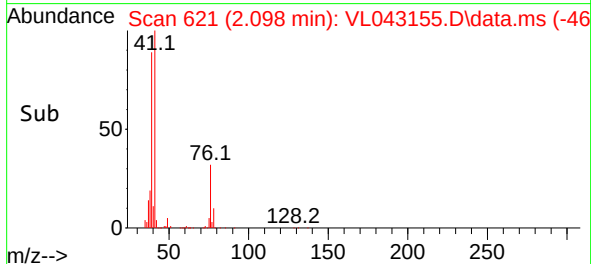
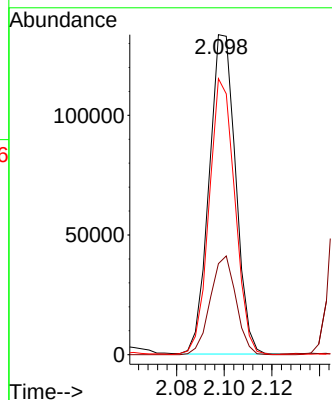
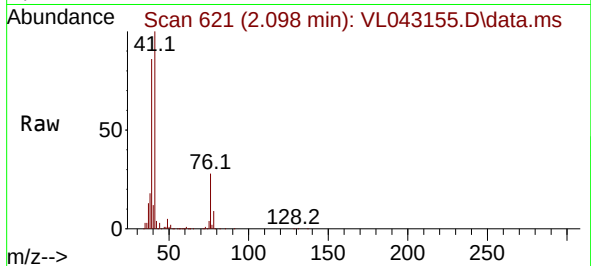
#21  
 Allyl Chloride  
 Concen: 9.309 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 41 Resp: 10325  
 Ion Ratio Lower Upper  
 41 100  
 76 29.9 21.5 32.3  
 39 83.3 60.8 91.2

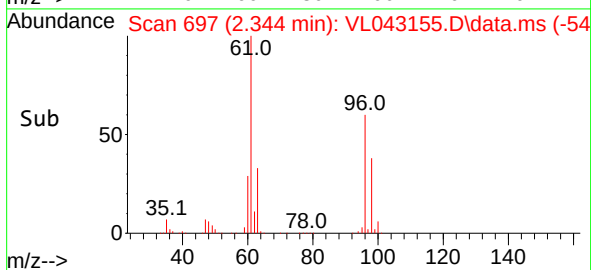
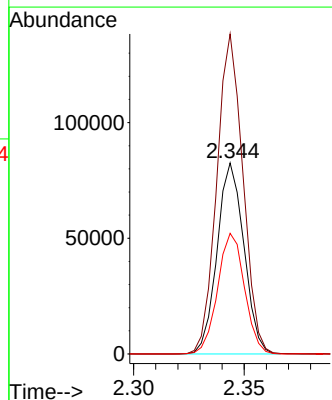
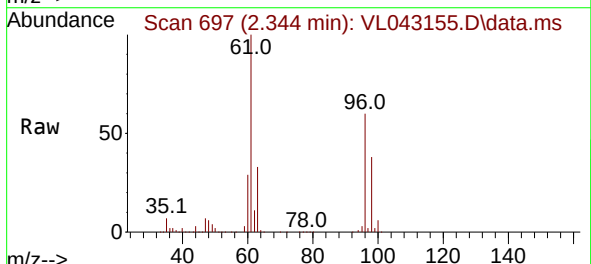
Manual Integrations  
 APPROVED

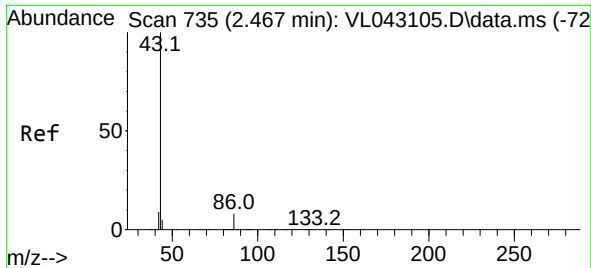
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.686 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 96 Resp: 69627  
 Ion Ratio Lower Upper  
 96 100  
 61 167.5 137.0 205.6  
 98 63.2 45.5 68.3





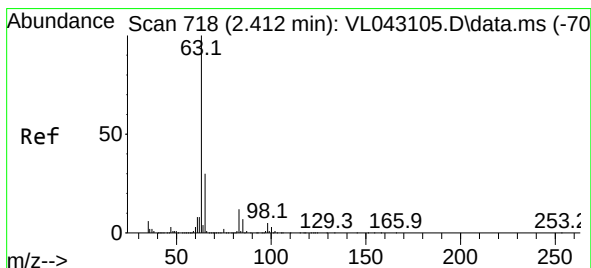
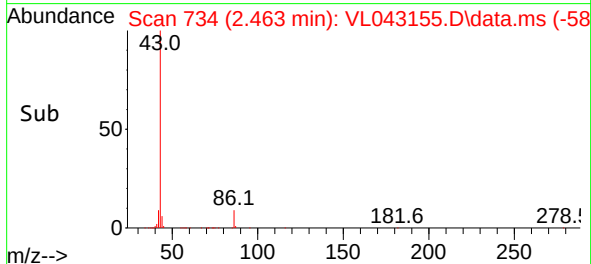
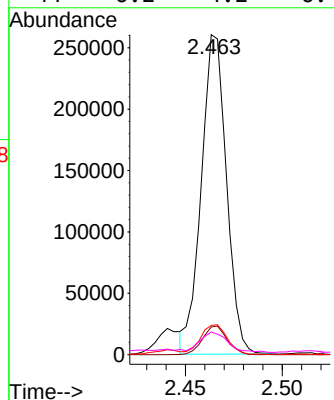
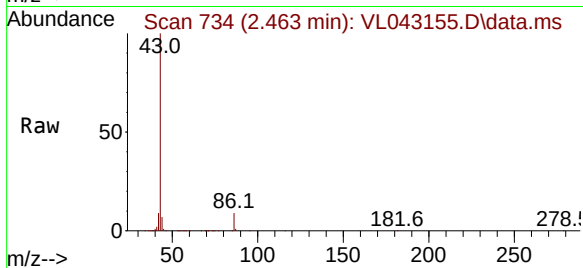
#23  
 Vinyl Acetate  
 Concen: 10.726 ppbv  
 RT: 2.463 min Scan# 718  
 Delta R.T. -0.003 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 43 Resp: 236500  
 Ion Ratio Lower Upper  
 43 100  
 86 8.7 6.2 9.2  
 42 9.1 7.6 11.4  
 44 6.2 4.2 6.4

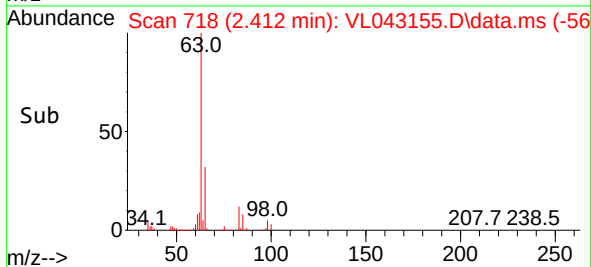
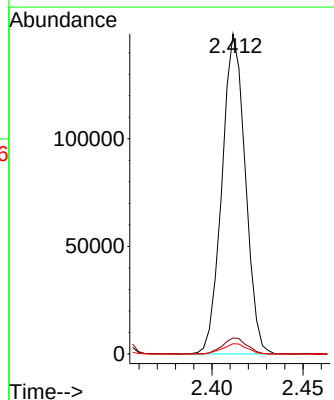
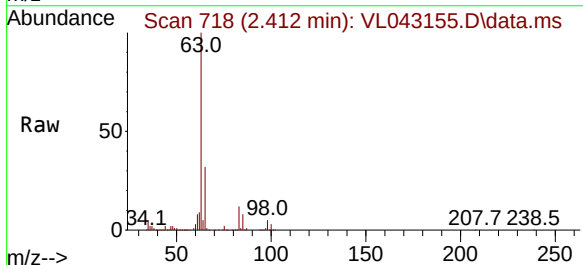
Manual Integrations  
 APPROVED

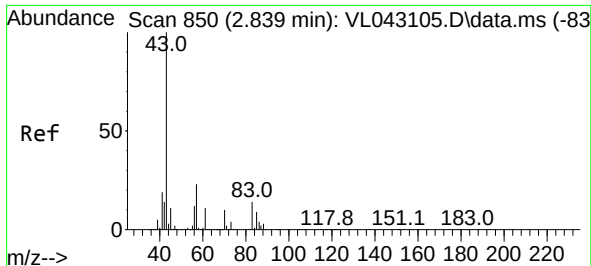
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#24  
 1,1-Dichloroethane  
 Concen: 10.535 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

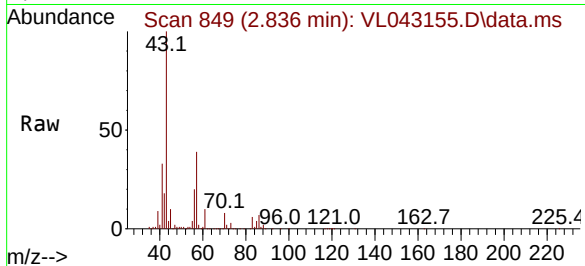
Tgt Ion: 63 Resp: 132624  
 Ion Ratio Lower Upper  
 63 100  
 98 5.0 2.6 7.8  
 100 3.2 1.5 4.4





#25  
Ethyl Acetate  
Concen: 9.452 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

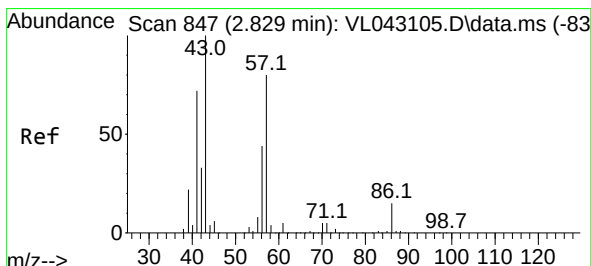
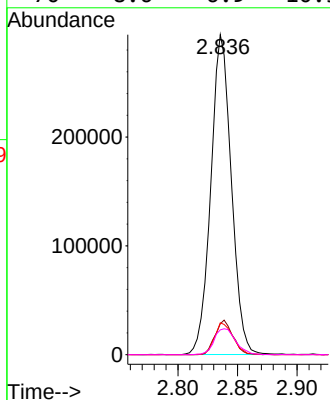
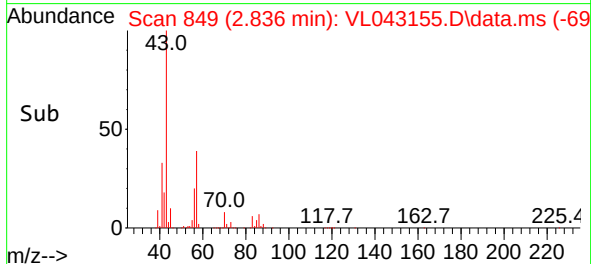
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



| Tgt Ion: | 43    | Resp: | 35282 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 9.4   | 7.8   | 11.8  |
| 61       | 9.0   | 7.0   | 10.6  |
| 70       | 8.6   | 6.9   | 10.3  |

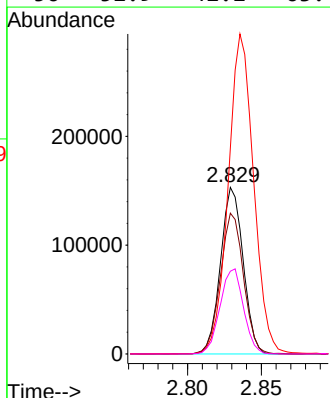
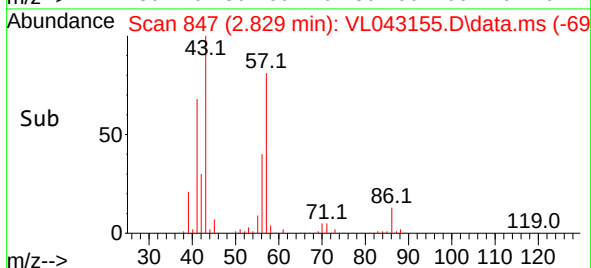
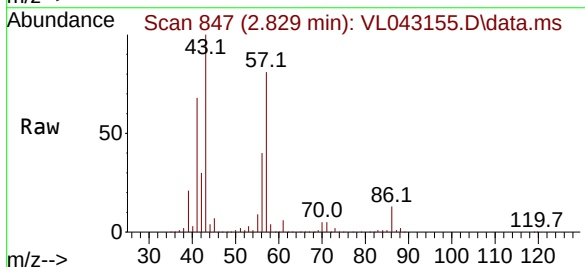
Manual Integrations  
APPROVED

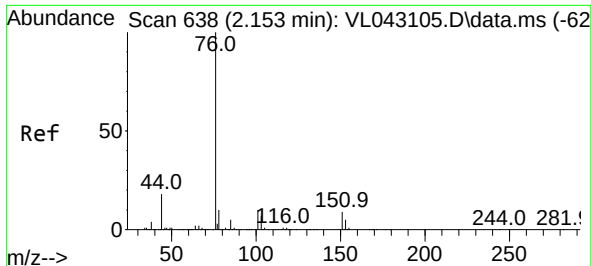
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#26  
Hexane  
Concen: 9.508 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

| Tgt Ion: | 57    | Resp: | 163545 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 87.0  | 71.4  | 107.0  |
| 43       | 216.3 | 178.5 | 267.7  |
| 56       | 52.9  | 42.2  | 63.4   |





#27

Carbon Disulfide

Concen: 10.684 ppbv

RT: 2.153 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL043155.D

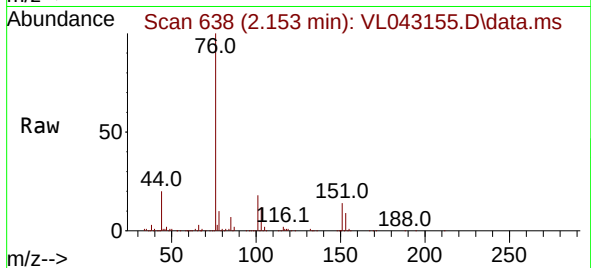
Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

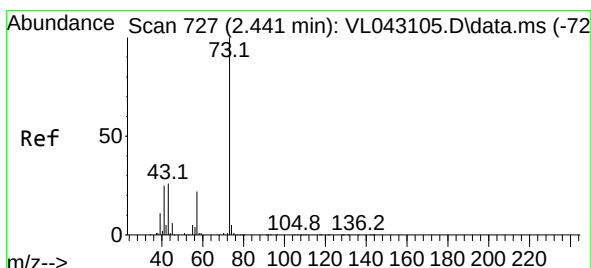
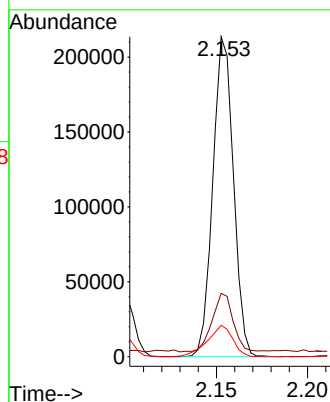
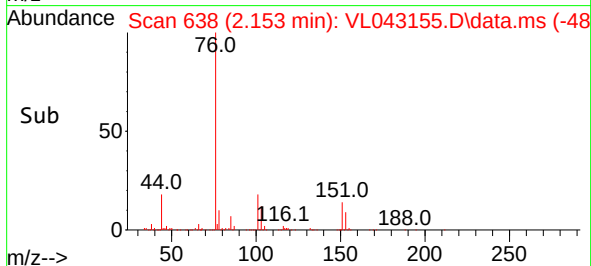


| Tgt Ion:  | 76   | Resp: | 168378 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | 16.7   |
| Upper     | 25.1 | Ratio | 12.0   |
| 76        | 100  | 78    | 13.9   |
| 44        | 19.4 | 76    | 16.7   |
| 78        | 12.0 | 44    | 9.3    |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#28

Methyl tert-Butyl Ether

Concen: 10.158 ppbv

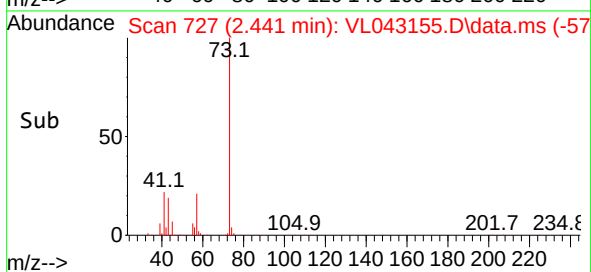
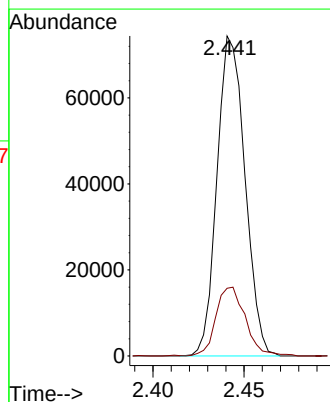
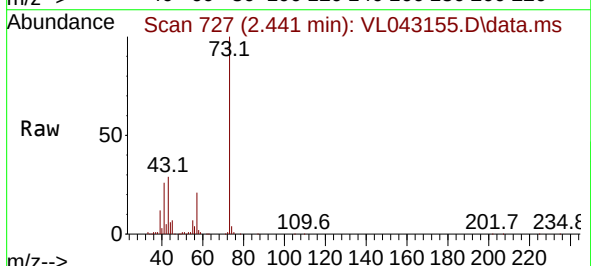
RT: 2.441 min Scan# 727

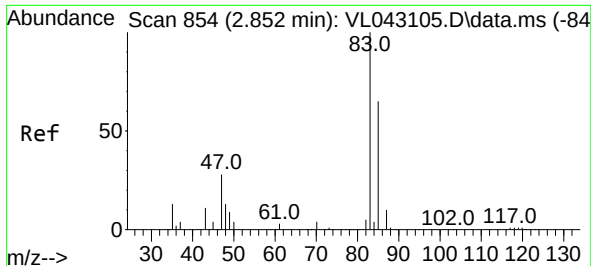
Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

| Tgt Ion:  | 73   | Resp: | 79492 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | 20.5  |
| Upper     | 30.7 | Ratio | 22.8  |
| 73        | 100  | 57    | 22.8  |
| 57        | 22.8 | 73    | 20.5  |





#29

Chloroform

Concen: 10.919 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDC010

Tgt Ion: 83 Resp: 272134

Ion Ratio Lower Upper

83 100

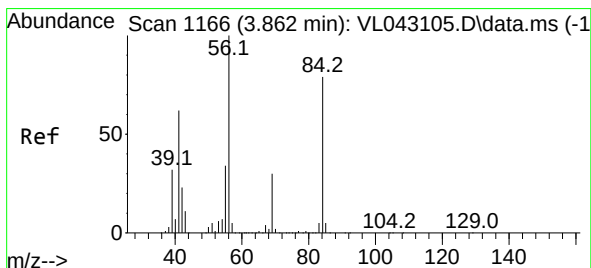
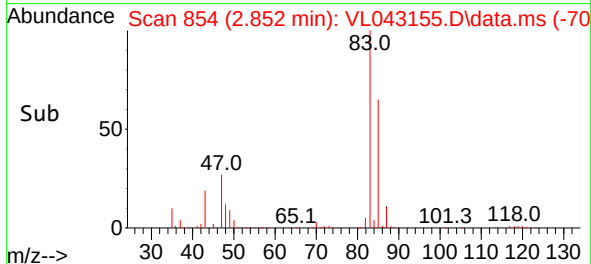
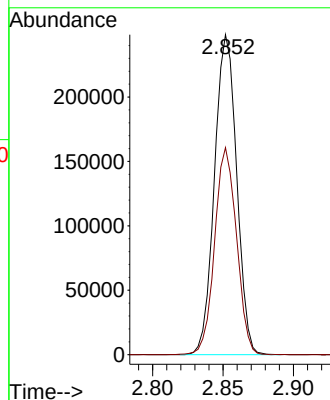
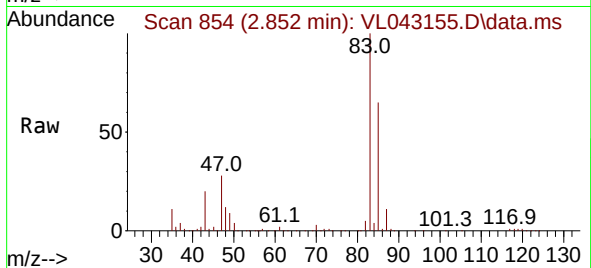
85 64.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#30

Cyclohexane

Concen: 9.341 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

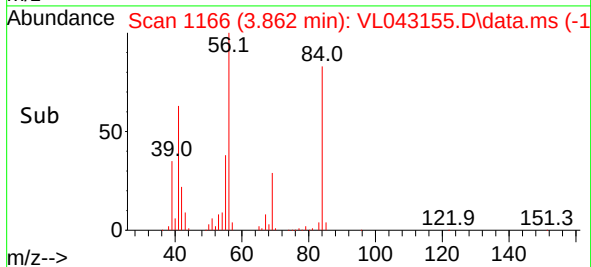
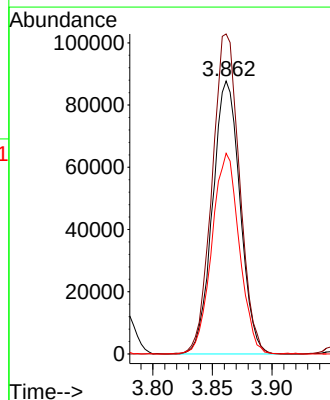
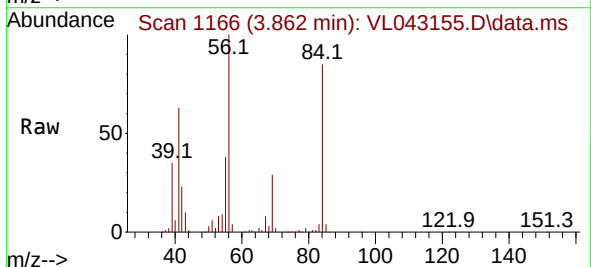
Tgt Ion: 84 Resp: 140232

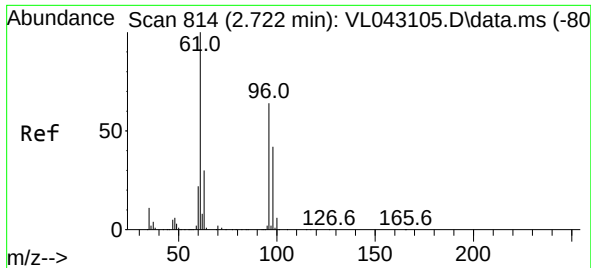
Ion Ratio Lower Upper

84 100

56 117.5 100.9 151.3

41 73.7 63.8 95.6





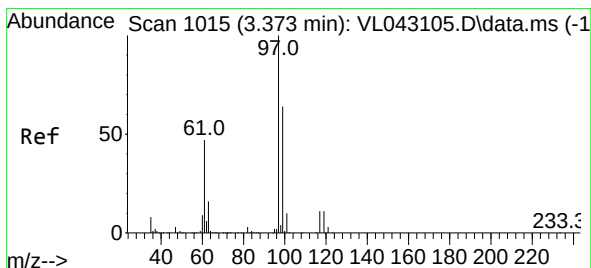
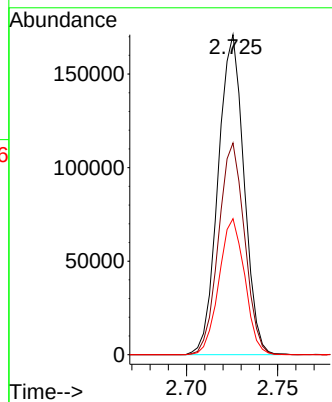
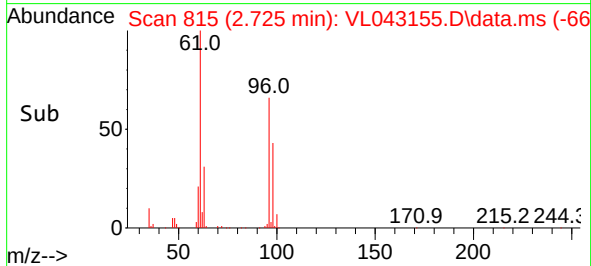
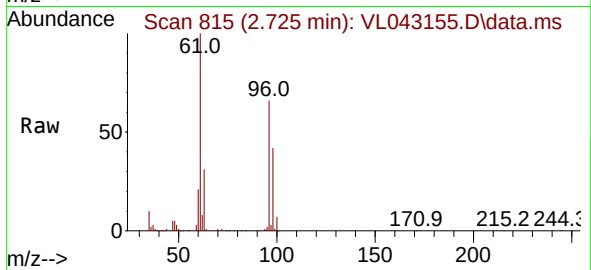
#31  
cis-1,2-Dichloroethene  
Concen: 10.263 ppbv  
RT: 2.725 min Scan# 814  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 61 Resp: 16857  
Ion Ratio Lower Upper  
61 100  
96 66.1 51.0 76.6  
98 42.5 33.5 50.3

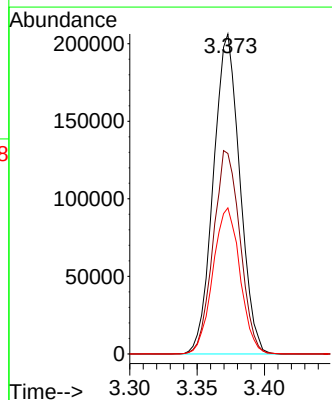
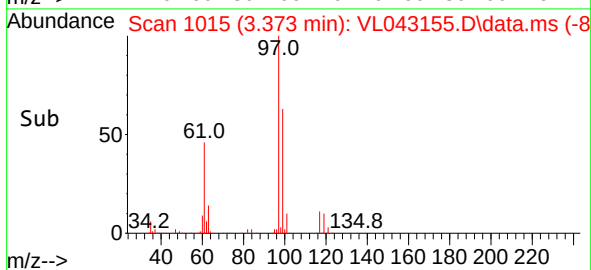
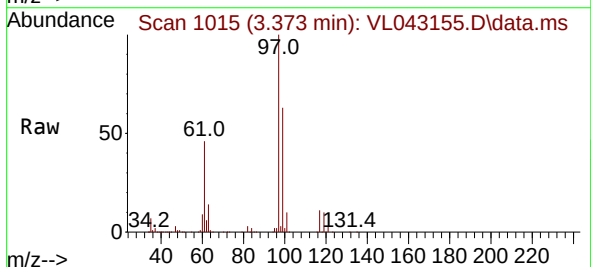
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

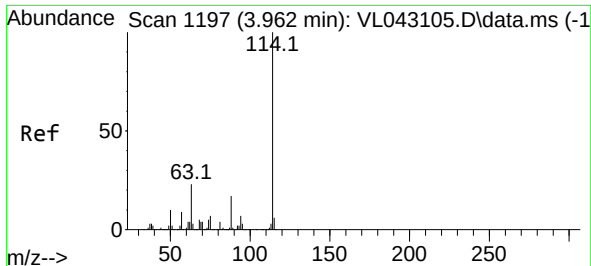


#32  
1,1,1-Trichloroethane  
Concen: 10.844 ppbv  
RT: 3.373 min Scan# 1015  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 97 Resp: 281440  
Ion Ratio Lower Upper  
97 100  
99 64.5 51.3 76.9  
61 47.1 38.4 57.6







#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

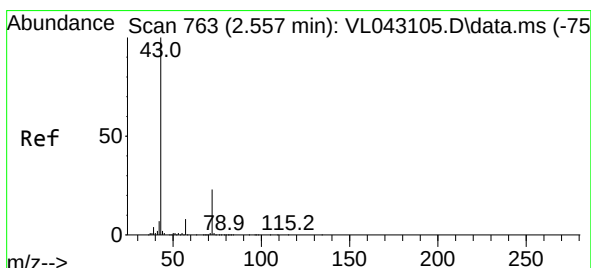
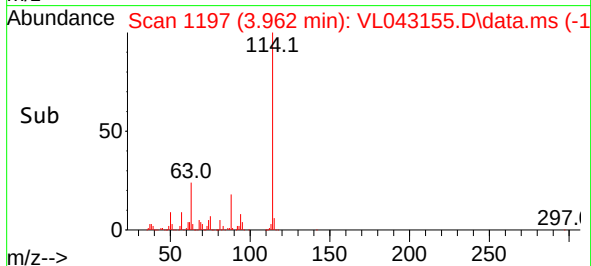
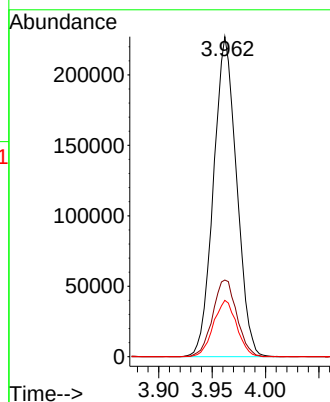
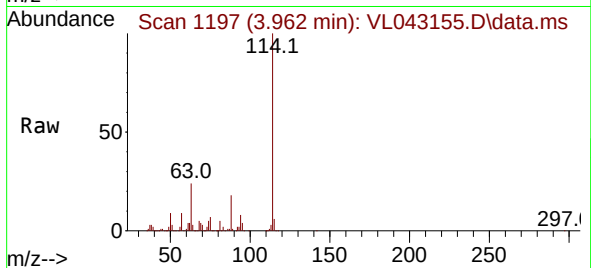
VSTDCCC010

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 34187 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 25.1  | 19.3  | 28.9  |
| 88        | 17.8  | 13.9  | 20.9  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#34

2-Butanone

Concen: 10.242 ppbv

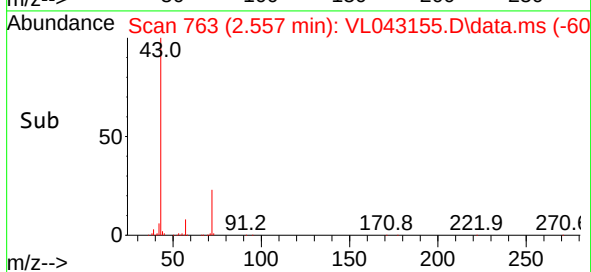
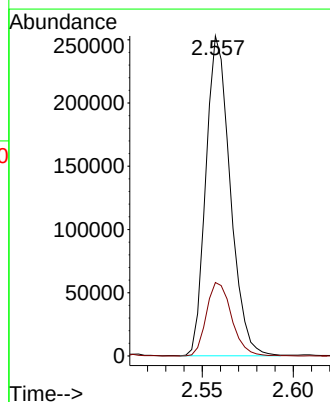
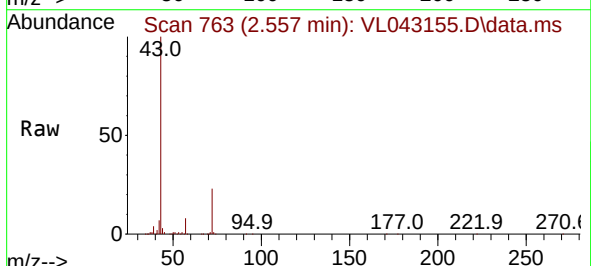
RT: 2.557 min Scan# 763

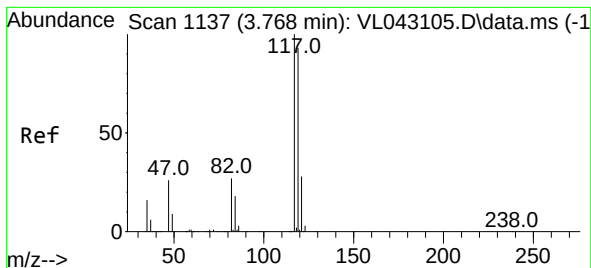
Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 235359 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 72        | 23.8  | 18.4  | 27.6   |





#35

Carbon Tetrachloride

Concen: 11.845 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:117 Resp: 29114

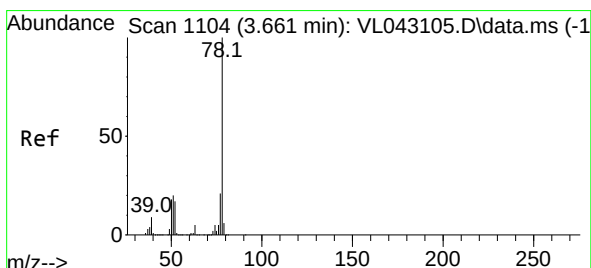
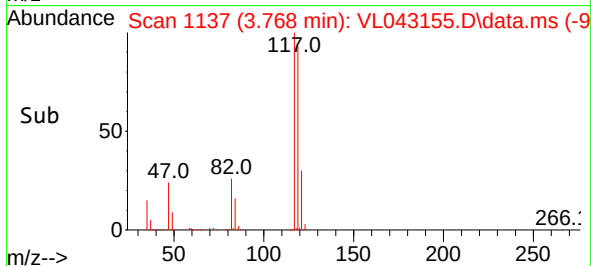
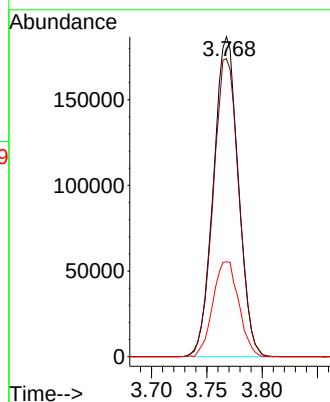
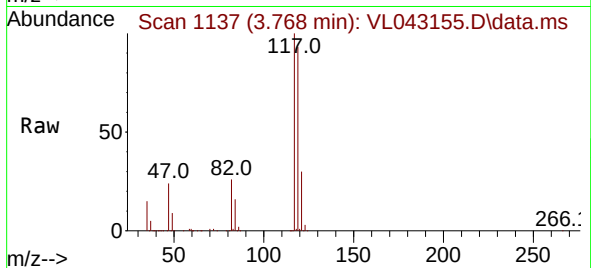
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 93.1  | 74.1  | 111.1 |
| 121 | 29.6  | 22.2  | 33.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#36

Benzene

Concen: 10.148 ppbv

RT: 3.661 min Scan# 1104

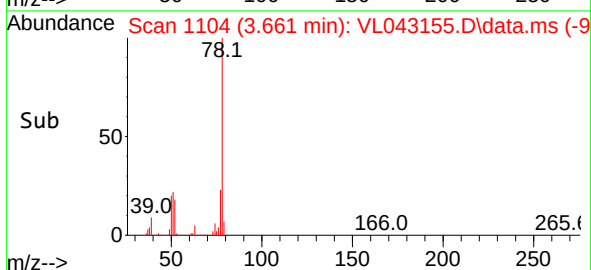
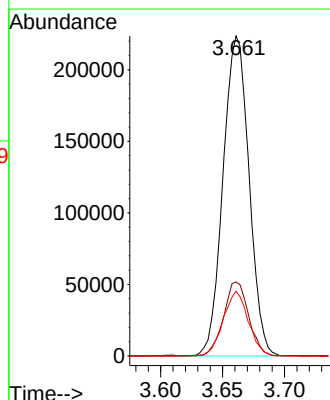
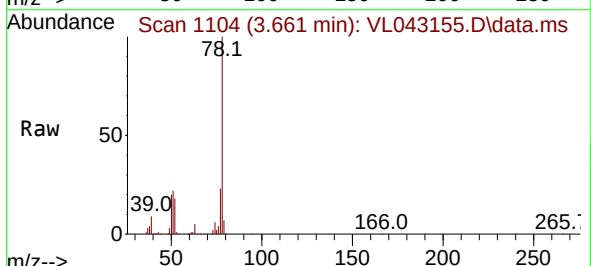
Delta R.T. -0.000 min

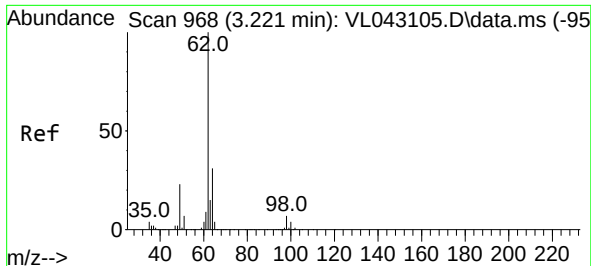
Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 78 Resp: 326769

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.0  | 17.0  | 25.6  |
| 50  | 20.2  | 14.6  | 22.0  |





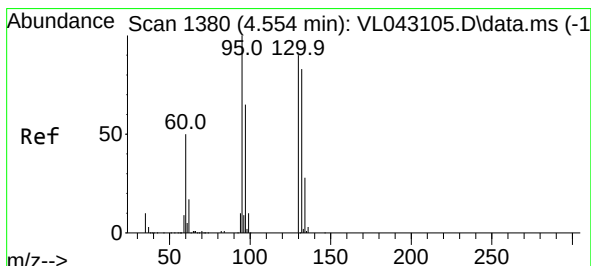
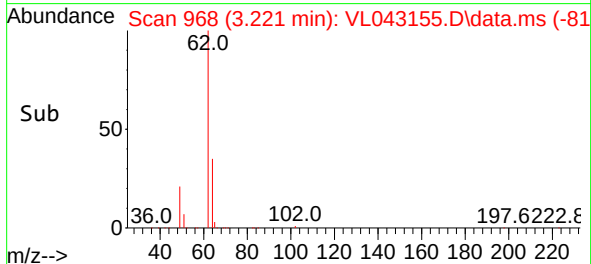
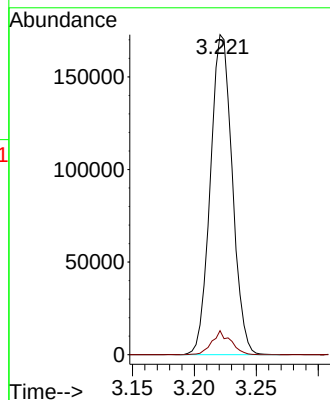
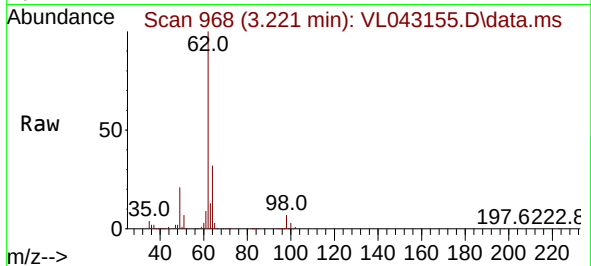
#37  
1,2-Dichloroethane  
Concen: 11.493 ppbv  
RT: 3.221 min Scan# 90  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 62 Resp: 21318  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.8 8.6

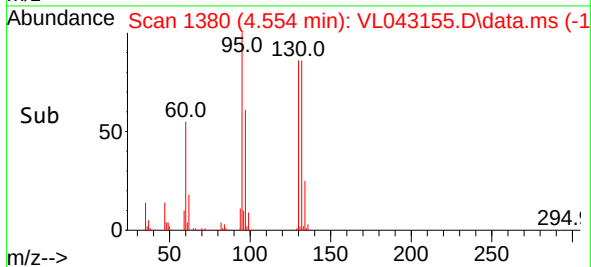
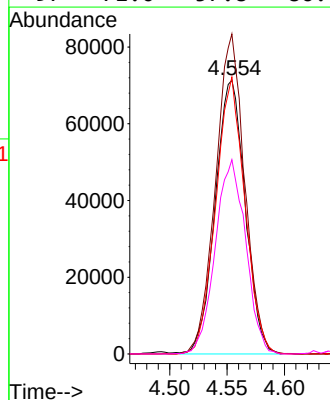
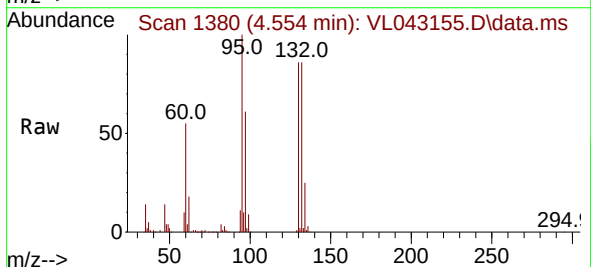
Manual Integrations  
APPROVED

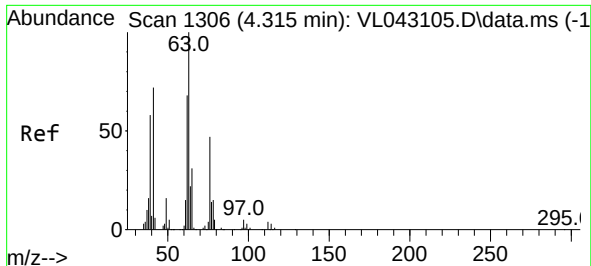
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#38  
Trichloroethene  
Concen: 9.635 ppbv  
RT: 4.554 min Scan# 1380  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:130 Resp: 129566  
Ion Ratio Lower Upper  
130 100  
95 116.7 88.6 133.0  
132 101.0 73.4 110.0  
97 71.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.950 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043155.D

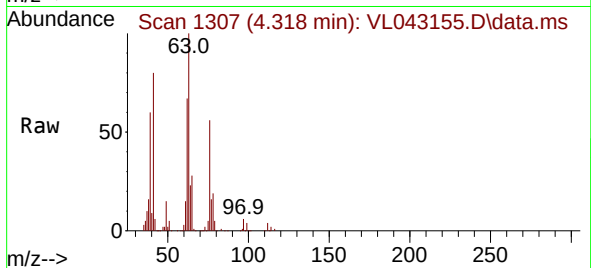
Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 63 Resp: 11712

Ion Ratio Lower Upper

63 100

41 79.6 58.0 87.0

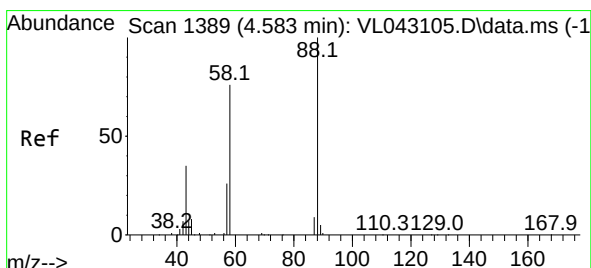
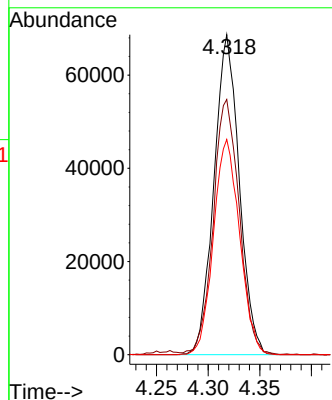
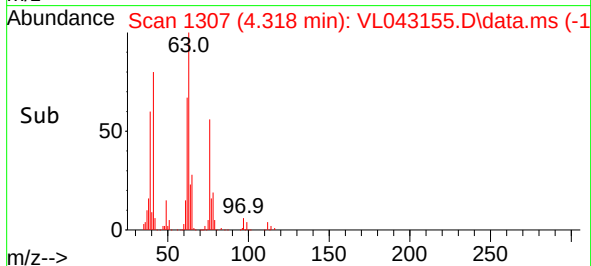
62 67.3 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#40

1,4-Dioxane

Concen: 9.574 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 88 Resp: 50431

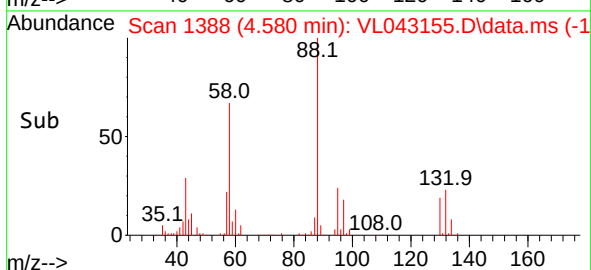
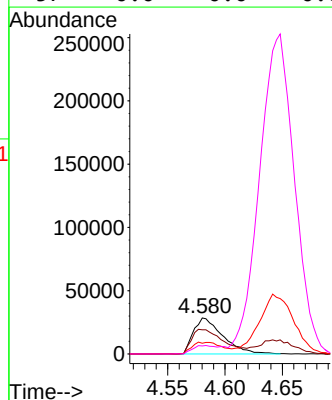
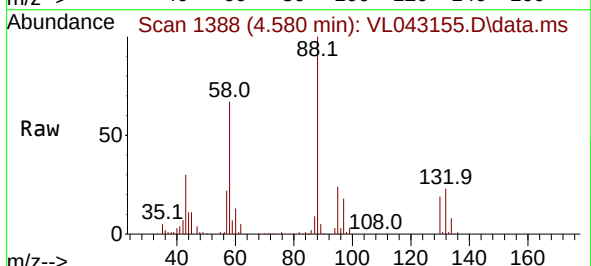
Ion Ratio Lower Upper

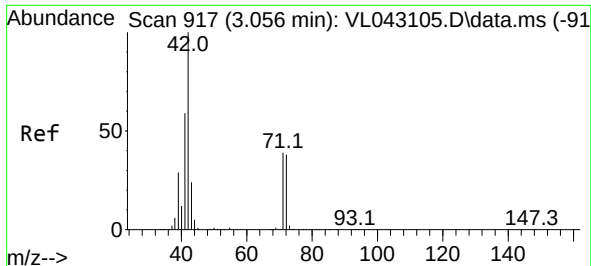
88 100

58 75.0 61.1 91.7

43 35.7 24.0 36.0

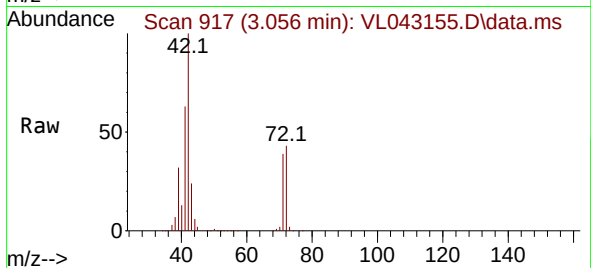
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 9.267 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

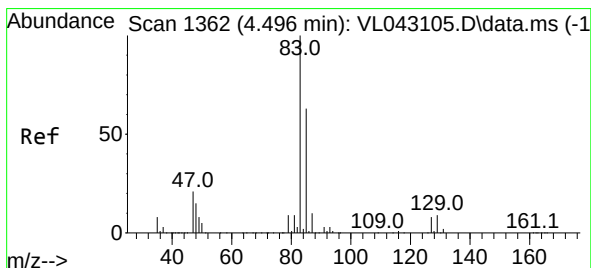
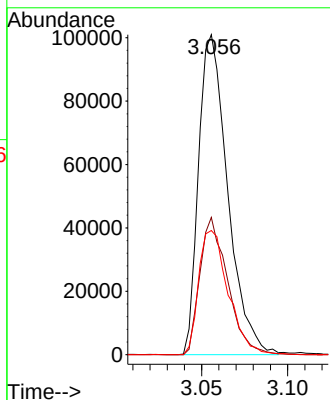
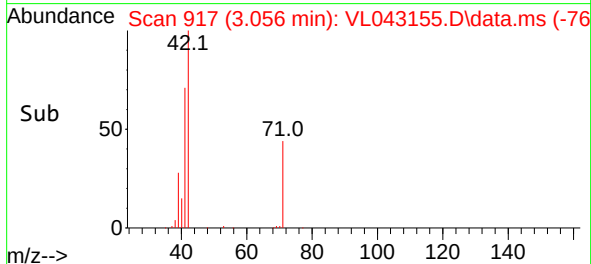
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



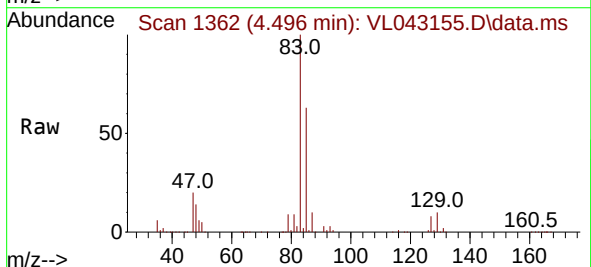
Tgt Ion: 42 Resp: 119118  
Ion Ratio Lower Upper  
42 100  
72 40.9 31.3 46.9  
71 39.4 30.4 45.6

Manual Integrations  
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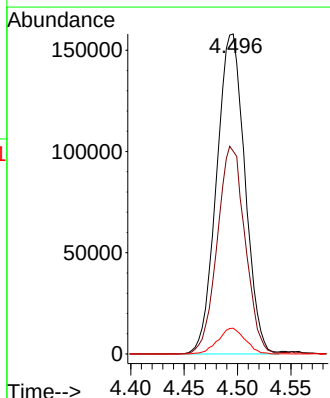
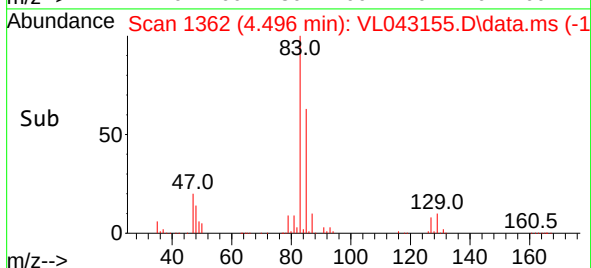
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

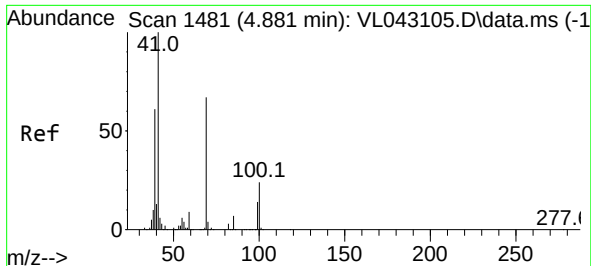


#42  
Bromodichloromethane  
Concen: 11.359 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



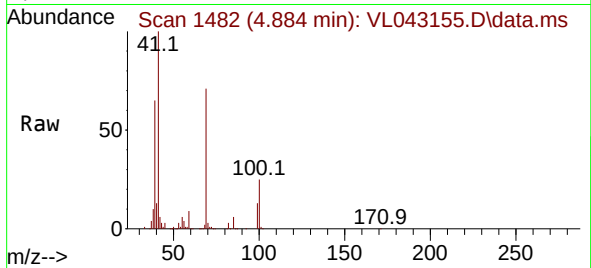
Tgt Ion: 83 Resp: 291618  
Ion Ratio Lower Upper  
83 100  
85 63.4 50.6 75.8  
127 8.1 6.3 9.5





#43  
Methyl Methacrylate  
Concen: 9.624 ppbv  
RT: 4.884 min Scan# 1481  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

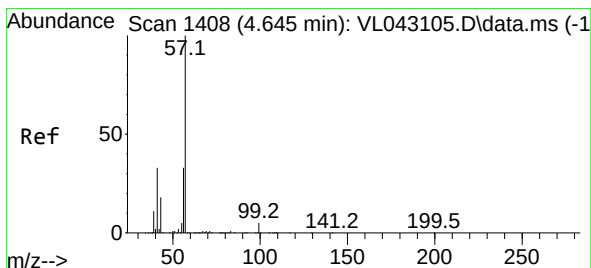
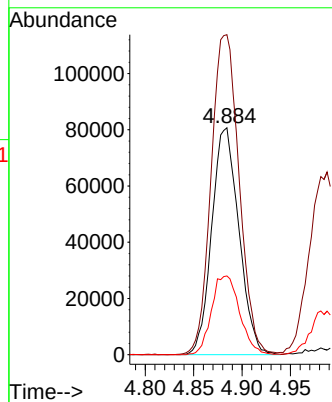
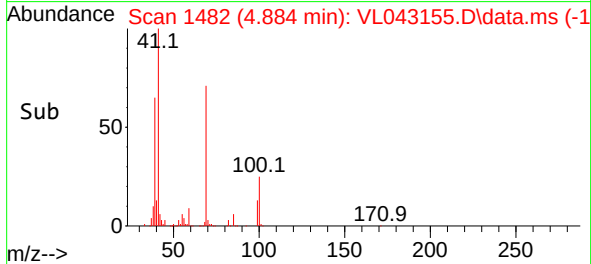
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



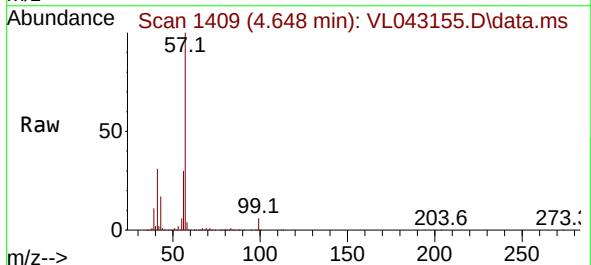
Tgt Ion: 69 Resp: 157399  
Ion Ratio Lower Upper  
69 100  
41 145.6 120.5 180.7  
100 36.0 29.0 43.4

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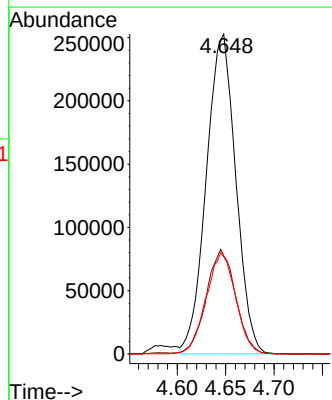
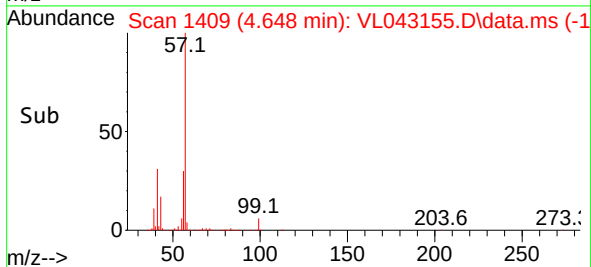
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

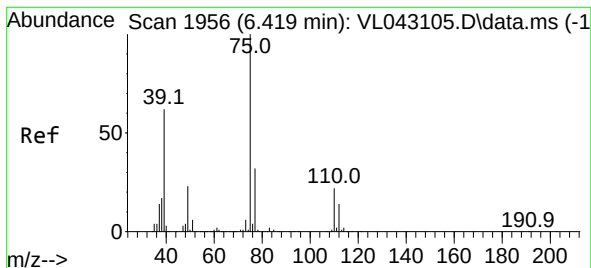


#44  
2,2,4-Trimethylpentane  
Concen: 9.853 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion: 57 Resp: 535251  
Ion Ratio Lower Upper  
57 100  
41 32.9 26.3 39.5  
56 31.7 25.9 38.9





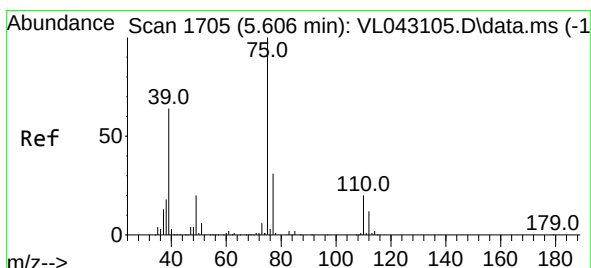
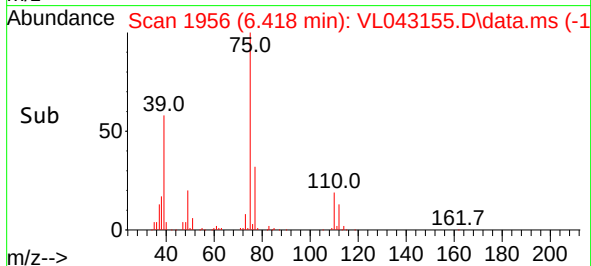
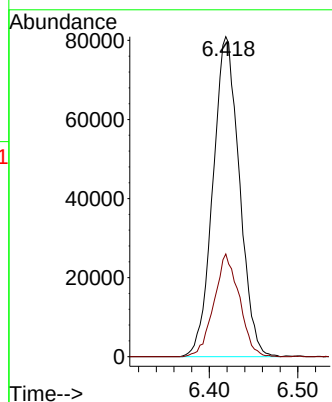
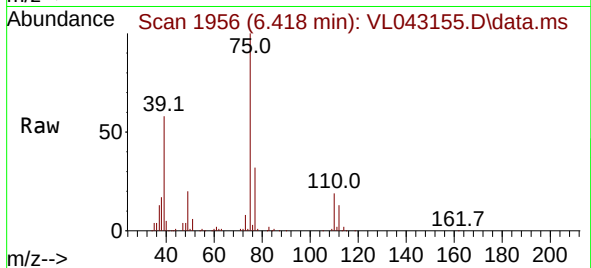
#45  
 t-1,3-Dichloropropene  
 Concen: 10.243 ppbv  
 RT: 6.418 min Scan# 1956  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 75 Resp: 16811  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.4 38.2

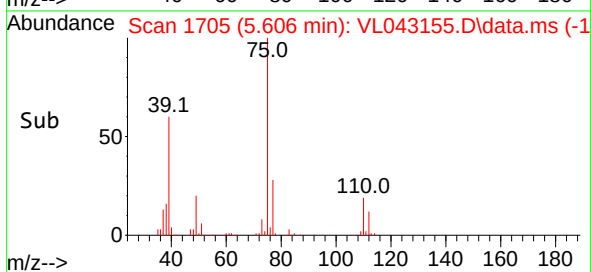
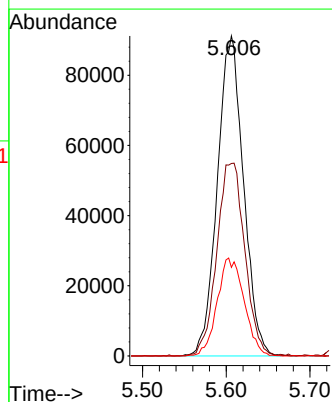
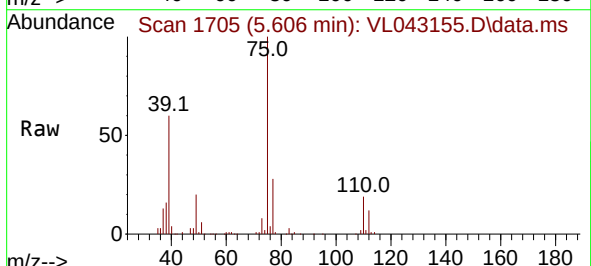
Manual Integrations  
 APPROVED

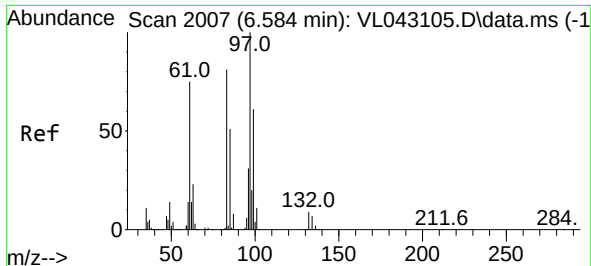
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.086 ppbv  
 RT: 5.606 min Scan# 1705  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

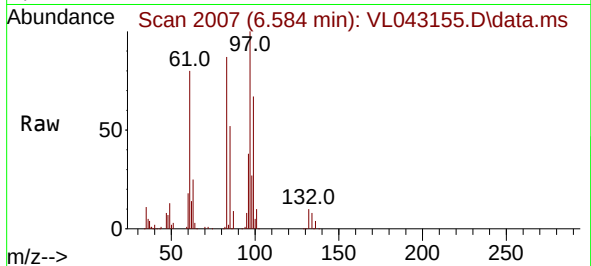
Tgt Ion: 75 Resp: 197738  
 Ion Ratio Lower Upper  
 75 100  
 39 60.1 51.0 76.6  
 77 27.7 25.0 37.4





#47  
1,1,2-Trichloroethane  
Concen: 10.274 ppbv  
RT: 6.584 min Scan# 2007  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

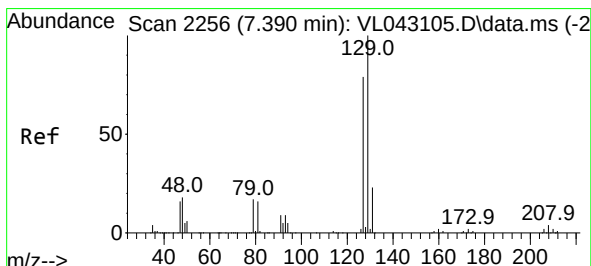
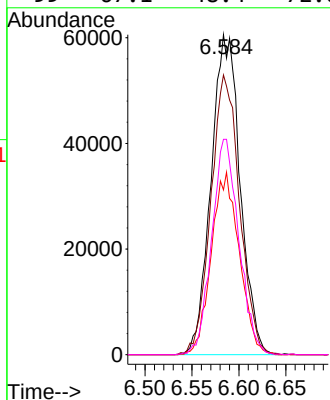
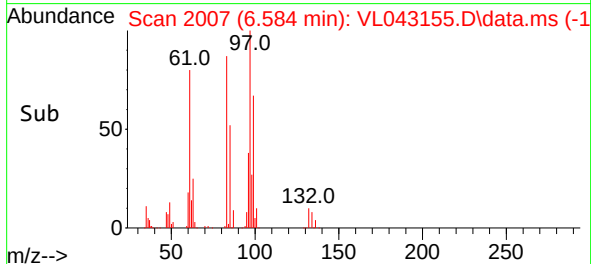
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



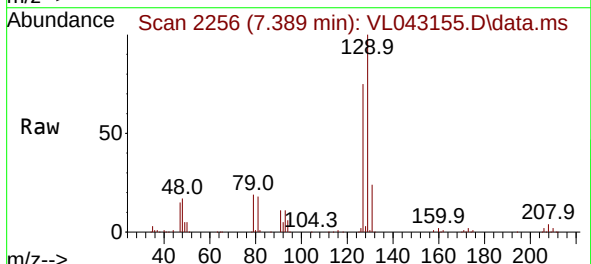
Tgt Ion: 97 Resp: 13060  
Ion Ratio Lower Upper  
97 100  
83 87.2 64.6 96.8  
85 51.5 40.6 60.8  
99 67.1 48.4 72.6

Manual Integrations  
APPROVED

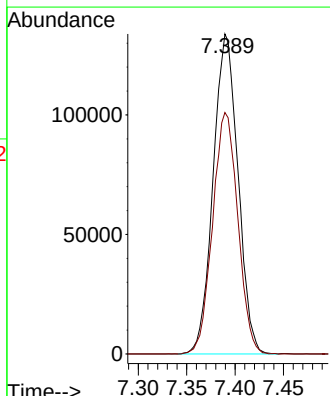
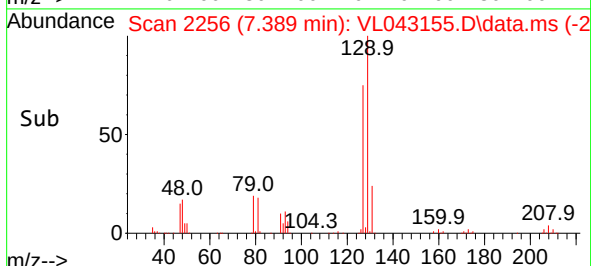
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



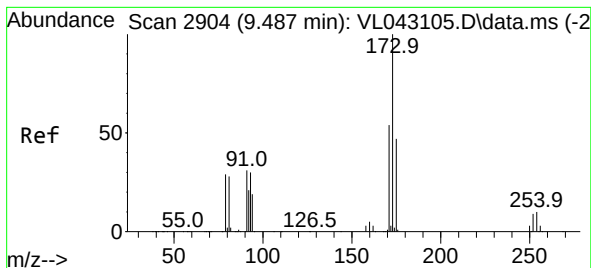
#48  
Dibromochloromethane  
Concen: 11.241 ppbv  
RT: 7.389 min Scan# 2256  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion:129 Resp: 238917  
Ion Ratio Lower Upper  
129 100  
127 76.6 39.3 117.9







#49

Bromoform

Concen: 11.933 ppbv

RT: 9.487 min Scan# 2904

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:173 Resp: 20616

Ion Ratio Lower Upper

173 100

175 47.7 38.8 58.2

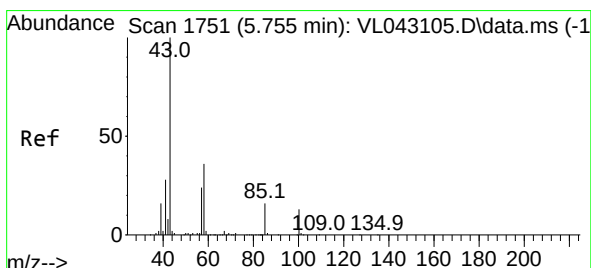
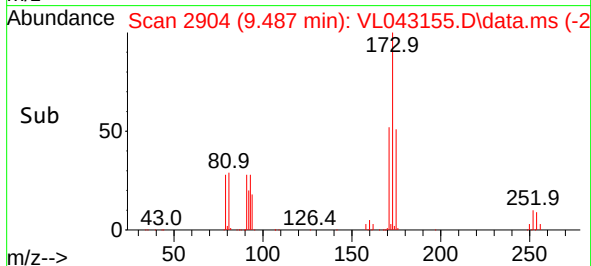
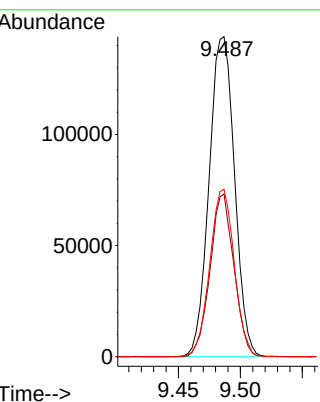
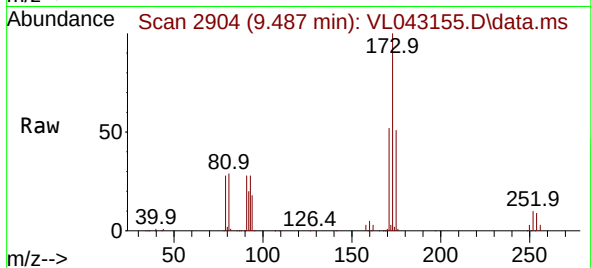
171 50.3 41.7 62.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#50

4-Methyl-2-Pentanone

Concen: 9.331 ppbv

RT: 5.748 min Scan# 1749

Delta R.T. -0.007 min

Lab File: VL043155.D

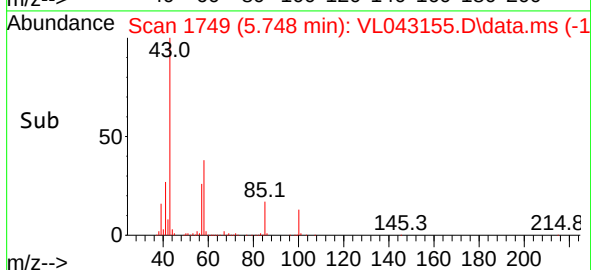
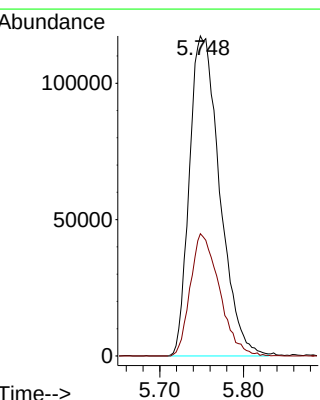
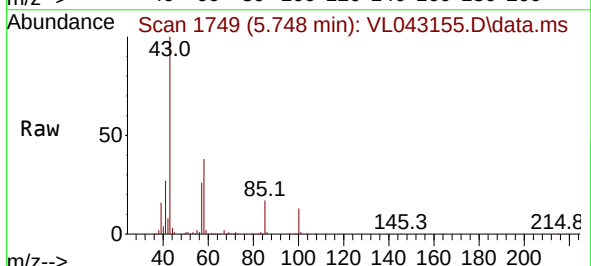
Acq: 06 Nov 2025 07:19

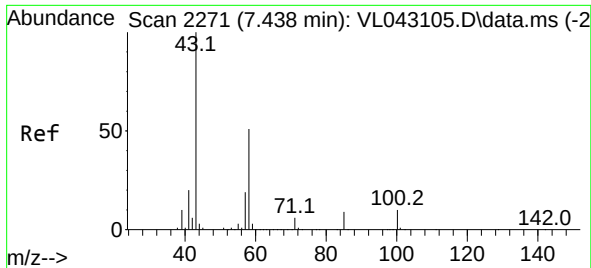
Tgt Ion: 43 Resp: 295948

Ion Ratio Lower Upper

43 100

58 36.7 29.1 43.7





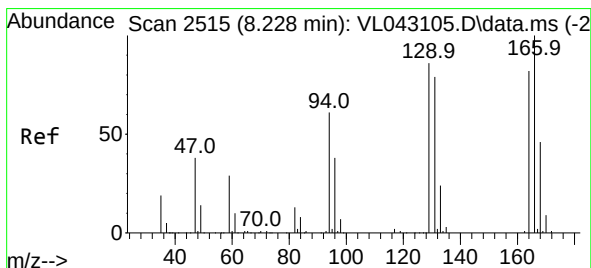
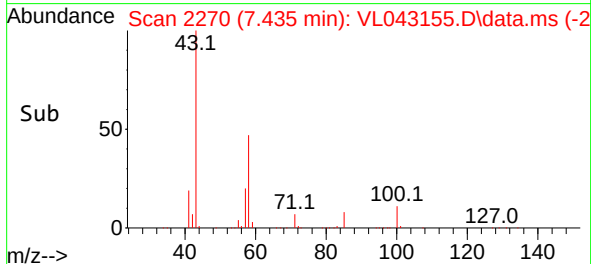
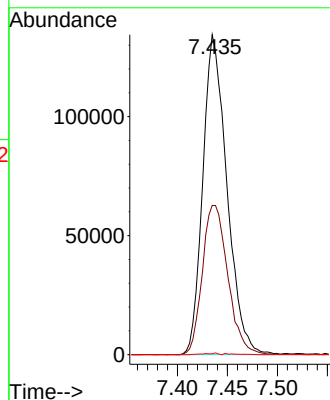
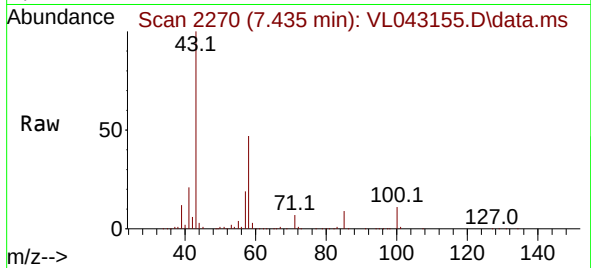
#51  
2-Hexanone  
Concen: 9.485 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 22562  
Ion Ratio Lower Upper  
43 100  
58 49.4 40.4 60.6  
98 0.5 0.1 0.1

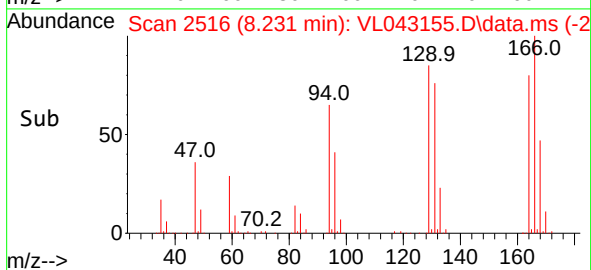
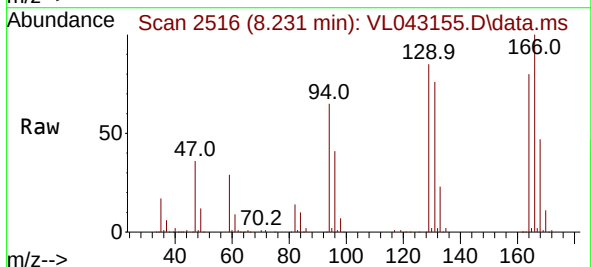
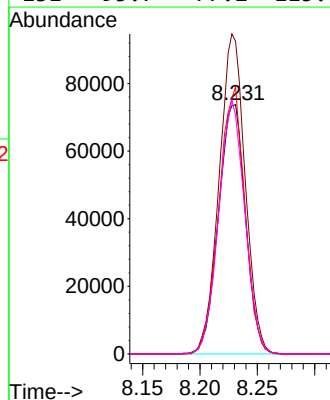
Manual Integrations  
APPROVED

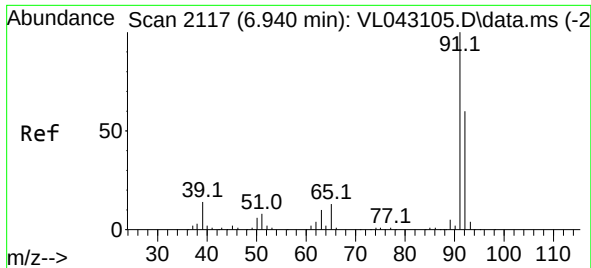
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#52  
Tetrachloroethene  
Concen: 10.396 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

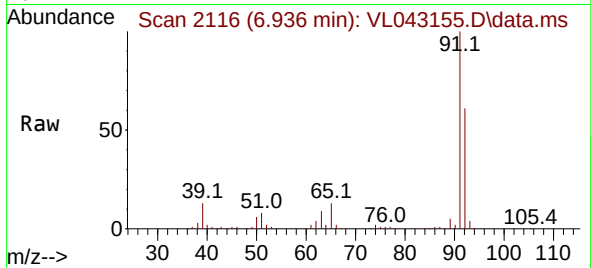
Tgt Ion:164 Resp: 120713  
Ion Ratio Lower Upper  
164 100  
166 125.4 97.6 146.4  
129 107.1 84.5 126.7  
131 95.7 77.2 115.8





#53  
Toluene  
Concen: 9.805 ppbv  
RT: 6.936 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

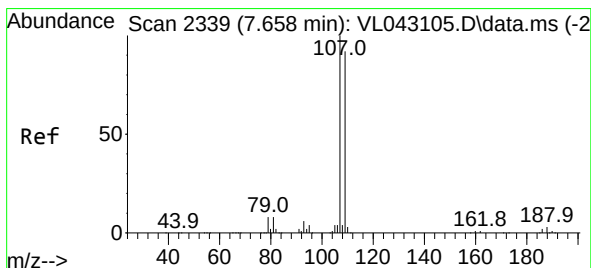
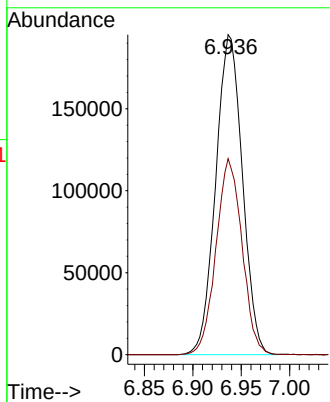
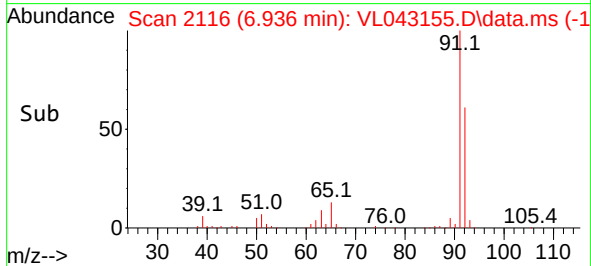
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



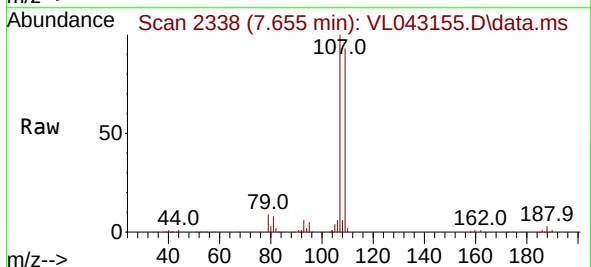
Tgt Ion: 91 Resp: 374714  
Ion Ratio Lower Upper  
91 100  
92 59.7 48.8 73.2

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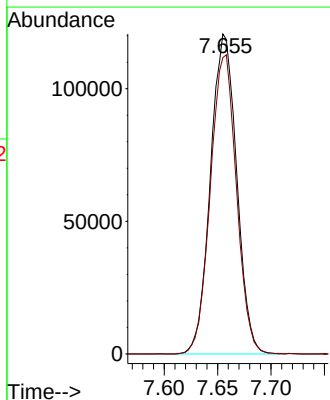
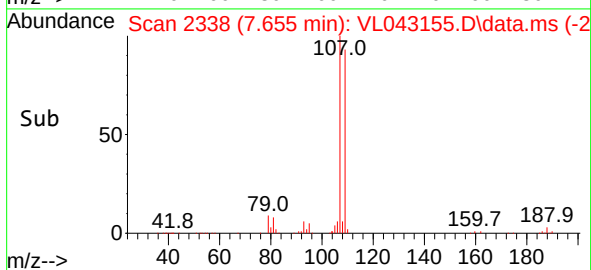
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

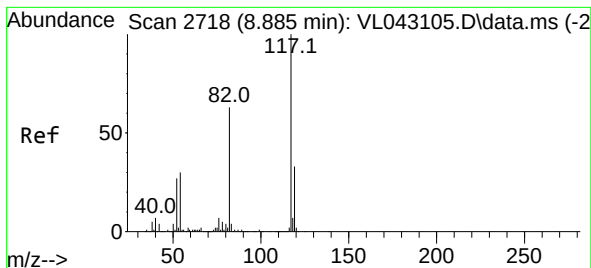


#54  
1,2-Dibromoethane  
Concen: 10.330 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion:107 Resp: 205679  
Ion Ratio Lower Upper  
107 100  
109 92.4 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

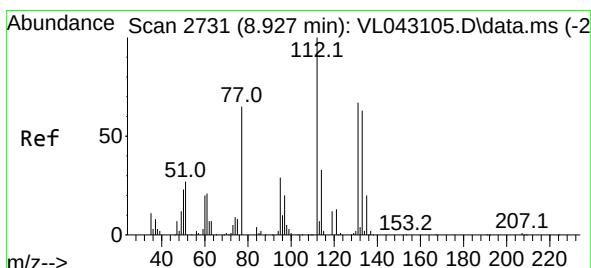
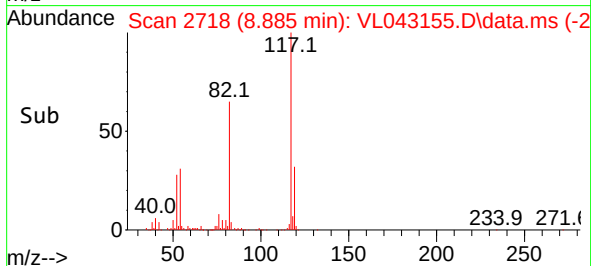
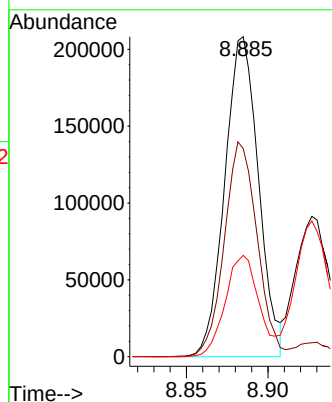
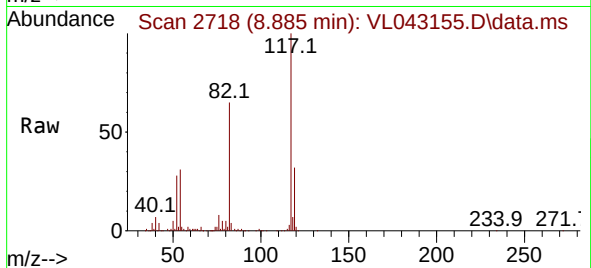
VSTDCCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 299829 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 66.1  | 53.8  | 80.8   |
| 119       | 32.3  | 25.4  | 38.0   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 11.429 ppbv

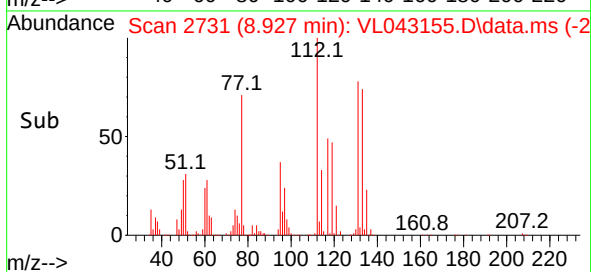
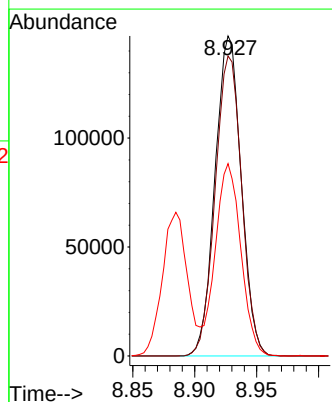
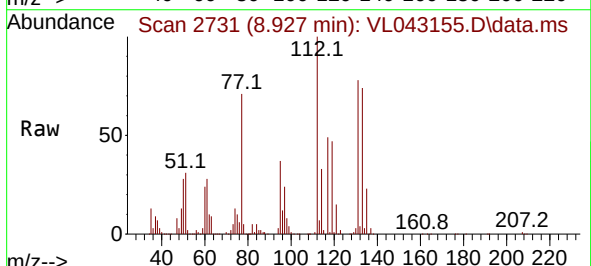
RT: 8.927 min Scan# 2731

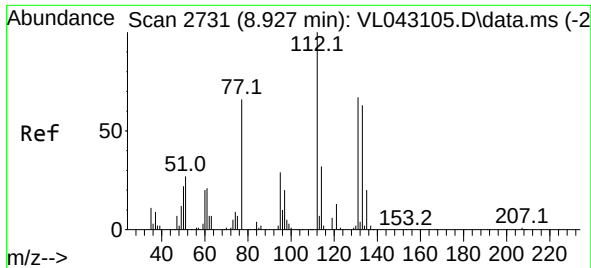
Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 131   | Resp: | 216010 |
| Ion Ratio | Lower | Upper |        |
| 131       | 100   |       |        |
| 133       | 95.1  | 75.7  | 113.5  |
| 119       | 58.8  | 50.6  | 76.0   |





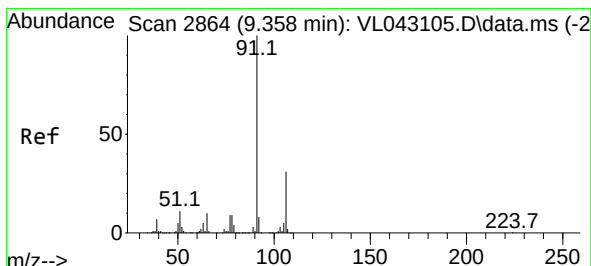
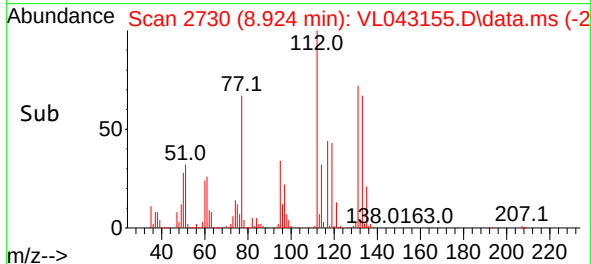
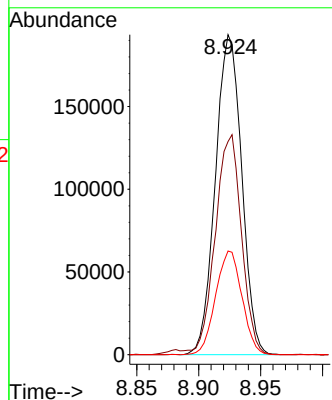
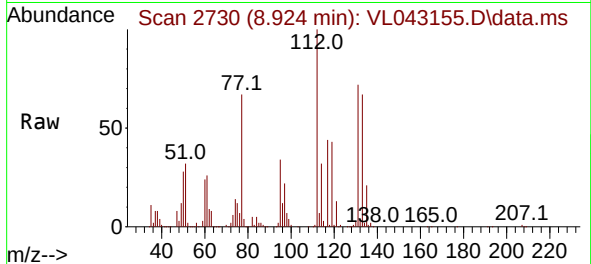
#57  
Chlorobenzene  
Concen: 10.228 ppbv  
RT: 8.924 min Scan# 2731  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:112 Resp: 286894  
Ion Ratio Lower Upper  
112 100  
77 66.6 53.3 79.9  
114 32.4 29.3 35.8

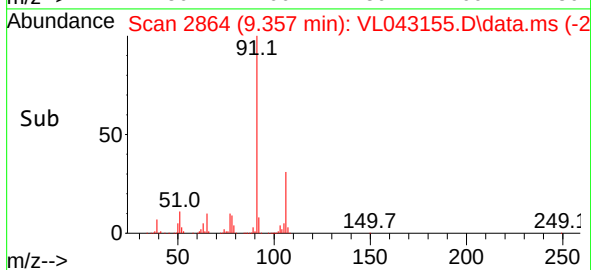
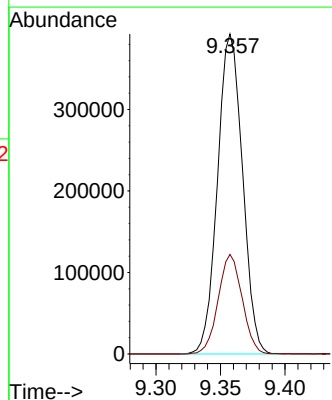
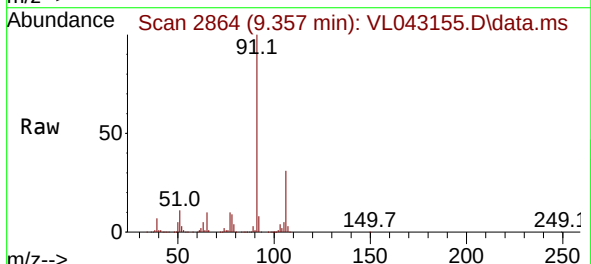
Manual Integrations  
APPROVED

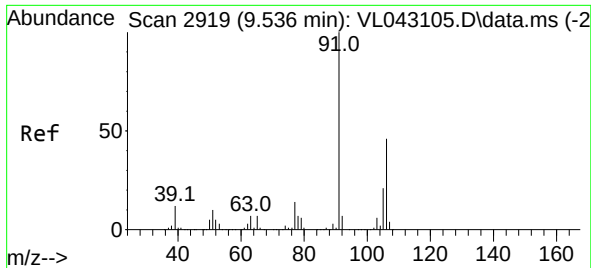
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#58  
Ethyl Benzene  
Concen: 10.261 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 527991  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.8 37.2





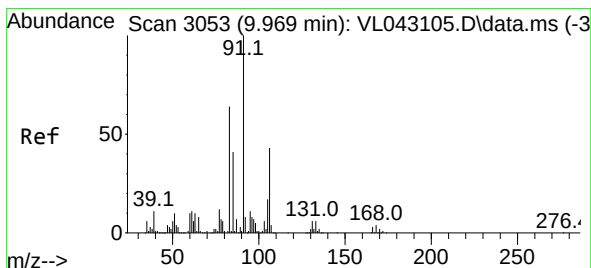
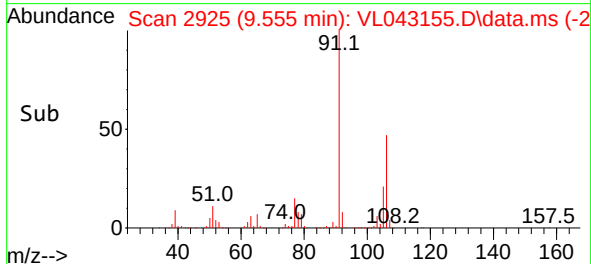
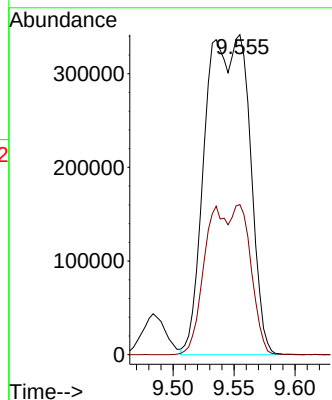
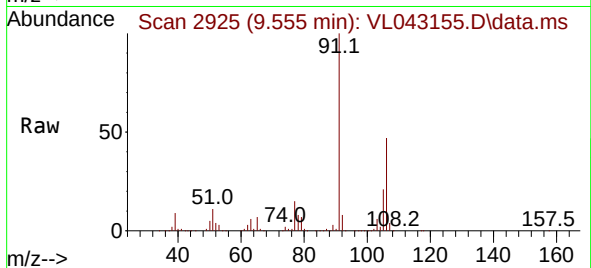
#59  
m/p-Xylene  
Concen: 21.062 ppbv m  
RT: 9.555 min Scan# 2919  
Delta R.T. 0.019 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 864452  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

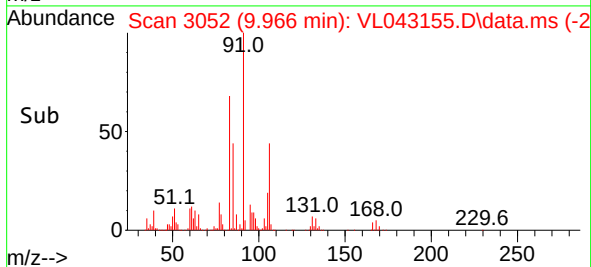
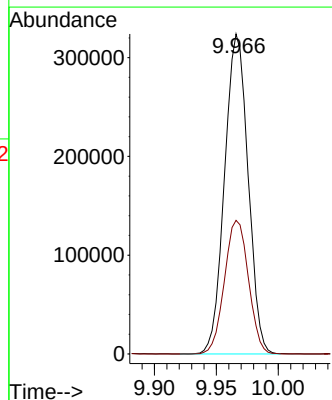
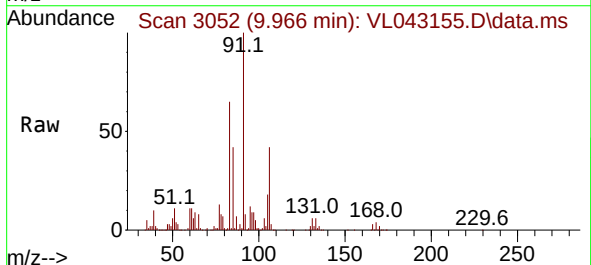
Manual Integrations  
APPROVED

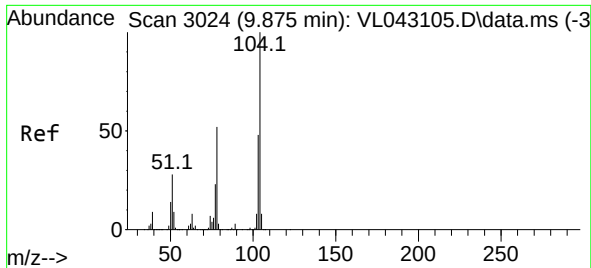
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#60  
o-Xylene  
Concen: 10.565 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 428248  
Ion Ratio Lower Upper  
91 100  
106 42.7 21.9 65.8





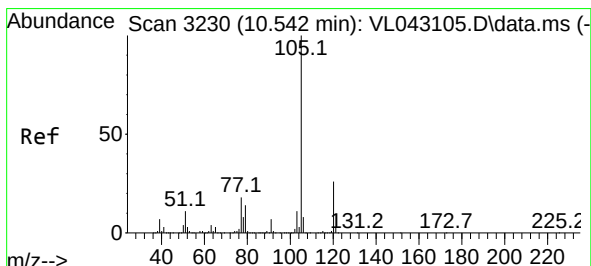
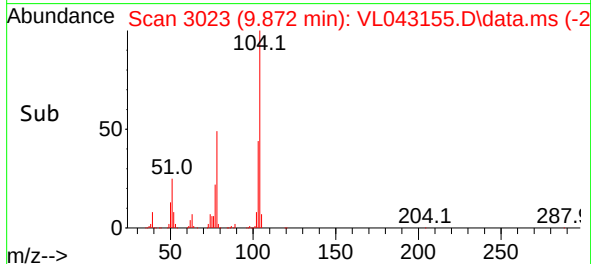
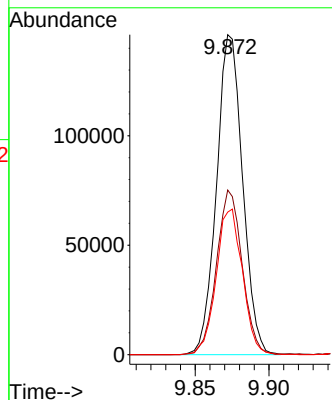
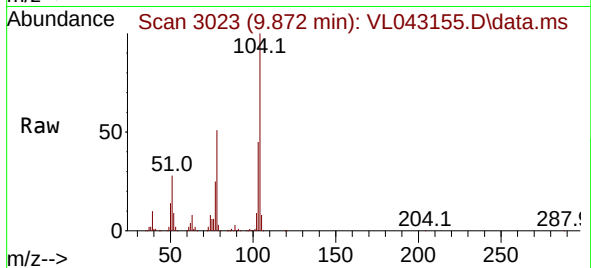
#61  
Styrene  
Concen: 9.839 ppbv  
RT: 9.872 min Scan# 3024  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument : MSVOA\_1  
ClientSampleId : VSTDCCC010

Tgt Ion:104 Resp: 180052  
Ion Ratio Lower Upper  
104 100  
78 50.9 40.2 60.2  
103 45.9 36.9 55.3

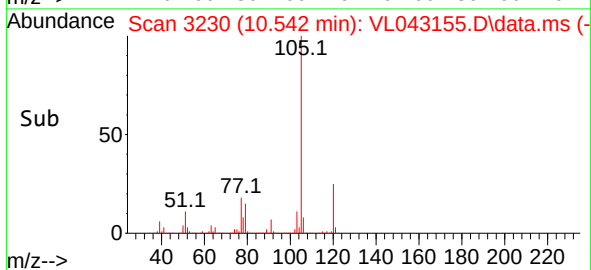
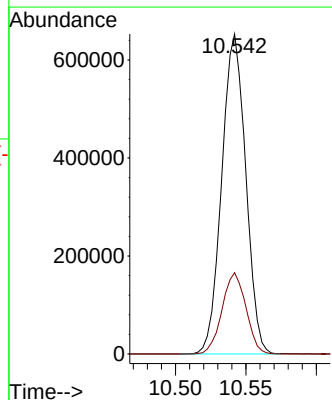
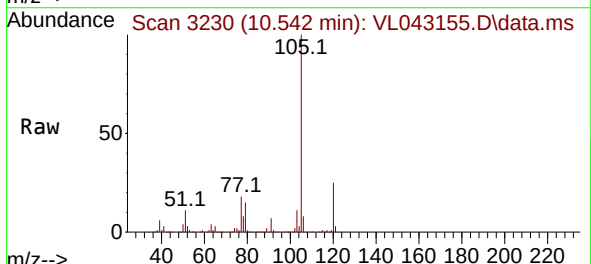
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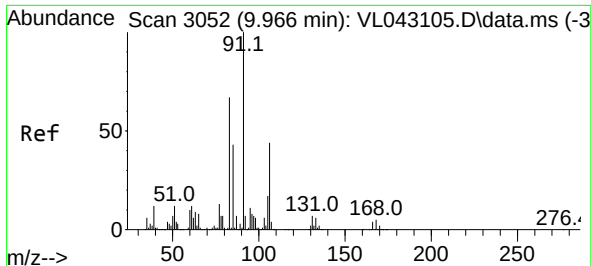
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#62  
Isopropylbenzene  
Concen: 10.564 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 773742  
Ion Ratio Lower Upper  
105 100  
120 25.2 20.2 30.4





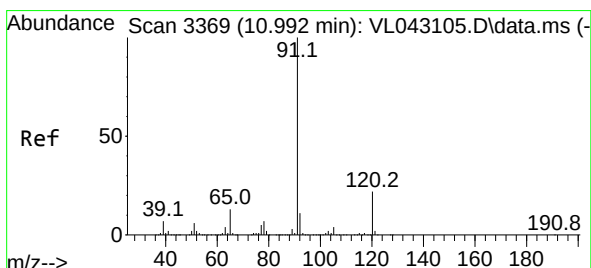
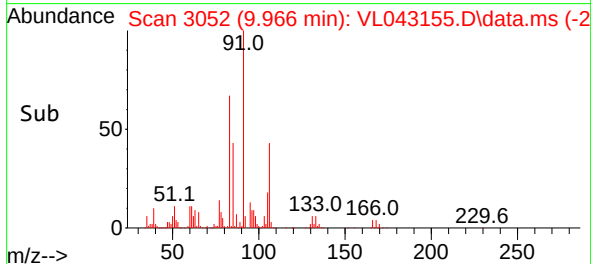
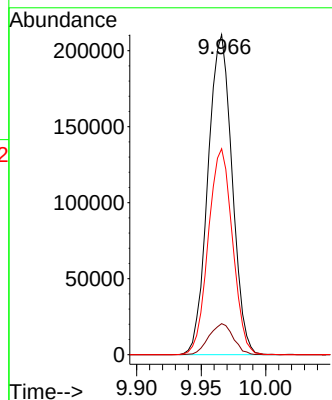
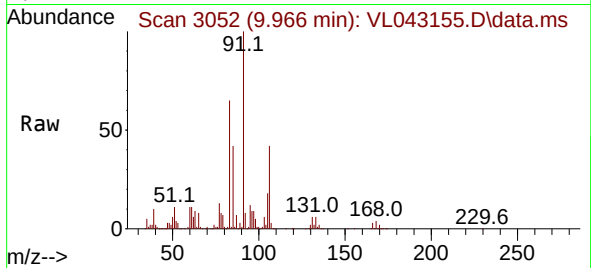
#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.089 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010

Tgt Ion: 83 Resp: 27383  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.3  
85 64.6 32.0 96.0

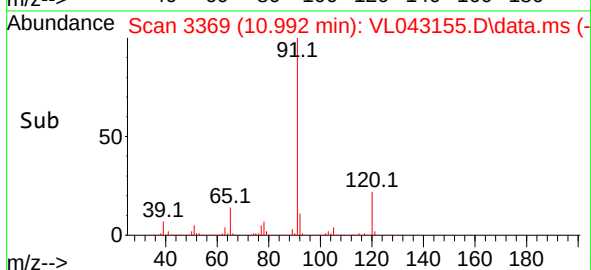
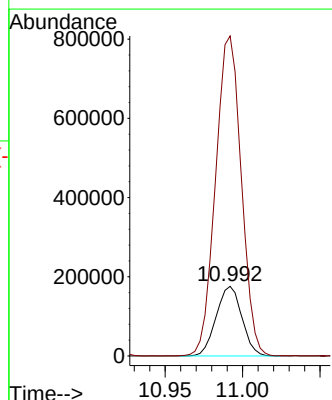
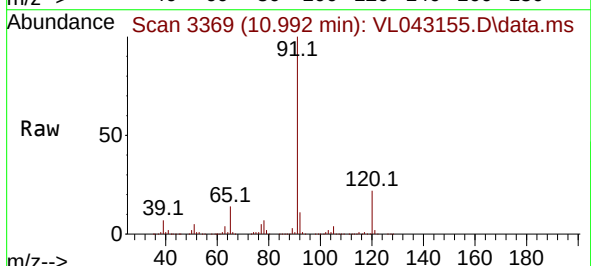
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

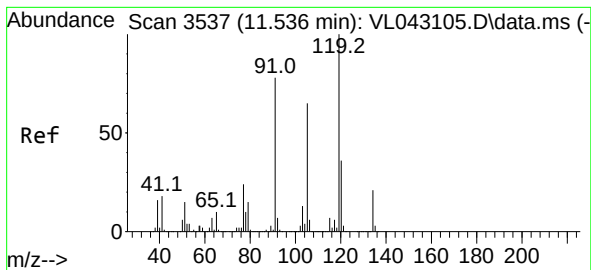


#64  
n-propylbenzene  
Concen: 10.438 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:120 Resp: 202414  
Ion Ratio Lower Upper  
120 100  
91 462.2 361.6 542.4







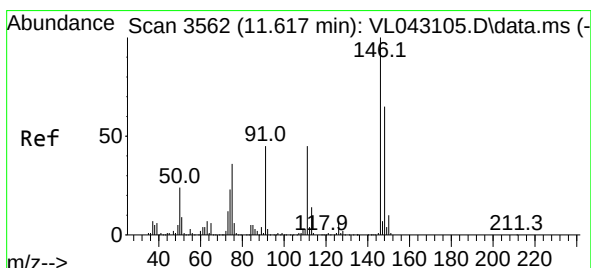
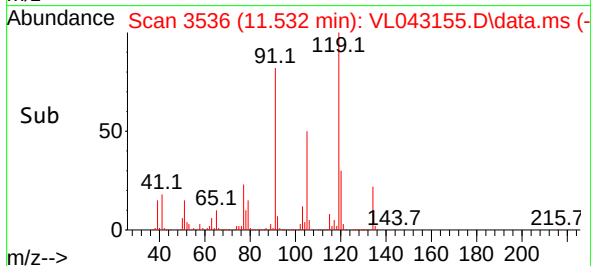
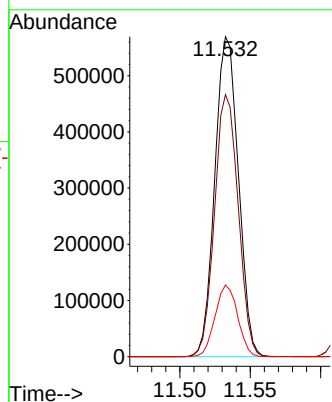
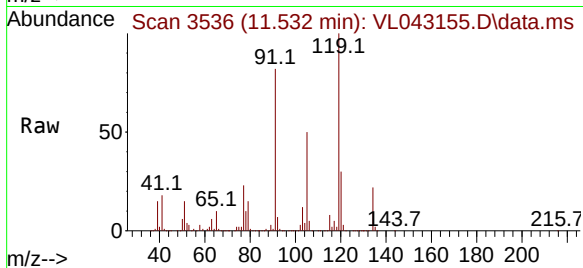
#65  
tert-Butylbenzene  
Concen: 10.266 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion:119 Resp: 664024  
Ion Ratio Lower Upper  
119 100  
91 82.1 63.4 95.0  
134 21.5 17.3 25.9

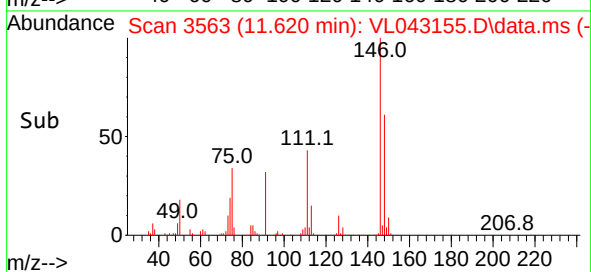
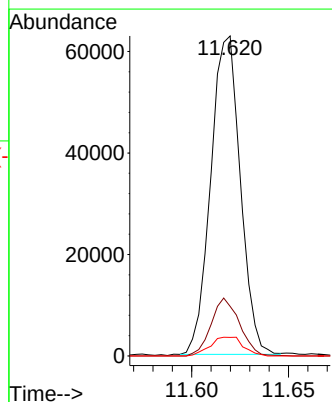
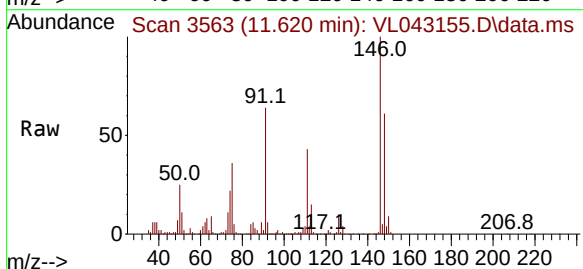
Manual Integrations  
APPROVED

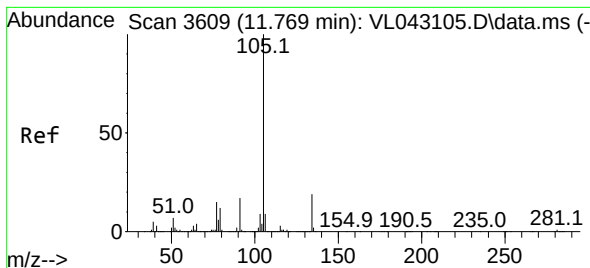
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#66  
Benzyl Chloride  
Concen: 9.258 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

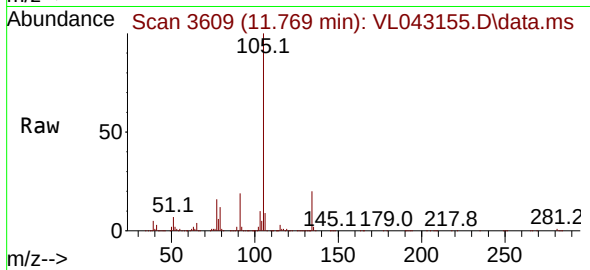
Tgt Ion: 91 Resp: 66651  
Ion Ratio Lower Upper  
91 100  
126 17.5 14.6 22.0  
128 6.6 4.6 6.8





#67  
sec-Butylbenzene  
Concen: 10.327 ppbv  
RT: 11.769 min Scan# 3609  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

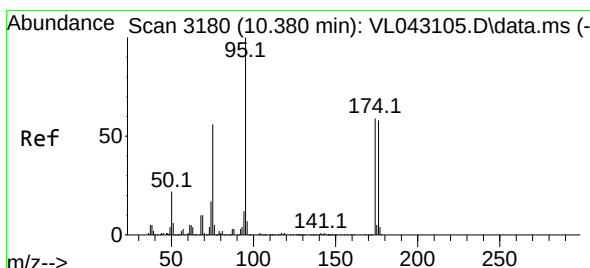
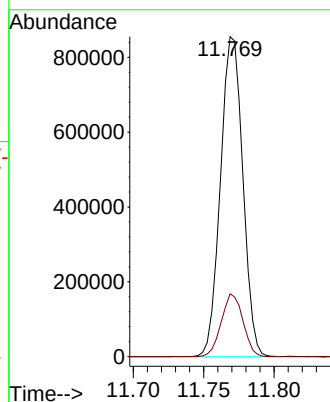
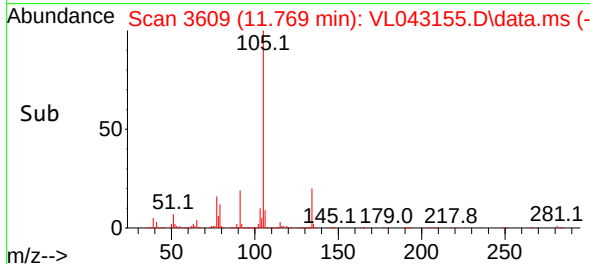
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



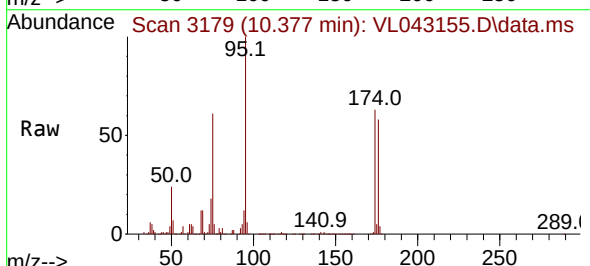
Tgt Ion:105 Resp: 94802  
Ion Ratio Lower Upper  
105 100  
134 19.1 15.5 23.3

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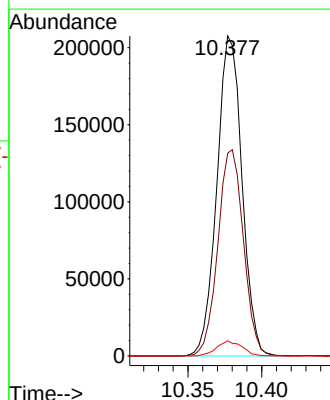
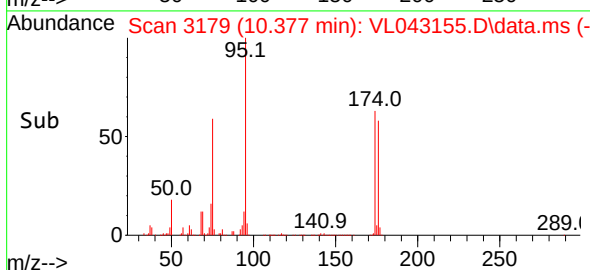
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

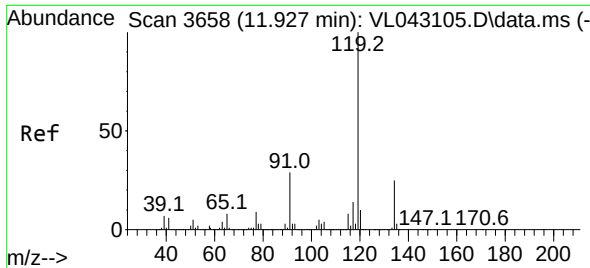


#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.570 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion: 95 Resp: 246332  
Ion Ratio Lower Upper  
95 100  
174 65.5 48.3 72.5  
175 4.8 3.8 5.8





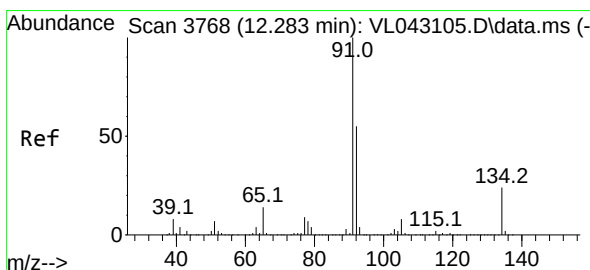
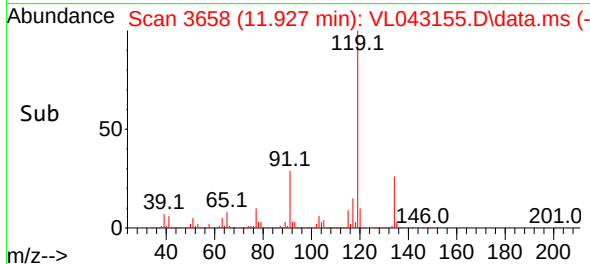
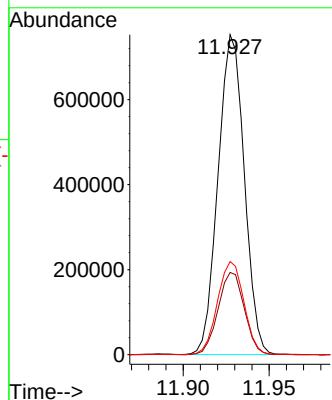
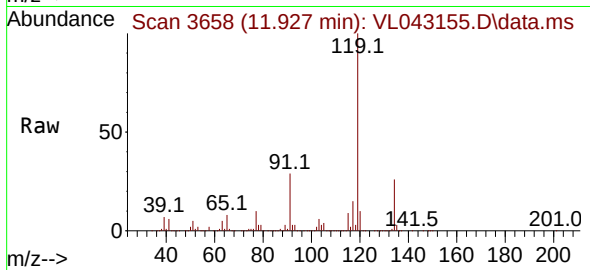
#69  
 p-Isopropyltoluene  
 Concen: 10.237 ppbv  
 RT: 11.927 min Scan# 3658  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:119 Resp: 798570  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 20.3 30.5  
 91 29.5 22.6 33.8

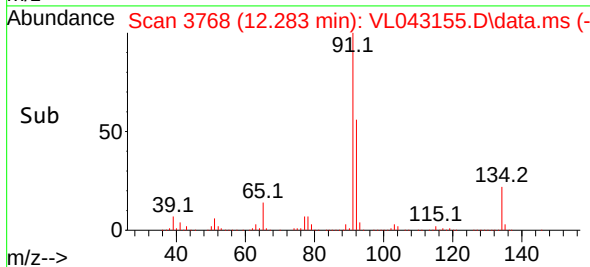
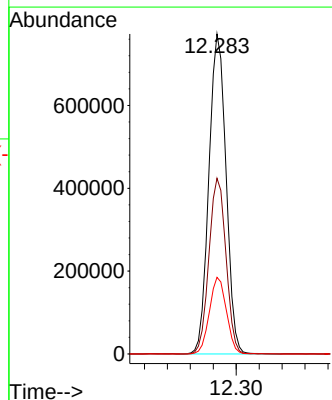
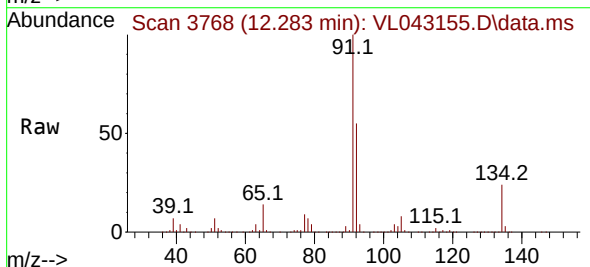
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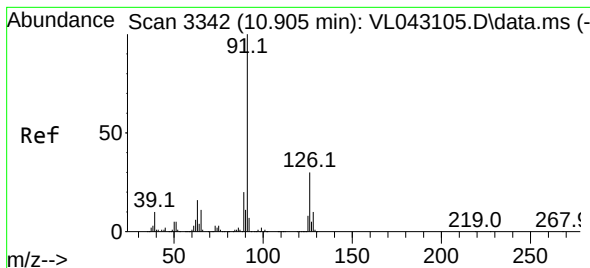
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#70  
 n-Butylbenzene  
 Concen: 10.410 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 800217  
 Ion Ratio Lower Upper  
 91 100  
 92 54.6 44.5 66.7  
 134 23.8 19.3 28.9





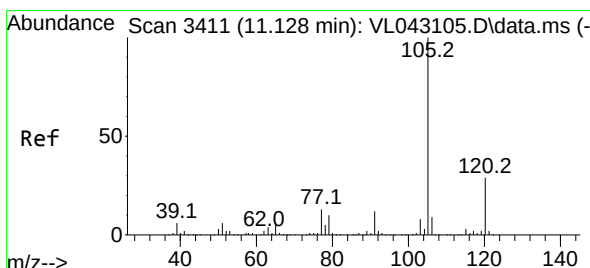
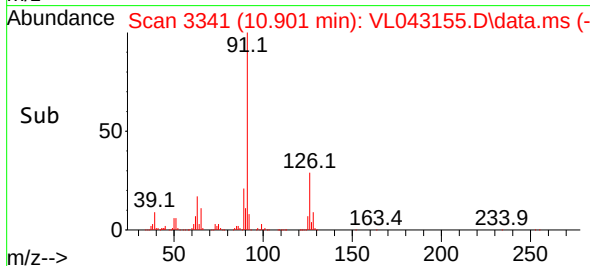
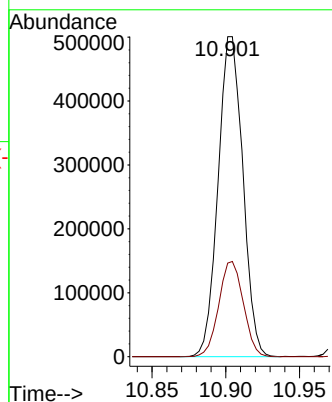
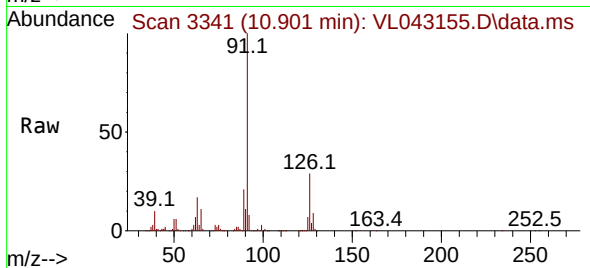
#71  
2-Chlorotoluene  
Concen: 10.461 ppbv  
RT: 10.901 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 58442  
Ion Ratio Lower Upper  
91 100  
126 29.5 12.0 48.0

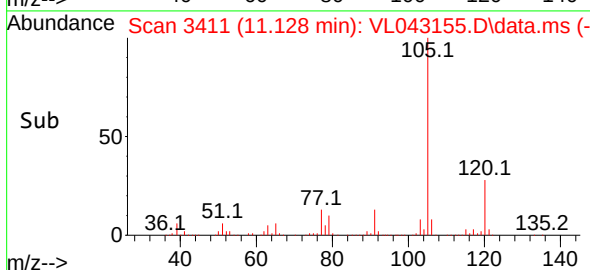
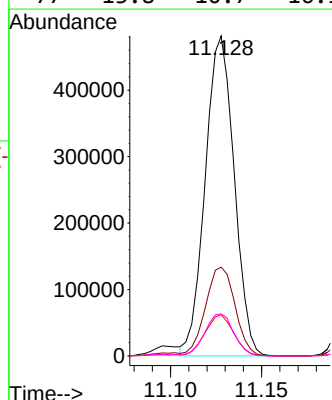
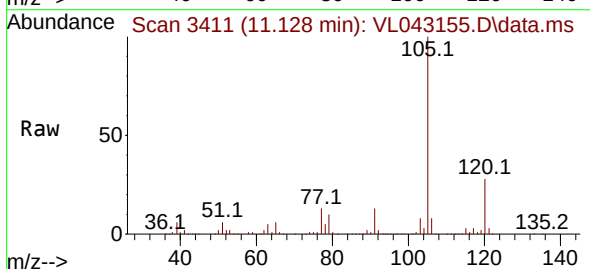
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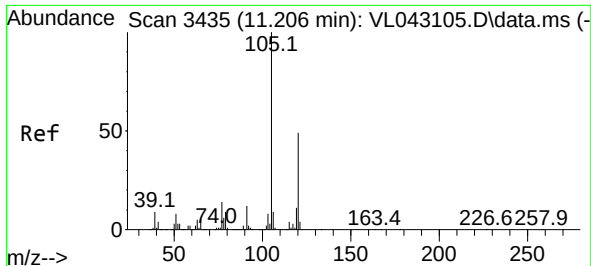
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#72  
4-Ethyltoluene  
Concen: 10.693 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 532971  
Ion Ratio Lower Upper  
105 100  
120 29.3 24.2 36.4  
91 13.3 10.0 15.0  
77 13.8 10.7 16.1





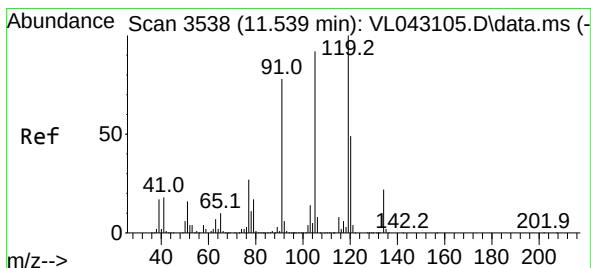
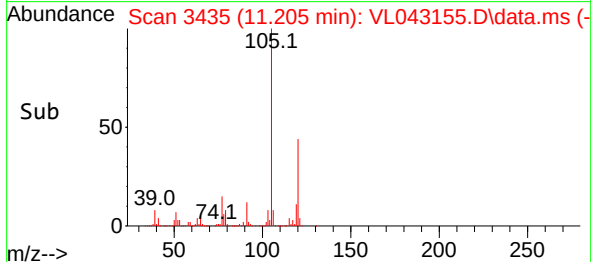
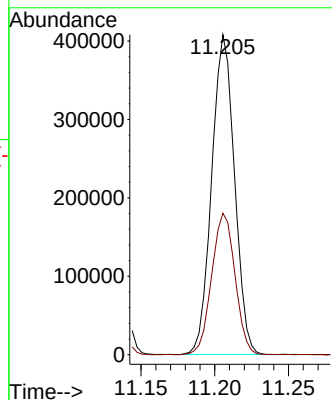
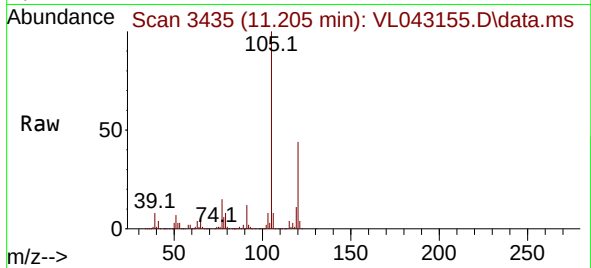
#73  
1,3,5-Trimethylbenzene  
Concen: 10.671 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:105 Resp: 43865  
Ion Ratio Lower Upper  
105 100  
120 44.2 39.0 58.6

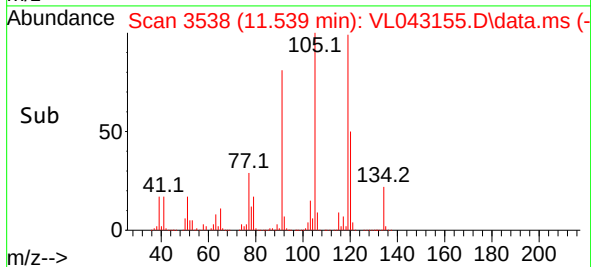
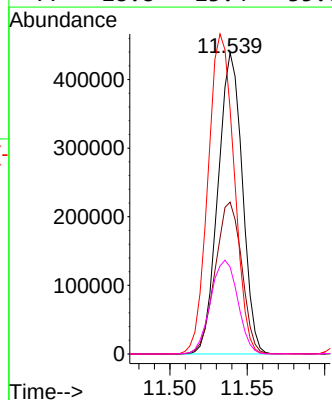
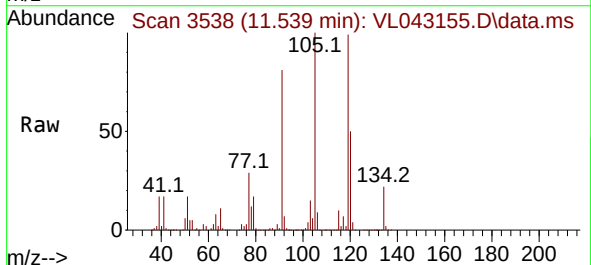
Manual Integrations  
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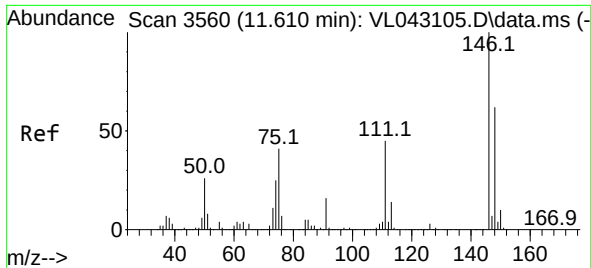
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 10.419 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

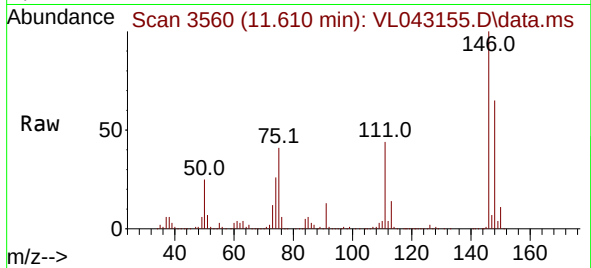
Tgt Ion:105 Resp: 479281  
Ion Ratio Lower Upper  
105 100  
120 50.4 42.8 64.2  
91 81.1 68.3 102.5  
77 28.8 23.4 35.0





#75  
1,3-Dichlorobenzene  
Concen: 10.943 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

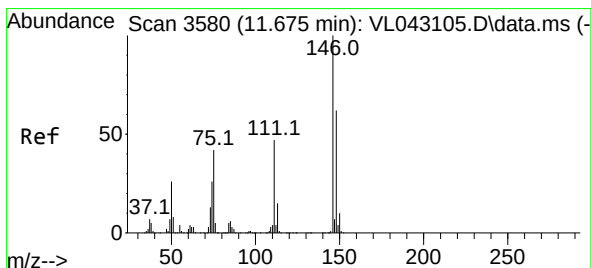
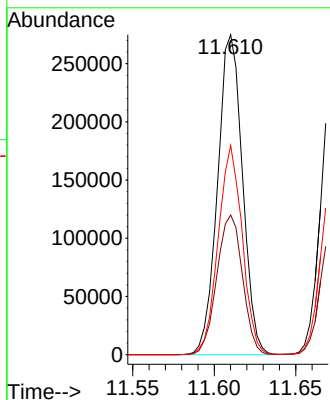
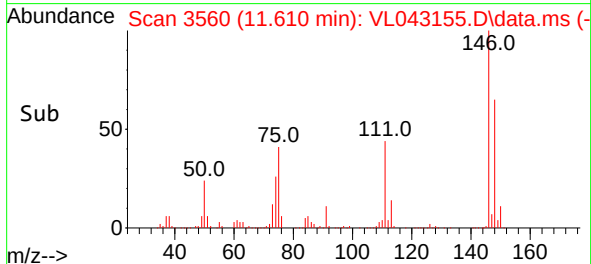
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



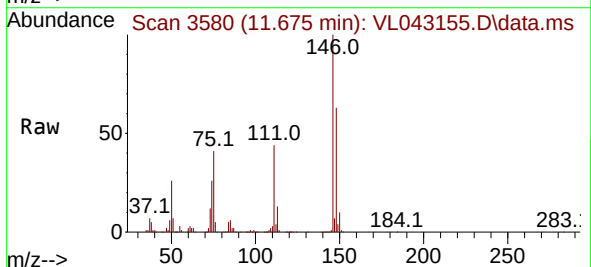
Tgt Ion:146 Resp: 291949  
Ion Ratio Lower Upper  
146 100  
111 45.0 23.3 69.9  
148 63.2 31.6 95.0

Manual Integrations  
APPROVED

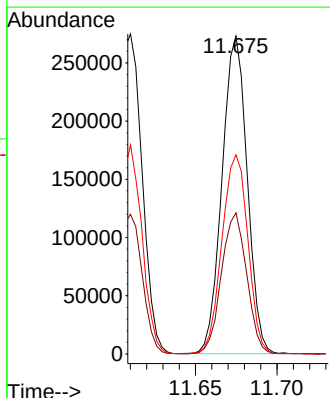
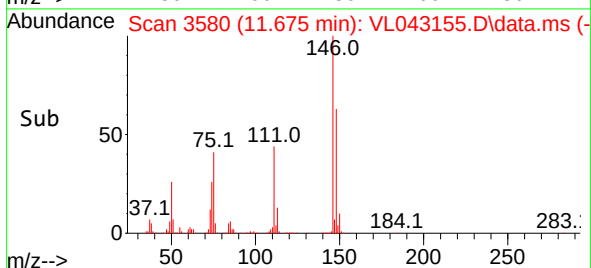
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

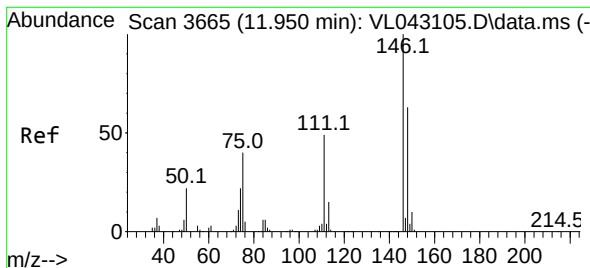


#76  
1,4-Dichlorobenzene  
Concen: 10.872 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19



Tgt Ion:146 Resp: 292491  
Ion Ratio Lower Upper  
146 100  
111 44.8 22.4 67.0  
148 64.9 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 10.670 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

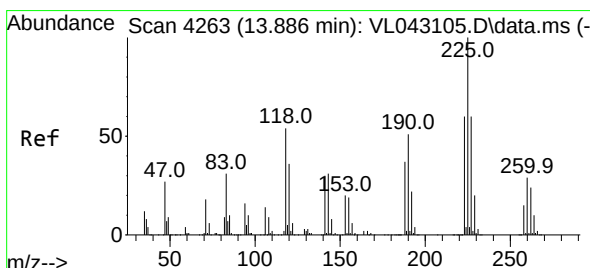
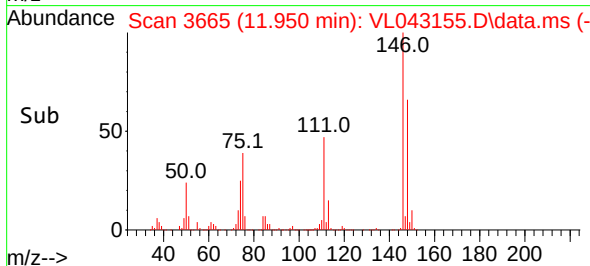
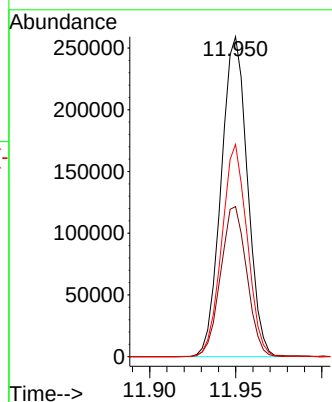
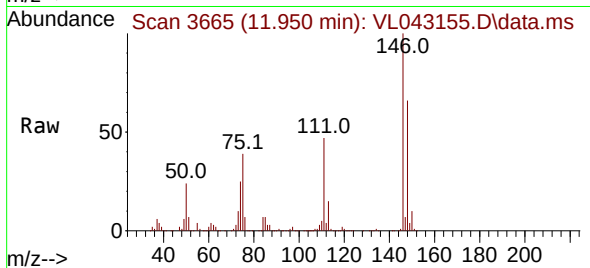
VSTDCCC010

Tgt Ion:146 Resp: 27540

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 46.9  | 24.0  | 72.0  |
| 148 | 64.3  | 31.1  | 93.3  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#78

Hexachloro-1,3-Butadiene

Concen: 10.417 ppbv

RT: 13.882 min Scan# 4262

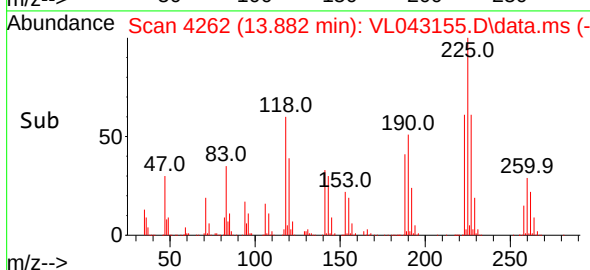
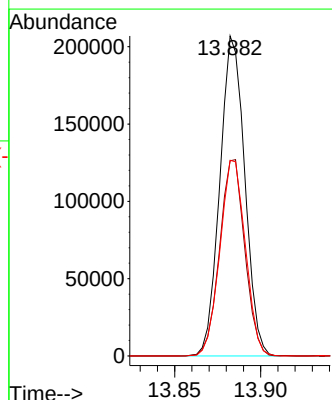
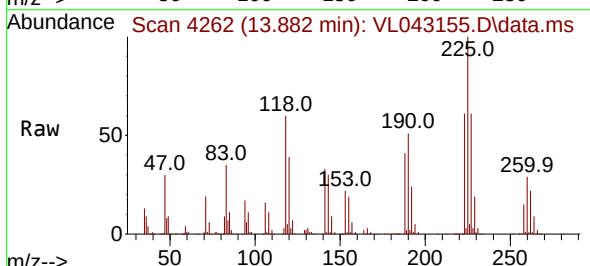
Delta R.T. -0.003 min

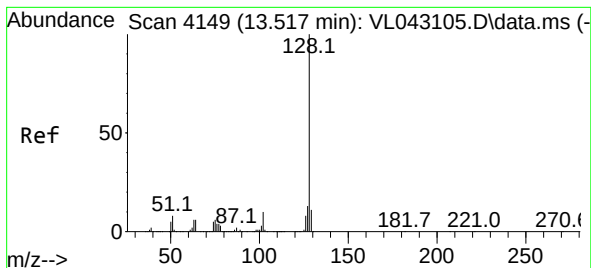
Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion:225 Resp: 208179

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 62.2  | 50.2  | 75.4  |
| 227 | 62.5  | 49.6  | 74.4  |





#79

Naphthalene

Concen: 10.113 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

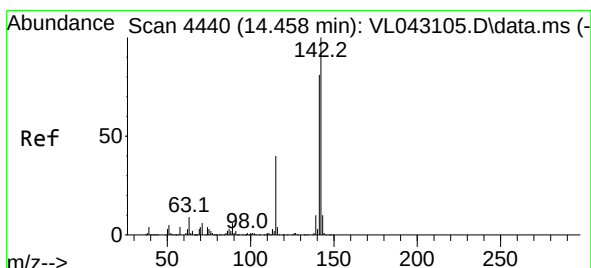
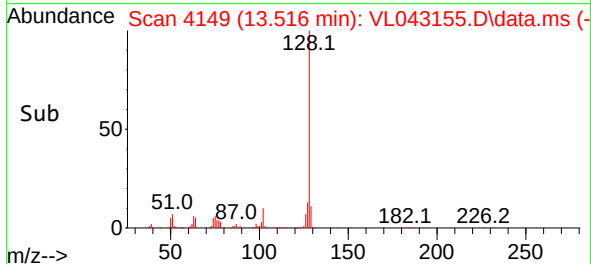
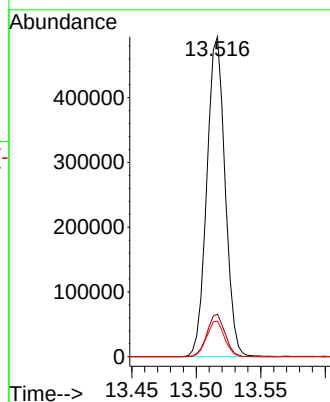
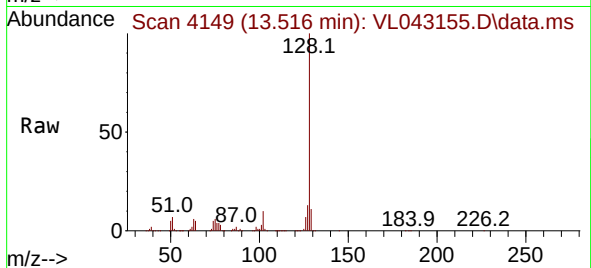
VSTDCCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 486229 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.3  | 10.5  | 15.7   |
| 129       | 11.1  | 9.1   | 13.7   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#80

Naphthalene, 2-methyl-

Concen: 10.942 ppbv

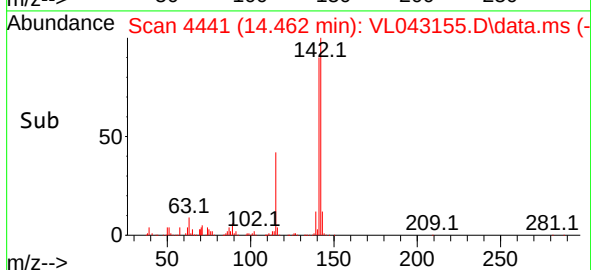
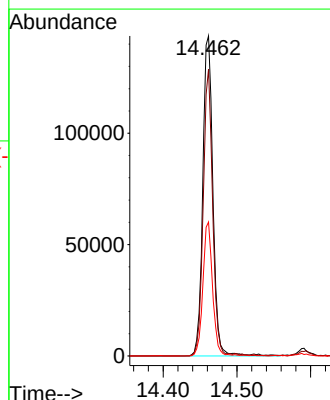
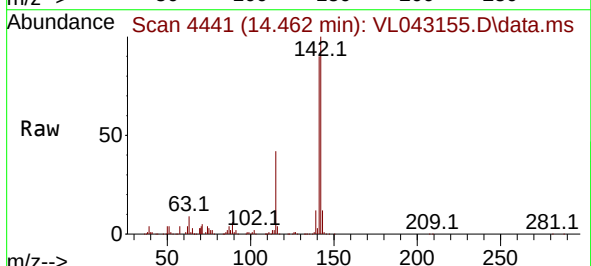
RT: 14.462 min Scan# 4441

Delta R.T. 0.003 min

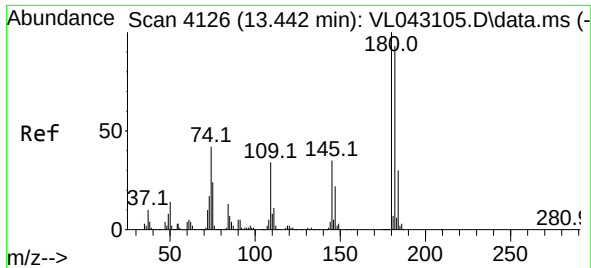
Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 137059 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 83.9  | 64.6  | 97.0   |
| 115       | 40.3  | 30.2  | 45.4   |

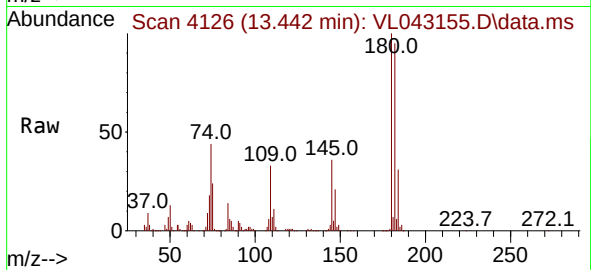






#81  
1,2,4-Trichlorobenzene  
Concen: 10.750 ppbv  
RT: 13.442 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

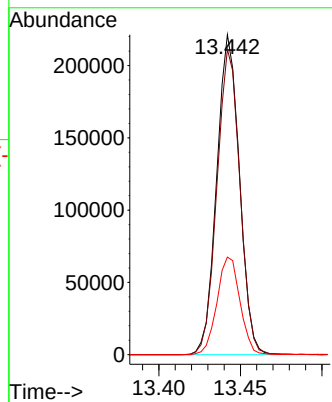
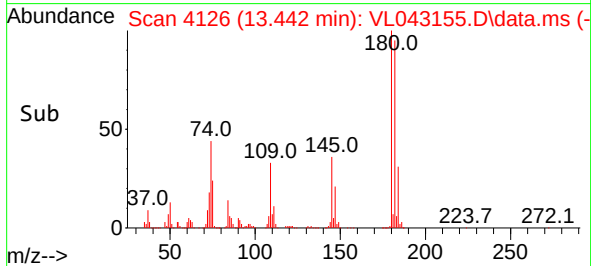
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion:180 Resp: 21452  
Ion Ratio Lower Upper  
180 100  
182 96.4 75.5 113.3  
184 30.9 23.9 35.9

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043155.D  
 Acq On : 06 Nov 2025 07:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.422 | 1.540 | -8.3  | 129   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.538 | 1.555 | -1.1  | 115   | 0.00     |
| 4    | Chloromethane               | 0.563 | 0.511 | 9.2   | 110   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.552 | 0.514 | 6.9   | 115   | 0.00     |
| 6 T  | Bromomethane                | 0.303 | 0.317 | -4.6  | 131   | 0.00     |
| 7    | Chloroethane                | 0.226 | 0.206 | 8.8   | 115   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.149 | 1.236 | -7.6  | 128   | 0.00     |
| 9 T  | Propene                     | 0.682 | 0.571 | 16.3  | 94    | 0.00     |
| 10 T | Heptane                     | 1.964 | 1.685 | 14.2  | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.391 | 1.658 | -19.2 | 143   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.120 | 1.290 | -15.2 | 142   | 0.00     |
| 13   | Ethanol                     | 0.252 | 0.186 | 26.2  | 104   | 0.00     |
| 14 T | Bromoethene                 | 0.416 | 0.447 | -7.5  | 130   | 0.00     |
| 15 T | Acetone                     | 1.348 | 1.223 | 9.3   | 120   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.642 | 0.564 | 12.1  | 110   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.850 | 1.830 | 1.1   | 116   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.488 | 0.538 | -10.2 | 132   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.839 | 0.733 | 12.6  | 109   | 0.00     |
| 20 T | Methylene Chloride          | 0.533 | 0.467 | 12.4  | 124   | 0.00     |
| 21 T | Allyl Chloride              | 0.993 | 0.925 | 6.8   | 109   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.583 | 0.623 | -6.9  | 131   | 0.00     |
| 23 T | Vinyl Acetate               | 1.974 | 2.118 | -7.3  | 140   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.127 | 1.188 | -5.4  | 124   | 0.00     |
| 25 T | Ethyl Acetate               | 3.342 | 3.159 | 5.5   | 108   | 0.00     |
| 26 T | Hexane                      | 1.540 | 1.464 | 4.9   | 112   | 0.00     |
| 27 T | Carbon Disulfide            | 1.411 | 1.508 | -6.9  | 123   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.701 | 0.712 | -1.6  | 130   | 0.00     |
| 29 T | Chloroform                  | 2.232 | 2.437 | -9.2  | 129   | 0.00     |
| 30 T | Cyclohexane                 | 1.344 | 1.256 | 6.5   | 111   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.471 | 1.509 | -2.6  | 115   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.324 | 2.520 | -8.4  | 127   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 34 T | 2-Butanone                  | 0.672 | 0.688 | -2.4  | 114   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.719 | 0.852 | -18.5 | 131   | 0.00     |
| 36 T | Benzene                     | 0.942 | 0.956 | -1.5  | 110   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.543 | 0.624 | -14.9 | 129   | 0.00     |
| 38 T | Trichloroethene             | 0.393 | 0.379 | 3.6   | 111   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.344 | 0.343 | 0.3   | 108   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.154 | 0.148 | 3.9   | 105   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.376 | 0.348 | 7.4   | 102   | 0.00     |
| 42 T | Bromodichloromethane        | 0.751 | 0.853 | -13.6 | 122   | 0.00     |
| 43   | Methyl Methacrylate         | 0.478 | 0.460 | 3.8   | 102   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.589 | 1.566 | 1.4   | 107   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.480 | 0.492 | -2.5  | 106   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.573 | 0.578 | -0.9  | 106   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.372 | 0.382 | -2.7  | 113   | 0.00     |
| 48 T | Dibromochloromethane        | 0.622 | 0.699 | -12.4 | 119   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043155.D  
Acq On : 06 Nov 2025 07:19  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Nov 07 00:16:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.505 | 0.603 | -19.4 | 124   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.928 | 0.866 | 6.7   | 99    | 0.00     |
| 51 T | 2-Hexanone                | 0.696 | 0.660 | 5.2   | 95    | 0.00     |
| 52 T | Tetrachloroethene         | 0.340 | 0.353 | -3.8  | 113   | 0.00     |
| 53 T | Toluene                   | 1.118 | 1.096 | 2.0   | 106   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.582 | 0.602 | -3.4  | 113   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.630 | 0.720 | -14.3 | 118   | 0.00     |
| 57 T | Chlorobenzene             | 0.936 | 0.957 | -2.2  | 109   | 0.00     |
| 58 T | Ethyl Benzene             | 1.716 | 1.761 | -2.6  | 107   | 0.00     |
| 59 T | m/p-Xylene                | 1.369 | 1.442 | -5.3  | 113   | 0.02     |
| 60 T | o-Xylene                  | 1.352 | 1.428 | -5.6  | 113   | 0.00     |
| 61 T | Styrene                   | 0.610 | 0.601 | 1.5   | 101   | 0.00     |
| 62   | Isopropylbenzene          | 2.443 | 2.581 | -5.6  | 112   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.905 | 0.913 | -0.9  | 114   | 0.00     |
| 64   | n-propylbenzene           | 0.647 | 0.675 | -4.3  | 111   | 0.00     |
| 65   | tert-Butylbenzene         | 2.157 | 2.215 | -2.7  | 113   | 0.00     |
| 66 T | Benzyl Chloride           | 0.240 | 0.222 | 7.5   | 89    | 0.00     |
| 67   | sec-Butylbenzene          | 3.062 | 3.162 | -3.3  | 114   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.777 | 0.822 | -5.8  | 102   | 0.00     |
| 69   | p-Isopropyltoluene        | 2.602 | 2.663 | -2.3  | 111   | 0.00     |
| 70   | n-Butylbenzene            | 2.564 | 2.669 | -4.1  | 111   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.863 | 1.949 | -4.6  | 111   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.662 | 1.778 | -7.0  | 113   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.371 | 1.463 | -6.7  | 113   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.534 | 1.599 | -4.2  | 116   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.890 | 0.974 | -9.4  | 115   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.897 | 0.976 | -8.8  | 115   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.861 | 0.919 | -6.7  | 116   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.667 | 0.694 | -4.0  | 121   | 0.00     |
| 79 T | Naphthalene               | 1.604 | 1.622 | -1.1  | 100   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.418 | 0.457 | -9.3  | 93    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.666 | 0.715 | -7.4  | 109   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043155.D  
Acq On : 06 Nov 2025 07:19  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Nov 07 00:16:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 107   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 10.832 | -8.3  | 129   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 10.109 | -1.1  | 115   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.075  | 9.3   | 110   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.304  | 7.0   | 115   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 10.482 | -4.8  | 131   | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.123  | 8.8   | 115   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 10.753 | -7.5  | 128   | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.370  | 16.3  | 94    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.579  | 14.2  | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 11.925 | -19.3 | 143   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 11.519 | -15.2 | 142   | 0.00     |
| 13   | Ethanol                     | 10.000 | 7.389  | 26.1  | 104   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 10.750 | -7.5  | 130   | 0.00     |
| 15 T | Acetone                     | 10.000 | 9.072  | 9.3   | 120   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.785  | 12.1  | 110   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 9.889  | 1.1   | 116   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 11.030 | -10.3 | 132   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.736  | 12.6  | 109   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 8.774  | 12.3  | 124   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.309  | 6.9   | 109   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.686 | -6.9  | 131   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.726 | -7.3  | 140   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 10.535 | -5.4  | 124   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.452  | 5.5   | 108   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.508  | 4.9   | 112   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.684 | -6.8  | 123   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 10.158 | -1.6  | 130   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.919 | -9.2  | 129   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.341  | 6.6   | 111   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.263 | -2.6  | 115   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 10.844 | -8.4  | 127   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 100   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 10.242 | -2.4  | 114   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 11.845 | -18.5 | 131   | 0.00     |
| 36 T | Benzene                     | 10.000 | 10.148 | -1.5  | 110   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 11.493 | -14.9 | 129   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.635  | 3.7   | 111   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.950  | 0.5   | 108   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.574  | 4.3   | 105   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.267  | 7.3   | 102   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 11.359 | -13.6 | 122   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 9.624  | 3.8   | 102   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.853  | 1.5   | 107   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 10.243 | -2.4  | 106   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 10.086 | -0.9  | 106   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 10.274 | -2.7  | 113   | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 11.241 | -12.4 | 119   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043155.D  
Acq On : 06 Nov 2025 07:19  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Nov 07 00:16:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 11.933 | -19.3 | 124   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.331  | 6.7   | 99    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 9.485  | 5.2   | 95    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 10.396 | -4.0  | 113   | 0.00     |
| 53 T | Toluene                   | 10.000 | 9.805  | 2.0   | 106   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.330 | -3.3  | 113   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 97    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 11.429 | -14.3 | 118   | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 10.228 | -2.3  | 109   | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 10.261 | -2.6  | 107   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 21.062 | -5.3  | 113   | 0.02     |
| 60 T | o-Xylene                  | 10.000 | 10.565 | -5.6  | 113   | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.839  | 1.6   | 101   | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 10.564 | -5.6  | 112   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 10.089 | -0.9  | 114   | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 10.438 | -4.4  | 111   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 10.266 | -2.7  | 113   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 9.258  | 7.4   | 89    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 10.327 | -3.3  | 114   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.570 | -5.7  | 102   | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 10.237 | -2.4  | 111   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 10.410 | -4.1  | 111   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 10.461 | -4.6  | 111   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.693 | -6.9  | 113   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.671 | -6.7  | 113   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 10.419 | -4.2  | 116   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 10.943 | -9.4  | 115   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.872 | -8.7  | 115   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 10.670 | -6.7  | 116   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 10.417 | -4.2  | 121   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 10.113 | -1.1  | 100   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 10.942 | -9.4  | 93    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.750 | -7.5  | 109   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



# QC SAMPLE DATA

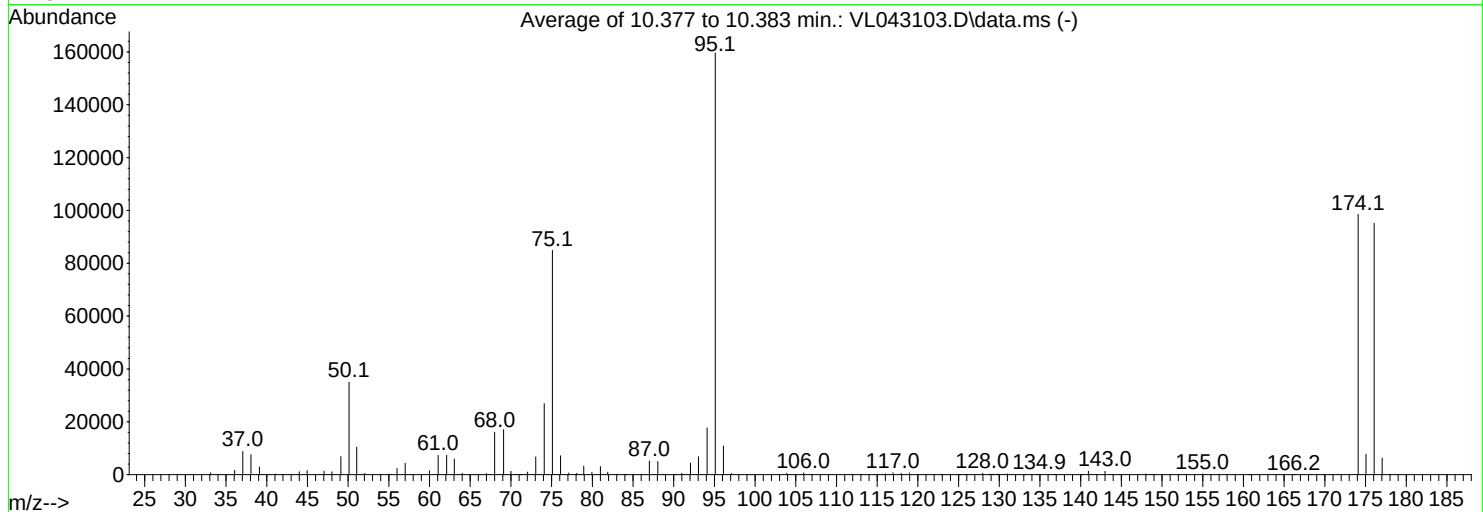
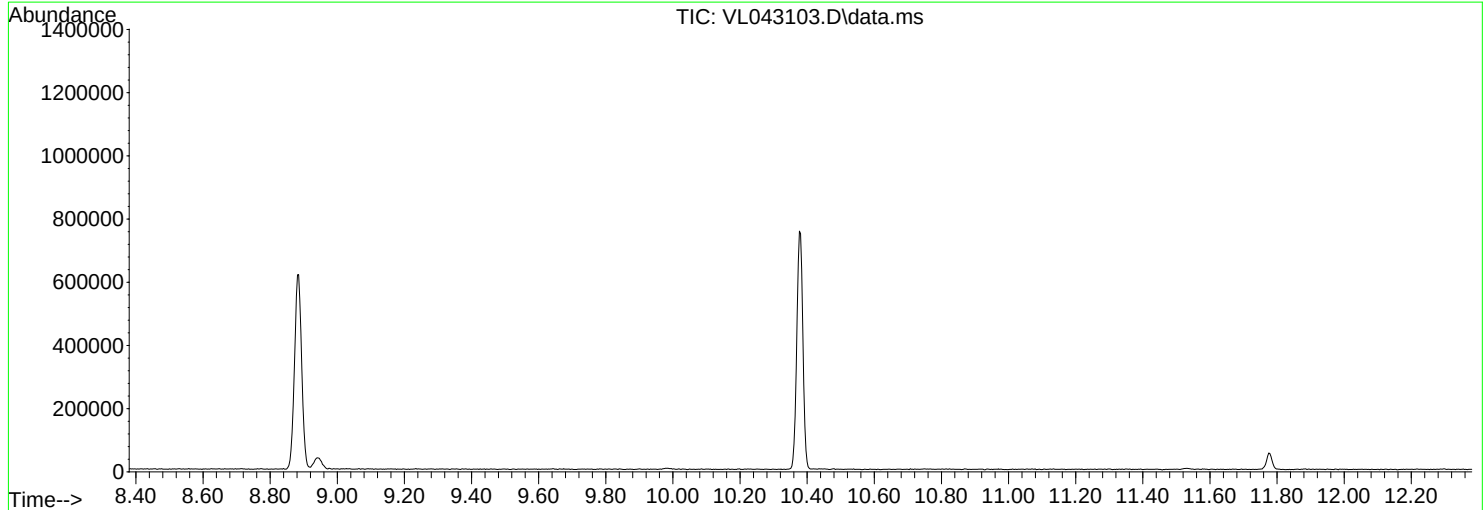
- 1
- 2
- 3
- 4
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043103.D  
Acq On : 14 Oct 2025 08:42  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3159

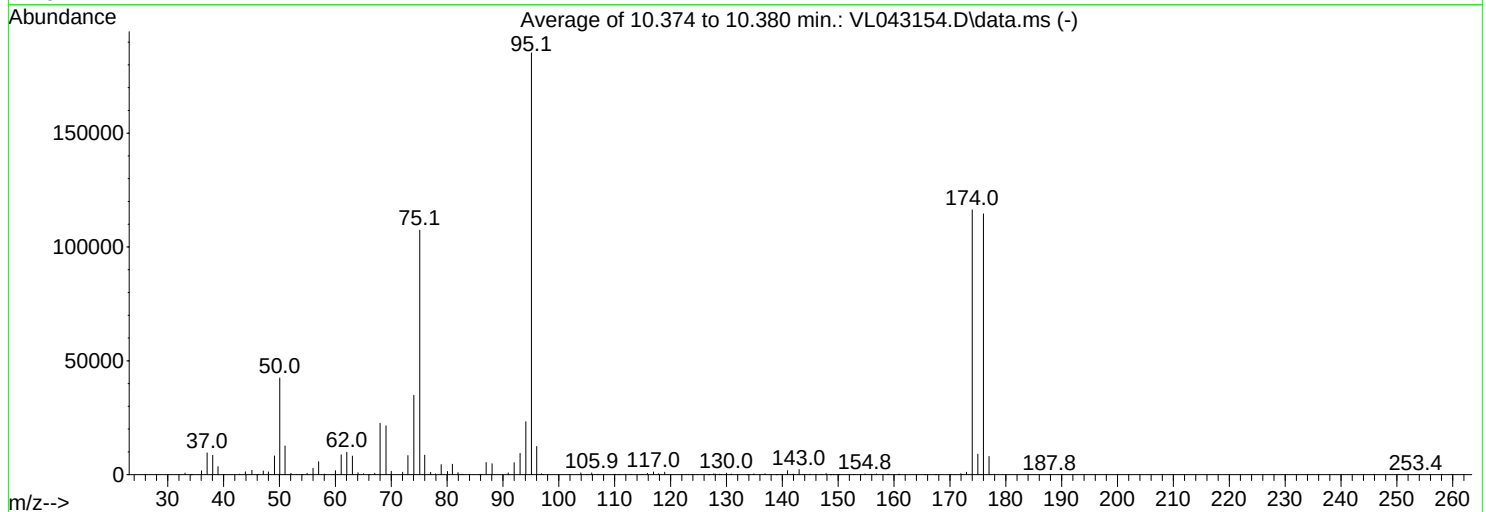
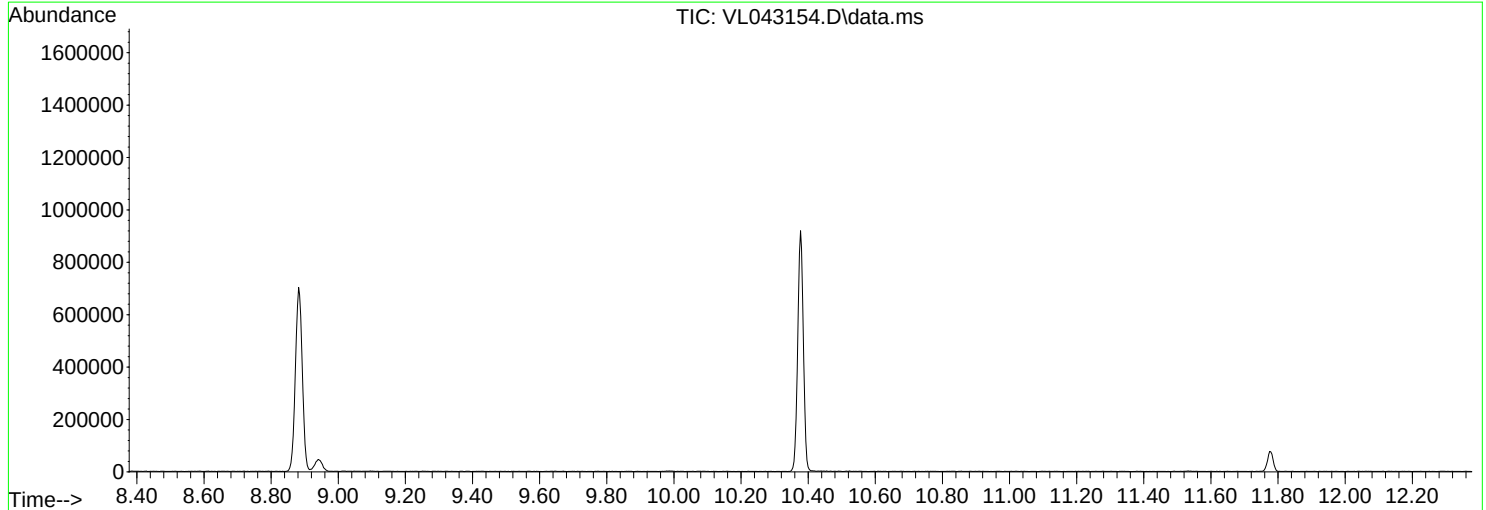
| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 21.9  | 35021  | PASS      |
| 75     | 95      | 30     | 66     | 53.2  | 84899  | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 159660 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 10862  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 174    | 95      | 50     | 120    | 61.7  | 98536  | PASS      |
| 175    | 174     | 4      | 9      | 7.8   | 7669   | PASS      |
| 176    | 174     | 93     | 101    | 96.5  | 95125  | PASS      |
| 177    | 176     | 5      | 9      | 6.6   | 6237   | PASS      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043154.D  
Acq On : 06 Nov 2025 06:24  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Wed Oct 15 02:12:58 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.9  | 42440  | PASS      |
| 75     | 95      | 30     | 66     | 58.0  | 107403 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 185280 | PASS      |
| 96     | 95      | 5      | 9      | 6.7   | 12391  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.9   | 1086   | PASS      |
| 174    | 95      | 50     | 120    | 62.8  | 116309 | PASS      |
| 175    | 174     | 4      | 9      | 7.7   | 9002   | PASS      |
| 176    | 174     | 93     | 101    | 98.5  | 114536 | PASS      |
| 177    | 176     | 5      | 9      | 7.0   | 7990   | PASS      |



## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: VL1106ABL01  
Lab Sample ID: VL1106ABL01  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected:  
Date Received:  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| <b>TARGETS</b> |                                |               |                |      |    |              |                     |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 0.11          | 0.54           | U    | 1  | 0.54         | 2.47                | 11/06/25 08:02 | VL110625 |
| 74-87-3        | Chloromethane                  | 0.10          | 0.21           | U    | 1  | 0.21         | 1.03                | 11/06/25 08:02 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 0.030         | 0.080          | U    | 1  | 0.080        | 0.080               | 11/06/25 08:02 | VL110625 |
| 74-83-9        | Bromomethane                   | 0.080         | 0.31           | U    | 1  | 0.31         | 1.94                | 11/06/25 08:02 | VL110625 |
| 75-00-3        | Chloroethane                   | 0.15          | 0.40           | U    | 1  | 0.40         | 1.32                | 11/06/25 08:02 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 0.080         | 0.24           | U    | 1  | 0.24         | 1.47                | 11/06/25 08:02 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 0.17          | 0.96           | U    | 1  | 0.96         | 2.81                | 11/06/25 08:02 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.14          | 1.07           | U    | 1  | 1.07         | 3.83                | 11/06/25 08:02 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.15          | 1.05           | U    | 1  | 1.05         | 3.49                | 11/06/25 08:02 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 0.16          | 0.49           | U    | 1  | 0.49         | 1.52                | 11/06/25 08:02 | VL110625 |
| 142-82-5       | Heptane                        | 0.17          | 0.70           | U    | 1  | 0.70         | 2.05                | 11/06/25 08:02 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 0.15          | 0.59           | U    | 1  | 0.59         | 1.98                | 11/06/25 08:02 | VL110625 |
| 67-64-1        | Acetone                        | 0.18          | 0.43           | U    | 1  | 0.43         | 1.19                | 11/06/25 08:02 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 0.080         | 0.25           | U    | 1  | 0.25         | 1.56                | 11/06/25 08:02 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.23          | 0.83           | U    | 1  | 0.83         | 1.80                | 11/06/25 08:02 | VL110625 |
| 75-09-2        | Methylene Chloride             | 0.23          | 0.80           | U    | 1  | 0.80         | 1.74                | 11/06/25 08:02 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.12          | 0.48           | U    | 1  | 0.48         | 1.98                | 11/06/25 08:02 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U    | 1  | 0.53         | 2.02                | 11/06/25 08:02 | VL110625 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U    | 1  | 0.76         | 1.72                | 11/06/25 08:02 | VL110625 |
| 78-93-3        | 2-Butanone                     | 0.060         | 0.18           | U    | 1  | 0.18         | 1.47                | 11/06/25 08:02 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.030         | 0.19           | U    | 1  | 0.19         | 0.19                | 11/06/25 08:02 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.10          | 0.40           | U    | 1  | 0.40         | 1.98                | 11/06/25 08:02 | VL110625 |
| 67-66-3        | Chloroform                     | 0.10          | 0.49           | U    | 1  | 0.49         | 2.44                | 11/06/25 08:02 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 08:02 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.14          | 0.65           | U    | 1  | 0.65         | 2.34                | 11/06/25 08:02 | VL110625 |
| 71-43-2        | Benzene                        | 0.080         | 0.26           | U    | 1  | 0.26         | 1.60                | 11/06/25 08:02 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U    | 1  | 0.36         | 2.02                | 11/06/25 08:02 | VL110625 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 08:02 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.13          | 0.60           | U    | 1  | 0.60         | 2.31                | 11/06/25 08:02 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 0.060         | 0.40           | U    | 1  | 0.40         | 3.35                | 11/06/25 08:02 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.10          | 0.41           | U    | 1  | 0.41         | 2.05                | 11/06/25 08:02 | VL110625 |
| 108-88-3       | Toluene                        | 0.16          | 0.60           | U    | 1  | 0.60         | 1.88                | 11/06/25 08:02 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.15          | 0.68           | U    | 1  | 0.68         | 2.27                | 11/06/25 08:02 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.11          | 0.50           | U    | 1  | 0.50         | 2.27                | 11/06/25 08:02 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.080         | 0.44           | U    | 1  | 0.44         | 2.73                | 11/06/25 08:02 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 0.090         | 0.77           | U    | 1  | 0.77         | 4.26                | 11/06/25 08:02 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 0.090         | 0.69           | U    | 1  | 0.69         | 0.77                | 11/06/25 08:02 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 0.020         | 0.14           | U    | 1  | 0.14         | 0.20                | 11/06/25 08:02 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 0.080         | 0.37           | U    | 1  | 0.37         | 2.30                | 11/06/25 08:02 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 0.19          | 0.83           | U    | 1  | 0.83         | 2.17                | 11/06/25 08:02 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 0.41          | 1.78           | U    | 1  | 1.78         | 4.34                | 11/06/25 08:02 | VL110625 |
| 95-47-6        | o-Xylene                       | 0.21          | 0.91           | U    | 1  | 0.91         | 2.17                | 11/06/25 08:02 | VL110625 |
| 100-42-5       | Styrene                        | 0.16          | 0.68           | U    | 1  | 0.68         | 2.13                | 11/06/25 08:02 | VL110625 |
| 75-25-2        | Bromoform                      | 0.050         | 0.52           | U    | 1  | 0.52         | 5.17                | 11/06/25 08:02 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 0.020         | 0.14           | U    | 1  | 0.14         | 0.21                | 11/06/25 08:02 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 0.17          | 0.88           | U    | 1  | 0.88         | 2.59                | 11/06/25 08:02 | VL110625 |

## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: VL1106ABL01  
Lab Sample ID: VL1106ABL01  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected:  
Date Received:  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number | Parameter                | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 08:02 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 08:02 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 0.050      | 0.30        | U    | 1  | 0.30      | 3.01             | 11/06/25 08:02 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 08:02 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 08:02 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 0.21       | 1.56        | U    | 1  | 1.56      | 3.71             | 11/06/25 08:02 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 0.13       | 1.39        | U    | 1  | 1.39      | 5.33             | 11/06/25 08:02 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 0.050      | 0.11        | U    | 1  | 0.11      | 1.11             | 11/06/25 08:02 | VL110625 |
| 91-20-3    | Naphthalene              | 0.010      | 0.050       | U    | 1  | 0.050     | 0.52             | 11/06/25 08:02 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 0.21       | 1.03        | U    | 1  | 1.03      | 2.46             | 11/06/25 08:02 | VL110625 |
| 110-54-3   | Hexane                   | 0.16       | 0.56        | U    | 1  | 0.56      | 1.76             | 11/06/25 08:02 | VL110625 |
| 107-05-1   | Allyl Chloride           | 0.11       | 0.34        | U    | 1  | 0.34      | 1.57             | 11/06/25 08:02 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 0.22       | 0.79        | U    | 1  | 0.79      | 1.80             | 11/06/25 08:02 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 0.14       | 0.57        | U    | 1  | 0.57      | 2.05             | 11/06/25 08:02 | VL110625 |

### SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 9.80 70 (65) - 130 98% SPK: 10

### INTERNAL STANDARDS

Area Count  
74-97-5 Bromochloromethane 111000  
540-36-3 1,4-Difluorobenzene 343000  
3114-55-4 Chlorobenzene-d5 293000

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043156.D  
Acq On : 06 Nov 2025 08:02  
Operator : SY/MD  
Sample : VL1106ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABL01

Quant Time: Nov 07 00:17:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 111463   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.956 | 114  | 342563   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 292913   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 222345   | 9.766    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.700% |

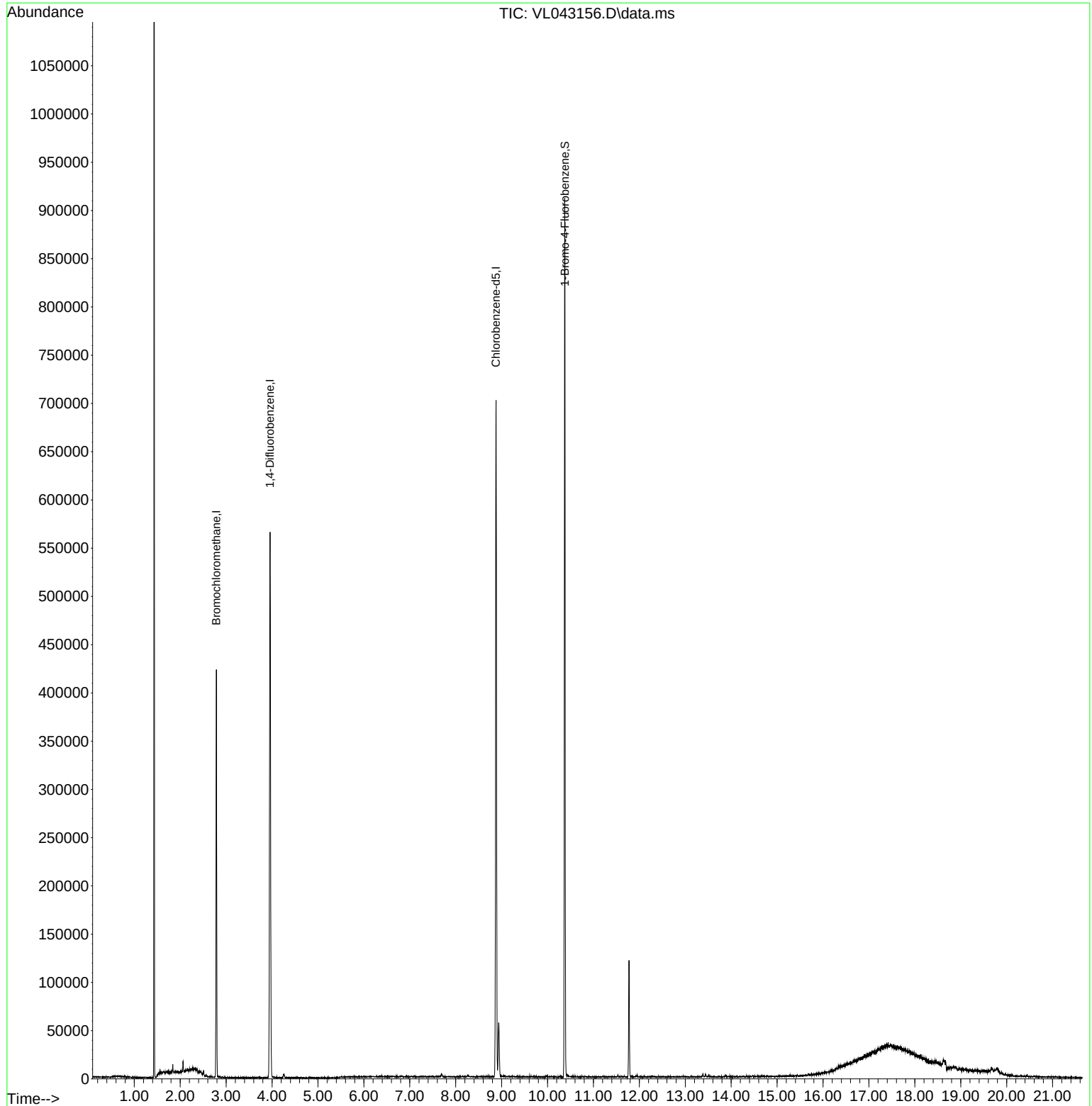
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

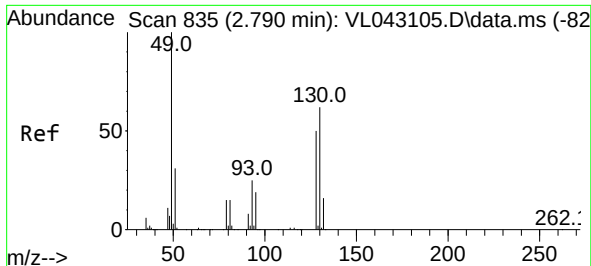
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043156.D  
Acq On : 06 Nov 2025 08:02  
Operator : SY/MD  
Sample : VL1106ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABL01

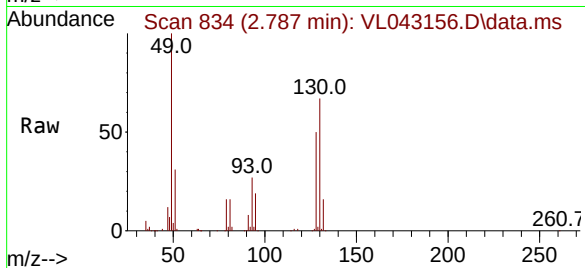
Quant Time: Nov 07 00:17:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration



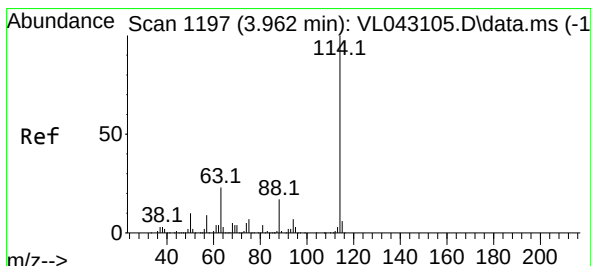
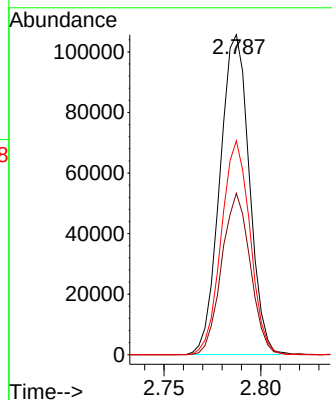
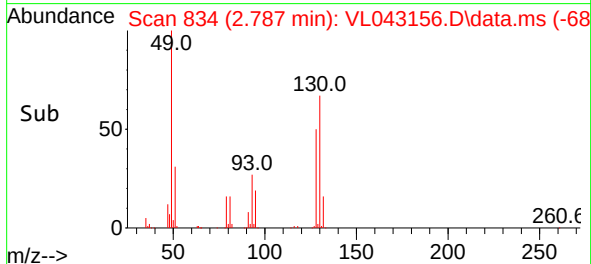


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043156.D  
Acq: 06 Nov 2025 08:02

Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABL01

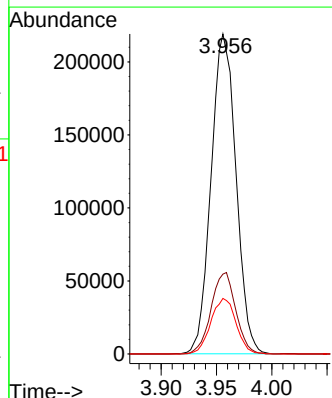
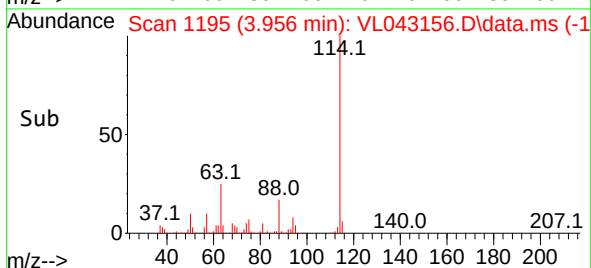
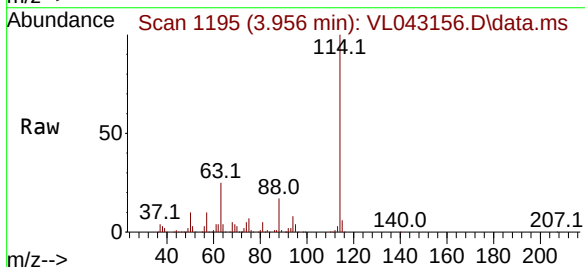


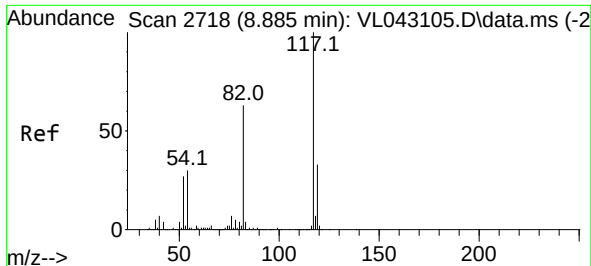
Tgt Ion: 49 Resp: 111463  
Ion Ratio Lower Upper  
49 100  
128 49.0 24.4 73.4  
130 65.5 31.0 93.0



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.956 min Scan# 1195  
Delta R.T. -0.006 min  
Lab File: VL043156.D  
Acq: 06 Nov 2025 08:02

Tgt Ion: 114 Resp: 342563  
Ion Ratio Lower Upper  
114 100  
63 25.3 19.3 28.9  
88 17.6 13.9 20.9

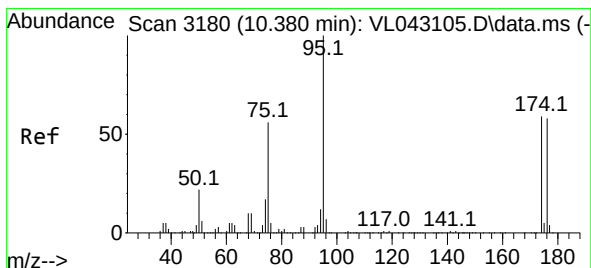
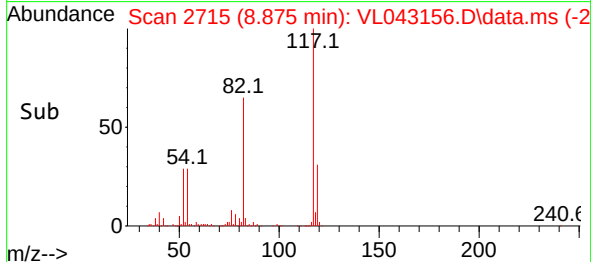
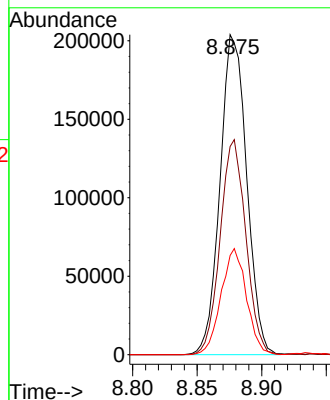
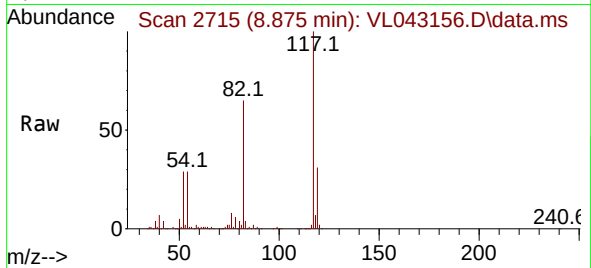




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL043156.D  
Acq: 06 Nov 2025 08:02

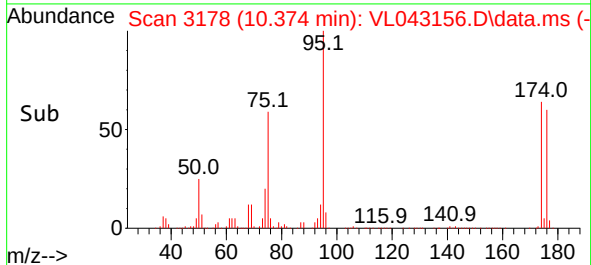
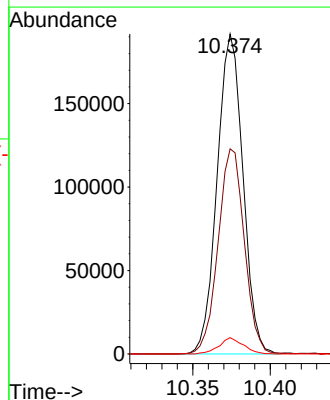
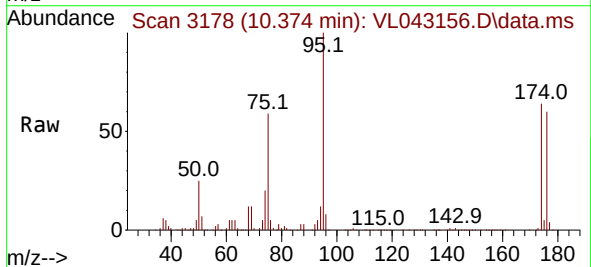
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABL01

Tgt Ion:117 Resp: 292913  
Ion Ratio Lower Upper  
117 100  
82 64.7 53.8 80.8  
119 31.8 25.4 38.0



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.766 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. -0.006 min  
Lab File: VL043156.D  
Acq: 06 Nov 2025 08:02

Tgt Ion: 95 Resp: 222345  
Ion Ratio Lower Upper  
95 100  
174 65.2 48.3 72.5  
175 4.8 3.8 5.8



## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: VL1106ABS01  
Lab Sample ID: VL1106ABS01  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected:  
Date Received:  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| <b>TARGETS</b> |                                |               |                |      |    |              |                     |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 10.8          | 53.4           |      | 1  | 0.54         | 2.47                | 11/06/25 08:45 | VL110625 |
| 74-87-3        | Chloromethane                  | 9.10          | 18.8           |      | 1  | 0.21         | 1.03                | 11/06/25 08:45 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 9.10          | 23.3           |      | 1  | 0.080        | 0.080               | 11/06/25 08:45 | VL110625 |
| 74-83-9        | Bromomethane                   | 10.2          | 39.6           |      | 1  | 0.31         | 1.94                | 11/06/25 08:45 | VL110625 |
| 75-00-3        | Chloroethane                   | 9.30          | 24.5           |      | 1  | 0.40         | 1.32                | 11/06/25 08:45 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 9.30          | 27.4           |      | 1  | 0.24         | 1.47                | 11/06/25 08:45 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 11.7          | 65.8           |      | 1  | 0.96         | 2.81                | 11/06/25 08:45 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 11.2          | 85.8           |      | 1  | 1.07         | 3.83                | 11/06/25 08:45 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 10.7          | 74.8           |      | 1  | 1.05         | 3.49                | 11/06/25 08:45 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 9.90          | 30.0           |      | 1  | 0.49         | 1.52                | 11/06/25 08:45 | VL110625 |
| 142-82-5       | Heptane                        | 8.70          | 35.6           |      | 1  | 0.70         | 2.05                | 11/06/25 08:45 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 11.0          | 43.6           |      | 1  | 0.59         | 1.98                | 11/06/25 08:45 | VL110625 |
| 67-64-1        | Acetone                        | 8.90          | 21.1           |      | 1  | 0.43         | 1.19                | 11/06/25 08:45 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 10.7          | 33.3           |      | 1  | 0.25         | 1.56                | 11/06/25 08:45 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 9.80          | 35.3           |      | 1  | 0.83         | 1.80                | 11/06/25 08:45 | VL110625 |
| 75-09-2        | Methylene Chloride             | 9.10          | 31.6           |      | 1  | 0.80         | 1.74                | 11/06/25 08:45 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 10.7          | 42.4           |      | 1  | 0.48         | 1.98                | 11/06/25 08:45 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 10.5          | 42.5           |      | 1  | 0.53         | 2.02                | 11/06/25 08:45 | VL110625 |
| 110-82-7       | Cyclohexane                    | 9.30          | 32.0           |      | 1  | 0.76         | 1.72                | 11/06/25 08:45 | VL110625 |
| 78-93-3        | 2-Butanone                     | 10.4          | 30.7           |      | 1  | 0.18         | 1.47                | 11/06/25 08:45 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 11.8          | 74.2           |      | 1  | 0.19         | 0.19                | 11/06/25 08:45 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 10.5          | 41.6           |      | 1  | 0.40         | 1.98                | 11/06/25 08:45 | VL110625 |
| 67-66-3        | Chloroform                     | 11.0          | 53.7           |      | 1  | 0.49         | 2.44                | 11/06/25 08:45 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 10.7          | 58.4           |      | 1  | 0.11         | 0.16                | 11/06/25 08:45 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 9.80          | 45.8           |      | 1  | 0.65         | 2.34                | 11/06/25 08:45 | VL110625 |
| 71-43-2        | Benzene                        | 10.2          | 32.6           |      | 1  | 0.26         | 1.60                | 11/06/25 08:45 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 11.3          | 45.7           |      | 1  | 0.36         | 2.02                | 11/06/25 08:45 | VL110625 |
| 79-01-6        | Trichloroethene                | 9.60          | 51.6           |      | 1  | 0.11         | 0.16                | 11/06/25 08:45 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 10.0          | 46.2           |      | 1  | 0.60         | 2.31                | 11/06/25 08:45 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 11.4          | 76.4           |      | 1  | 0.40         | 3.35                | 11/06/25 08:45 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 9.40          | 38.5           |      | 1  | 0.41         | 2.05                | 11/06/25 08:45 | VL110625 |
| 108-88-3       | Toluene                        | 9.70          | 36.5           |      | 1  | 0.60         | 1.88                | 11/06/25 08:45 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 10.1          | 45.9           |      | 1  | 0.68         | 2.27                | 11/06/25 08:45 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 10.0          | 45.4           |      | 1  | 0.50         | 2.27                | 11/06/25 08:45 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 10.3          | 56.2           |      | 1  | 0.44         | 2.73                | 11/06/25 08:45 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 11.1          | 94.6           |      | 1  | 0.77         | 4.26                | 11/06/25 08:45 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 10.3          | 79.2           |      | 1  | 0.69         | 0.77                | 11/06/25 08:45 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 10.3          | 69.8           |      | 1  | 0.14         | 0.20                | 11/06/25 08:45 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 10.2          | 47.0           |      | 1  | 0.37         | 2.30                | 11/06/25 08:45 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 10.3          | 44.7           |      | 1  | 0.83         | 2.17                | 11/06/25 08:45 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 20.9          | 90.8           |      | 1  | 1.78         | 4.34                | 11/06/25 08:45 | VL110625 |
| 95-47-6        | o-Xylene                       | 10.4          | 45.2           |      | 1  | 0.91         | 2.17                | 11/06/25 08:45 | VL110625 |
| 100-42-5       | Styrene                        | 9.80          | 41.7           |      | 1  | 0.68         | 2.13                | 11/06/25 08:45 | VL110625 |
| 75-25-2        | Bromoform                      | 11.6          | 120            |      | 1  | 0.52         | 5.17                | 11/06/25 08:45 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 9.90          | 68.0           |      | 1  | 0.14         | 0.21                | 11/06/25 08:45 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 10.4          | 53.9           |      | 1  | 0.88         | 2.59                | 11/06/25 08:45 | VL110625 |

## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: VL1106ABS01  
Lab Sample ID: VL1106ABS01  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected:  
Date Received:  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number | Parameter                | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 10.7          | 52.6           |      | 1  | 0.88         | 2.46                | 11/06/25 08:45 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 10.4          | 51.1           |      | 1  | 0.88         | 2.46                | 11/06/25 08:45 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 10.9          | 65.5           |      | 1  | 0.30         | 3.01                | 11/06/25 08:45 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 10.8          | 64.9           |      | 1  | 0.78         | 3.01                | 11/06/25 08:45 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 10.7          | 64.3           |      | 1  | 0.78         | 3.01                | 11/06/25 08:45 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 10.8          | 80.2           |      | 1  | 1.56         | 3.71                | 11/06/25 08:45 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 10.4          | 111            |      | 1  | 1.39         | 5.33                | 11/06/25 08:45 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 8.80          | 19.5           |      | 1  | 0.11         | 1.11                | 11/06/25 08:45 | VL110625 |
| 91-20-3    | Naphthalene              | 10.1          | 53.0           |      | 1  | 0.050        | 0.52                | 11/06/25 08:45 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 10.7          | 52.6           |      | 1  | 1.03         | 2.46                | 11/06/25 08:45 | VL110625 |
| 110-54-3   | Hexane                   | 9.40          | 33.1           |      | 1  | 0.56         | 1.76                | 11/06/25 08:45 | VL110625 |
| 107-05-1   | Allyl Chloride           | 9.20          | 28.8           |      | 1  | 0.34         | 1.57                | 11/06/25 08:45 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 9.40          | 33.9           |      | 1  | 0.79         | 1.80                | 11/06/25 08:45 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 9.80          | 40.1           |      | 1  | 0.57         | 2.05                | 11/06/25 08:45 | VL110625 |

### SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.2 70 (65) - 130 102% SPK: 10

### INTERNAL STANDARDS

|                              | Area Count |
|------------------------------|------------|
| 74-97-5 Bromochloromethane   | 111000     |
| 540-36-3 1,4-Difluorobenzene | 341000     |
| 3114-55-4 Chlorobenzene-d5   | 300000     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043157.D  
 Acq On : 06 Nov 2025 08:45  
 Operator : SY/MD  
 Sample : VL1106ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
 Supervised By : Mahesh Dadoda 11/10/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.787  | 49    | 111380   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 340583   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 299526   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 237797   | 10.214   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 102.100% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 170728   | 10.782   | ppbv  | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 171506   | 10.011   | ppbv  | 97       |
| 4) Chloromethane              | 1.534  | 50    | 57299    | 9.134    | ppbv  | 100      |
| 5) Vinyl Chloride             | 1.580  | 62    | 55895    | 9.085    | ppbv  | 100      |
| 6) Bromomethane               | 1.667  | 94    | 34540    | 10.238   | ppbv  | 96       |
| 7) Chloroethane               | 1.706  | 64    | 23501    | 9.342    | ppbv  | 89       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 136433   | 10.661   | ppbv  | 92       |
| 9) Propene                    | 1.483  | 41    | 64760    | 8.523    | ppbv  | 99       |
| 10) Heptane                   | 4.978  | 43    | 189938   | 8.683    | ppbv  | 98       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 181952   | 11.748   | ppbv  | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 139934   | 11.222   | ppbv  | 96       |
| 13) Ethanol                   | 1.719  | 45    | 21163    | 7.530    | ppbv  | 98       |
| 14) Bromoethene               | 1.780  | 108   | 49693    | 10.727   | ppbv  | 99       |
| 15) Acetone                   | 1.835  | 43    | 134115   | 8.934    | ppbv  | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 62625    | 8.753    | ppbv  | 98       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 203295   | 9.865    | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 59563    | 10.957   | ppbv  | 84       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 80943    | 8.657    | ppbv  | 92       |
| 20) Methylene Chloride        | 2.062  | 84    | 53912    | 9.085    | ppbv  | 94       |
| 21) Allyl Chloride            | 2.094  | 41    | 101879   | 9.210    | ppbv  | 94       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 69305    | 10.665   | ppbv  | 93       |
| 23) Vinyl Acetate             | 2.460  | 43    | 232125   | 10.556   | ppbv  | 99       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 131599   | 10.482   | ppbv  | 98       |
| 25) Ethyl Acetate             | 2.832  | 43    | 354153   | 9.513    | ppbv  | 100      |
| 26) Hexane                    | 2.826  | 57    | 161029   | 9.387    | ppbv  | 98       |
| 27) Carbon Disulfide          | 2.149  | 76    | 167737   | 10.672   | ppbv  | 98       |
| 28) Methyl tert-Butyl Ether   | 2.437  | 73    | 76290    | 9.775    | ppbv  | 94       |
| 29) Chloroform                | 2.848  | 83    | 272377   | 10.958   | ppbv  | 100      |
| 30) Cyclohexane               | 3.855  | 84    | 139050   | 9.287    | ppbv  | 94       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 171275   | 10.456   | ppbv  | 97       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 276541   | 10.684   | ppbv  | 100      |
| 34) 2-Butanone                | 2.554  | 43    | 237347   | 10.367   | ppbv  | 100      |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 289096   | 11.806   | ppbv  | 94       |
| 36) Benzene                   | 3.654  | 78    | 326982   | 10.193   | ppbv  | 99       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 208468   | 11.281   | ppbv  | 98       |
| 38) Trichloroethene           | 4.544  | 130   | 129044   | 9.632    | ppbv  | 96       |
| 39) 1,2-Dichloropropane       | 4.308  | 63    | 117166   | 9.991    | ppbv  | 93       |
| 40) 1,4-Dioxane               | 4.574  | 88    | 49474    | 9.428    | ppbv  | # 96     |
| 41) Tetrahydrofuran           | 3.049  | 42    | 118637   | 9.265    | ppbv  | 97       |
| 42) Bromodichloromethane      | 4.486  | 83    | 291226   | 11.387   | ppbv  | 99       |
| 43) Methyl Methacrylate       | 4.875  | 69    | 160012   | 9.821    | ppbv  | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 531922   | 9.828    | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.409  | 75    | 165316   | 10.111   | ppbv  | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043157.D  
 Acq On : 06 Nov 2025 08:45  
 Operator : SY/MD  
 Sample : VL1106ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
 Supervised By : Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

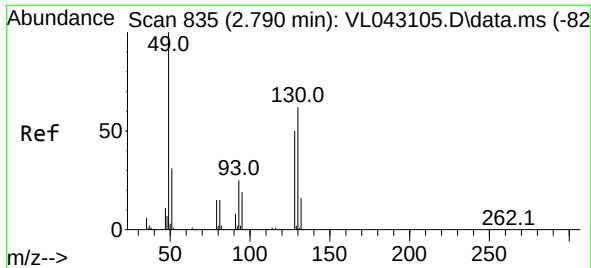
QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 195336   | 10.001 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 130064   | 10.270 | ppbv   | 92       |
| 48) Dibromochloromethane      | 7.383  | 129  | 234841   | 11.091 | ppbv   | 98       |
| 49) Bromoform                 | 9.480  | 173  | 199190   | 11.573 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.739  | 43   | 295763   | 9.361  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.428  | 43   | 227473   | 9.599  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.221  | 164  | 119279   | 10.312 | ppbv   | 97       |
| 53) Toluene                   | 6.927  | 91   | 368487   | 9.679  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 205210   | 10.345 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 213620   | 11.314 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.917  | 112  | 286347   | 10.219 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.351  | 91   | 529847   | 10.307 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.548  | 91   | 856422m  | 20.888 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 422838   | 10.442 | ppbv   | 100      |
| 61) Styrene                   | 9.865  | 104  | 179195   | 9.802  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 762154   | 10.416 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 269723   | 9.947  | ppbv   | 98       |
| 64) n-propylbenzene           | 10.989 | 120  | 201938   | 10.424 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 662570   | 10.254 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.613 | 91   | 64257    | 8.935  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 957255   | 10.438 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 795241   | 10.205 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 798019   | 10.392 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 579642   | 10.386 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 530791   | 10.660 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 440663   | 10.731 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 477453   | 10.390 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 290341   | 10.894 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 291409   | 10.843 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 276598   | 10.728 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 207474   | 10.393 | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 486413   | 10.127 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 142500   | 11.387 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 216292   | 10.849 | ppbv   | 99       |

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





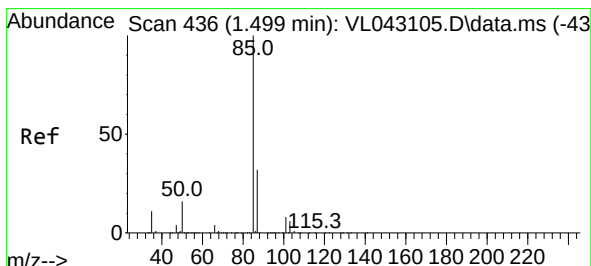
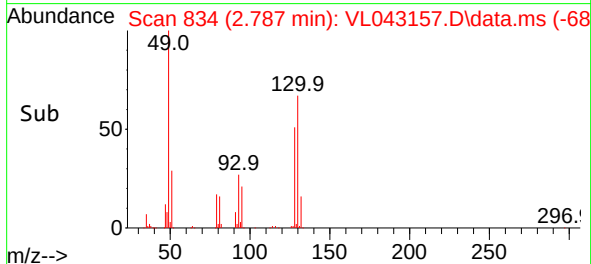
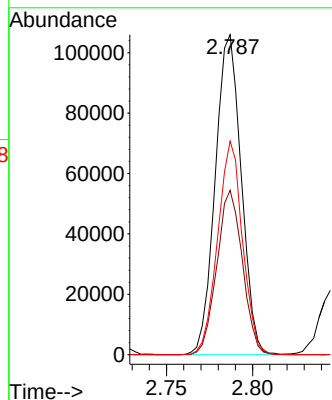
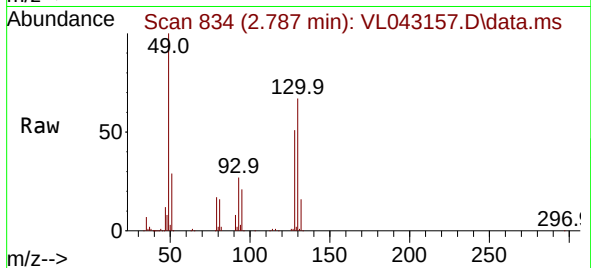
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 811  
Delta R.T. -0.003 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 49 Resp: 111380  
Ion Ratio Lower Upper  
49 100  
128 50.4 24.4 73.4  
130 63.9 31.0 93.0

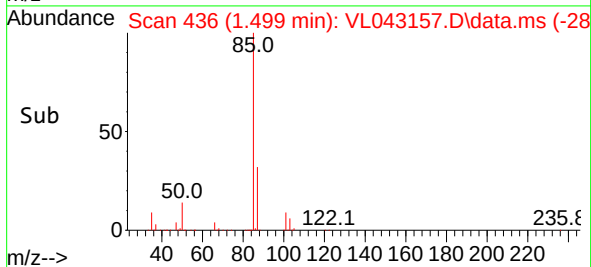
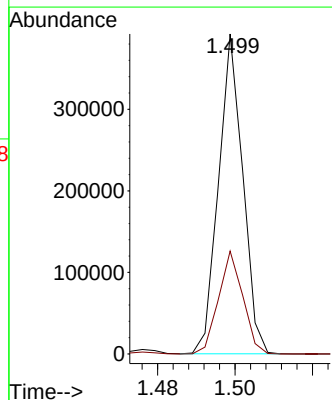
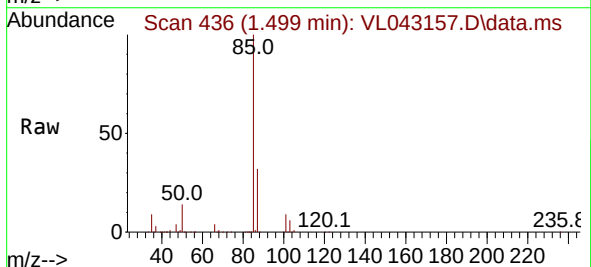
Manual Integrations  
APPROVED

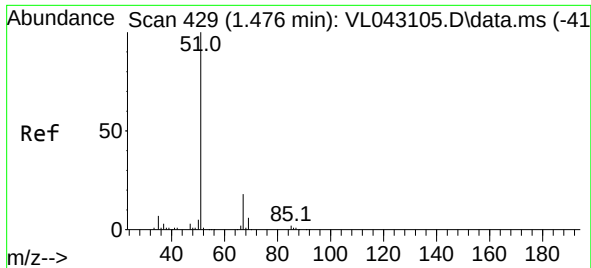
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#2  
Dichlorodifluoromethane  
Concen: 10.782 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 170728  
Ion Ratio Lower Upper  
85 100  
87 32.2 25.3 37.9





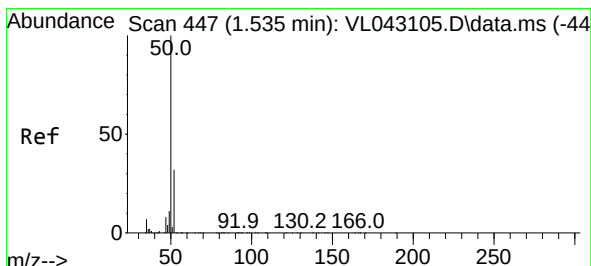
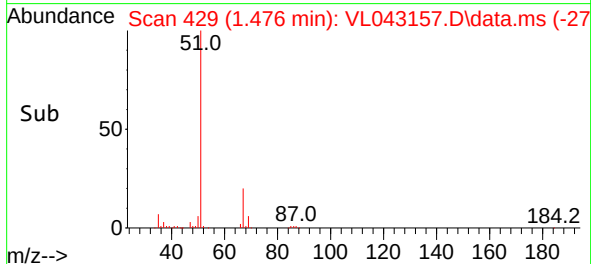
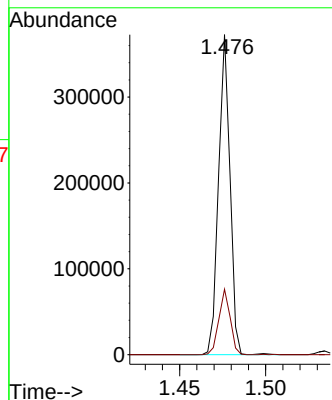
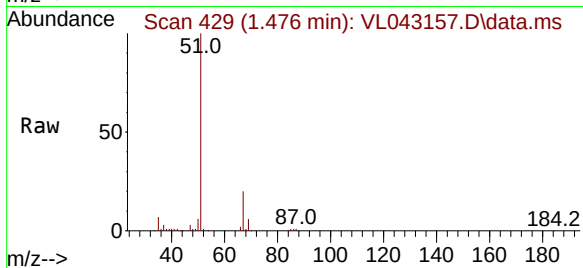
#3  
Chlorodifluoromethane  
Concen: 10.011 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 51 Resp: 171500  
Ion Ratio Lower Upper  
51 100  
67 20.4 15.1 22.7

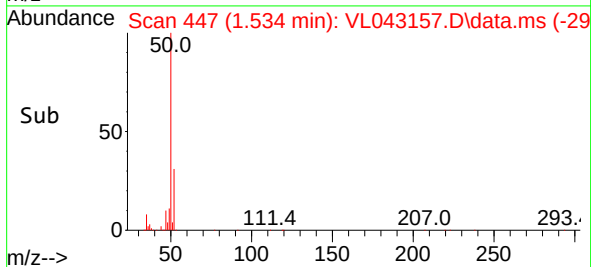
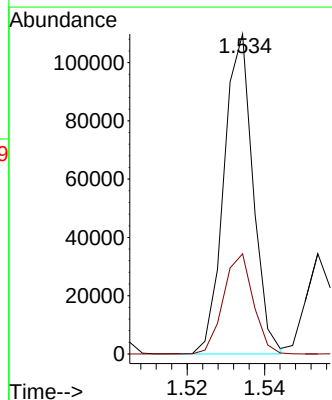
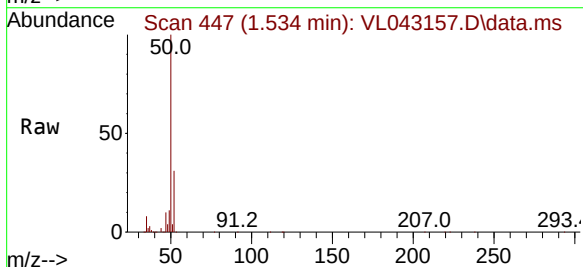
Manual Integrations  
APPROVED

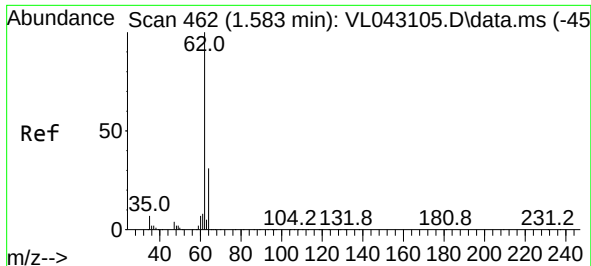
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#4  
Chloromethane  
Concen: 9.134 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 50 Resp: 57299  
Ion Ratio Lower Upper  
50 100  
52 31.3 25.2 37.8





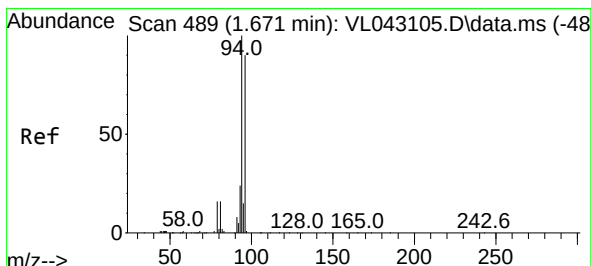
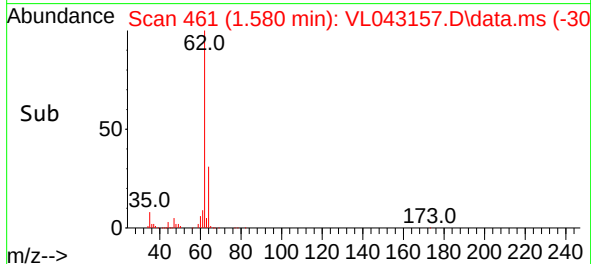
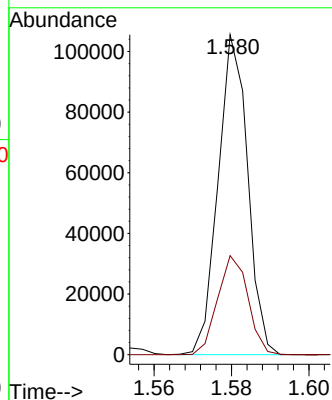
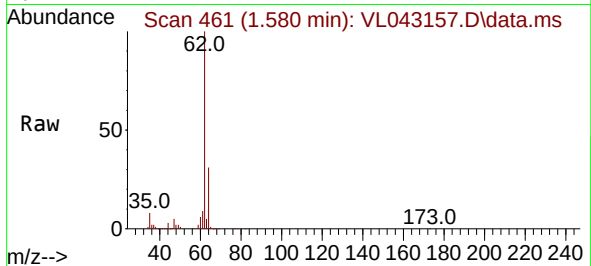
#5  
 Vinyl Chloride  
 Concen: 9.085 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Tgt Ion: 62 Resp: 5589  
 Ion Ratio Lower Upper  
 62 100  
 64 31.0 24.6 36.8

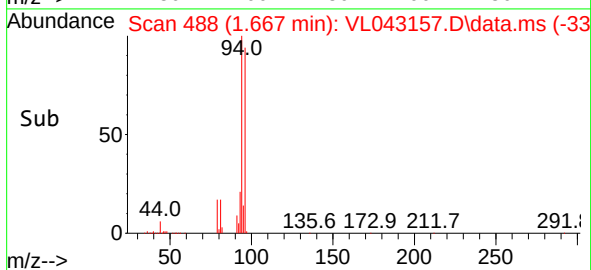
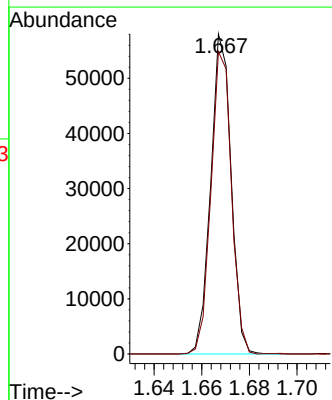
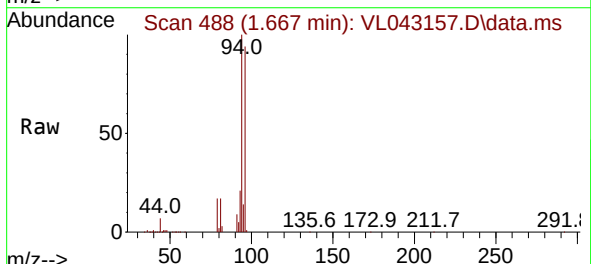
Manual Integrations  
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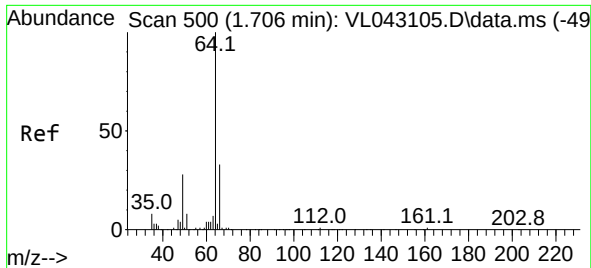
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#6  
 Bromomethane  
 Concen: 10.238 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

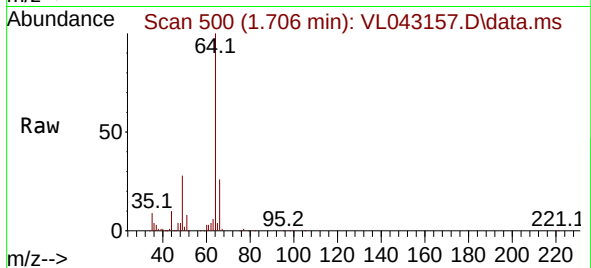
Tgt Ion: 94 Resp: 34540  
 Ion Ratio Lower Upper  
 94 100  
 96 94.5 72.2 108.4





#7  
Chloroethane  
Concen: 9.342 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

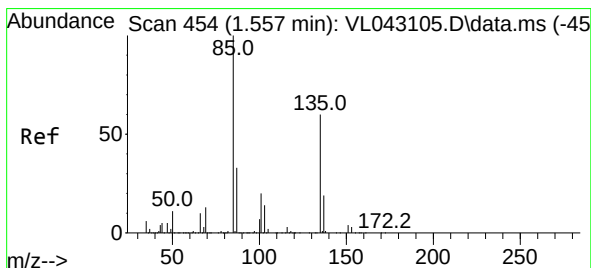
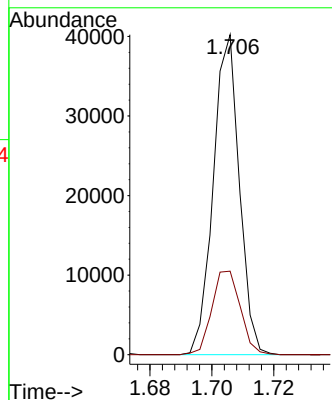
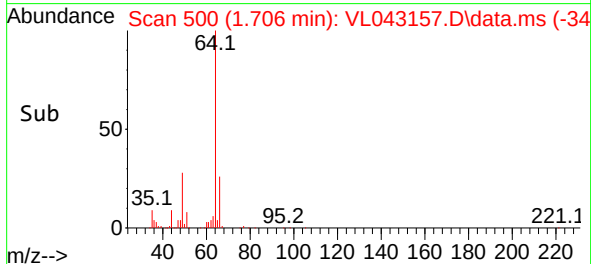
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



Tgt Ion: 64 Resp: 2350  
Ion Ratio Lower Upper  
64 100  
66 26.1 26.0 39.0

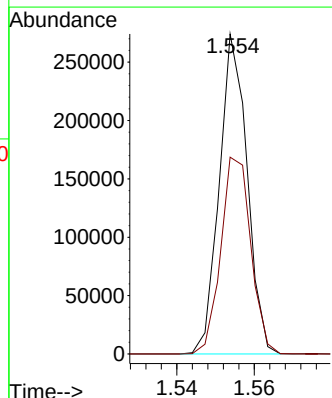
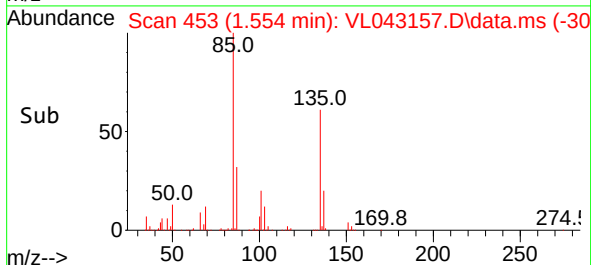
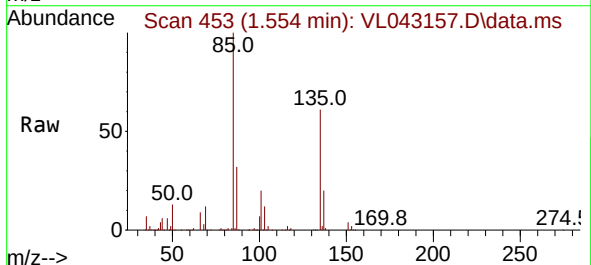
Manual Integrations  
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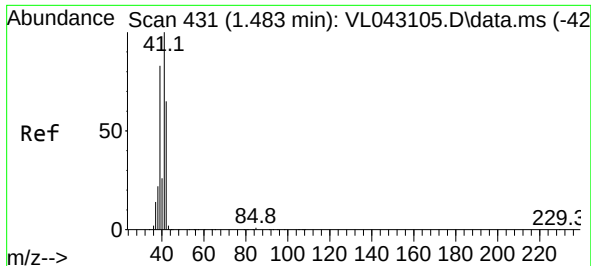
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#8  
Dichlorotetrafluoroethane  
Concen: 10.661 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 136433  
Ion Ratio Lower Upper  
85 100  
135 66.6 48.2 72.4





#9

Propene

Concen: 8.523 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_L

ClientSampleId :

VL1106ABS01

Tgt Ion: 41 Resp: 64760

Ion Ratio Lower Upper

41 100

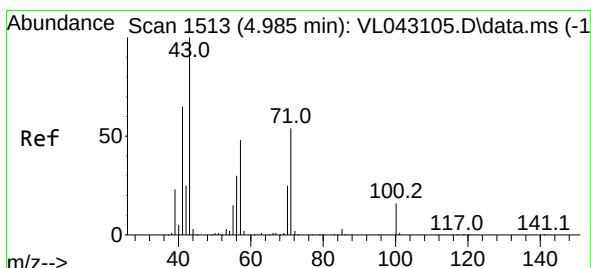
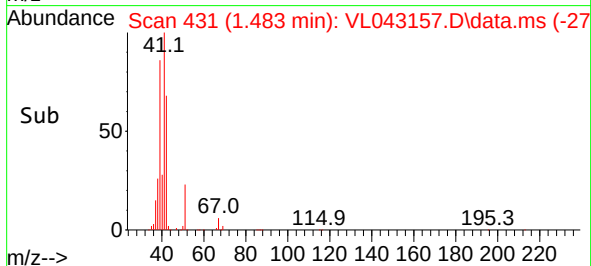
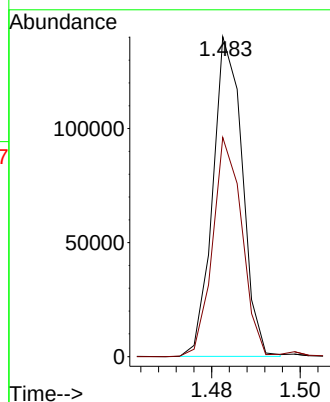
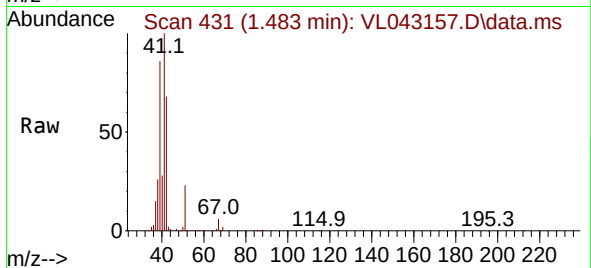
42 69.6 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#10

Heptane

Concen: 8.683 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043157.D

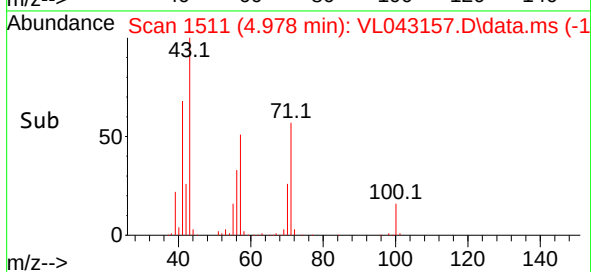
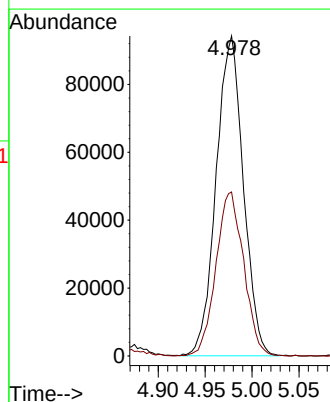
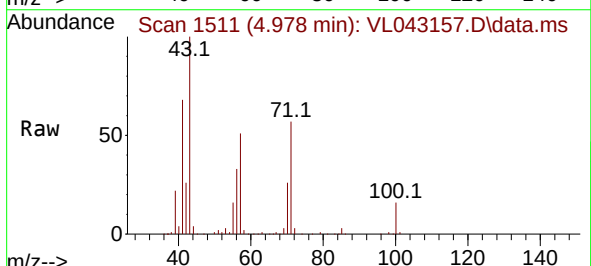
Acq: 06 Nov 2025 08:45

Tgt Ion: 43 Resp: 189938

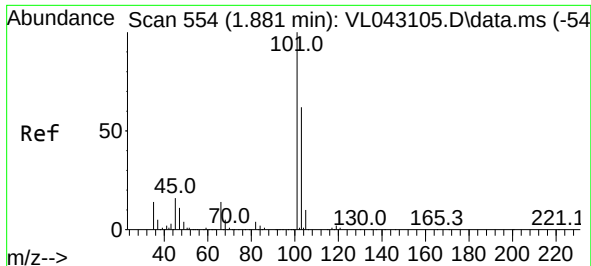
Ion Ratio Lower Upper

43 100

57 52.3 40.8 61.2

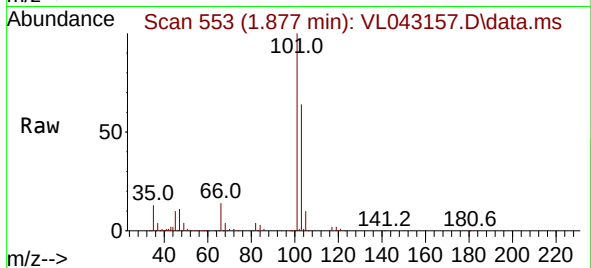






#11  
 Trichlorofluoromethane  
 Concen: 11.748 ppbv  
 RT: 1.877 min Scan# 51  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

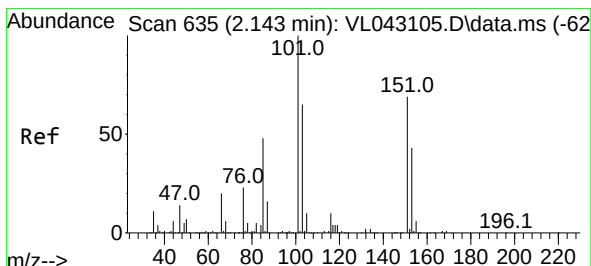
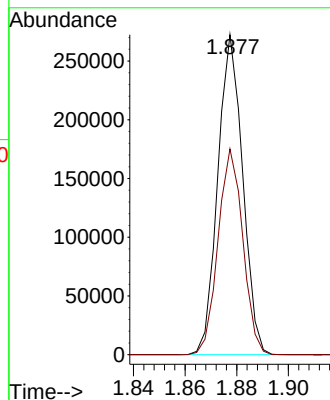
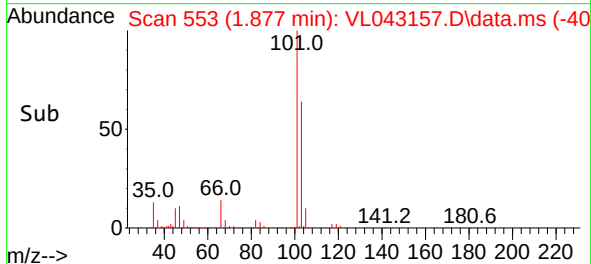
Instrument :  
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 ClientSampleId :  
 VL1106ABS01



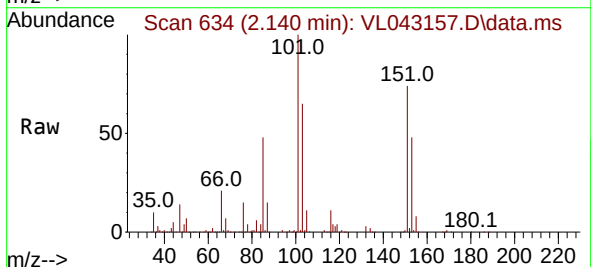
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 Ion Ratio Lower Upper  
 101 100  
 103 64.3 49.3 73.9

Manual Integrations  
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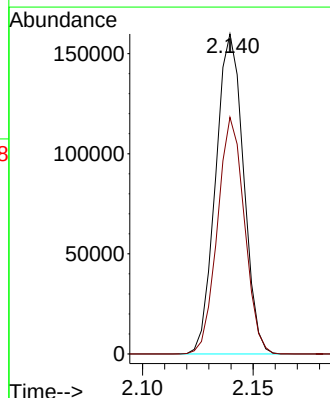
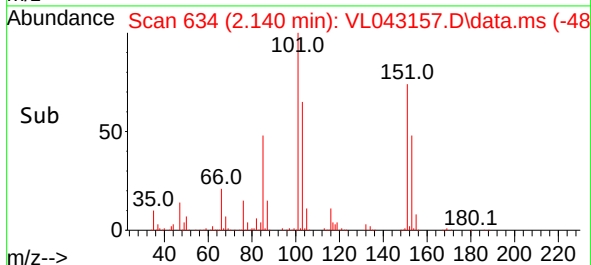
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

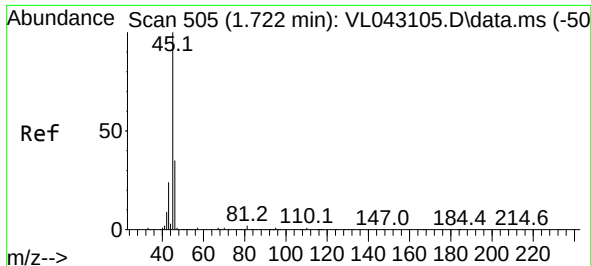


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 11.222 ppbv  
 RT: 2.140 min Scan# 634  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45



Tgt Ion:101 Resp: 139934  
 Ion Ratio Lower Upper  
 101 100  
 151 71.7 54.7 82.1





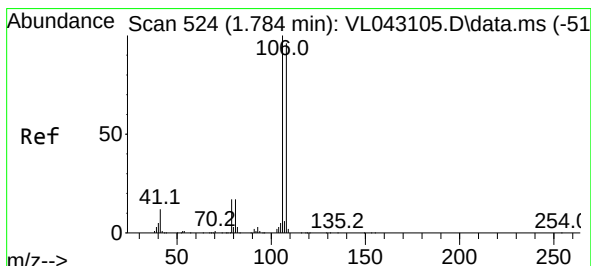
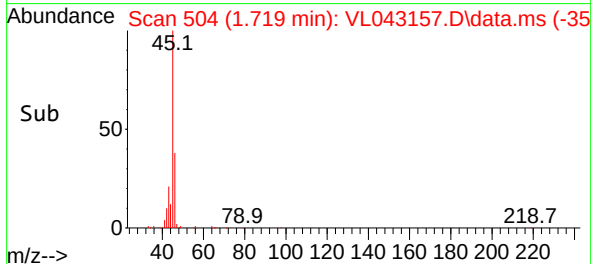
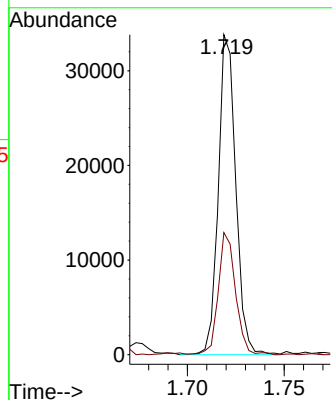
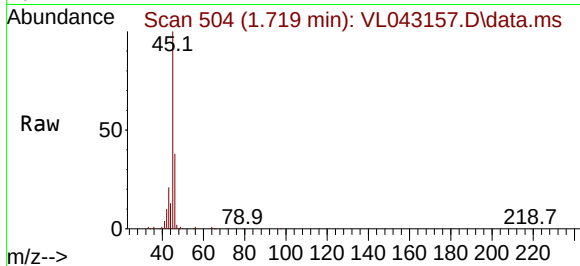
#13  
 Ethanol  
 Concen: 7.530 ppbv  
 RT: 1.719 min Scan# 505  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Tgt Ion: 45 Resp: 2116  
 Ion Ratio Lower Upper  
 45 100  
 46 38.3 14.7 58.9

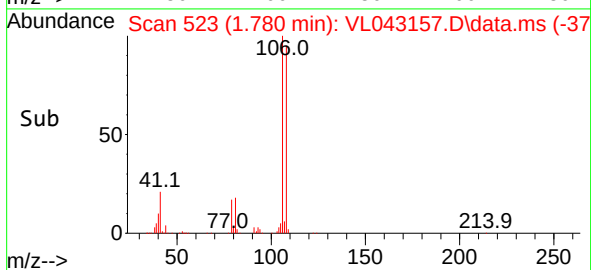
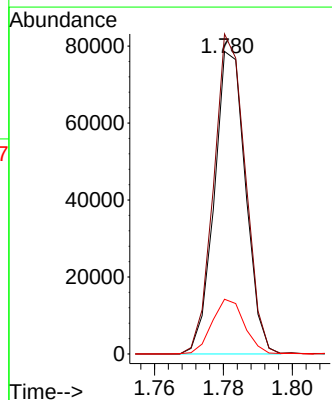
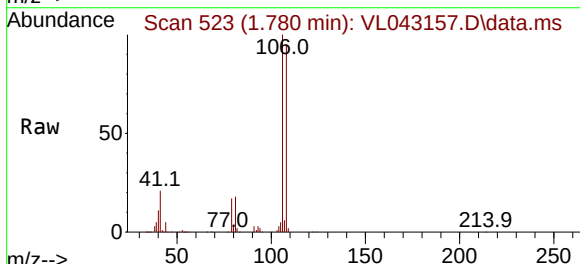
Manual Integrations  
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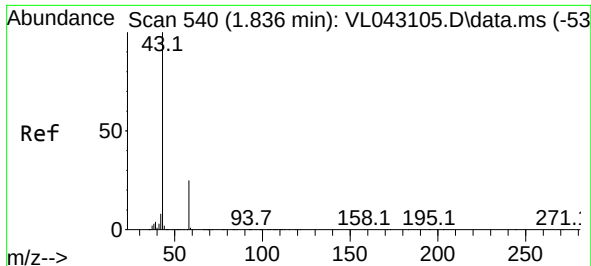
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#14  
 Bromoethene  
 Concen: 10.727 ppbv  
 RT: 1.780 min Scan# 523  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

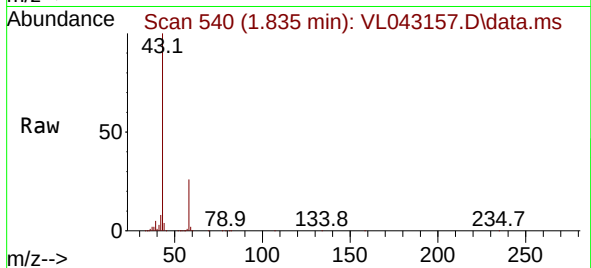
Tgt Ion:108 Resp: 49693  
 Ion Ratio Lower Upper  
 108 100  
 106 106.7 84.4 126.6  
 79 18.8 15.3 22.9





#15  
Acetone  
Concen: 8.934 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

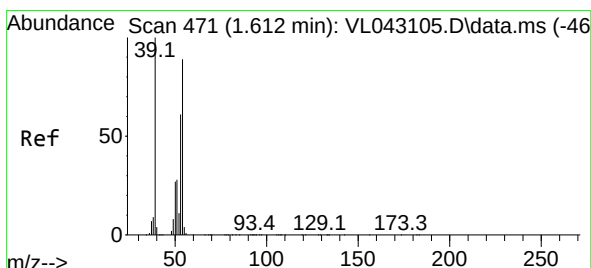
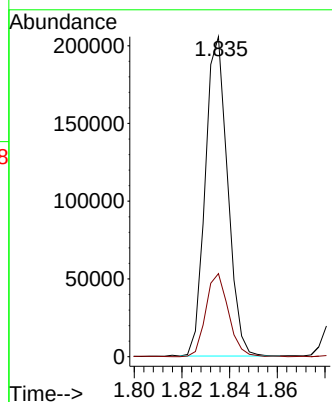
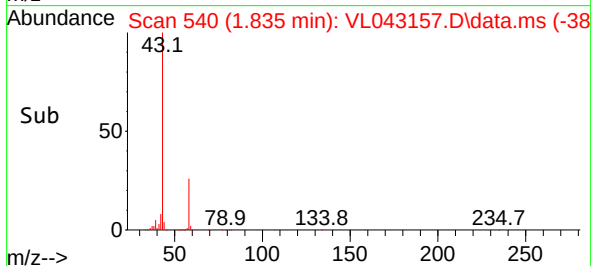
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



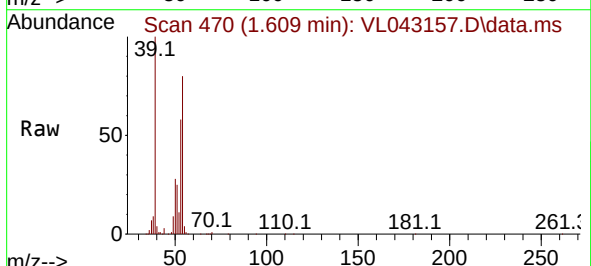
Tgt Ion: 43 Resp: 134115  
Ion Ratio Lower Upper  
43 100  
58 26.6 20.8 31.2

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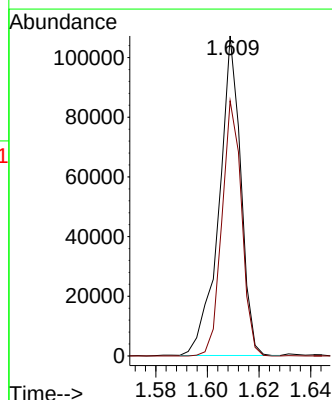
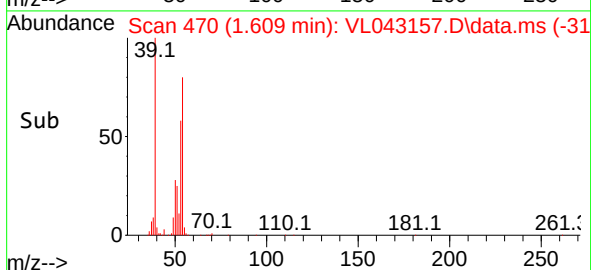
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

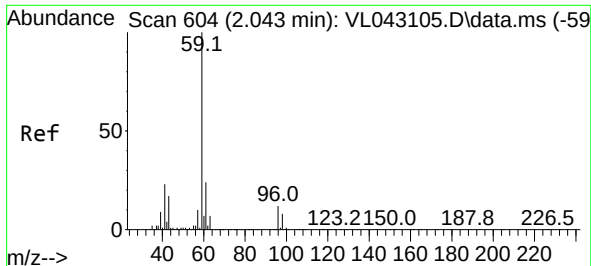


#16  
1,3-Butadiene  
Concen: 8.753 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45



Tgt Ion: 39 Resp: 62625  
Ion Ratio Lower Upper  
39 100  
54 72.1 59.0 88.4





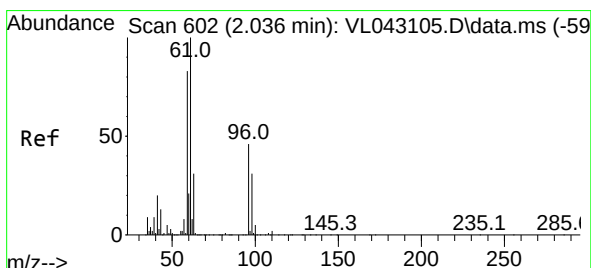
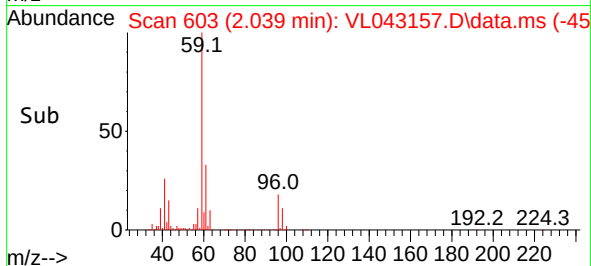
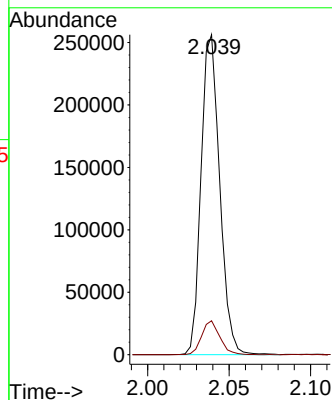
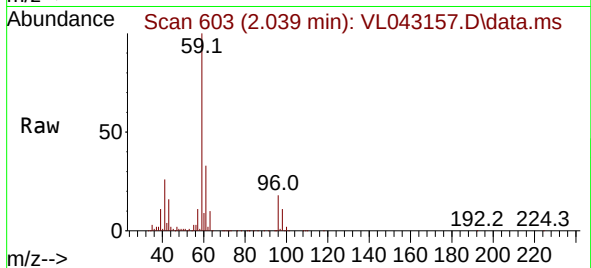
#17  
tert-Butyl alcohol  
Concen: 9.865 ppbv  
RT: 2.039 min Scan# 604  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 59 Resp: 20329  
Ion Ratio Lower Upper  
59 100  
57 10.4 8.2 12.4

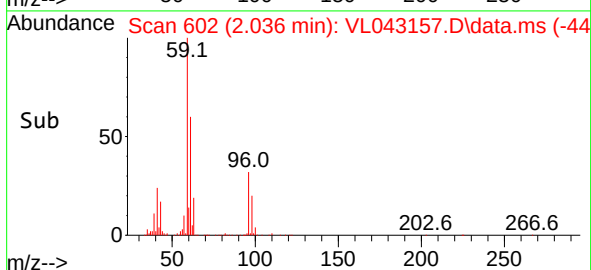
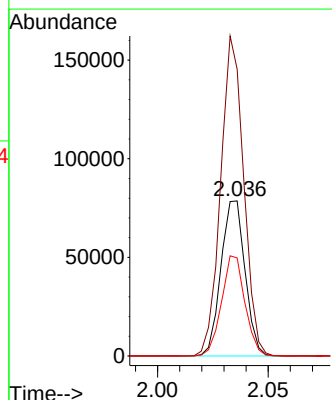
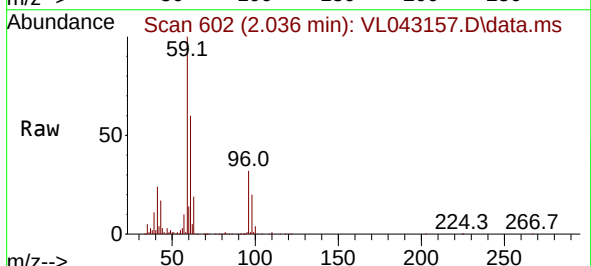
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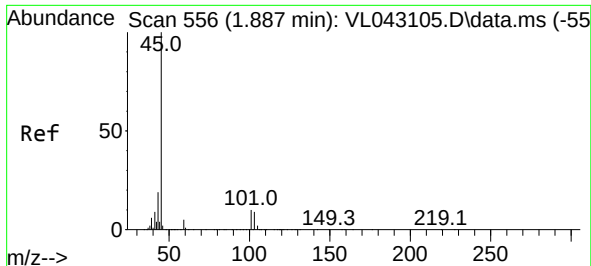
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#18  
1,1-Dichloroethene  
Concen: 10.957 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 96 Resp: 59563  
Ion Ratio Lower Upper  
96 100  
61 185.0 173.4 260.0  
98 63.3 53.2 79.8





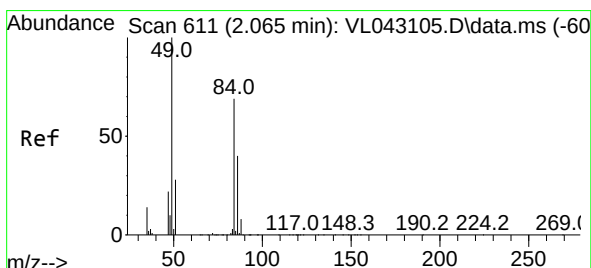
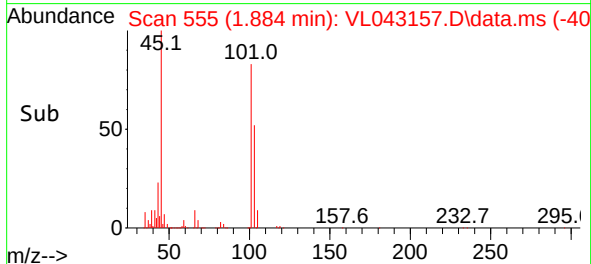
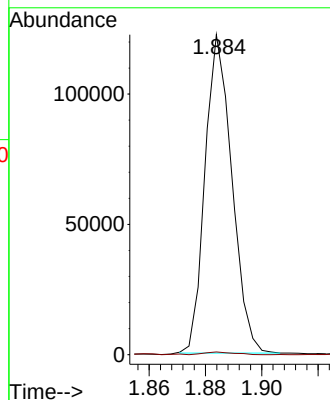
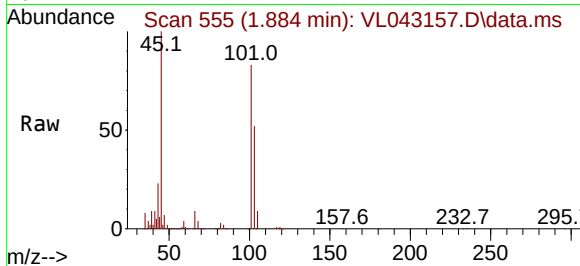
#19  
Isopropyl Alcohol  
Concen: 8.657 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 45 Resp: 8094  
Ion Ratio Lower Upper  
45 100  
58 44.1 31.3 46.9

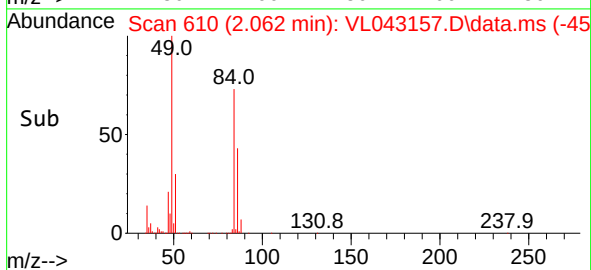
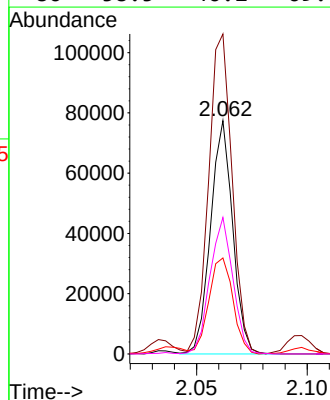
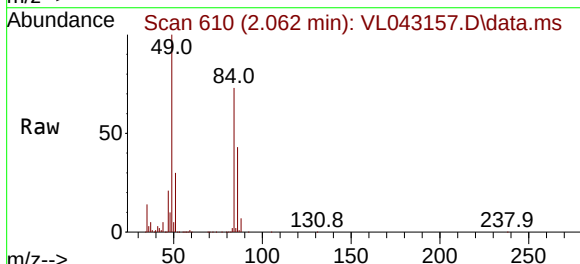
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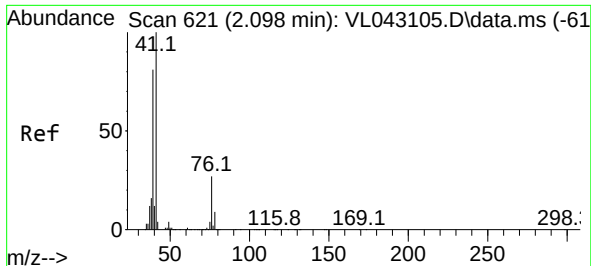
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#20  
Methylene Chloride  
Concen: 9.085 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 84 Resp: 53912  
Ion Ratio Lower Upper  
84 100  
49 135.7 116.6 175.0  
51 40.7 34.8 52.2  
86 58.5 46.2 69.4





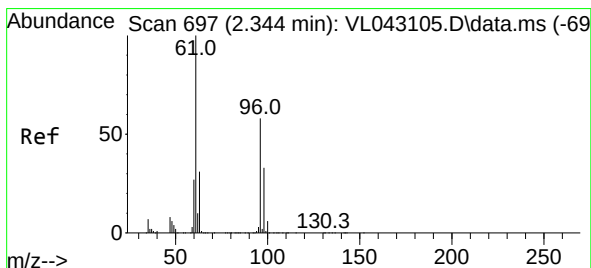
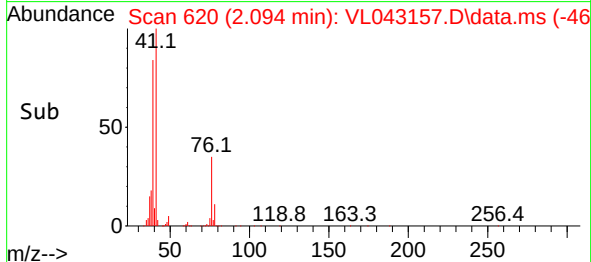
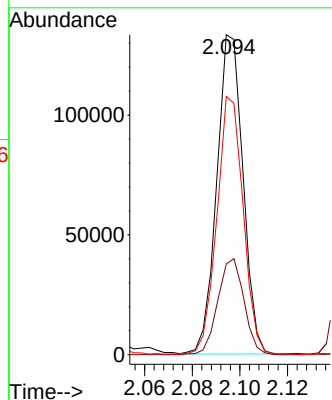
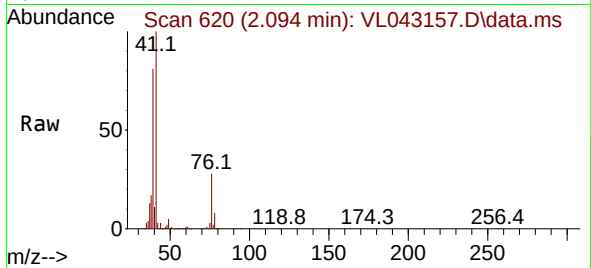
#21  
 Allyl Chloride  
 Concen: 9.210 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Tgt Ion: 41 Resp: 101879  
 Ion Ratio Lower Upper  
 41 100  
 76 30.0 21.5 32.3  
 39 81.2 60.8 91.2

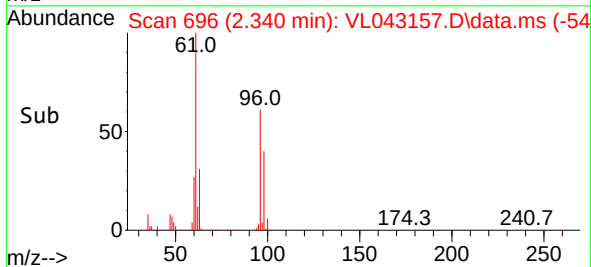
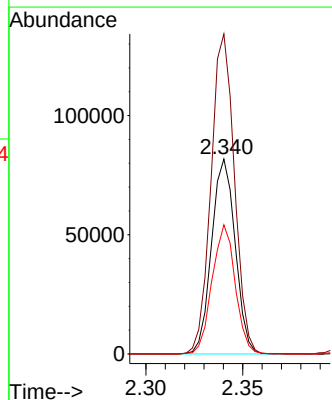
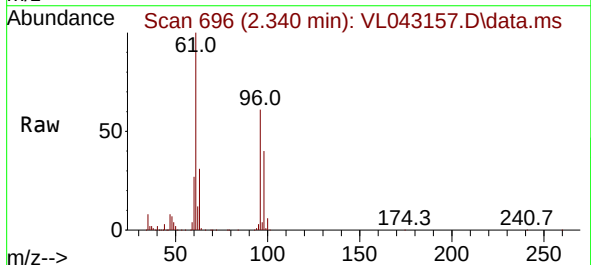
Manual Integrations  
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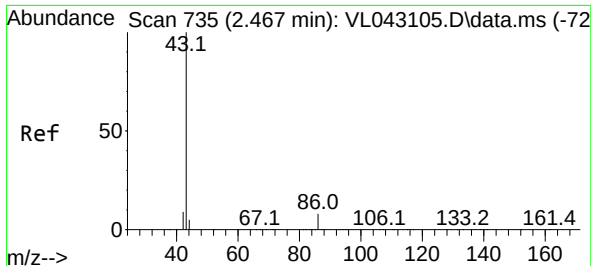
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.665 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

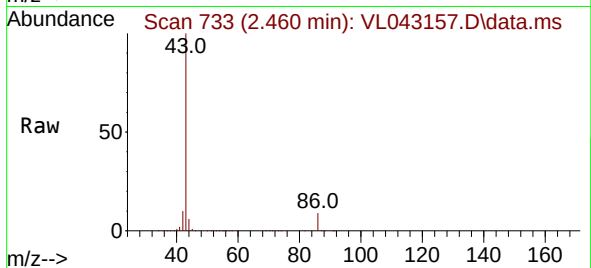
Tgt Ion: 96 Resp: 69305  
 Ion Ratio Lower Upper  
 96 100  
 61 164.1 137.0 205.6  
 98 66.3 45.5 68.3





#23  
 Vinyl Acetate  
 Concen: 10.556 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. -0.007 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

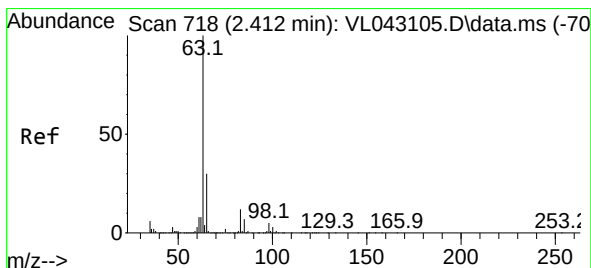
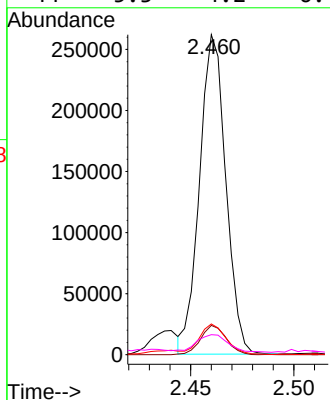
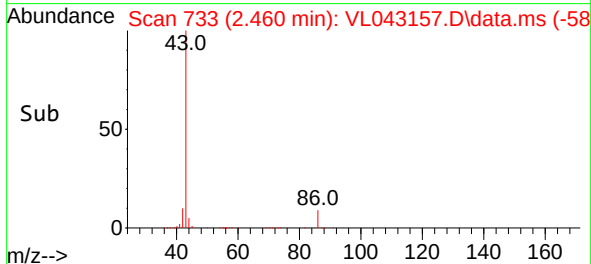
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01



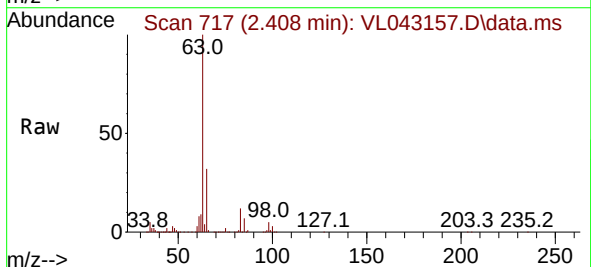
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|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 232129 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 9.2   | 6.2   | 9.2    |
| 42       | 9.5   | 7.6   | 11.4   |
| 44       | 5.3   | 4.2   | 6.4    |

Manual Integrations  
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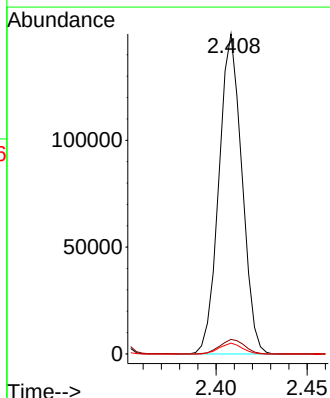
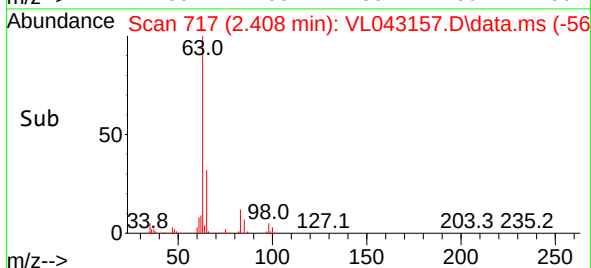
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

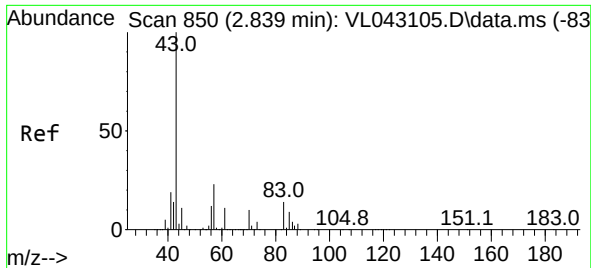


#24  
 1,1-Dichloroethane  
 Concen: 10.482 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45



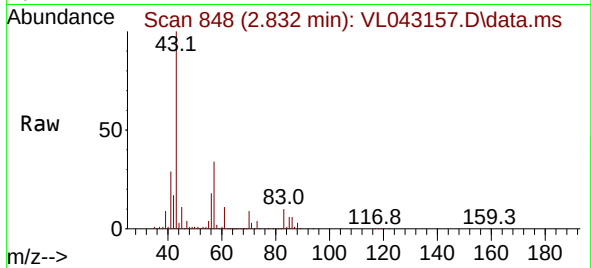
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 131599 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.5   | 2.6   | 7.8    |
| 100      | 3.4   | 1.5   | 4.4    |





#25  
Ethyl Acetate  
Concen: 9.513 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

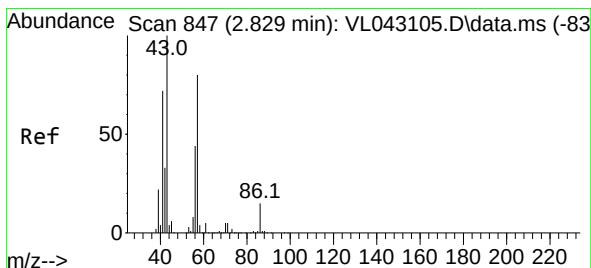
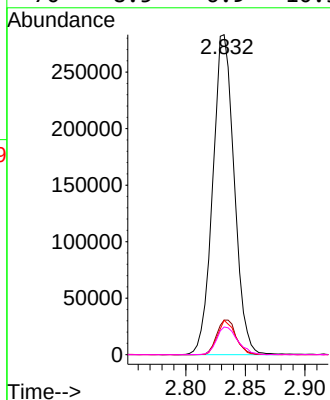
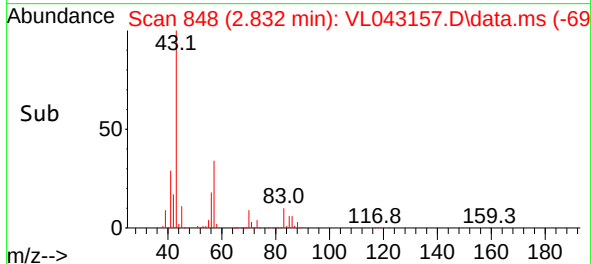
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 35415 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 9.9      | 7.8 11.8    |
| 61 9.0      | 7.0 10.6    |
| 70 8.5      | 6.9 10.3    |

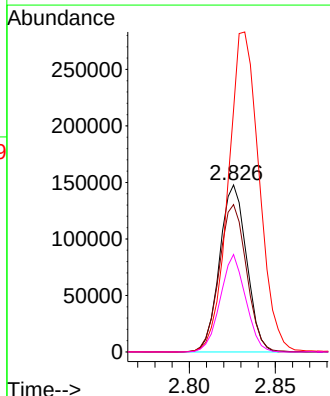
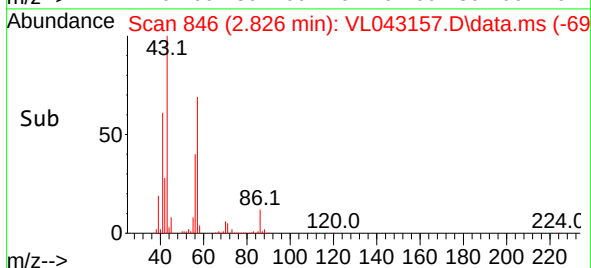
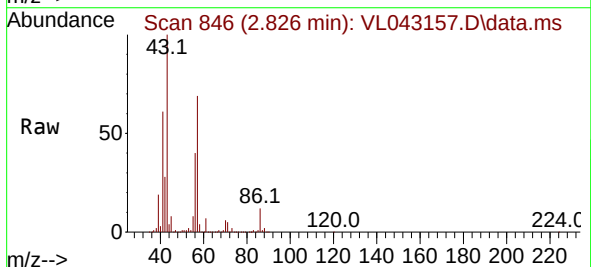
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

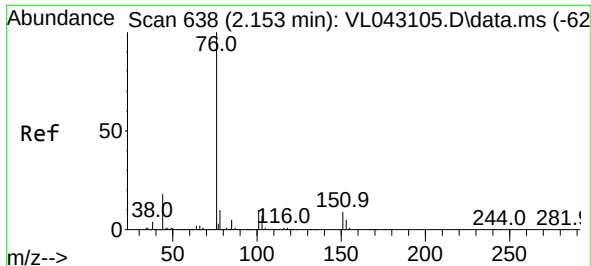


#26  
Hexane  
Concen: 9.387 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 161029 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 90.3     | 71.4 107.0   |
| 43 220.2    | 178.5 267.7  |
| 56 55.0     | 42.2 63.4    |

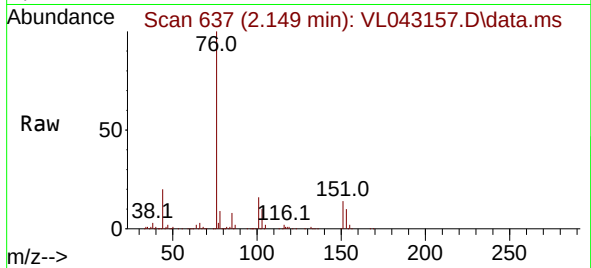






#27  
Carbon Disulfide  
Concen: 10.672 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

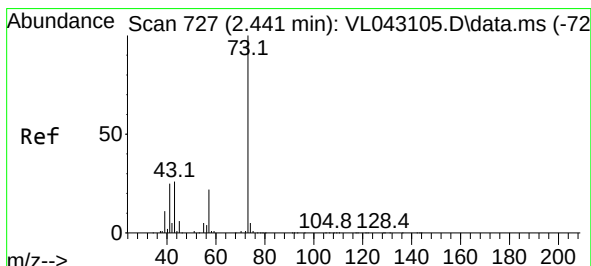
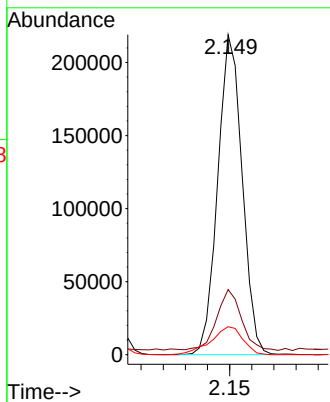
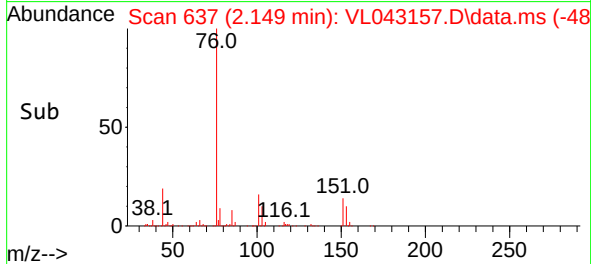
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



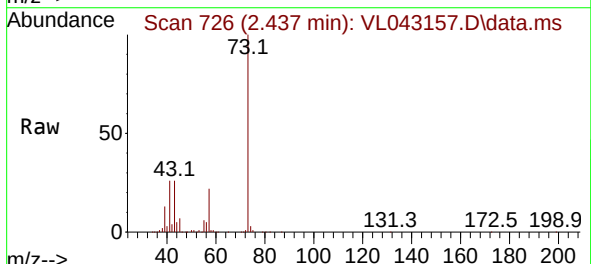
Tgt Ion: 76 Resp: 16773  
Ion Ratio Lower Upper  
76 100  
44 19.4 16.7 25.1  
78 11.4 9.3 13.9

Manual Integrations  
APPROVED

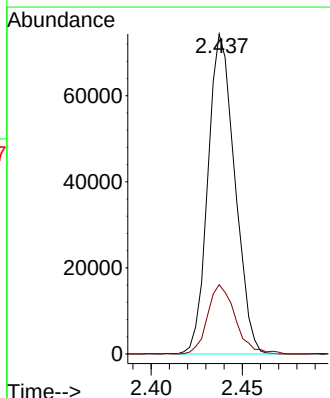
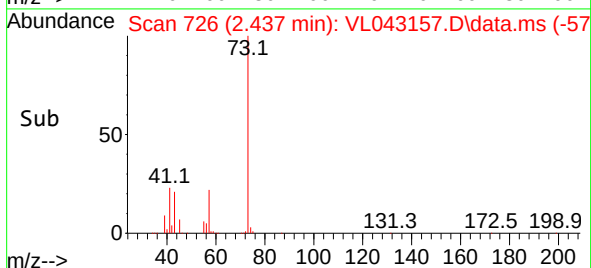
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

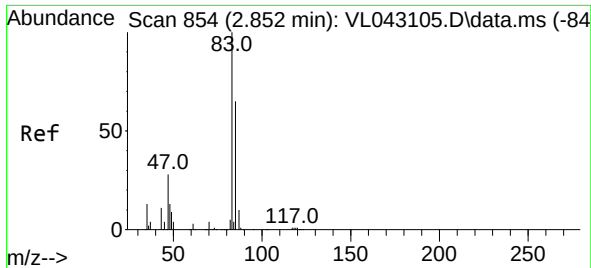


#28  
Methyl tert-Butyl Ether  
Concen: 9.775 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45



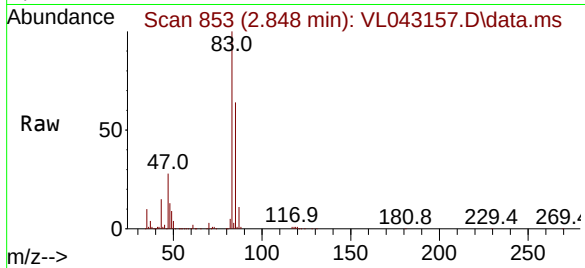
Tgt Ion: 73 Resp: 76290  
Ion Ratio Lower Upper  
73 100  
57 22.4 20.5 30.7





#29  
Chloroform  
Concen: 10.958 ppbv  
RT: 2.848 min Scan# 854  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

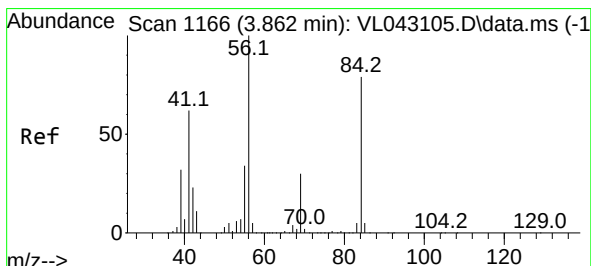
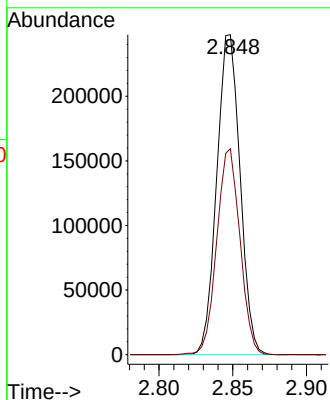
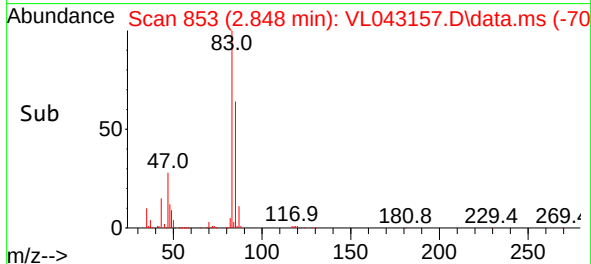
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



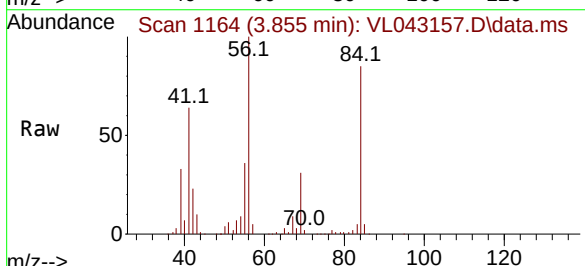
Tgt Ion: 83 Resp: 27237  
Ion Ratio Lower Upper  
83 100  
85 64.3 51.8 77.6

Manual Integrations  
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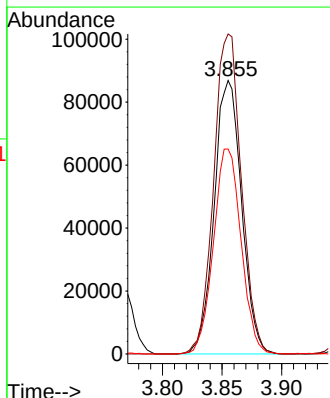
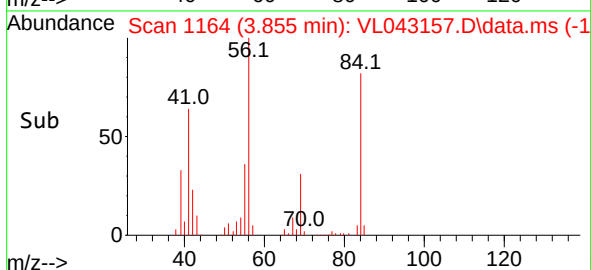
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

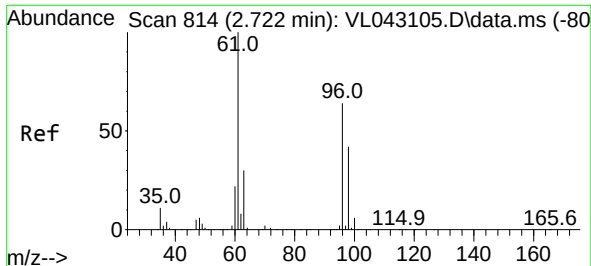


#30  
Cyclohexane  
Concen: 9.287 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45



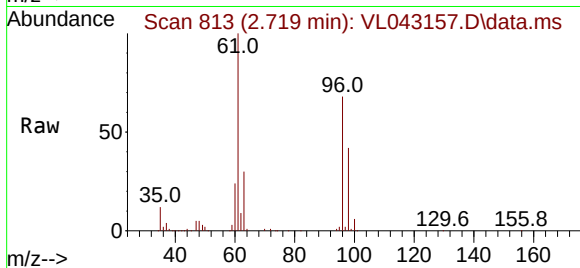
Tgt Ion: 84 Resp: 139050  
Ion Ratio Lower Upper  
84 100  
56 118.3 100.9 151.3  
41 75.6 63.8 95.6





#31  
cis-1,2-Dichloroethene  
Concen: 10.456 ppbv  
RT: 2.719 min Scan# 814  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

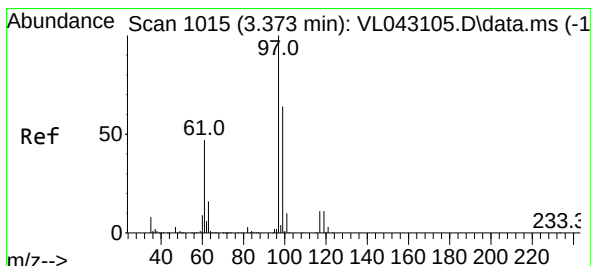
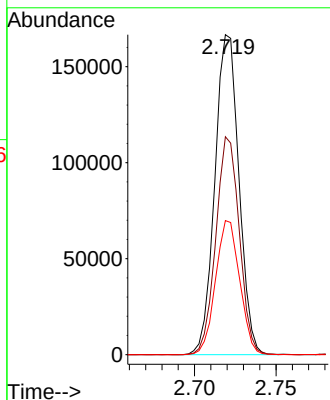
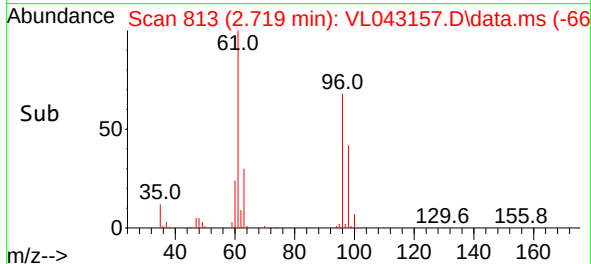
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



Tgt Ion: 61 Resp: 171279  
Ion Ratio Lower Upper  
61 100  
96 68.1 51.0 76.6  
98 41.9 33.5 50.3

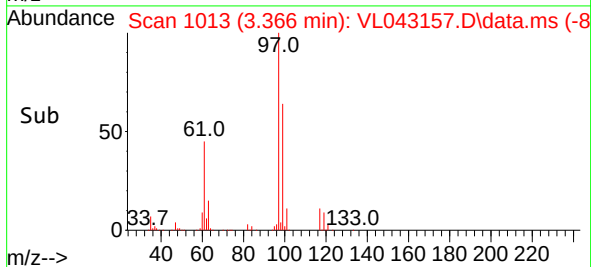
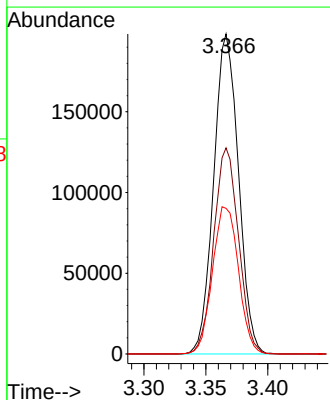
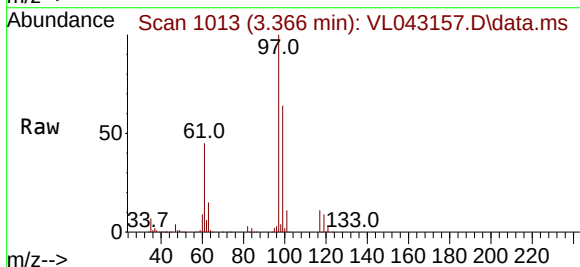
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APPROVED

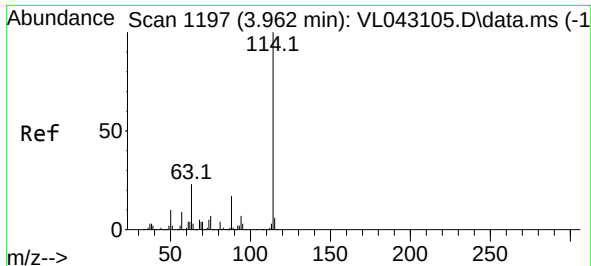
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#32  
1,1,1-Trichloroethane  
Concen: 10.684 ppbv  
RT: 3.366 min Scan# 1013  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 97 Resp: 276541  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.3 76.9  
61 48.4 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_L

ClientSampleId :

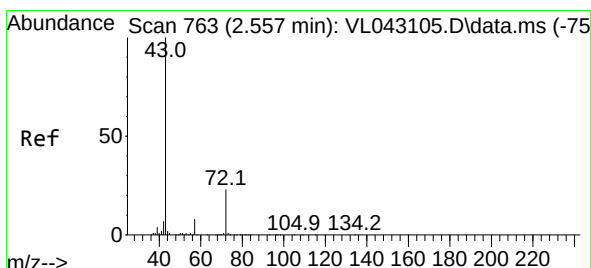
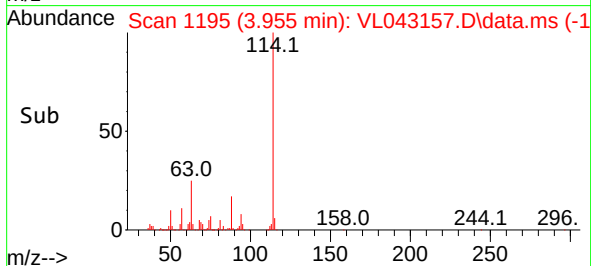
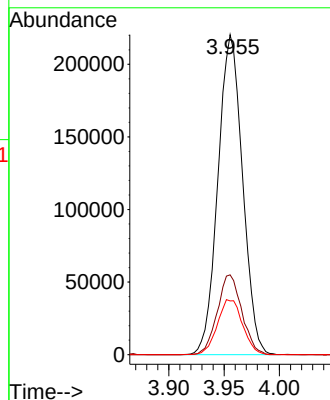
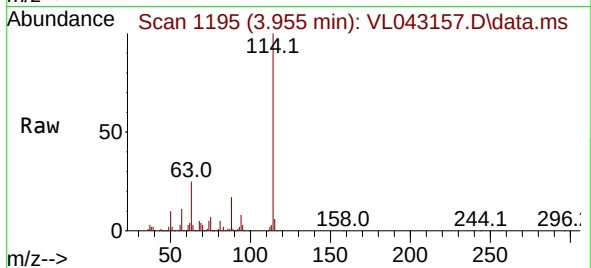
VL1106ABS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 34058 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 24.9  | 19.3  | 28.9  |
| 88        | 17.6  | 13.9  | 20.9  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#34

2-Butanone

Concen: 10.367 ppbv

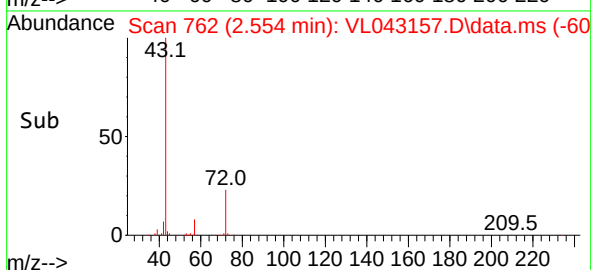
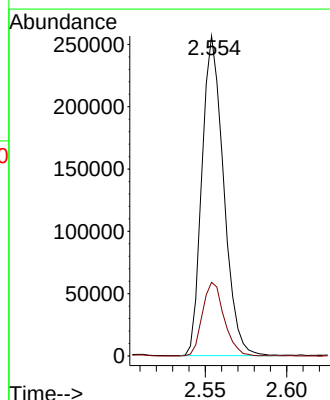
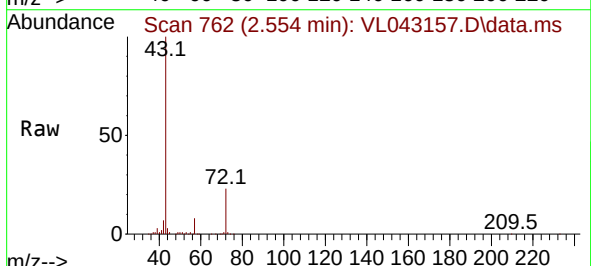
RT: 2.554 min Scan# 762

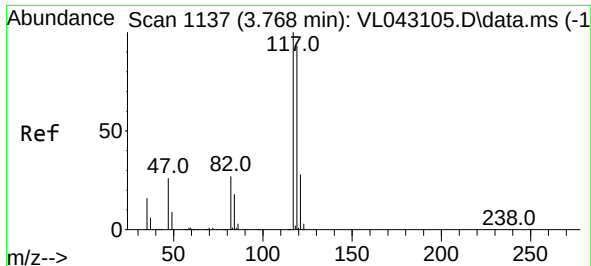
Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

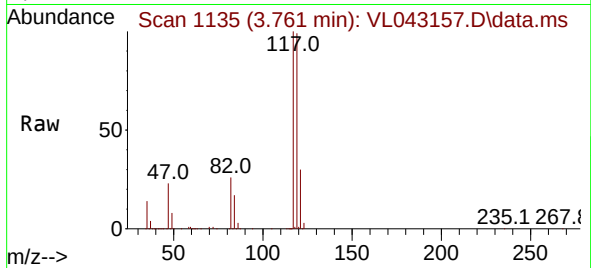
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 237347 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 72        | 23.2  | 18.4  | 27.6   |





#35  
Carbon Tetrachloride  
Concen: 11.806 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

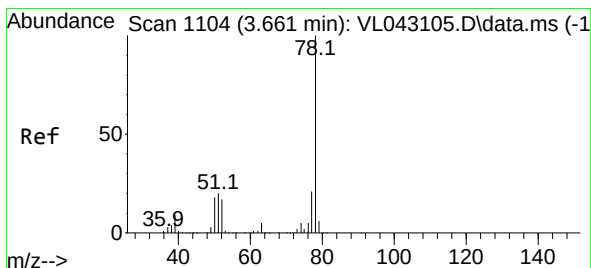
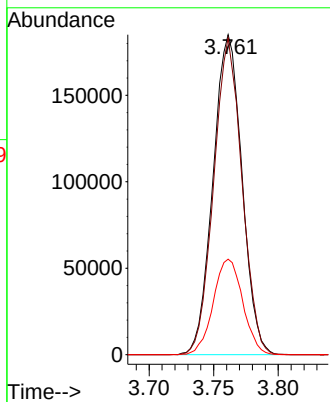
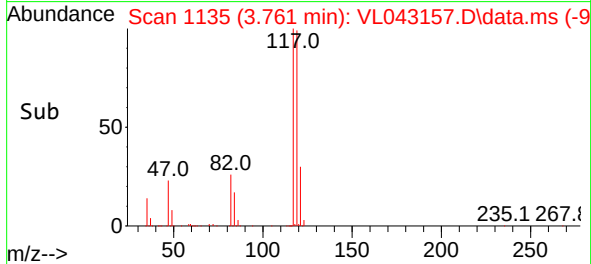
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



Tgt Ion:117 Resp: 289090  
Ion Ratio Lower Upper  
117 100  
119 98.9 74.1 111.1  
121 29.9 22.2 33.2

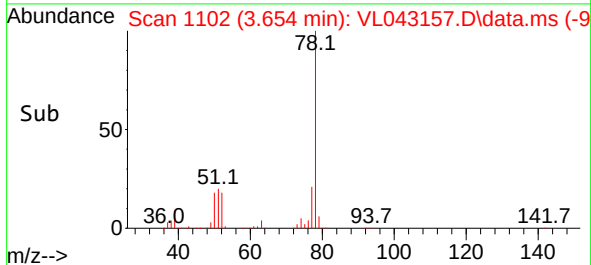
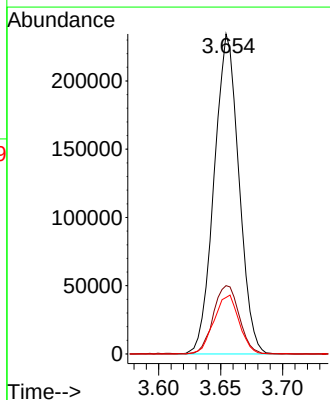
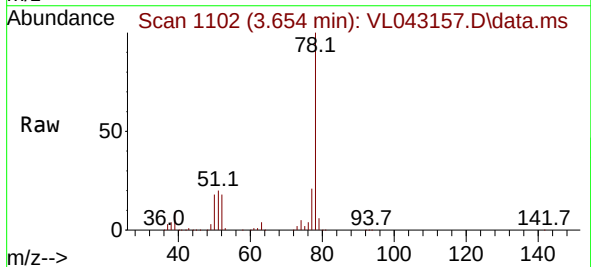
Manual Integrations  
APPROVED

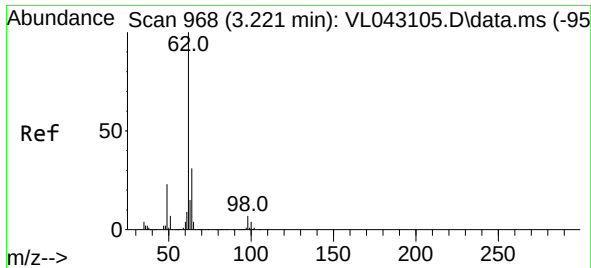
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#36  
Benzene  
Concen: 10.193 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 78 Resp: 326982  
Ion Ratio Lower Upper  
78 100  
77 21.3 17.0 25.6  
50 17.6 14.6 22.0





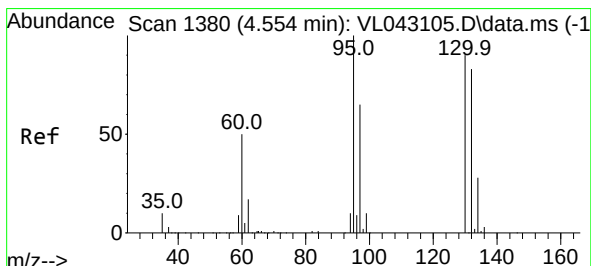
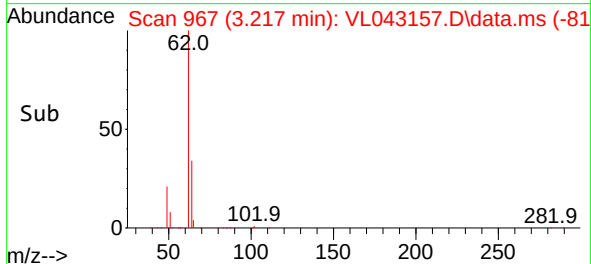
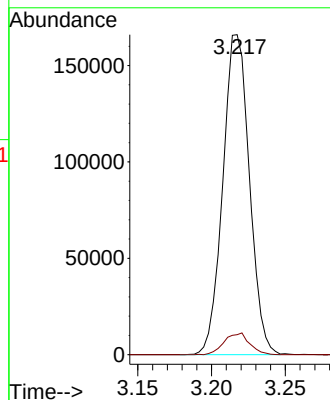
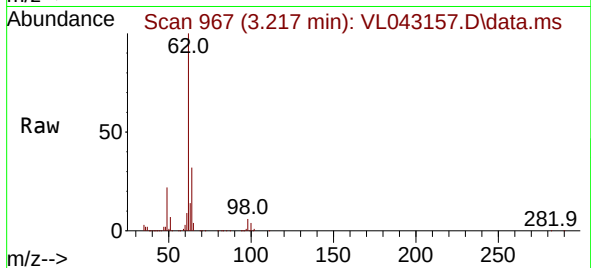
#37  
1,2-Dichloroethane  
Concen: 11.281 ppbv  
RT: 3.217 min Scan# 90  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 62 Resp: 20846  
Ion Ratio Lower Upper  
62 100  
98 6.5 5.8 8.6

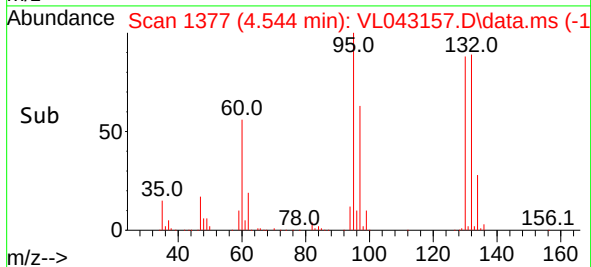
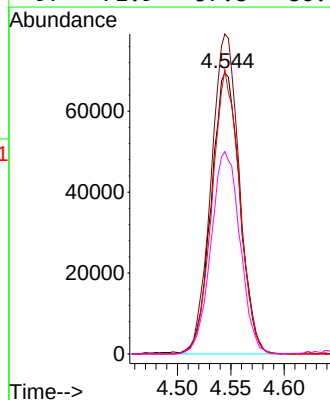
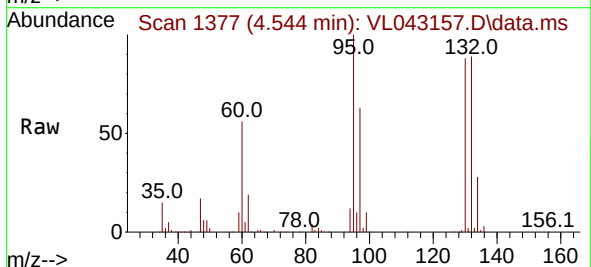
Manual Integrations  
APPROVED

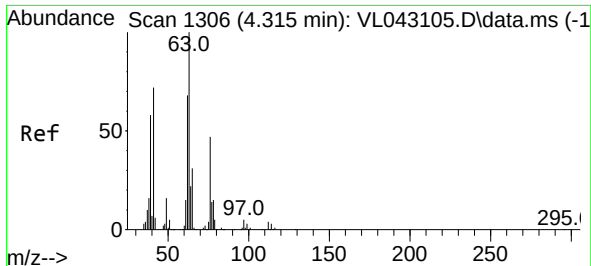
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#38  
Trichloroethene  
Concen: 9.632 ppbv  
RT: 4.544 min Scan# 1377  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:130 Resp: 129044  
Ion Ratio Lower Upper  
130 100  
95 113.7 88.6 133.0  
132 100.9 73.4 110.0  
97 71.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.991 ppbv

RT: 4.308 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL043157.D

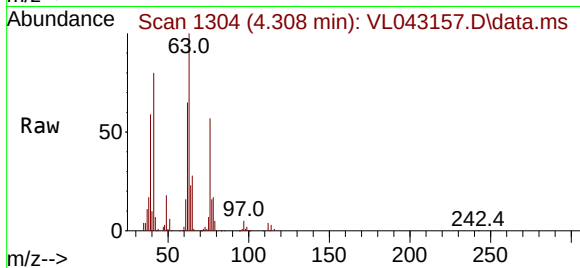
Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_L

ClientSampleId :

VL1106ABS01



Tgt Ion: 63 Resp: 11716

Ion Ratio Lower Upper

63 100

41 79.8 58.0 87.0

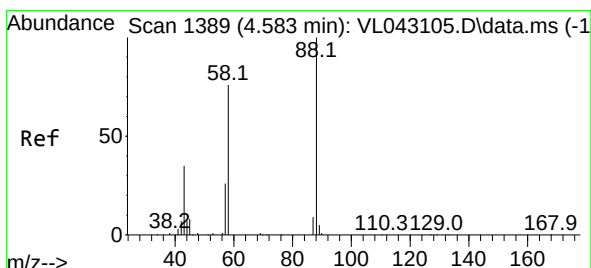
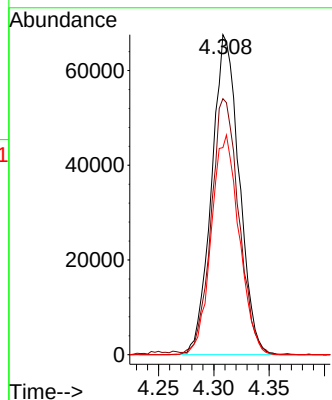
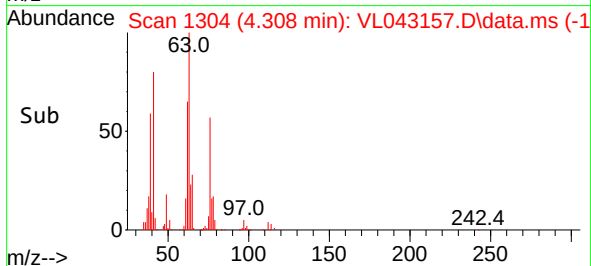
62 64.7 54.7 82.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#40

1,4-Dioxane

Concen: 9.428 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion: 88 Resp: 49474

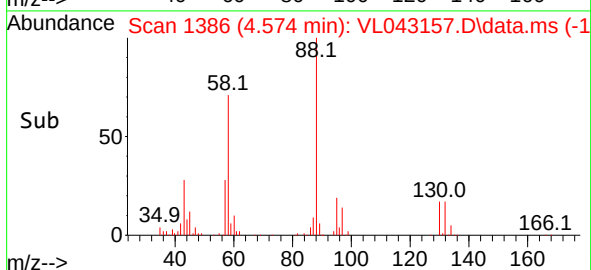
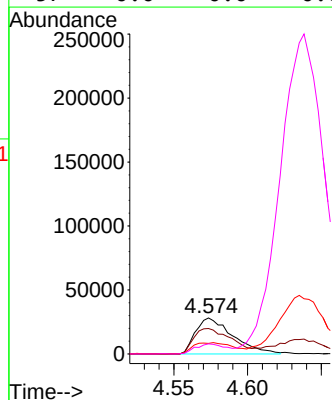
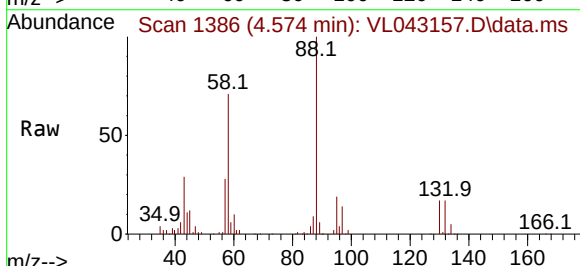
Ion Ratio Lower Upper

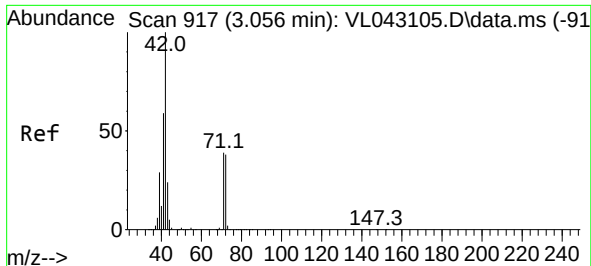
88 100

58 74.4 61.1 91.7

43 35.1 24.0 36.0

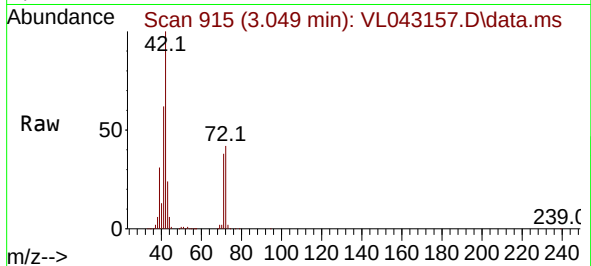
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 9.265 ppbv  
RT: 3.049 min Scan# 915  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

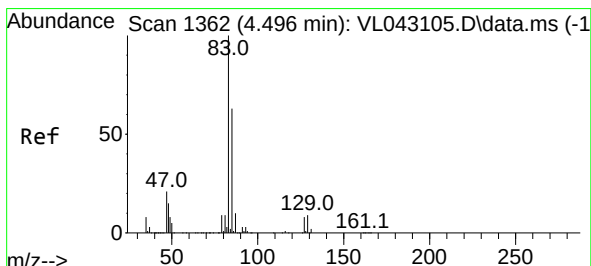
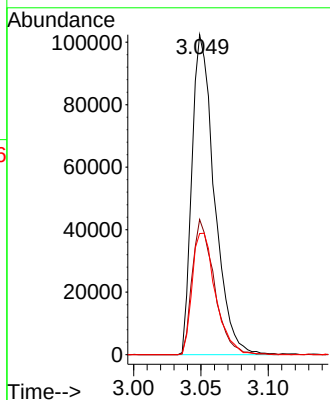
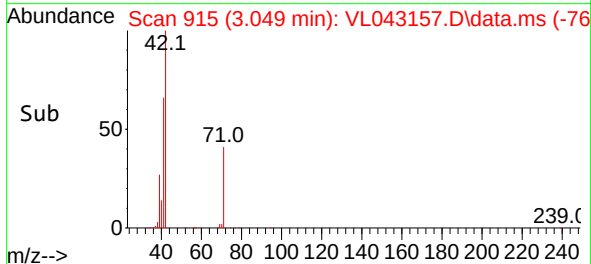
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



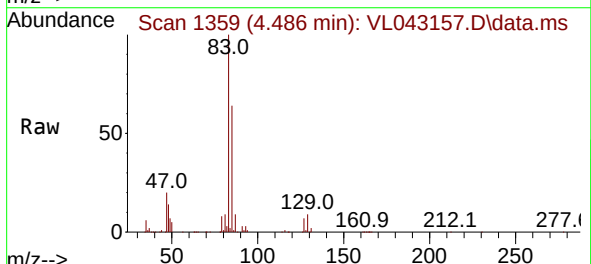
Tgt Ion: 42 Resp: 11863  
Ion Ratio Lower Upper  
42 100  
72 41.6 31.3 46.9  
71 39.6 30.4 45.6

Manual Integrations  
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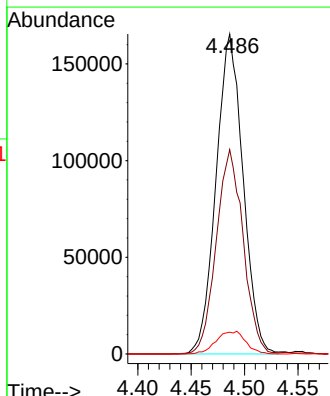
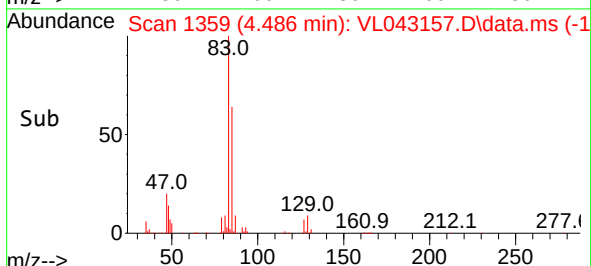
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



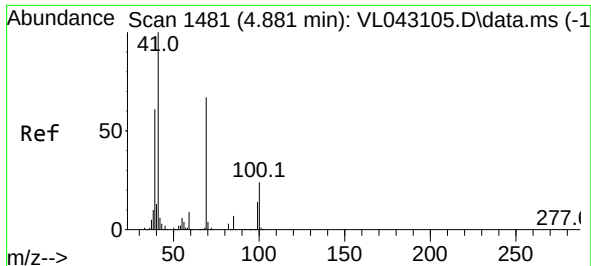
#42  
Bromodichloromethane  
Concen: 11.387 ppbv  
RT: 4.486 min Scan# 1359  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45



Tgt Ion: 83 Resp: 291226  
Ion Ratio Lower Upper  
83 100  
85 63.8 50.6 75.8  
127 6.8 6.3 9.5







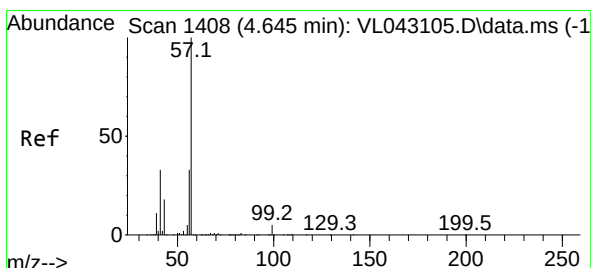
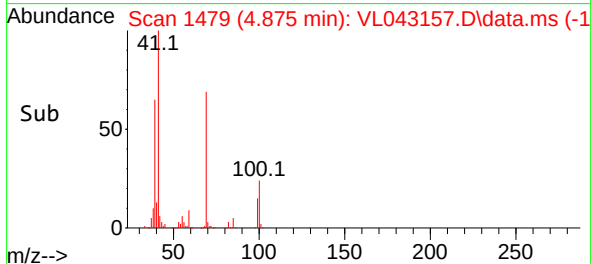
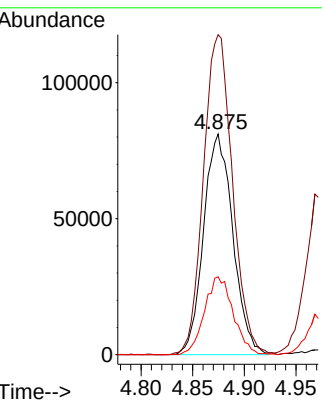
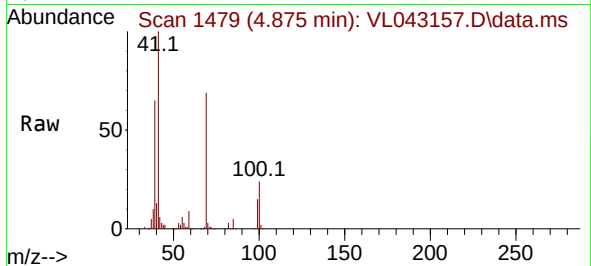
#43  
Methyl Methacrylate  
Concen: 9.821 ppbv  
RT: 4.875 min Scan# 1479  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 69 Resp: 16001  
Ion Ratio Lower Upper  
69 100  
41 143.7 120.5 180.7  
100 34.6 29.0 43.4

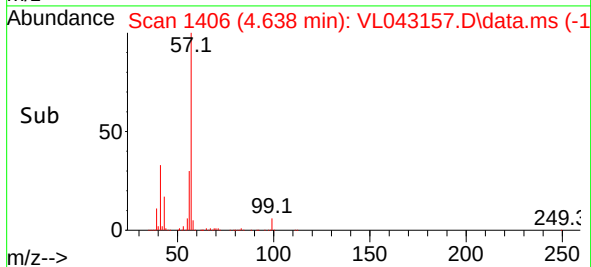
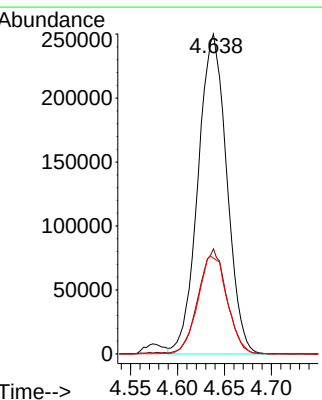
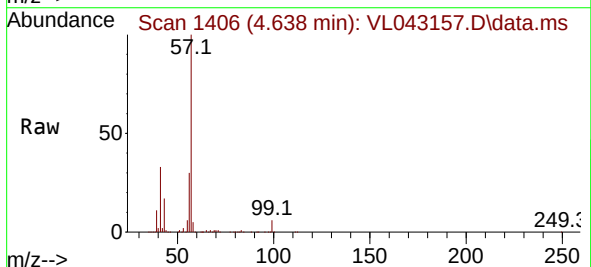
Manual Integrations  
APPROVED

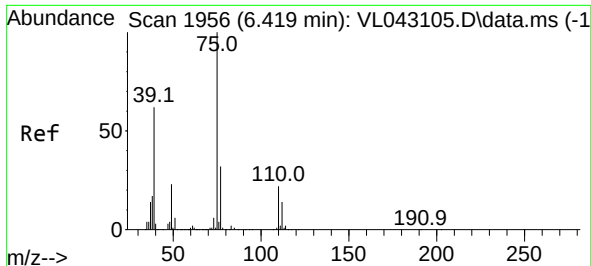
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.828 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 57 Resp: 531922  
Ion Ratio Lower Upper  
57 100  
41 32.6 26.3 39.5  
56 31.6 25.9 38.9





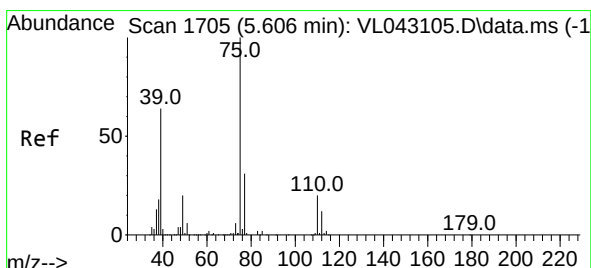
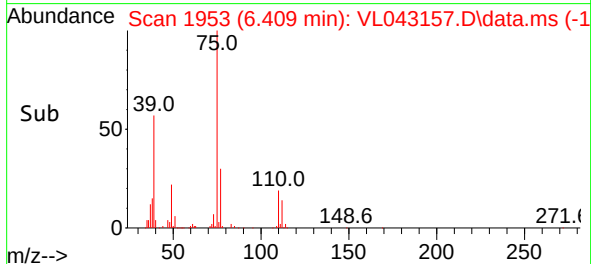
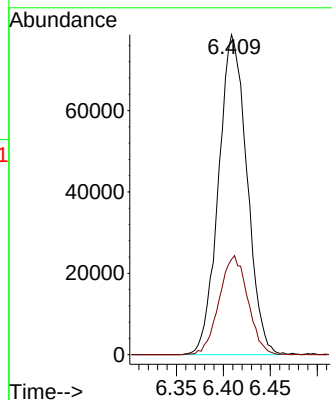
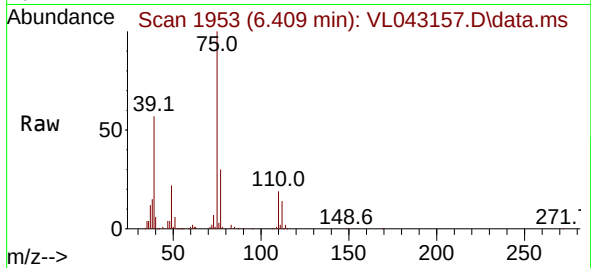
#45  
 t-1,3-Dichloropropene  
 Concen: 10.111 ppbv  
 RT: 6.409 min Scan# 1956  
 Delta R.T. -0.010 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Tgt Ion: 75 Resp: 165310  
 Ion Ratio Lower Upper  
 75 100  
 77 29.8 25.4 38.2

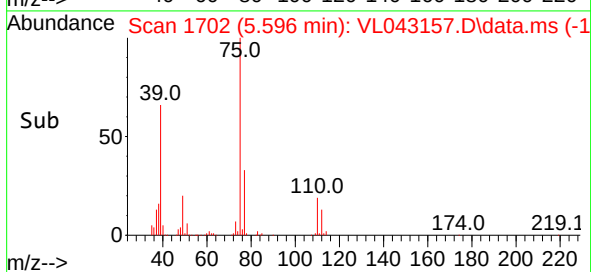
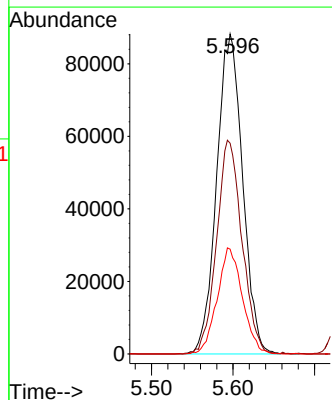
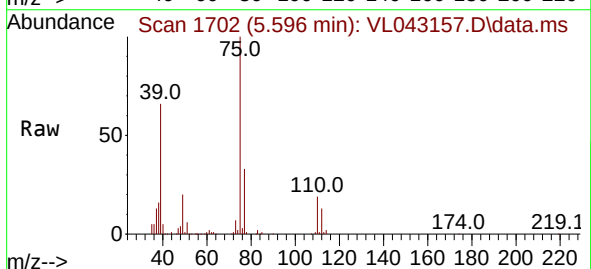
Manual Integrations  
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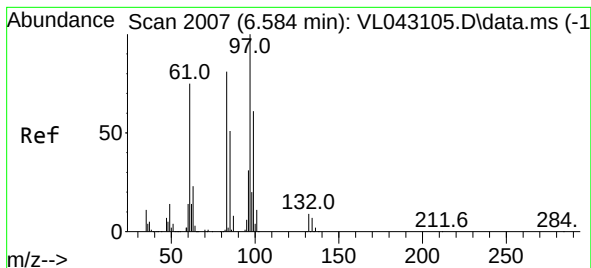
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.001 ppbv  
 RT: 5.596 min Scan# 1702  
 Delta R.T. -0.010 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Tgt Ion: 75 Resp: 195336  
 Ion Ratio Lower Upper  
 75 100  
 39 65.7 51.0 76.6  
 77 32.7 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 10.270 ppbv

RT: 6.580 min Scan# 2007

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_L

ClientSampleId :

VL1106ABS01

Tgt Ion: 97 Resp: 130064

Ion Ratio Lower Upper

97 100

83 86.4 64.6 96.8

85 57.4 40.6 60.8

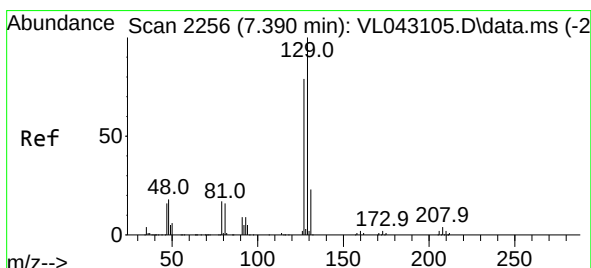
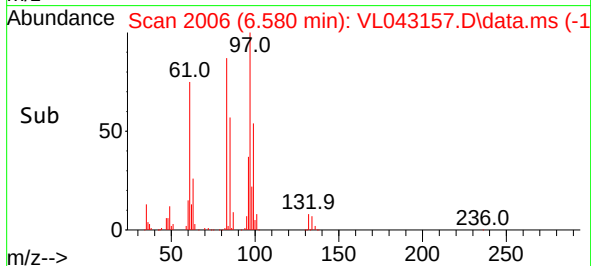
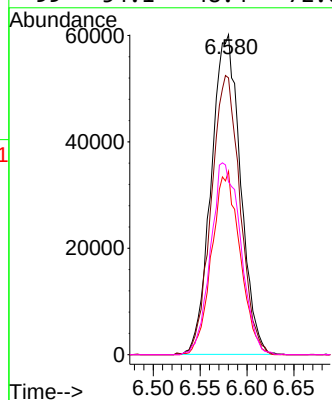
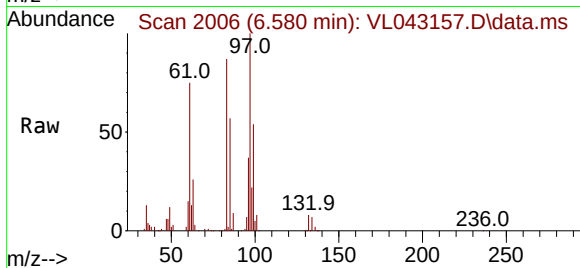
99 54.1 48.4 72.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#48

Dibromochloromethane

Concen: 11.091 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. -0.007 min

Lab File: VL043157.D

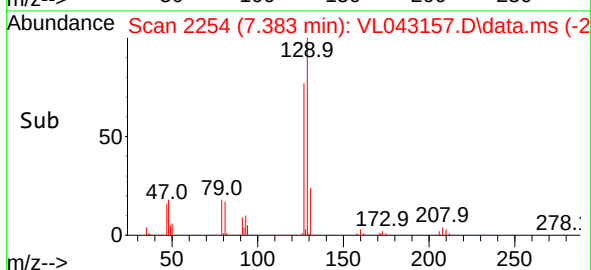
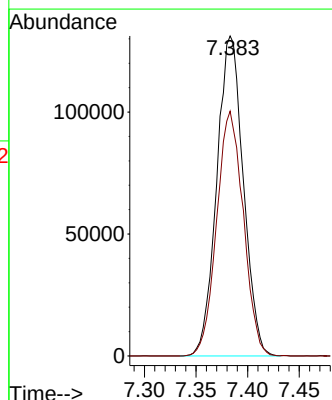
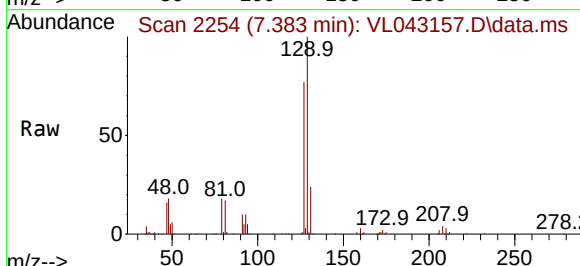
Acq: 06 Nov 2025 08:45

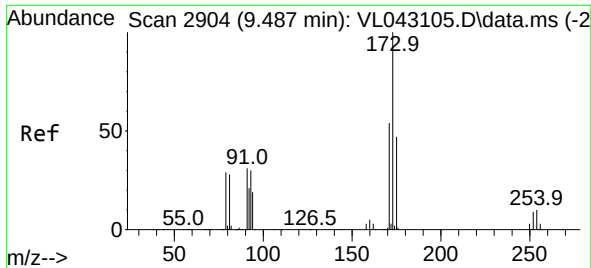
Tgt Ion:129 Resp: 234841

Ion Ratio Lower Upper

129 100

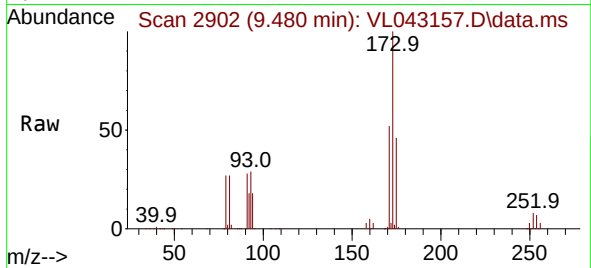
127 76.8 39.3 117.9





#49  
Bromoform  
Concen: 11.573 ppbv  
RT: 9.480 min Scan# 2904  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

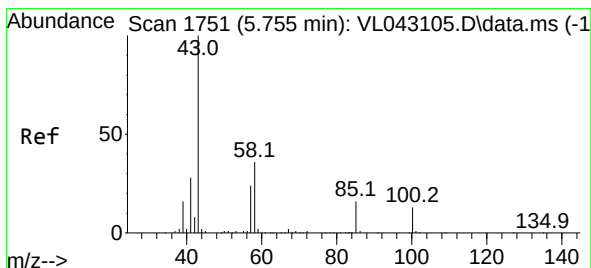
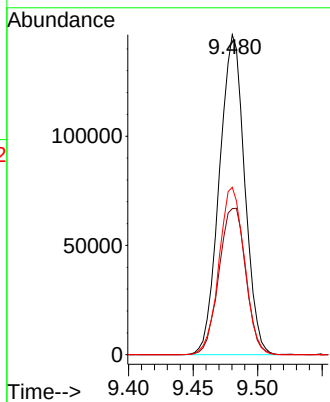
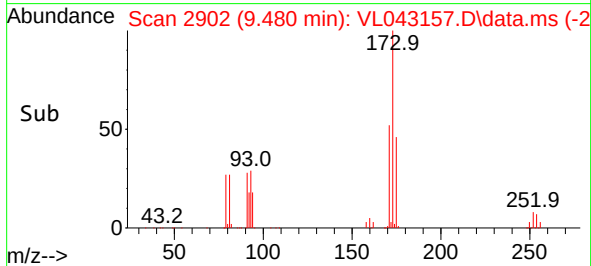
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



Tgt Ion: 173 Resp: 199190  
Ion Ratio Lower Upper  
173 100  
175 48.7 38.8 58.2  
171 52.7 41.7 62.5

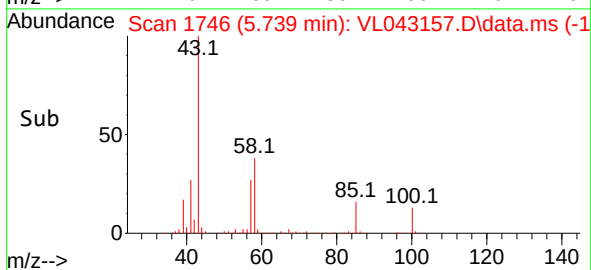
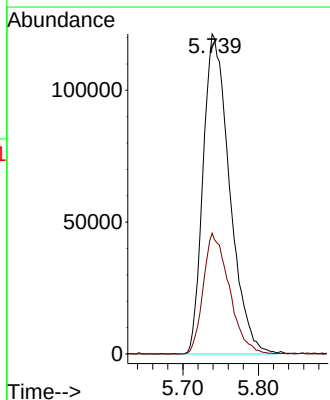
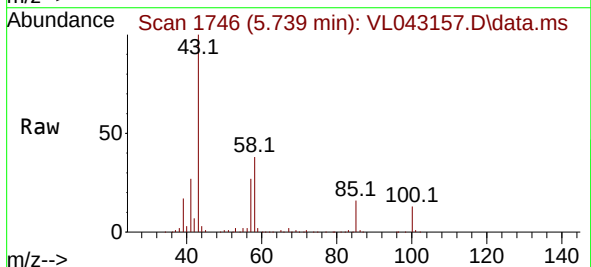
Manual Integrations  
APPROVED

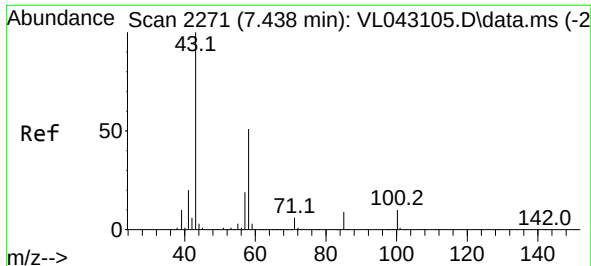
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#50  
4-Methyl-2-Pentanone  
Concen: 9.361 ppbv  
RT: 5.739 min Scan# 1746  
Delta R.T. -0.016 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 43 Resp: 295763  
Ion Ratio Lower Upper  
43 100  
58 36.9 29.1 43.7





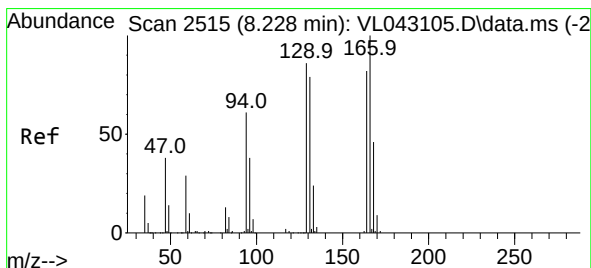
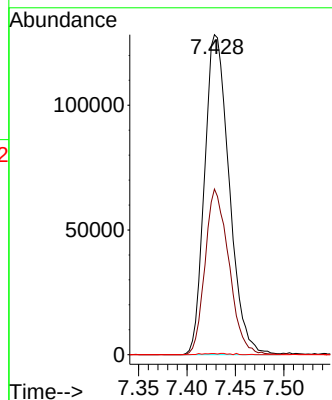
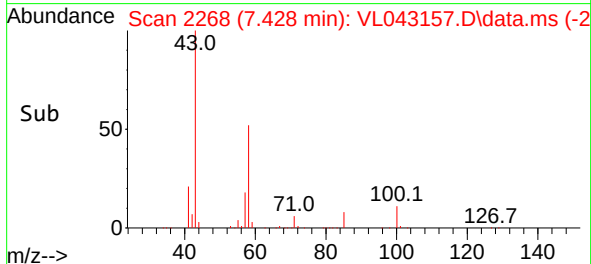
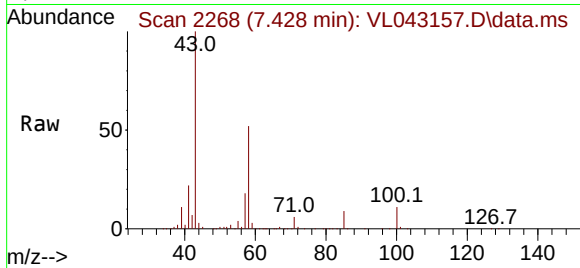
#51  
2-Hexanone  
Concen: 9.599 ppbv  
RT: 7.428 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 43 Resp: 22747  
Ion Ratio Lower Upper  
43 100  
58 50.1 40.4 60.6  
98 0.4 0.1 0.1

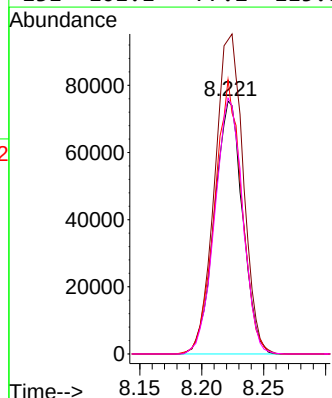
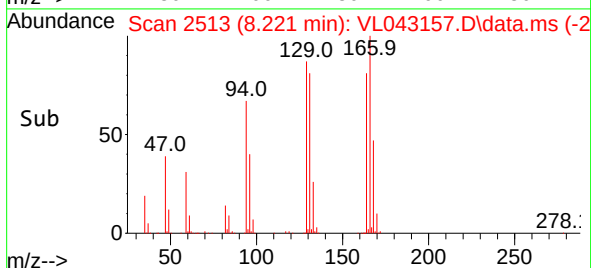
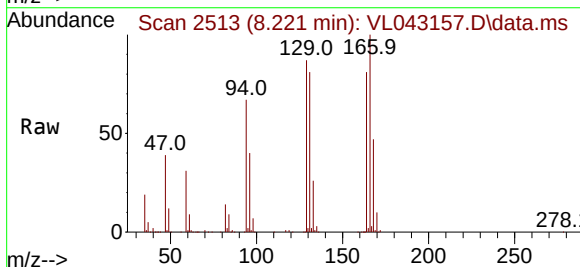
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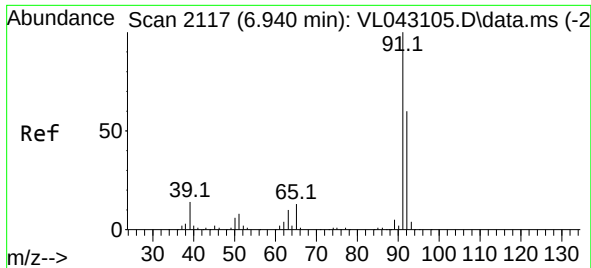
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#52  
Tetrachloroethene  
Concen: 10.312 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:164 Resp: 119279  
Ion Ratio Lower Upper  
164 100  
166 124.1 97.6 146.4  
129 108.3 84.5 126.7  
131 101.1 77.2 115.8





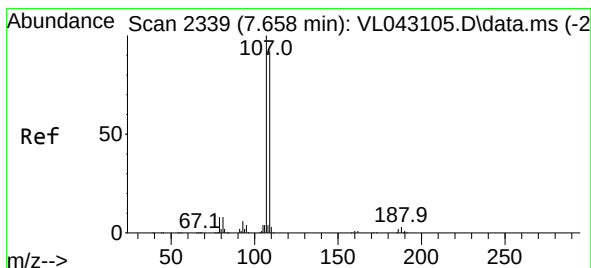
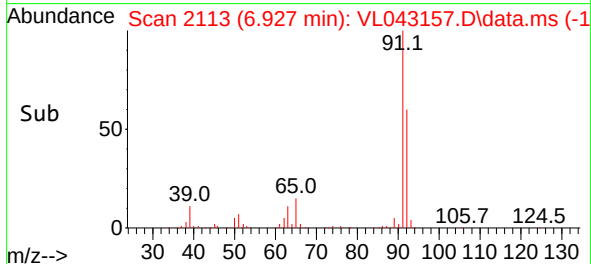
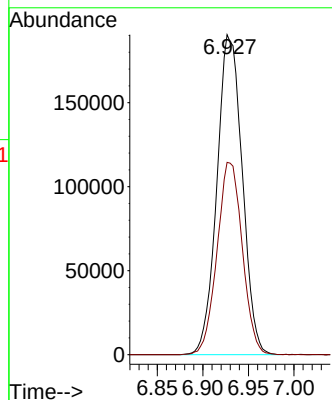
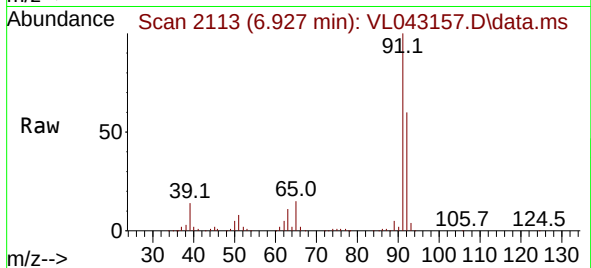
#53  
Toluene  
Concen: 9.679 ppbv  
RT: 6.927 min Scan# 2117  
Delta R.T. -0.013 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 91 Resp: 36848  
Ion Ratio Lower Upper  
91 100  
92 59.9 48.8 73.2

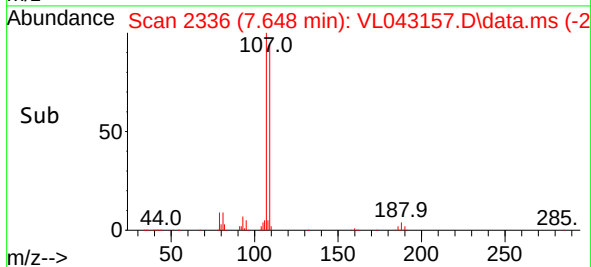
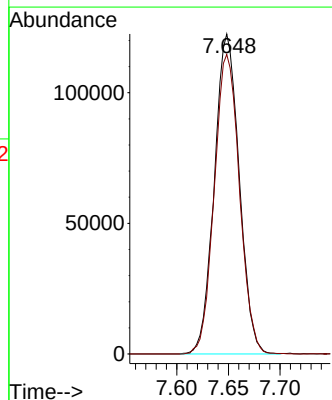
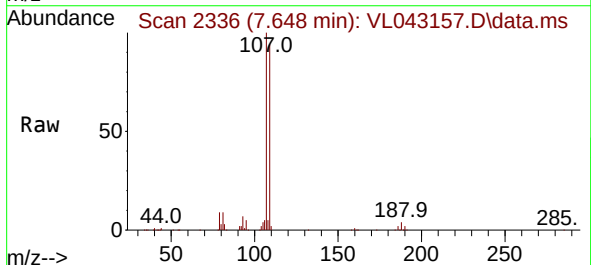
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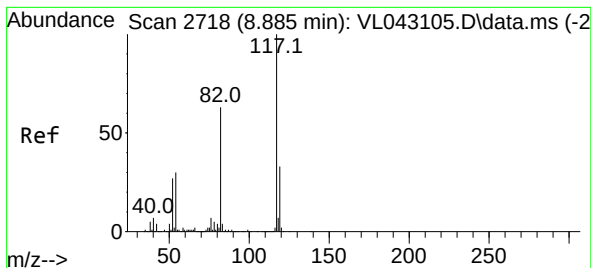
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#54  
1,2-Dibromoethane  
Concen: 10.345 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:107 Resp: 205210  
Ion Ratio Lower Upper  
107 100  
109 93.6 73.4 110.2





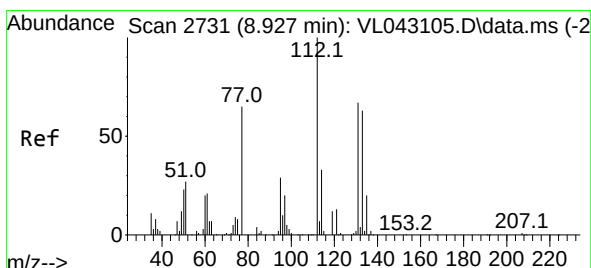
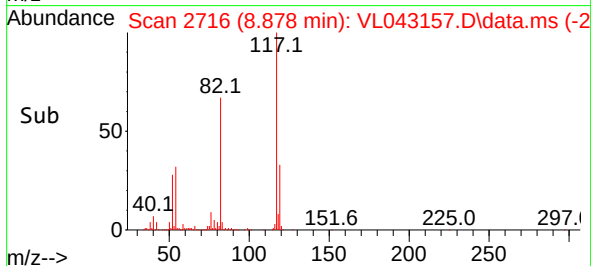
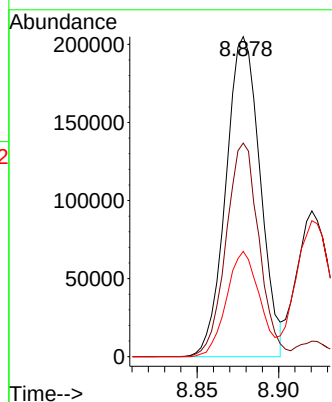
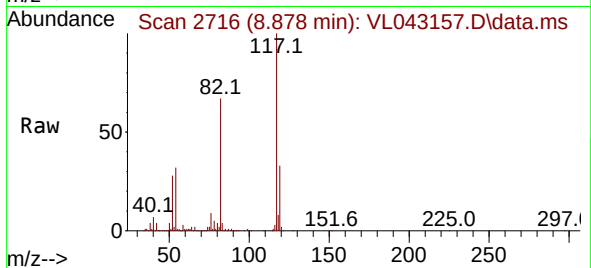
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument : MSVOA\_L  
ClientSampleId : VL1106ABS01

Tgt Ion:117 Resp: 299520  
Ion Ratio Lower Upper  
117 100  
82 68.6 53.8 80.8  
119 30.9 25.4 38.0

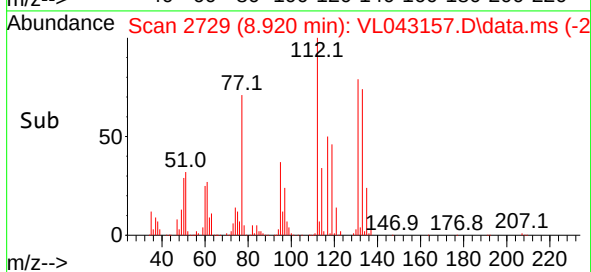
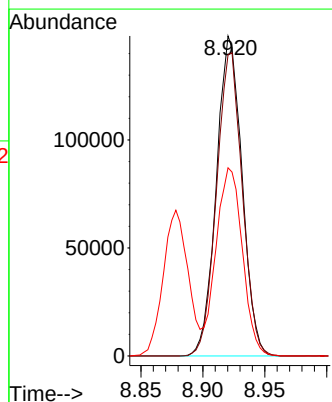
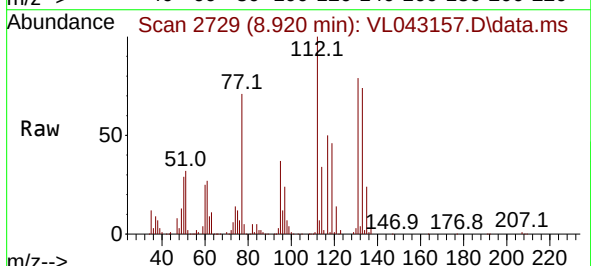
Manual Integrations  
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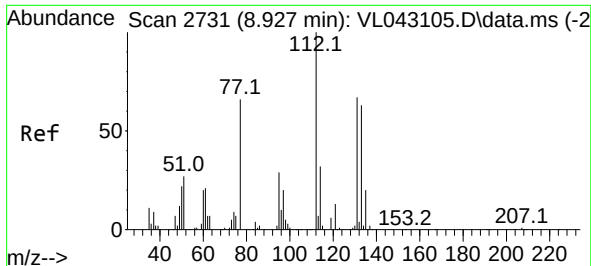
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.314 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:131 Resp: 213620  
Ion Ratio Lower Upper  
131 100  
133 95.0 75.7 113.5  
119 60.9 50.6 76.0





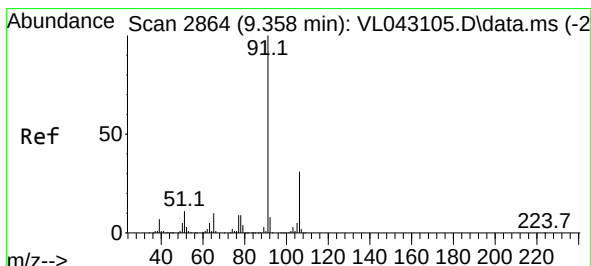
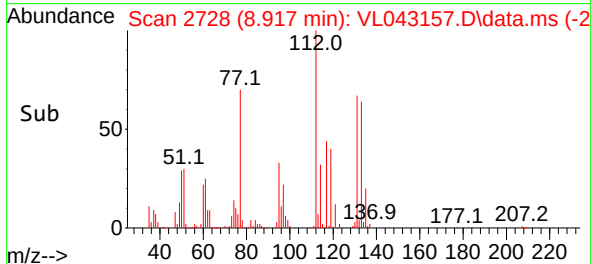
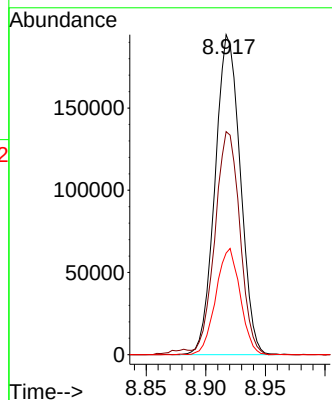
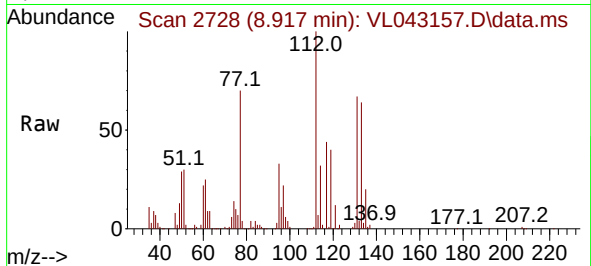
#57  
Chlorobenzene  
Concen: 10.219 ppbv  
RT: 8.917 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 112 Resp: 28634  
Ion Ratio Lower Upper  
112 100  
77 69.7 53.3 79.9  
114 31.7 29.3 35.8

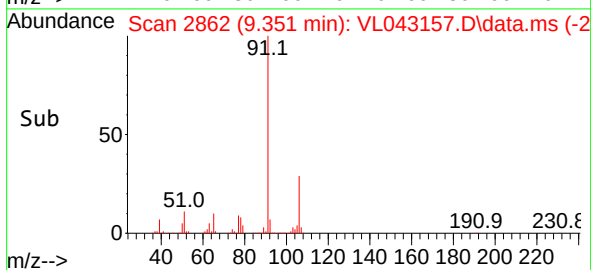
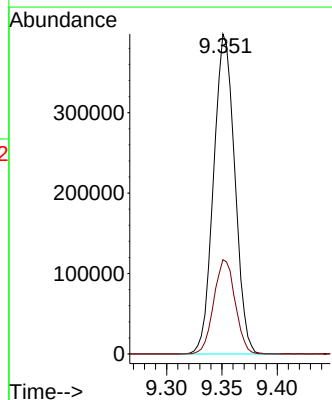
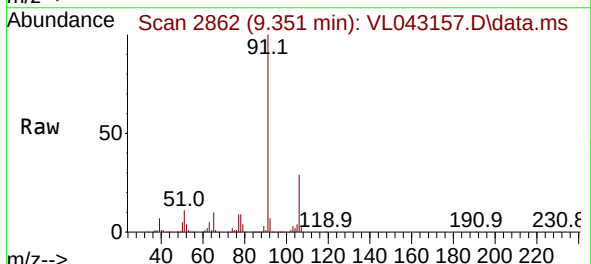
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

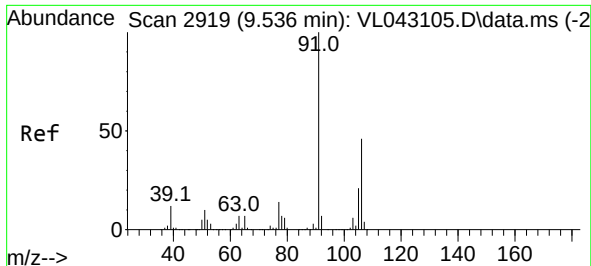


#58  
Ethyl Benzene  
Concen: 10.307 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 529847  
Ion Ratio Lower Upper  
91 100  
106 29.4 24.8 37.2







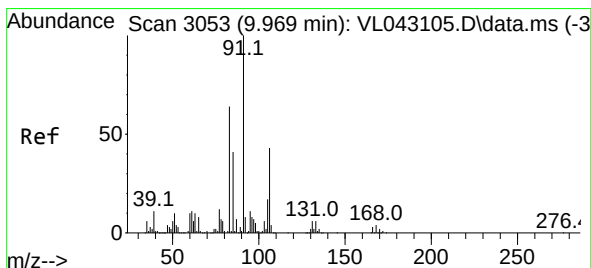
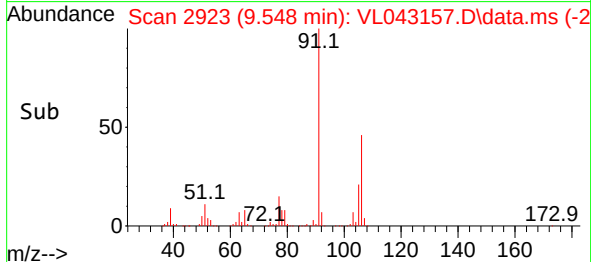
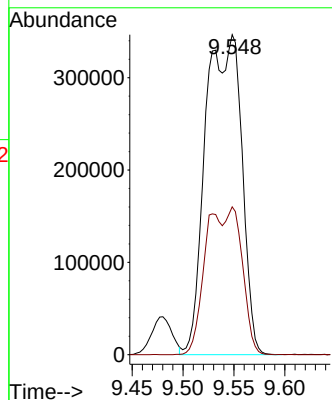
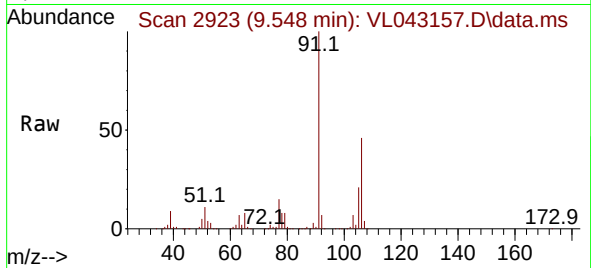
#59  
m/p-Xylene  
Concen: 20.888 ppbv m  
RT: 9.548 min Scan# 2919  
Delta R.T. 0.013 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 91 Resp: 85642  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0

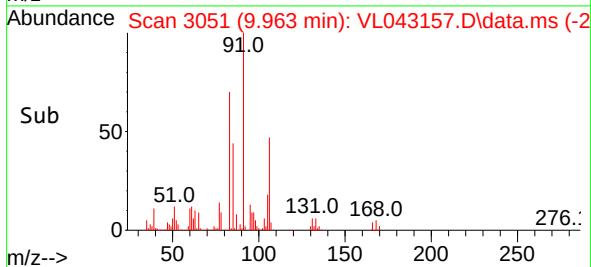
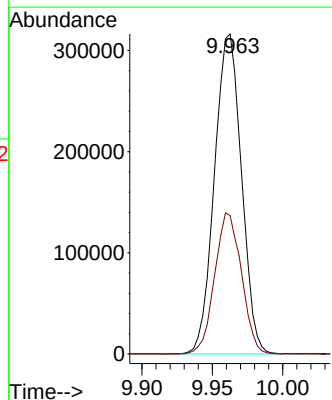
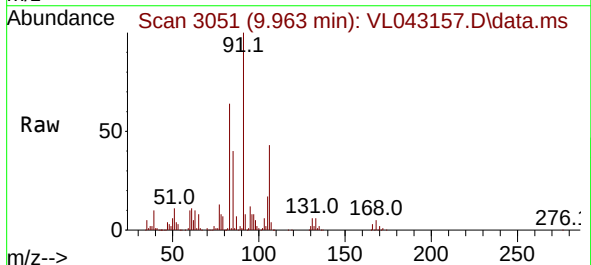
Manual Integrations  
APPROVED

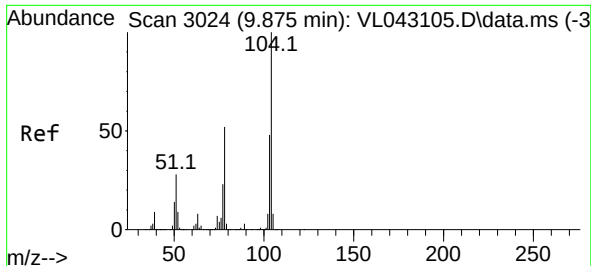
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#60  
o-Xylene  
Concen: 10.442 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 422838  
Ion Ratio Lower Upper  
91 100  
106 43.6 21.9 65.8





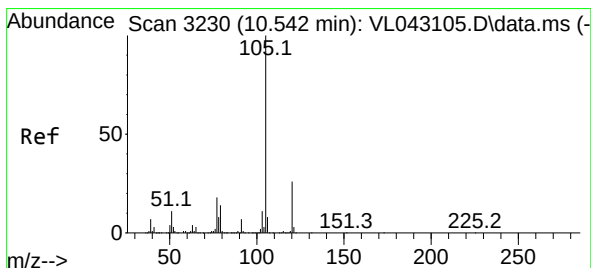
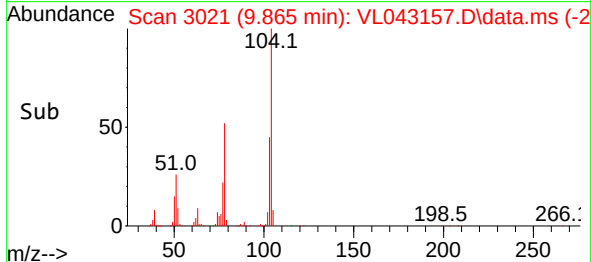
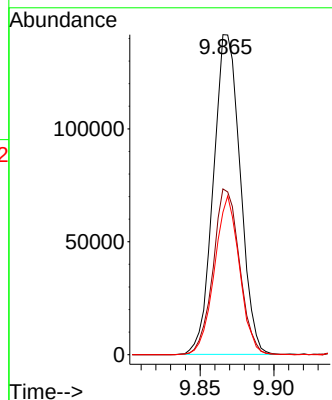
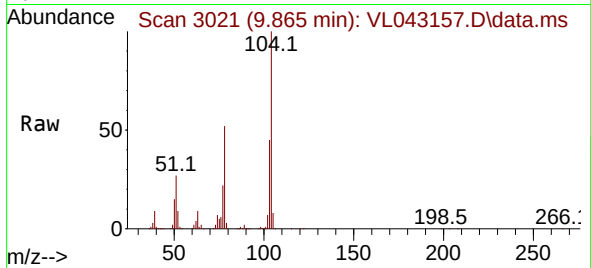
#61  
Styrene  
Concen: 9.802 ppbv  
RT: 9.865 min Scan# 3024  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument : MSVOA\_L  
ClientSampleId : VL1106ABS01

Tgt Ion:104 Resp: 17919  
Ion Ratio Lower Upper  
104 100  
78 51.2 40.2 60.2  
103 46.3 36.9 55.3

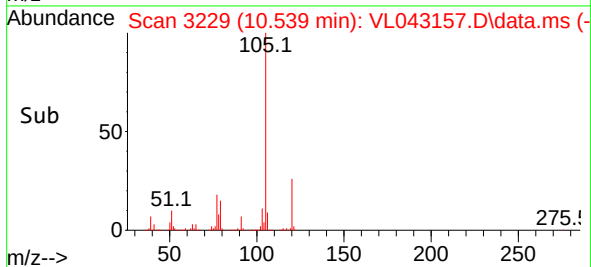
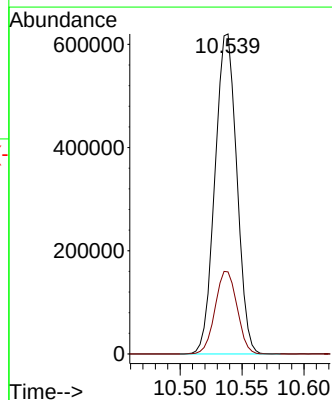
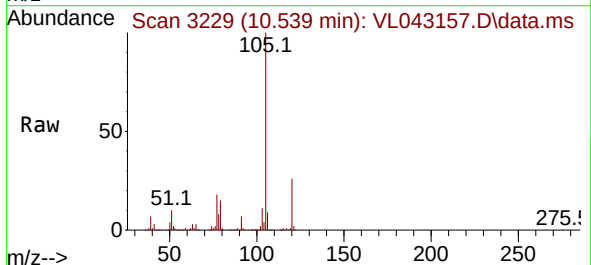
Manual Integrations  
APPROVED

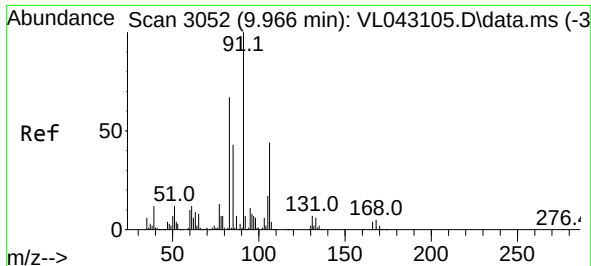
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#62  
Isopropylbenzene  
Concen: 10.416 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 762154  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.2 30.4





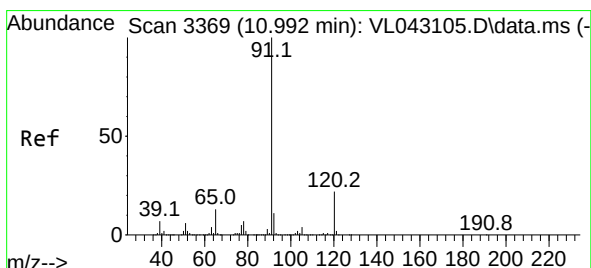
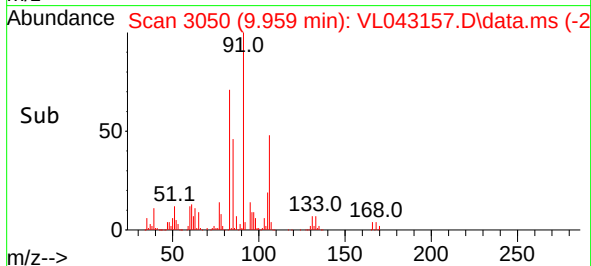
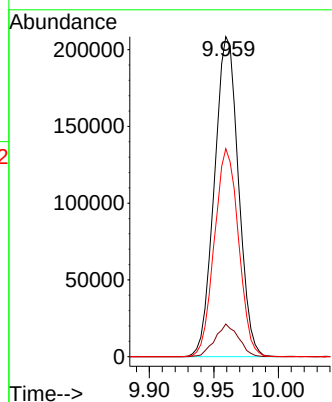
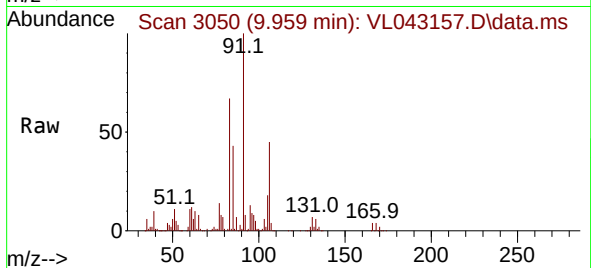
#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.947 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 83 Resp: 26972  
Ion Ratio Lower Upper  
83 100  
131 10.0 4.8 14.3  
85 65.2 32.0 96.0

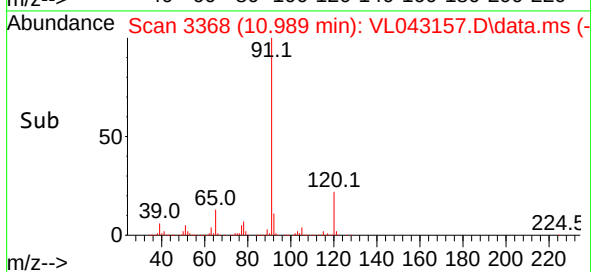
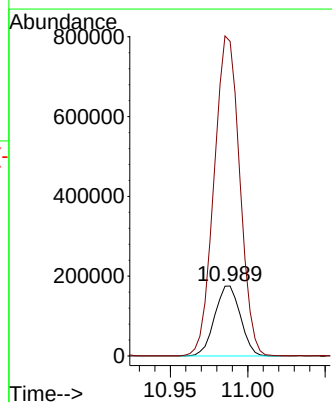
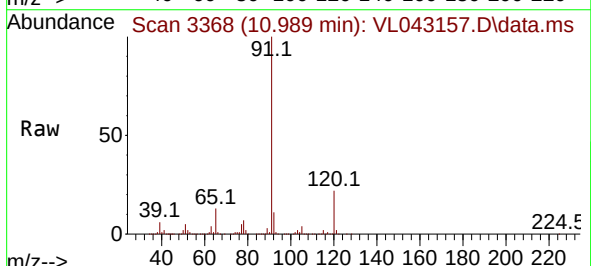
Manual Integrations  
APPROVED

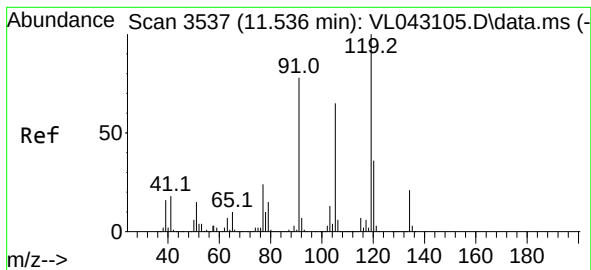
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#64  
n-propylbenzene  
Concen: 10.424 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

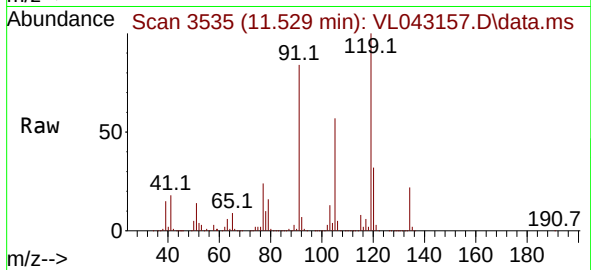
Tgt Ion:120 Resp: 201938  
Ion Ratio Lower Upper  
120 100  
91 458.0 361.6 542.4





#65  
tert-Butylbenzene  
Concen: 10.254 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

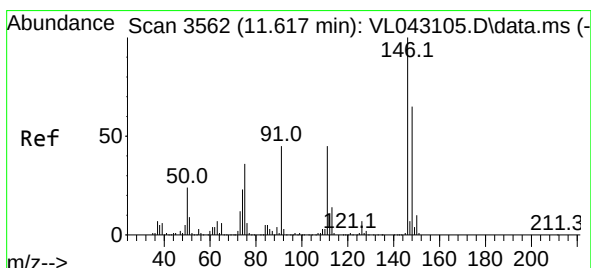
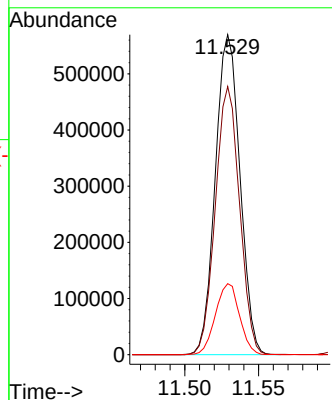
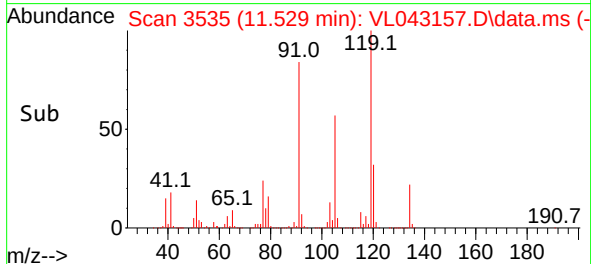
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



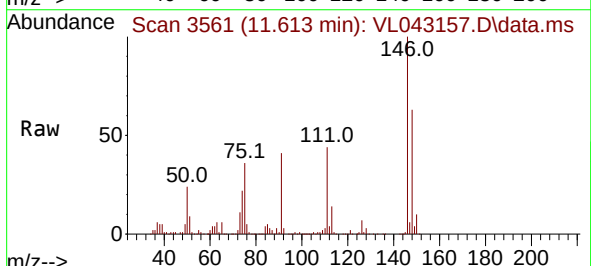
Tgt Ion: 119 Resp: 662570  
Ion Ratio Lower Upper  
119 100  
91 82.4 63.4 95.0  
134 21.7 17.3 25.9

Manual Integrations  
APPROVED

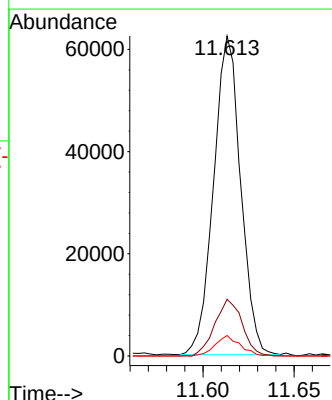
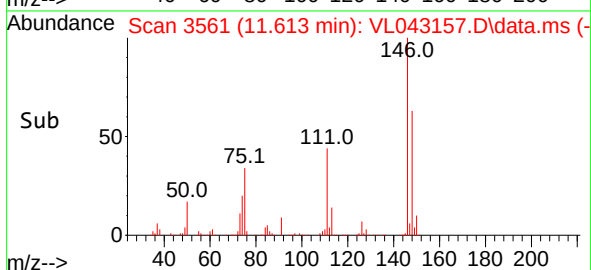
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

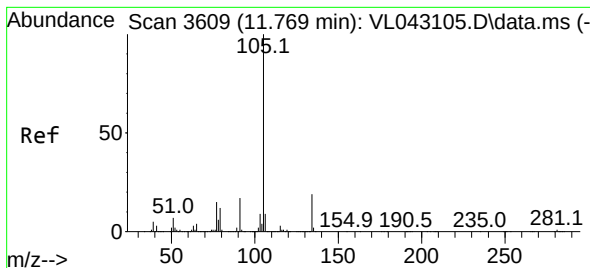


#66  
Benzyl Chloride  
Concen: 8.935 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45



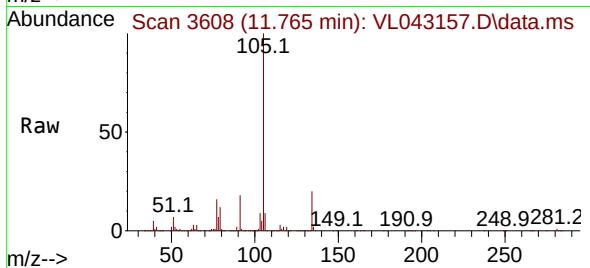
Tgt Ion: 91 Resp: 64257  
Ion Ratio Lower Upper  
91 100  
126 18.0 14.6 22.0  
128 5.9 4.6 6.8





#67  
 sec-Butylbenzene  
 Concen: 10.438 ppbv  
 RT: 11.765 min Scan# 3609  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

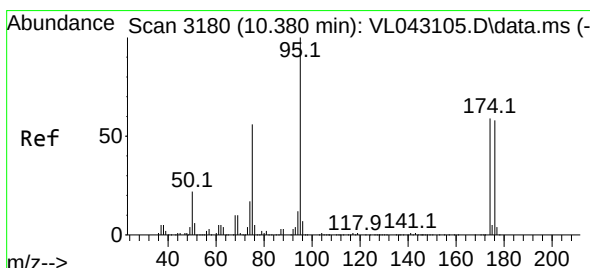
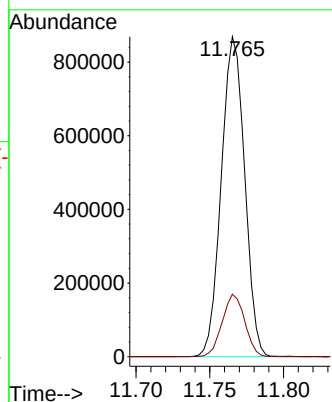
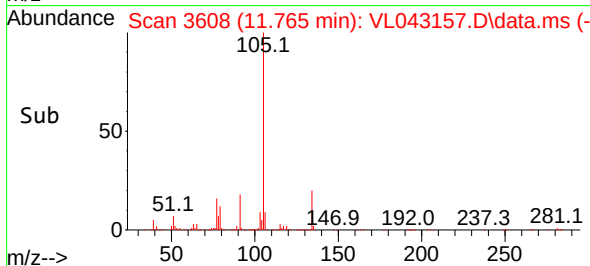
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01



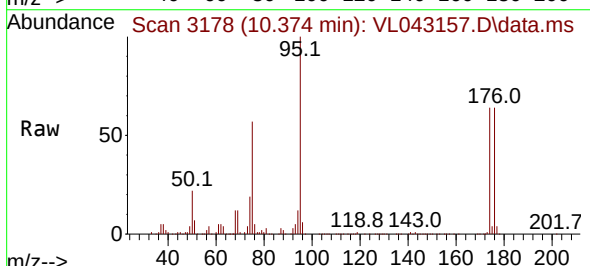
Tgt Ion:105 Resp: 957258  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 15.5 23.3

Manual Integrations  
 APPROVED

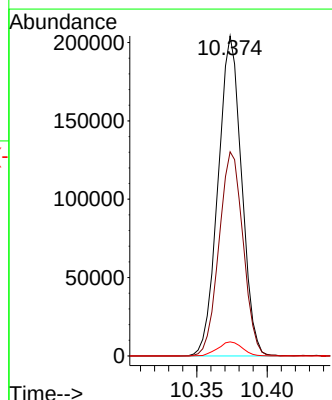
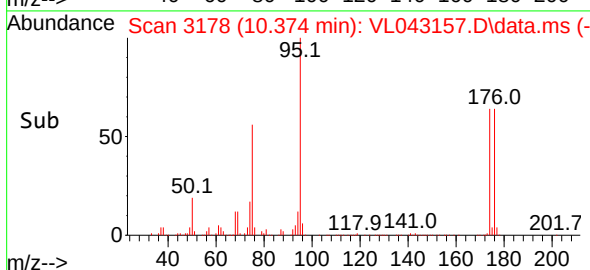
Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

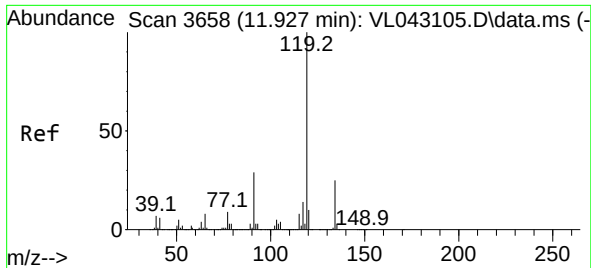


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.214 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. -0.007 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45



Tgt Ion: 95 Resp: 237797  
 Ion Ratio Lower Upper  
 95 100  
 174 65.3 48.3 72.5  
 175 4.6 3.8 5.8





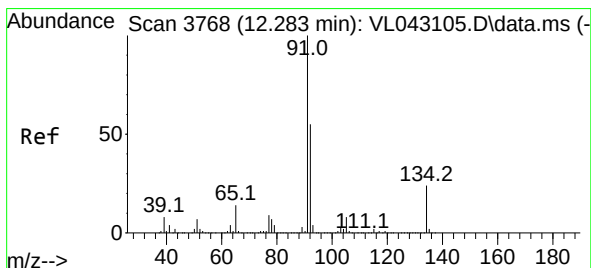
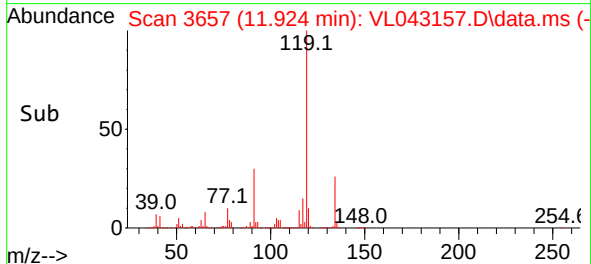
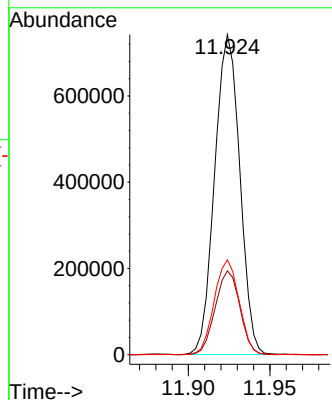
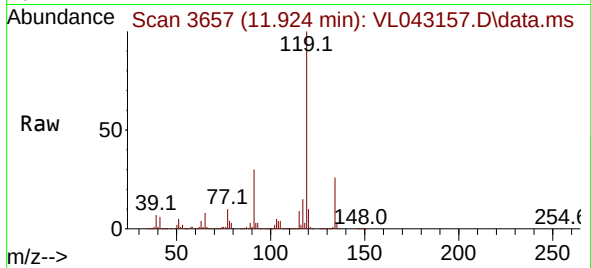
#69  
p-Isopropyltoluene  
Concen: 10.205 ppbv  
RT: 11.924 min Scan# 30  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion:119 Resp: 79524  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.3 30.5  
91 29.5 22.6 33.8

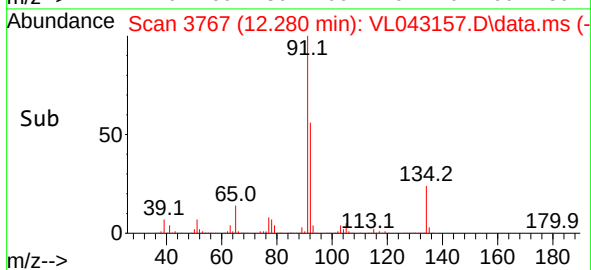
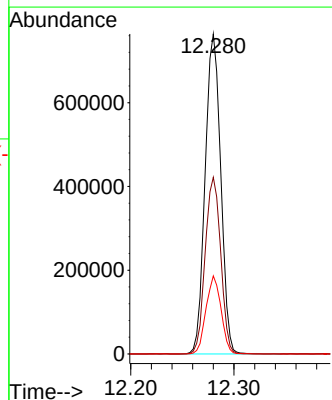
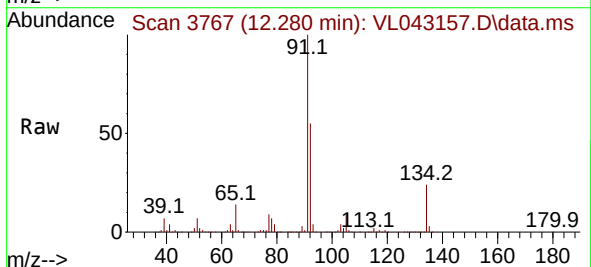
Manual Integrations  
APPROVED

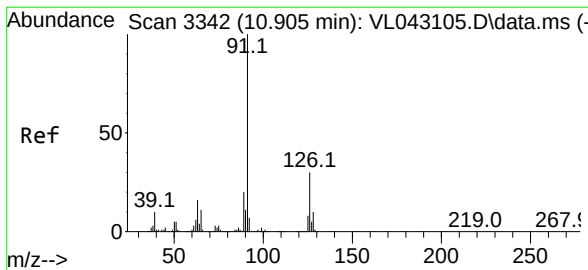
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#70  
n-Butylbenzene  
Concen: 10.392 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 798019  
Ion Ratio Lower Upper  
91 100  
92 55.0 44.5 66.7  
134 23.6 19.3 28.9





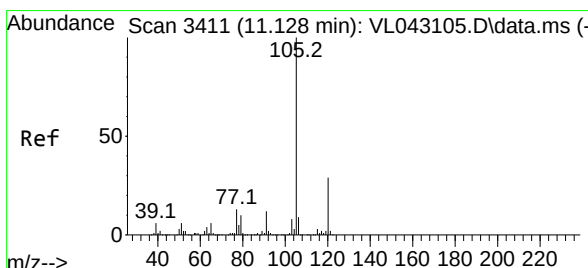
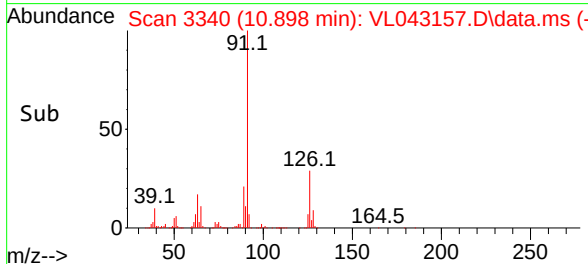
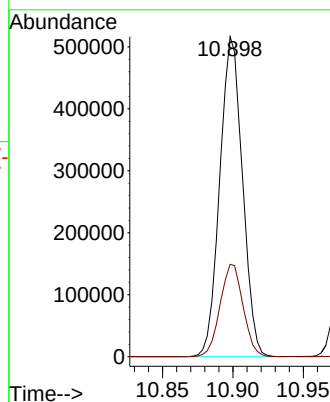
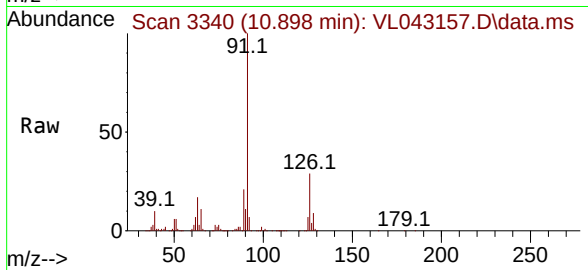
#71  
2-Chlorotoluene  
Concen: 10.386 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 91 Resp: 57964  
Ion Ratio Lower Upper  
91 100  
126 29.3 12.0 48.0

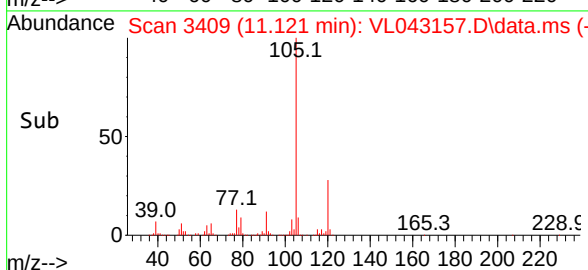
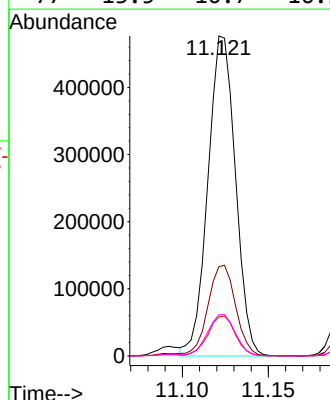
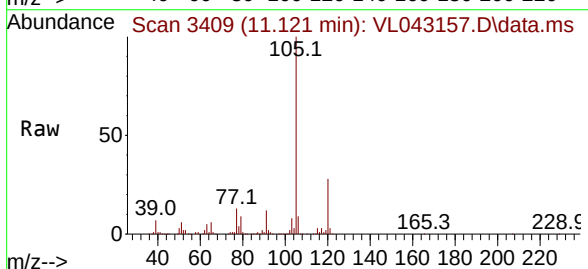
Manual Integrations  
APPROVED

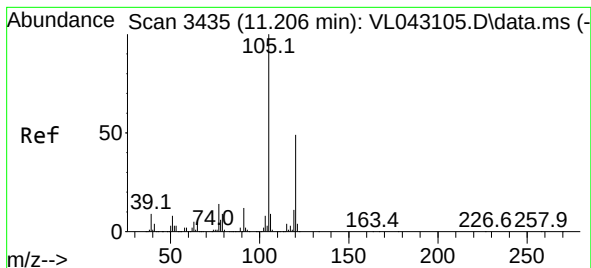
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#72  
4-Ethyltoluene  
Concen: 10.660 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 530791  
Ion Ratio Lower Upper  
105 100  
120 29.2 24.2 36.4  
91 12.7 10.0 15.0  
77 13.5 10.7 16.1





#73

1,3,5-Trimethylbenzene

Concen: 10.731 ppbv

RT: 11.202 min Scan# 34

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_L

ClientSampleId :

VL1106ABS01

Tgt Ion:105 Resp: 44066

Ion Ratio Lower Upper

105 100

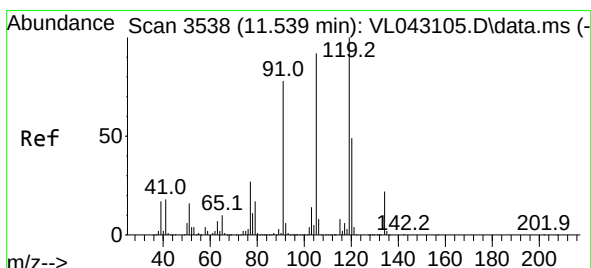
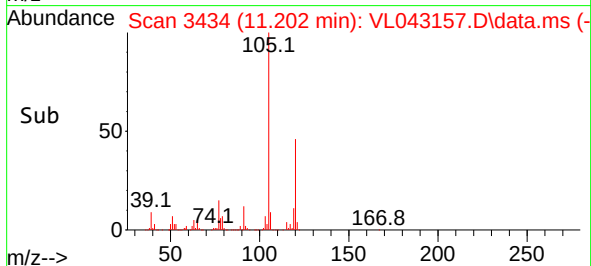
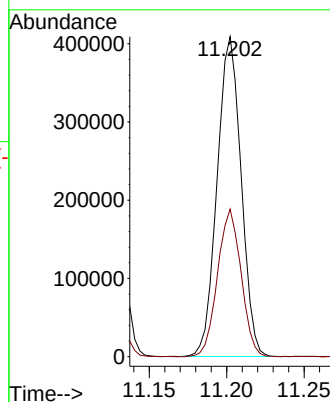
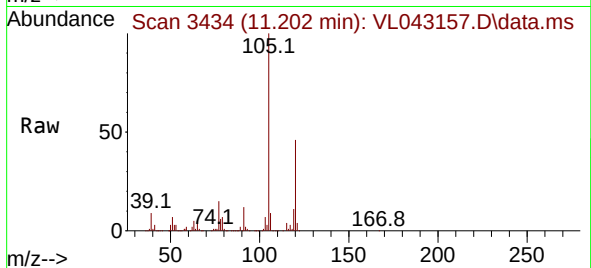
120 46.1 39.0 58.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#74

1,2,4-Trimethylbenzene

Concen: 10.390 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 477453

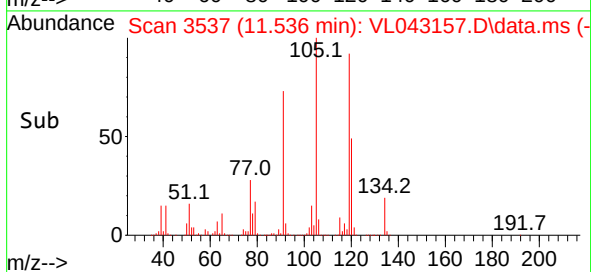
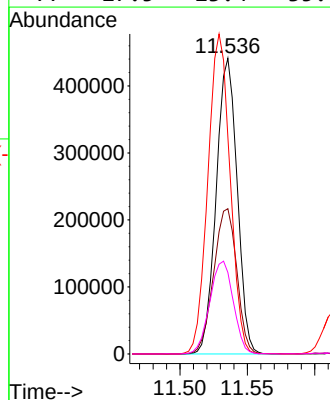
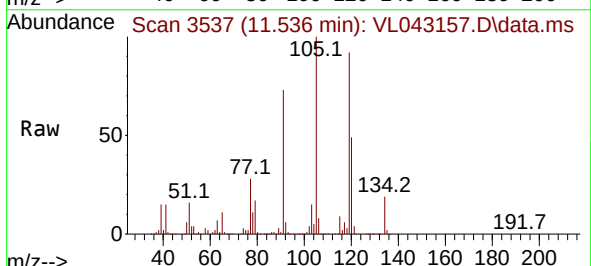
Ion Ratio Lower Upper

105 100

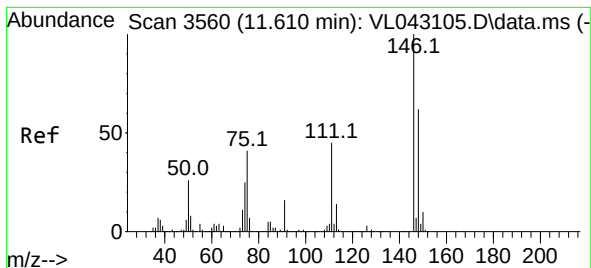
120 49.1 42.8 64.2

91 73.4 68.3 102.5

77 27.5 23.4 35.0







#75

1,3-Dichlorobenzene

Concen: 10.894 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_L

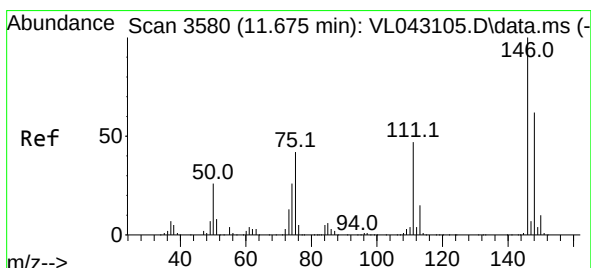
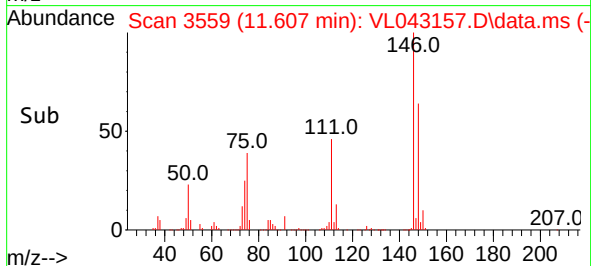
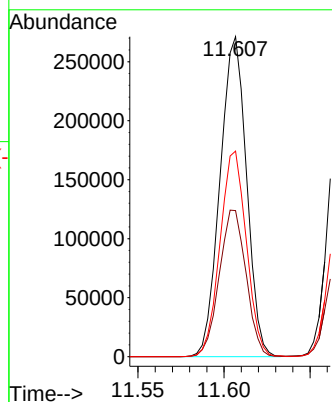
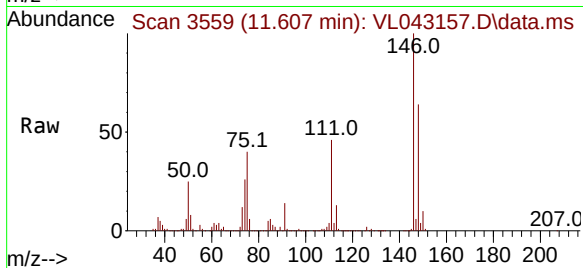
ClientSampleId :

VL1106ABS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 29034 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 46.4  | 23.3  | 69.9  |
| 148       | 63.9  | 31.6  | 95.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#76

1,4-Dichlorobenzene

Concen: 10.843 ppbv

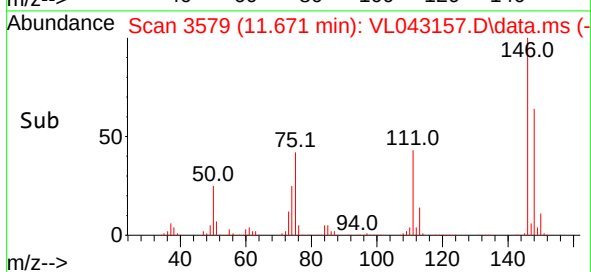
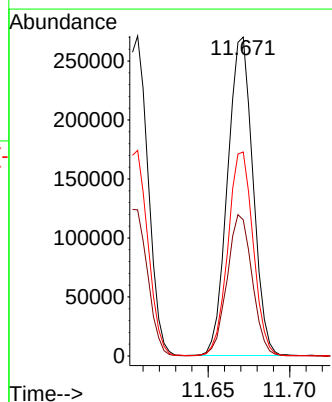
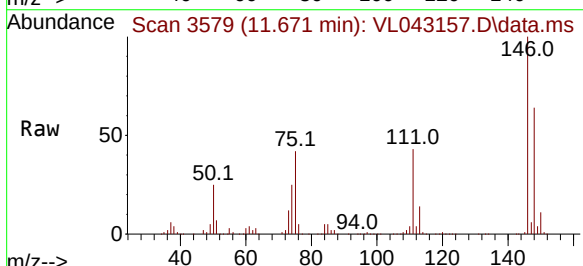
RT: 11.671 min Scan# 3579

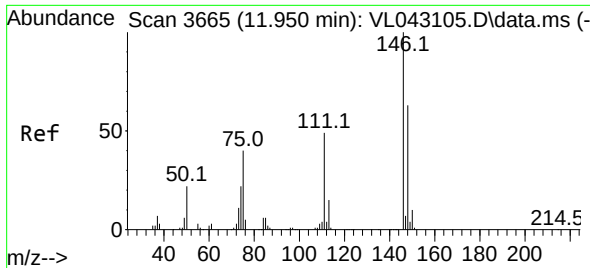
Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

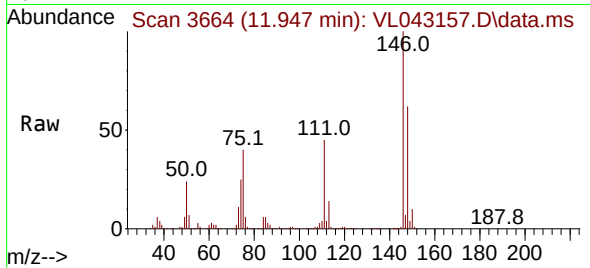
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 291409 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 44.2  | 22.4  | 67.0   |
| 148       | 64.0  | 31.6  | 94.7   |





#77  
1,2-Dichlorobenzene  
Concen: 10.728 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

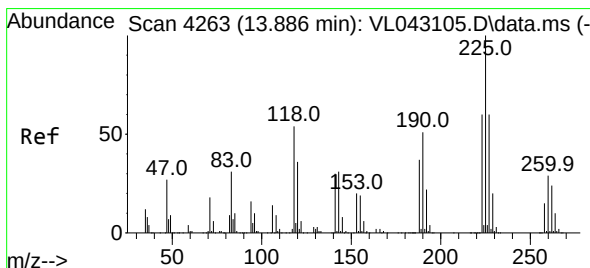
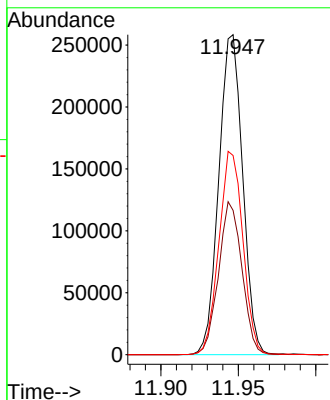
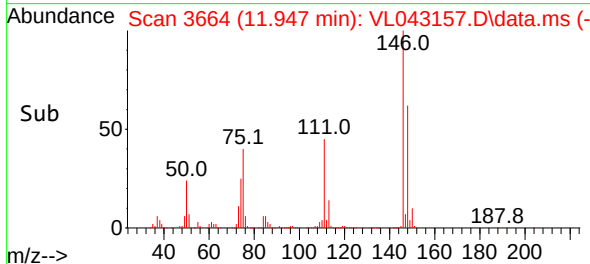
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



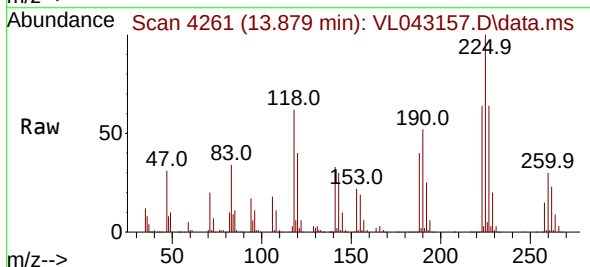
Tgt Ion:146 Resp: 276598  
Ion Ratio Lower Upper  
146 100  
111 47.1 24.0 72.0  
148 64.1 31.1 93.3

Manual Integrations  
APPROVED

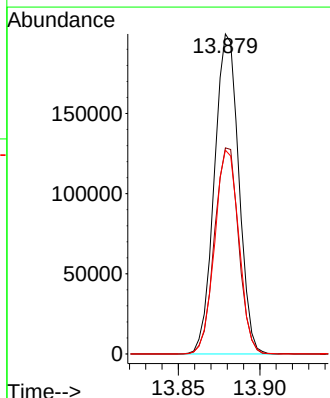
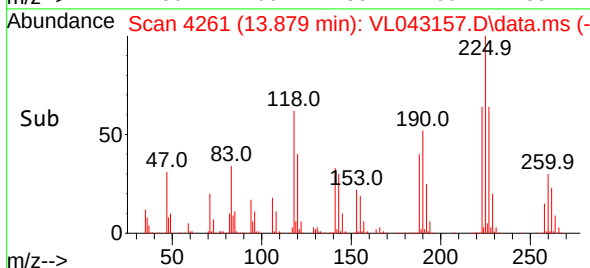
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

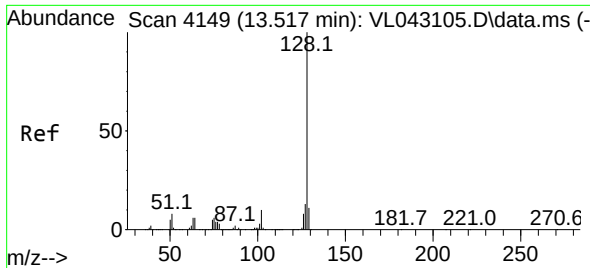


#78  
Hexachloro-1,3-Butadiene  
Concen: 10.393 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45



Tgt Ion:225 Resp: 207474  
Ion Ratio Lower Upper  
225 100  
223 63.7 50.2 75.4  
227 63.3 49.6 74.4





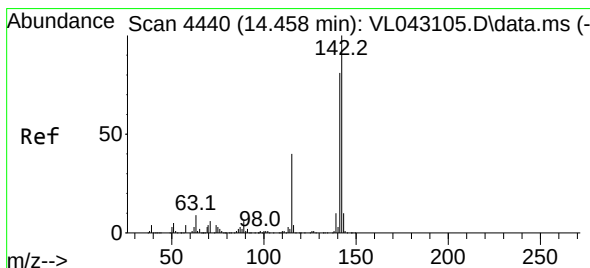
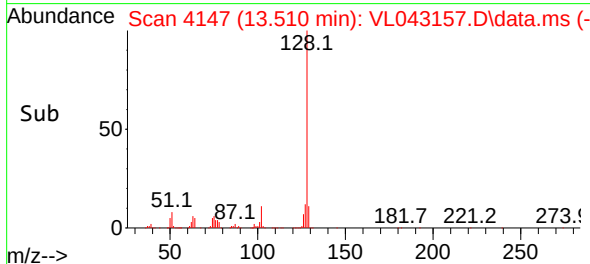
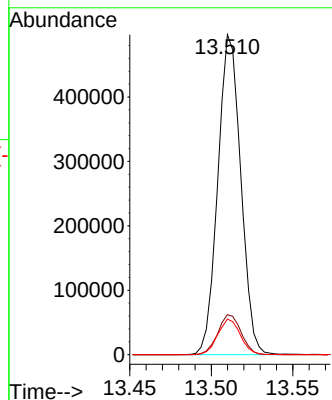
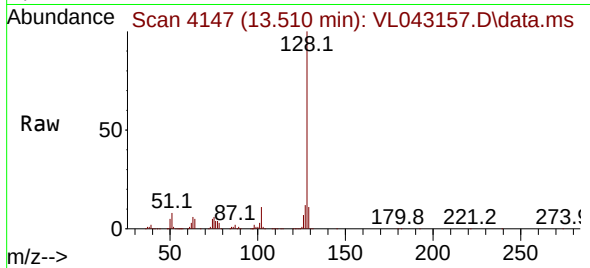
#79  
Naphthalene  
Concen: 10.127 ppbv  
RT: 13.510 min Scan# 4149  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

Tgt Ion:128 Resp: 48641  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 11.1 9.1 13.7

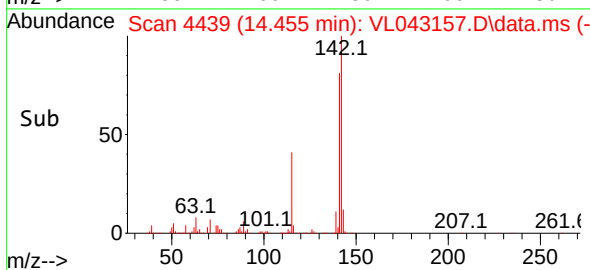
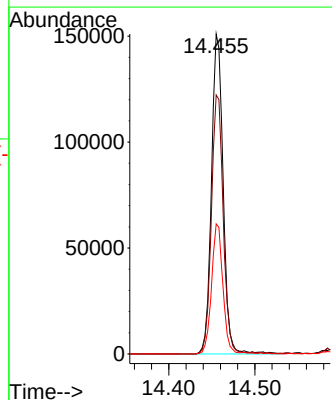
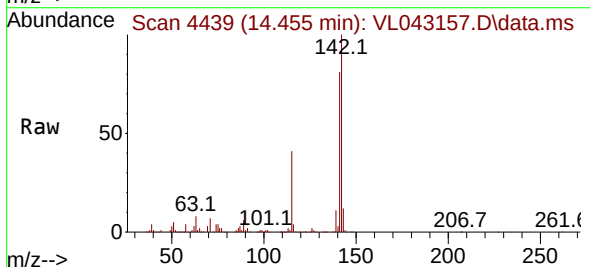
Manual Integrations  
APPROVED

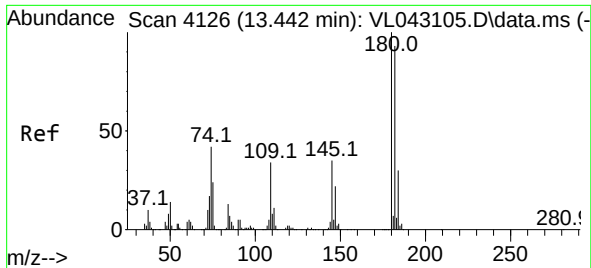
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#80  
Naphthalene,2-methyl-  
Concen: 11.387 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

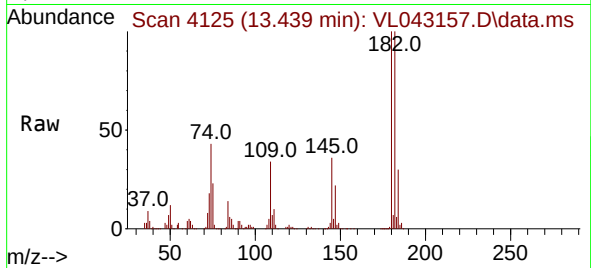
Tgt Ion:142 Resp: 142500  
Ion Ratio Lower Upper  
142 100  
141 83.2 64.6 97.0  
115 40.0 30.2 45.4





#81  
1,2,4-Trichlorobenzene  
Concen: 10.849 ppbv  
RT: 13.439 min Scan# 41  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

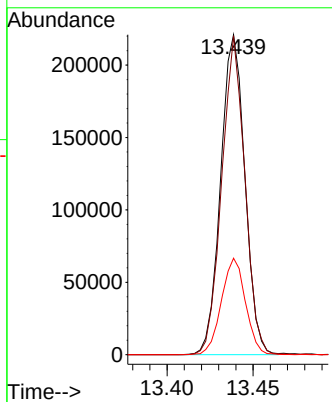
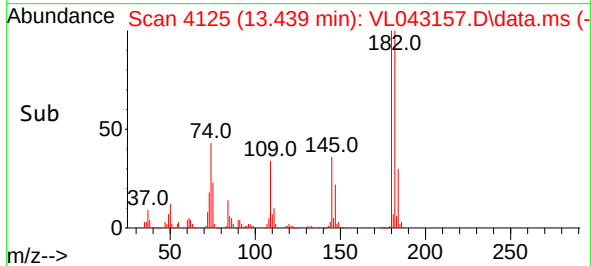
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01



Tgt Ion:180 Resp: 216292  
Ion Ratio Lower Upper  
180 100  
182 95.2 75.5 113.3  
184 29.9 23.9 35.9

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 151-IA-2DUP  
Lab Sample ID: Q3555-02DUP  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected:  
Date Received:  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qua. | DF | MDL<br>ug/m3 | LOQ / CRQL<br>ug/m3 | Date Ana.      | BatchID  |
|----------------|--------------------------------|---------------|----------------|------|----|--------------|---------------------|----------------|----------|
| <b>TARGETS</b> |                                |               |                |      |    |              |                     |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 0.45          | 2.23           | J    | 1  | 0.54         | 2.47                | 11/06/25 10:17 | VL110625 |
| 74-87-3        | Chloromethane                  | 0.39          | 0.81           | J    | 1  | 0.21         | 1.03                | 11/06/25 10:17 | VL110625 |
| 75-01-4        | Vinyl Chloride                 | 0.030         | 0.080          | U    | 1  | 0.080        | 0.080               | 11/06/25 10:17 | VL110625 |
| 74-83-9        | Bromomethane                   | 0.080         | 0.31           | U    | 1  | 0.31         | 1.94                | 11/06/25 10:17 | VL110625 |
| 75-00-3        | Chloroethane                   | 0.15          | 0.40           | U    | 1  | 0.40         | 1.32                | 11/06/25 10:17 | VL110625 |
| 109-99-9       | Tetrahydrofuran                | 0.080         | 0.24           | U    | 1  | 0.24         | 1.47                | 11/06/25 10:17 | VL110625 |
| 75-69-4        | Trichlorofluoromethane         | 0.33          | 1.85           | J    | 1  | 0.96         | 2.81                | 11/06/25 10:17 | VL110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.14          | 1.07           | U    | 1  | 1.07         | 3.83                | 11/06/25 10:17 | VL110625 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.15          | 1.05           | U    | 1  | 1.05         | 3.49                | 11/06/25 10:17 | VL110625 |
| 75-65-0        | tert-Butyl alcohol             | 0.16          | 0.49           | U    | 1  | 0.49         | 1.52                | 11/06/25 10:17 | VL110625 |
| 142-82-5       | Heptane                        | 0.17          | 0.70           | U    | 1  | 0.70         | 2.05                | 11/06/25 10:17 | VL110625 |
| 75-35-4        | 1,1-Dichloroethene             | 0.15          | 0.59           | U    | 1  | 0.59         | 1.98                | 11/06/25 10:17 | VL110625 |
| 67-64-1        | Acetone                        | 6.10          | 14.5           |      | 1  | 0.43         | 1.19                | 11/06/25 10:17 | VL110625 |
| 75-15-0        | Carbon Disulfide               | 0.080         | 0.25           | U    | 1  | 0.25         | 1.56                | 11/06/25 10:17 | VL110625 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.23          | 0.83           | U    | 1  | 0.83         | 1.80                | 11/06/25 10:17 | VL110625 |
| 75-09-2        | Methylene Chloride             | 0.51          | 1.77           |      | 1  | 0.80         | 1.74                | 11/06/25 10:17 | VL110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.12          | 0.48           | U    | 1  | 0.48         | 1.98                | 11/06/25 10:17 | VL110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U    | 1  | 0.53         | 2.02                | 11/06/25 10:17 | VL110625 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U    | 1  | 0.76         | 1.72                | 11/06/25 10:17 | VL110625 |
| 78-93-3        | 2-Butanone                     | 0.27          | 0.80           | J    | 1  | 0.18         | 1.47                | 11/06/25 10:17 | VL110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.080         | 0.50           |      | 1  | 0.19         | 0.19                | 11/06/25 10:17 | VL110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.10          | 0.40           | U    | 1  | 0.40         | 1.98                | 11/06/25 10:17 | VL110625 |
| 67-66-3        | Chloroform                     | 0.61          | 2.98           |      | 1  | 0.49         | 2.44                | 11/06/25 10:17 | VL110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 10:17 | VL110625 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.14          | 0.65           | U    | 1  | 0.65         | 2.34                | 11/06/25 10:17 | VL110625 |
| 71-43-2        | Benzene                        | 0.19          | 0.61           | J    | 1  | 0.26         | 1.60                | 11/06/25 10:17 | VL110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.22          | 0.89           | J    | 1  | 0.36         | 2.02                | 11/06/25 10:17 | VL110625 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U    | 1  | 0.11         | 0.16                | 11/06/25 10:17 | VL110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.13          | 0.60           | U    | 1  | 0.60         | 2.31                | 11/06/25 10:17 | VL110625 |
| 75-27-4        | Bromodichloromethane           | 0.060         | 0.40           | U    | 1  | 0.40         | 3.35                | 11/06/25 10:17 | VL110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.10          | 0.41           | U    | 1  | 0.41         | 2.05                | 11/06/25 10:17 | VL110625 |
| 108-88-3       | Toluene                        | 0.52          | 1.96           |      | 1  | 0.60         | 1.88                | 11/06/25 10:17 | VL110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.15          | 0.68           | U    | 1  | 0.68         | 2.27                | 11/06/25 10:17 | VL110625 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.11          | 0.50           | U    | 1  | 0.50         | 2.27                | 11/06/25 10:17 | VL110625 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.080         | 0.44           | U    | 1  | 0.44         | 2.73                | 11/06/25 10:17 | VL110625 |
| 124-48-1       | Dibromochloromethane           | 0.090         | 0.77           | U    | 1  | 0.77         | 4.26                | 11/06/25 10:17 | VL110625 |
| 106-93-4       | 1,2-Dibromoethane              | 0.090         | 0.69           | U    | 1  | 0.69         | 0.77                | 11/06/25 10:17 | VL110625 |
| 127-18-4       | Tetrachloroethene              | 0.020         | 0.14           | U    | 1  | 0.14         | 0.20                | 11/06/25 10:17 | VL110625 |
| 108-90-7       | Chlorobenzene                  | 0.080         | 0.37           | U    | 1  | 0.37         | 2.30                | 11/06/25 10:17 | VL110625 |
| 100-41-4       | Ethyl Benzene                  | 0.19          | 0.83           | U    | 1  | 0.83         | 2.17                | 11/06/25 10:17 | VL110625 |
| 179601-23-1    | m/p-Xylene                     | 0.41          | 1.78           | U    | 1  | 1.78         | 4.34                | 11/06/25 10:17 | VL110625 |
| 95-47-6        | o-Xylene                       | 0.21          | 0.91           | U    | 1  | 0.91         | 2.17                | 11/06/25 10:17 | VL110625 |
| 100-42-5       | Styrene                        | 0.16          | 0.68           | U    | 1  | 0.68         | 2.13                | 11/06/25 10:17 | VL110625 |
| 75-25-2        | Bromoform                      | 0.050         | 0.52           | U    | 1  | 0.52         | 5.17                | 11/06/25 10:17 | VL110625 |
| 79-34-5        | 1,1,2,2-Tetrachloroethane      | 0.020         | 0.14           | U    | 1  | 0.14         | 0.21                | 11/06/25 10:17 | VL110625 |
| 95-49-8        | 2-Chlorotoluene                | 0.17          | 0.88           | U    | 1  | 0.88         | 2.59                | 11/06/25 10:17 | VL110625 |

## Report of Analysis

Client: RTP Environmental  
Project: 131 JUNIPER DRIVE  
Client Sample ID: 151-IA-2DUP  
Lab Sample ID: Q3555-02DUP  
Analytical Method: TO-15  
Sample Wt/Vol: 400 mL

Date Collected:  
Date Received:  
SDG No.: Q3556  
Matrix: Air  
Test: TO-15

| CAS Number | Parameter                | Conc. ppbv | Conc. ug/M3 | Qua. | DF | MDL ug/m3 | LOQ / CRQL ug/m3 | Date Ana.      | BatchID  |
|------------|--------------------------|------------|-------------|------|----|-----------|------------------|----------------|----------|
| 108-67-8   | 1,3,5-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 10:17 | VL110625 |
| 95-63-6    | 1,2,4-Trimethylbenzene   | 0.18       | 0.88        | U    | 1  | 0.88      | 2.46             | 11/06/25 10:17 | VL110625 |
| 541-73-1   | 1,3-Dichlorobenzene      | 0.050      | 0.30        | U    | 1  | 0.30      | 3.01             | 11/06/25 10:17 | VL110625 |
| 106-46-7   | 1,4-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 10:17 | VL110625 |
| 95-50-1    | 1,2-Dichlorobenzene      | 0.13       | 0.78        | U    | 1  | 0.78      | 3.01             | 11/06/25 10:17 | VL110625 |
| 120-82-1   | 1,2,4-Trichlorobenzene   | 0.21       | 1.56        | U    | 1  | 1.56      | 3.71             | 11/06/25 10:17 | VL110625 |
| 87-68-3    | Hexachloro-1,3-Butadiene | 0.13       | 1.39        | U    | 1  | 1.39      | 5.33             | 11/06/25 10:17 | VL110625 |
| 106-99-0   | 1,3-Butadiene            | 0.050      | 0.11        | U    | 1  | 0.11      | 1.11             | 11/06/25 10:17 | VL110625 |
| 91-20-3    | Naphthalene              | 0.010      | 0.050       | U    | 1  | 0.050     | 0.52             | 11/06/25 10:17 | VL110625 |
| 622-96-8   | 4-Ethyltoluene           | 0.21       | 1.03        | U    | 1  | 1.03      | 2.46             | 11/06/25 10:17 | VL110625 |
| 110-54-3   | Hexane                   | 0.99       | 3.49        |      | 1  | 0.56      | 1.76             | 11/06/25 10:17 | VL110625 |
| 107-05-1   | Allyl Chloride           | 0.11       | 0.34        | U    | 1  | 0.34      | 1.57             | 11/06/25 10:17 | VL110625 |
| 123-91-1   | 1,4-Dioxane              | 0.22       | 0.79        | U    | 1  | 0.79      | 1.80             | 11/06/25 10:17 | VL110625 |
| 80-62-6    | Methyl Methacrylate      | 0.14       | 0.57        | U    | 1  | 0.57      | 2.05             | 11/06/25 10:17 | VL110625 |

### SURROGATES

460-00-4 1-Bromo-4-Fluorobenzene 10.1 70 (65) - 130 101% SPK: 10

### INTERNAL STANDARDS

Area Count  
74-97-5 Bromochloromethane 118000  
540-36-3 1,4-Difluorobenzene 355000  
3114-55-4 Chlorobenzene-d5 304000

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043159.D  
 Acq On : 06 Nov 2025 10:17  
 Operator : SY/MD  
 Sample : Q3555-02DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 151-IA-2DUP

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:19:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.790  | 49    | 118024   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.962  | 114   | 354784   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.881  | 117   | 303947   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 238666   | 10.102   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 101.000% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.502  | 85    | 7609     | 0.453    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 1.479  | 51    | 5305m    | 0.292    | ppbv   |          |
| 4) Chloromethane            | 1.534  | 50    | 2577     | 0.388    | ppbv   | 98       |
| 9) Propene                  | 1.489  | 41    | 3944     | 0.490    | ppbv   | 85       |
| 10) Heptane                 | 4.991  | 43    | 2953m    | 0.127    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.881  | 101   | 5437     | 0.331    | ppbv   | 98       |
| 13) Ethanol                 | 1.722  | 45    | 124950   | 41.954   | ppbv   | 96       |
| 15) Acetone                 | 1.839  | 43    | 97541    | 6.132    | ppbv   | 95       |
| 17) tert-Butyl alcohol      | 2.046  | 59    | 2284m    | 0.105    | ppbv   |          |
| 19) Isopropyl Alcohol       | 1.887  | 45    | 278208   | 28.080   | ppbv # | 37       |
| 20) Methylene Chloride      | 2.065  | 84    | 3186     | 0.507    | ppbv   | 96       |
| 26) Hexane                  | 2.832  | 57    | 18040    | 0.992    | ppbv # | 56       |
| 29) Chloroform              | 2.848  | 83    | 16144    | 0.613    | ppbv   | 93       |
| 30) Cyclohexane             | 3.861  | 84    | 1460m    | 0.092    | ppbv   |          |
| 34) 2-Butanone              | 2.560  | 43    | 6502     | 0.273    | ppbv   | 99       |
| 35) Carbon Tetrachloride    | 3.768  | 117   | 2069     | 0.081    | ppbv # | 93       |
| 36) Benzene                 | 3.664  | 78    | 6423m    | 0.192    | ppbv   |          |
| 37) 1,2-Dichloroethane      | 3.221  | 62    | 4176     | 0.217    | ppbv   | 96       |
| 44) 2,2,4-Trimethylpentane  | 4.648  | 57    | 5811m    | 0.103    | ppbv   |          |
| 53) Toluene                 | 6.936  | 91    | 20621    | 0.520    | ppbv   | 95       |
| 59) m/p-Xylene              | 9.532  | 91    | 11376m   | 0.273    | ppbv   |          |
| 60) o-Xylene                | 9.966  | 91    | 4406m    | 0.107    | ppbv   |          |

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

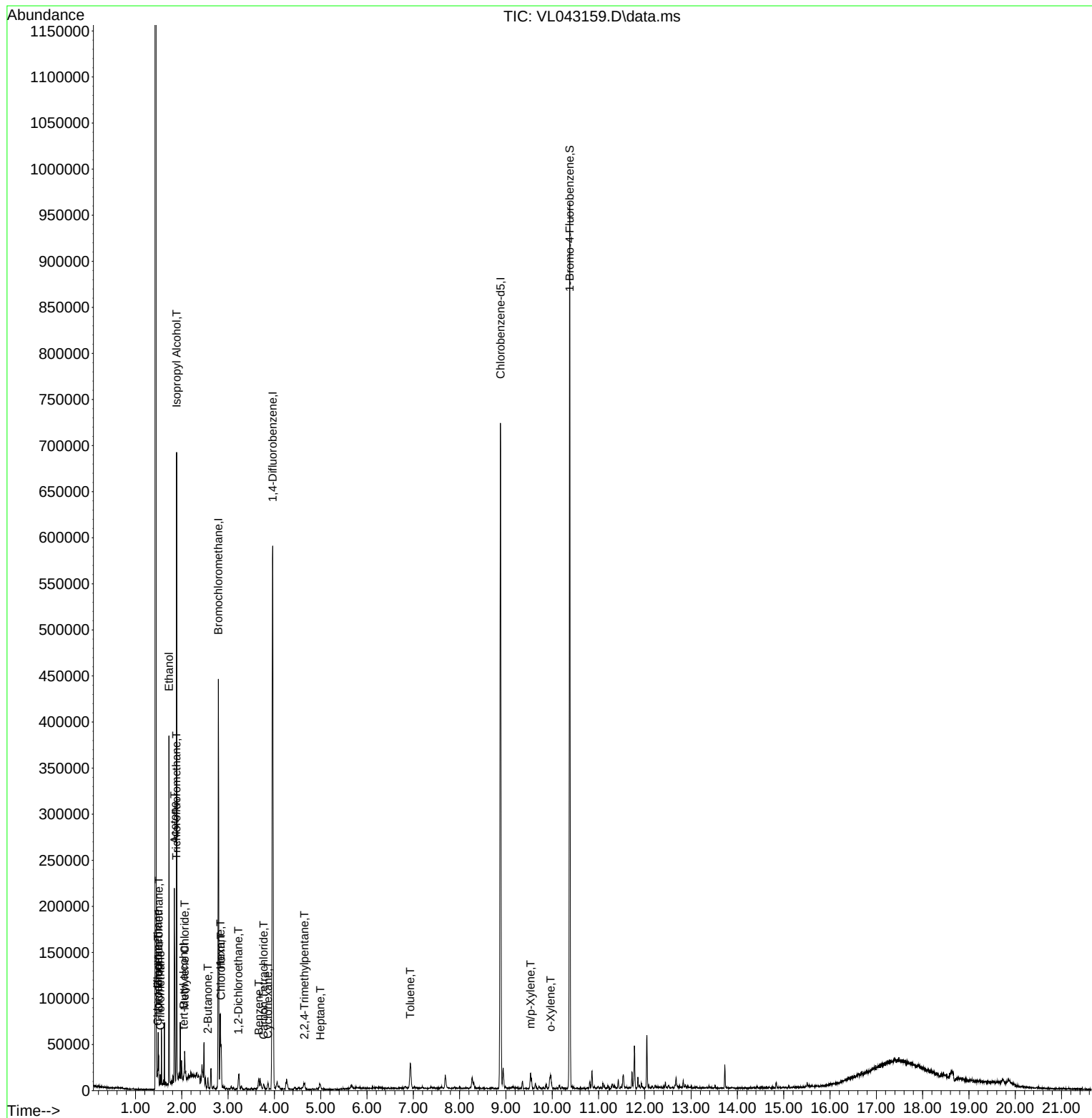
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043159.D  
Acq On : 06 Nov 2025 10:17  
Operator : SY/MD  
Sample : Q3555-02DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

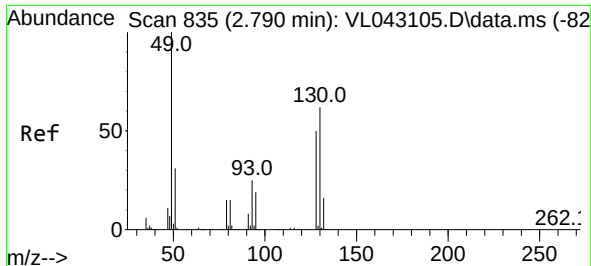
Quant Time: Nov 07 00:19:08 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 11/07/2025  
Supervised By : Mahesh Dadoda 11/10/2025

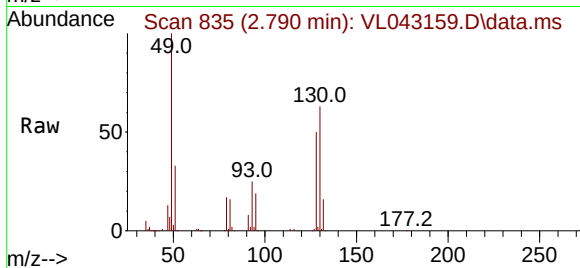






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

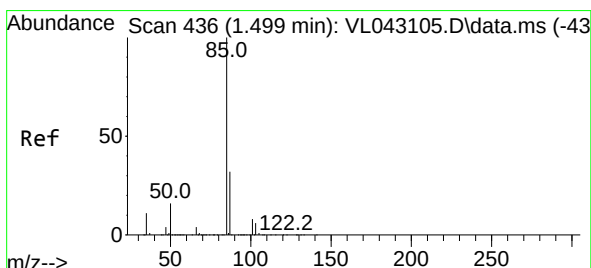
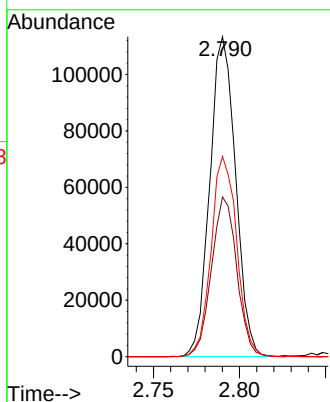
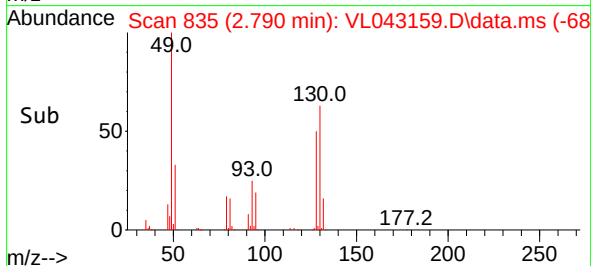
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



Tgt Ion: 49 Resp: 118024  
Ion Ratio Lower Upper  
49 100  
128 49.1 24.4 73.4  
130 62.2 31.0 93.0

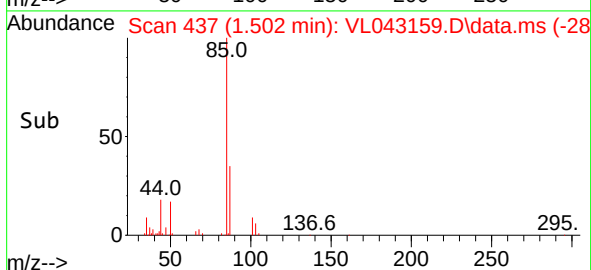
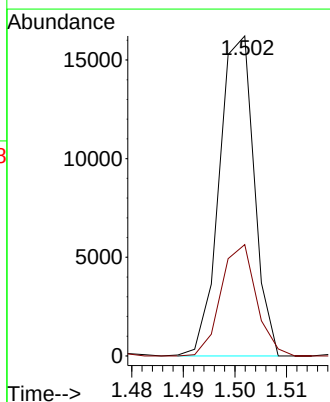
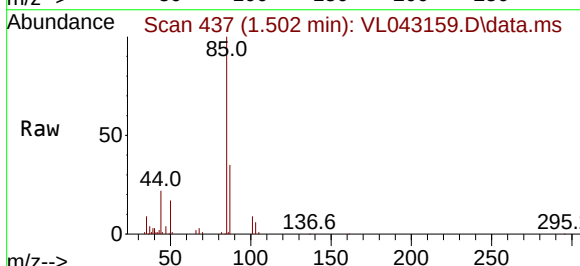
Manual Integrations  
APPROVED

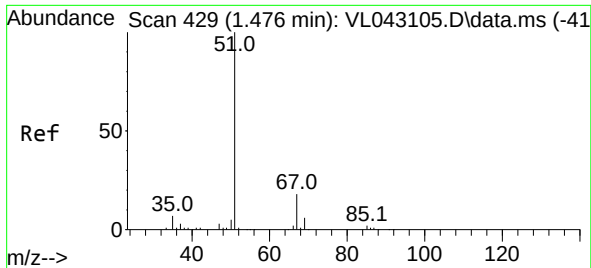
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#2  
Dichlorodifluoromethane  
Concen: 0.453 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

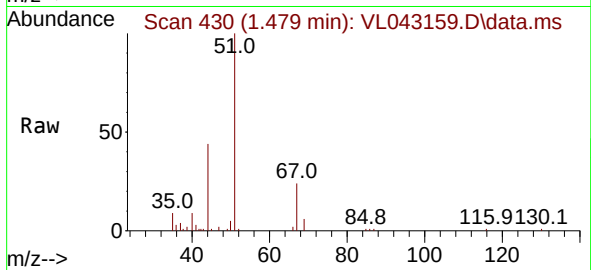
Tgt Ion: 85 Resp: 7609  
Ion Ratio Lower Upper  
85 100  
87 34.8 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 0.292 ppbv m  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

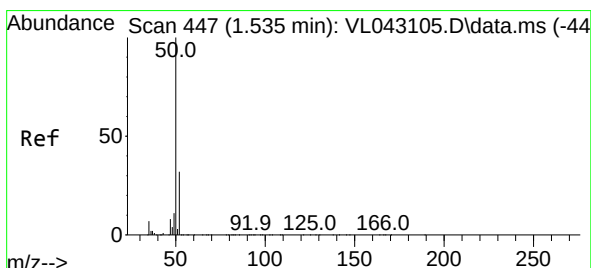
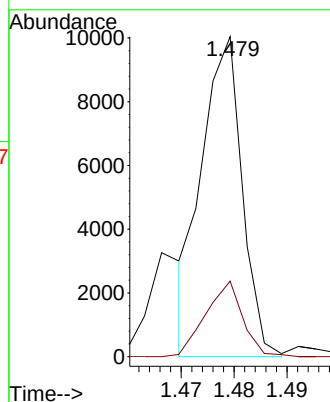
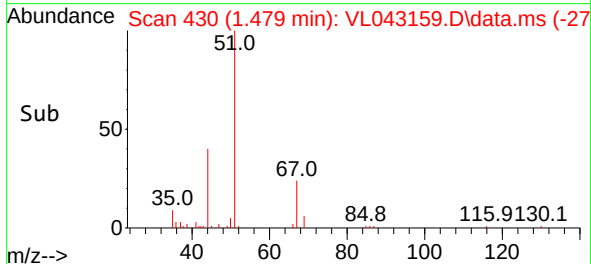
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



Tgt Ion: 51 Resp: 530  
Ion Ratio Lower Upper  
51 100  
67 2.0 15.1 22.7

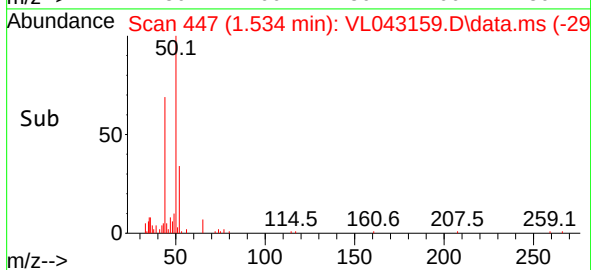
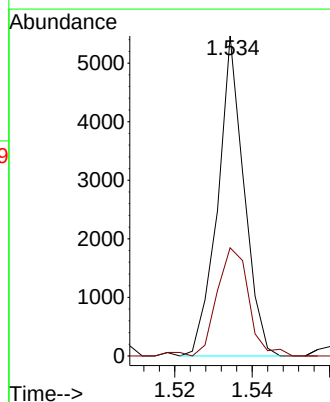
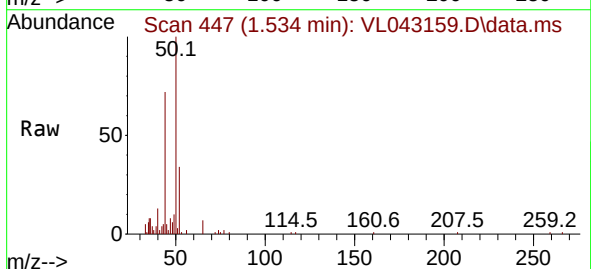
Manual Integrations  
APPROVED

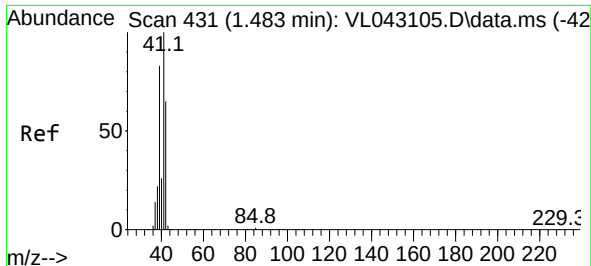
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#4  
Chloromethane  
Concen: 0.388 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 50 Resp: 2577  
Ion Ratio Lower Upper  
50 100  
52 32.7 25.2 37.8





#9

Propene

Concen: 0.490 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

151-IA-2DUP

Tgt Ion: 41 Resp: 394

Ion Ratio Lower Upper

41 100

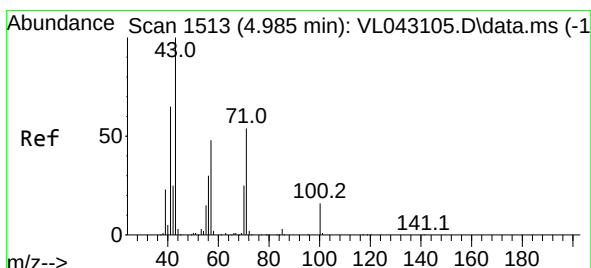
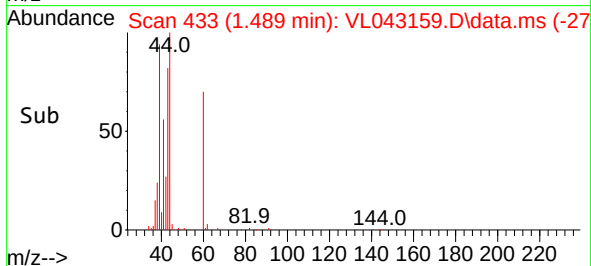
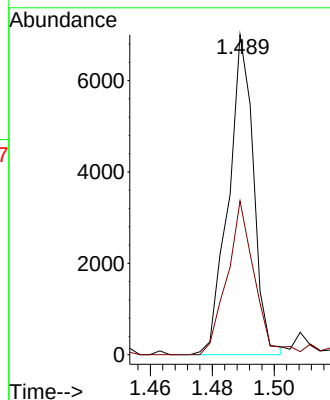
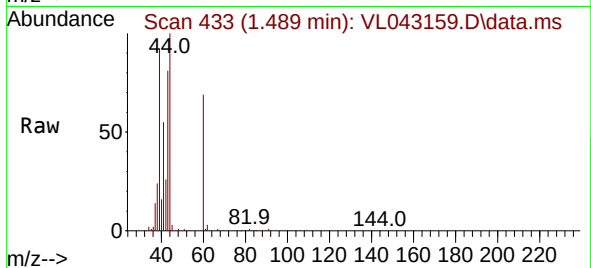
42 56.6 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#10

Heptane

Concen: 0.127 ppbv m

RT: 4.991 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VL043159.D

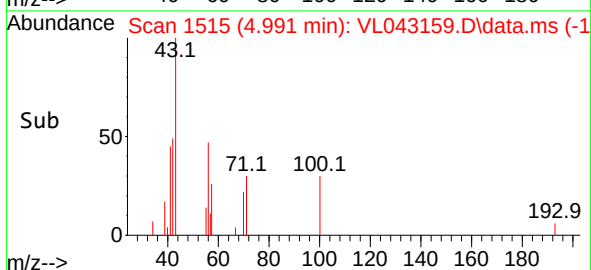
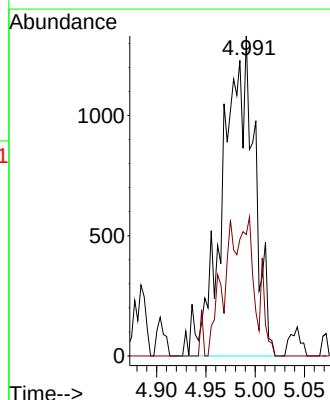
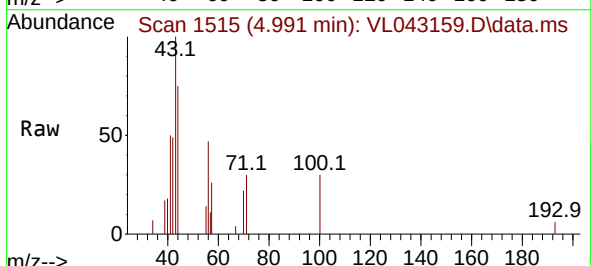
Acq: 06 Nov 2025 10:17

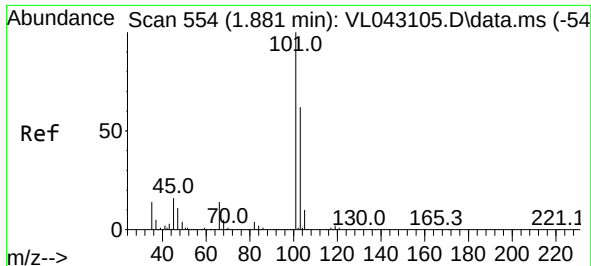
Tgt Ion: 43 Resp: 2953

Ion Ratio Lower Upper

43 100

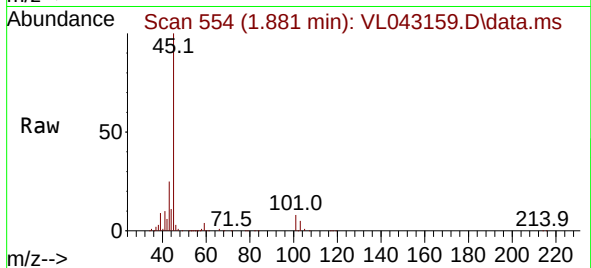
57 0.0 40.8 61.2#





#11  
Trichlorofluoromethane  
Concen: 0.331 ppbv  
RT: 1.881 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

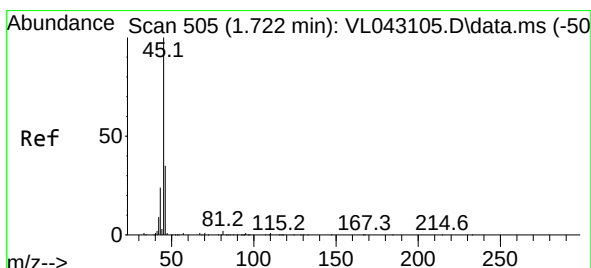
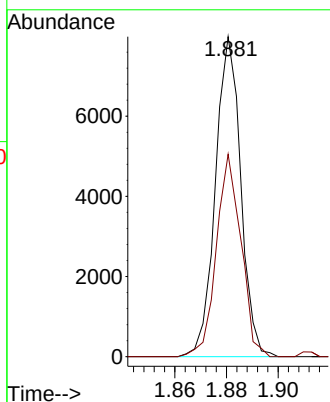
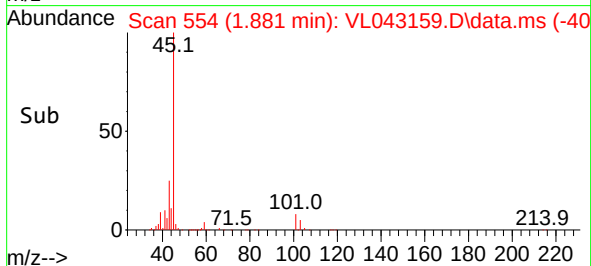
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



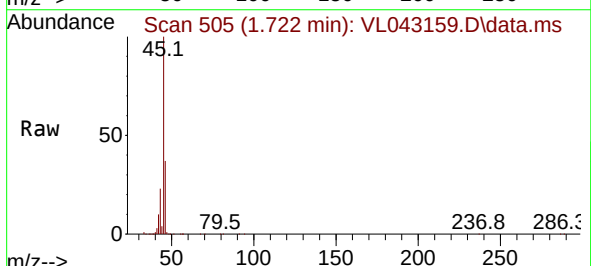
Tgt Ion: 101 Resp: 543  
Ion Ratio Lower Upper  
101 100  
103 63.3 49.3 73.9

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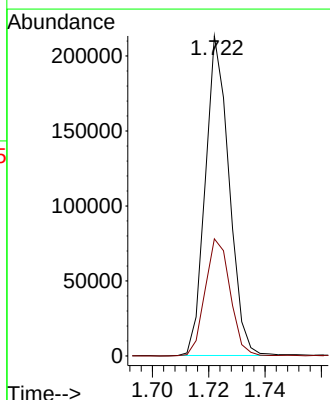
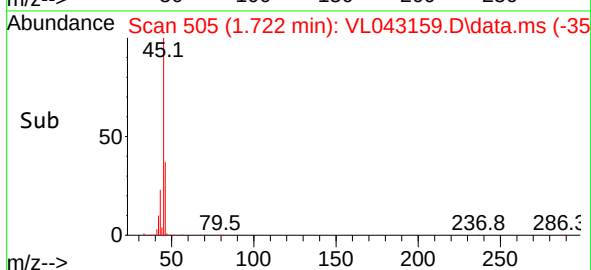
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

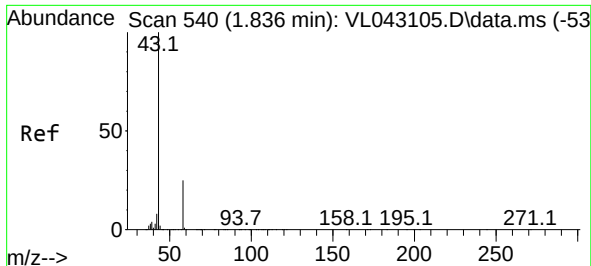


#13  
Ethanol  
Concen: 41.954 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17



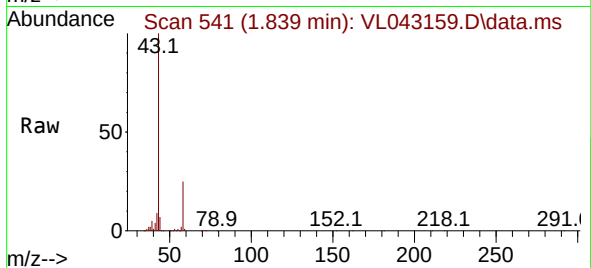
Tgt Ion: 45 Resp: 124950  
Ion Ratio Lower Upper  
45 100  
46 39.0 14.7 58.9





#15  
Acetone  
Concen: 6.132 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

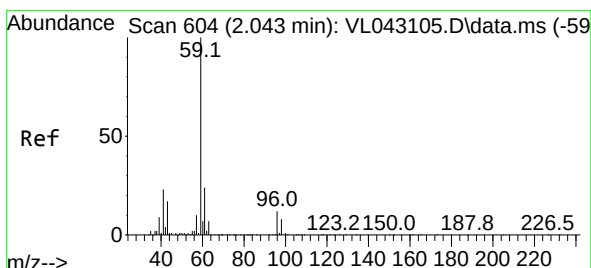
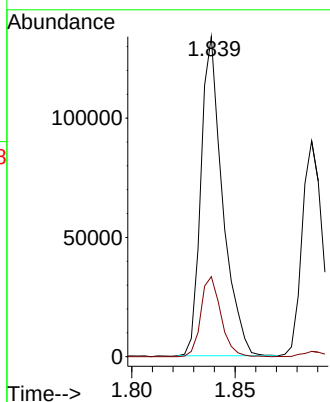
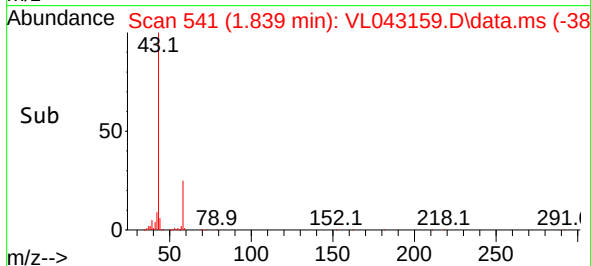
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



Tgt Ion: 43 Resp: 9754  
Ion Ratio Lower Upper  
43 100  
58 23.2 20.8 31.2

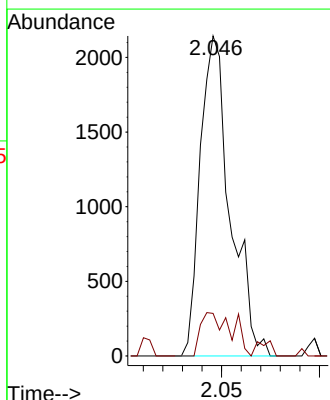
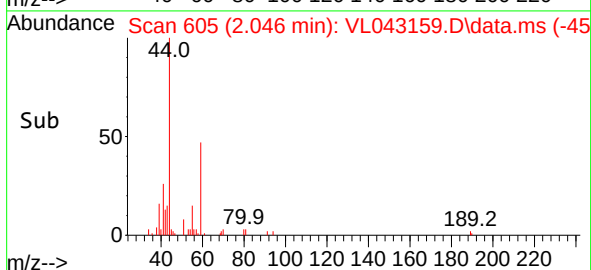
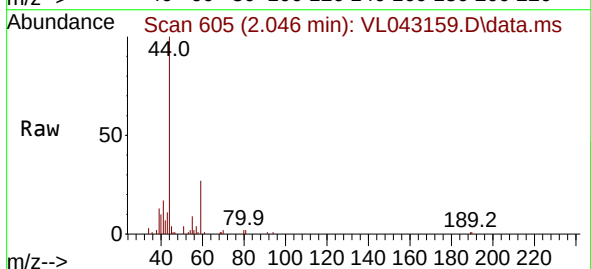
Manual Integrations  
APPROVED

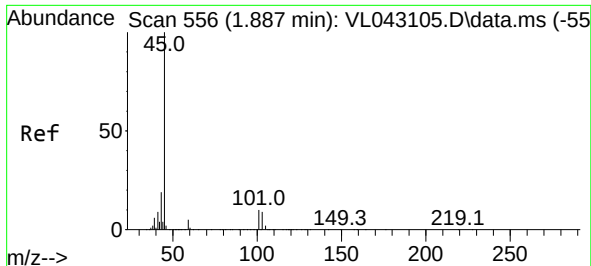
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#17  
tert-Butyl alcohol  
Concen: 0.105 ppbv m  
RT: 2.046 min Scan# 605  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

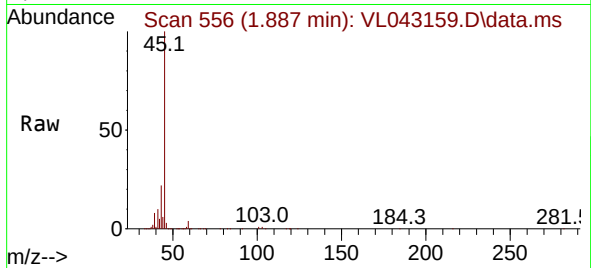
Tgt Ion: 59 Resp: 2284  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#





#19  
Isopropyl Alcohol  
Concen: 28.080 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

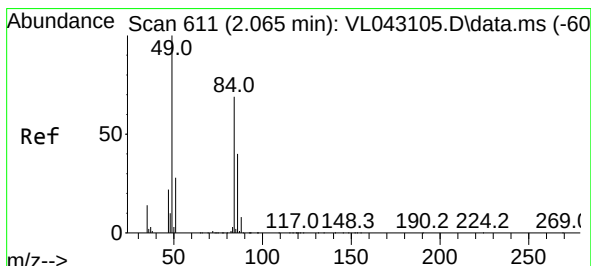
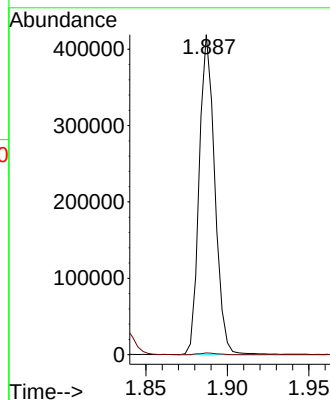
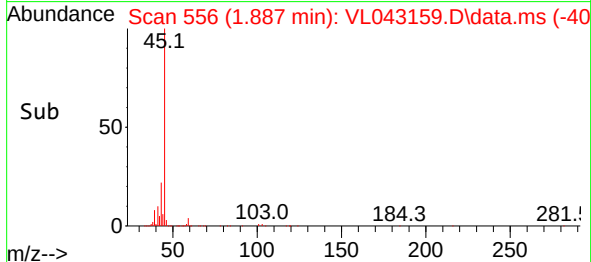
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



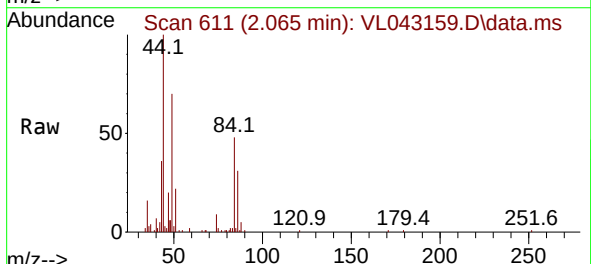
Tgt Ion: 45 Resp: 278208  
Ion Ratio Lower Upper  
45 100  
58 0.6 31.3 46.9

Manual Integrations  
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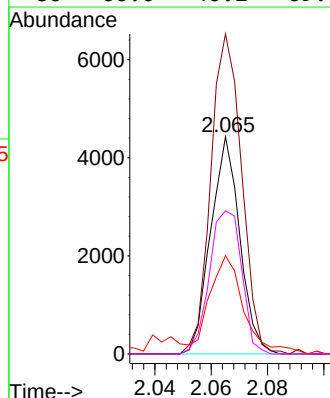
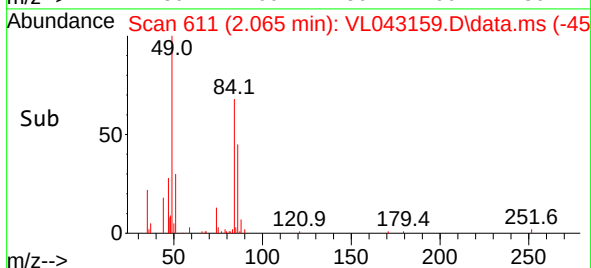
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025

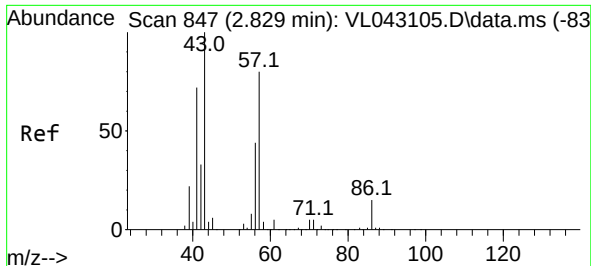


#20  
Methylene Chloride  
Concen: 0.507 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17



Tgt Ion: 84 Resp: 3186  
Ion Ratio Lower Upper  
84 100  
49 147.4 116.6 175.0  
51 41.9 34.8 52.2  
86 66.0 46.2 69.4





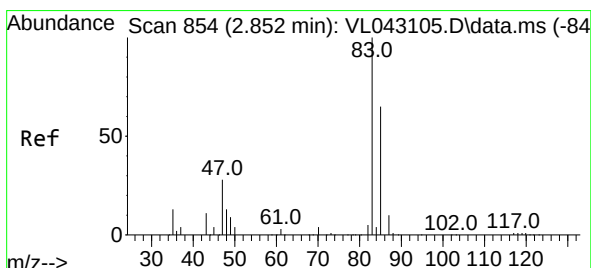
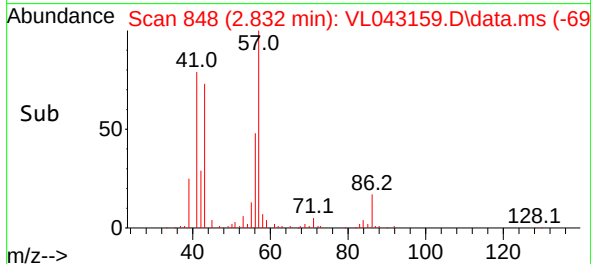
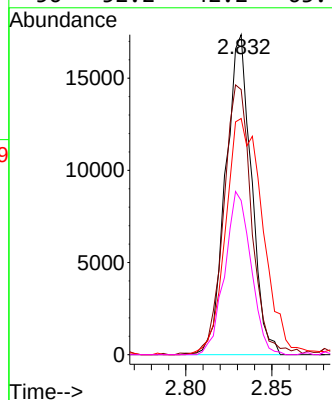
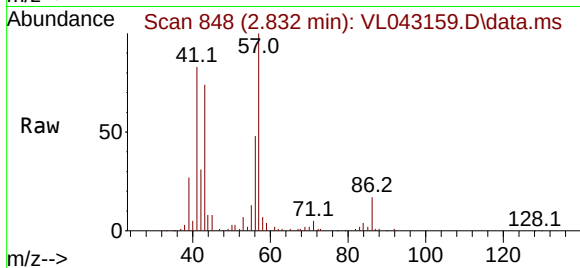
#26  
Hexane  
Concen: 0.992 ppbv  
RT: 2.832 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Instrument :  
MSVOA\_1  
ClientSampleId :  
151-IA-2DUP

Tgt Ion: 57 Resp: 18040  
Ion Ratio Lower Upper  
57 100  
41 92.0 71.4 107.0  
43 108.4 178.5 267.7  
56 52.2 42.2 63.4

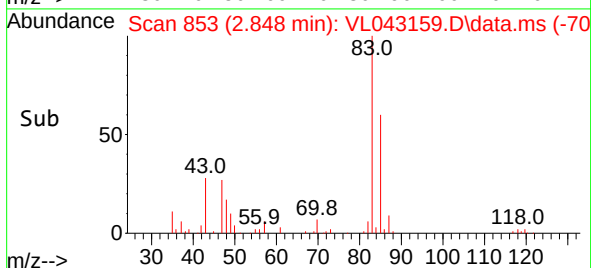
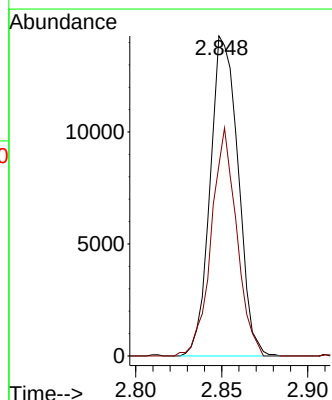
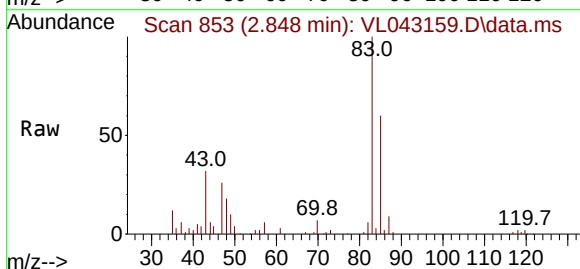
Manual Integrations  
APPROVED

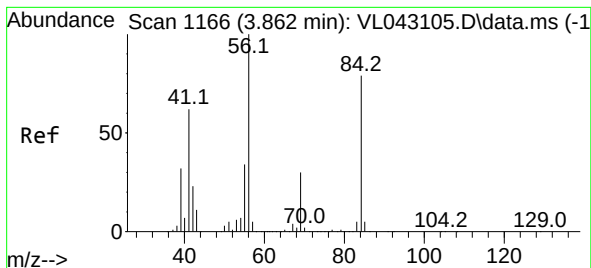
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#29  
Chloroform  
Concen: 0.613 ppbv  
RT: 2.848 min Scan# 853  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

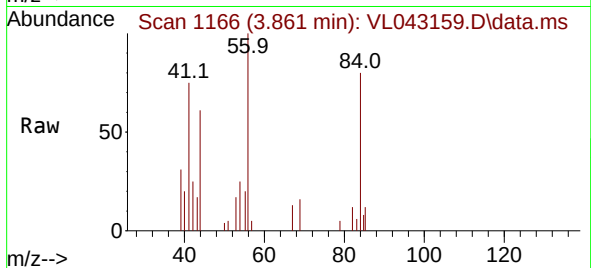
Tgt Ion: 83 Resp: 16144  
Ion Ratio Lower Upper  
83 100  
85 59.6 51.8 77.6





#30  
Cyclohexane  
Concen: 0.092 ppbv m  
RT: 3.861 min Scan# 1166  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

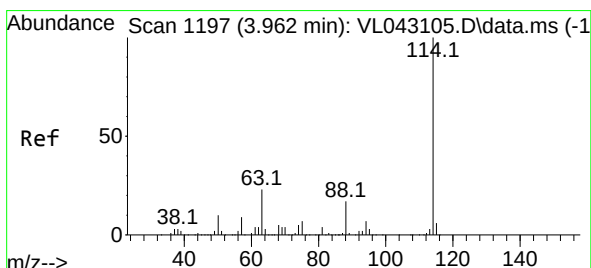
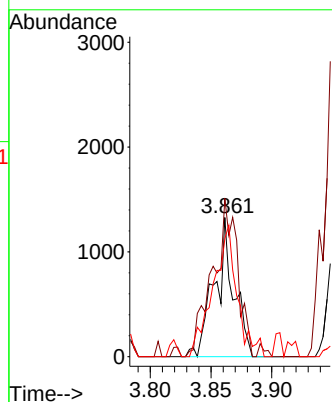
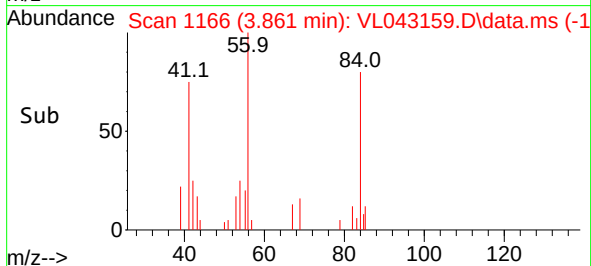
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



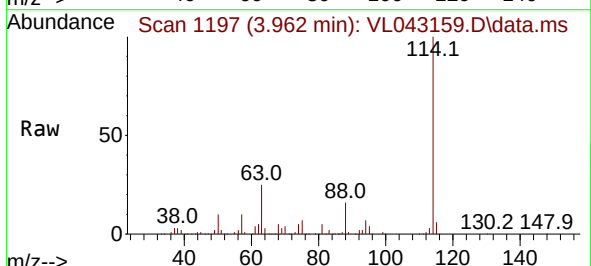
Tgt Ion: 84 Resp: 1460  
Ion Ratio Lower Upper  
84 100  
56 0.0 100.9 151.3  
41 0.0 63.8 95.6

Manual Integrations  
APPROVED

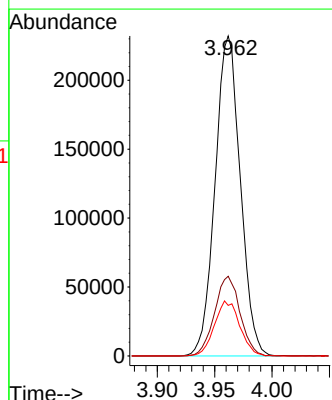
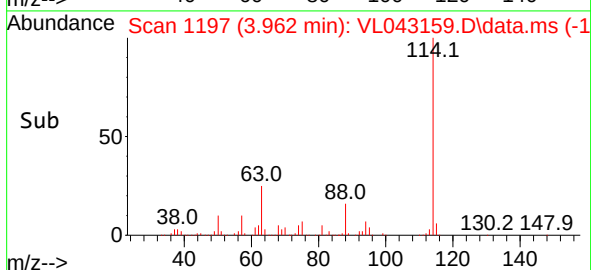
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



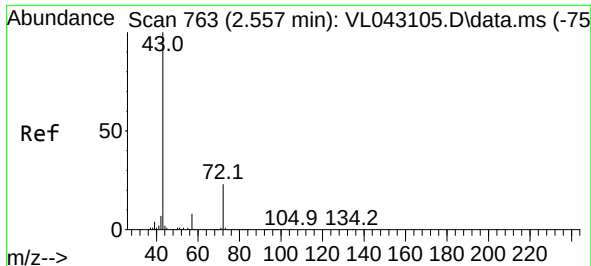
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17



Tgt Ion:114 Resp: 354784  
Ion Ratio Lower Upper  
114 100  
63 25.2 19.3 28.9  
88 17.3 13.9 20.9

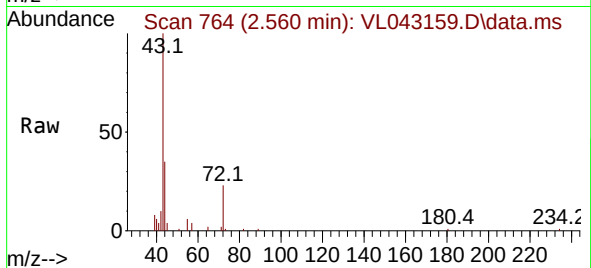






#34  
2-Butanone  
Concen: 0.273 ppbv  
RT: 2.560 min Scan# 763  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

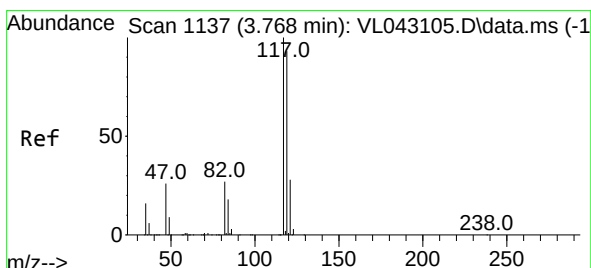
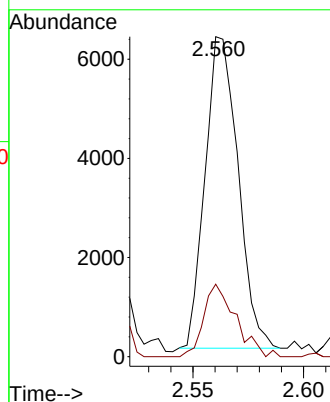
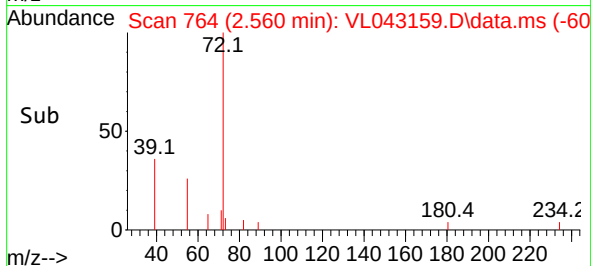
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



Tgt Ion: 43 Resp: 650  
Ion Ratio Lower Upper  
43 100  
72 22.6 18.4 27.6

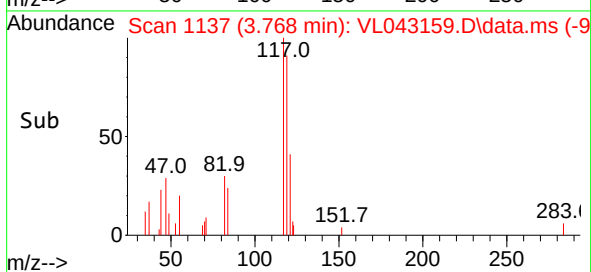
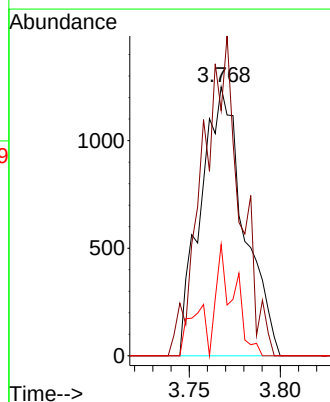
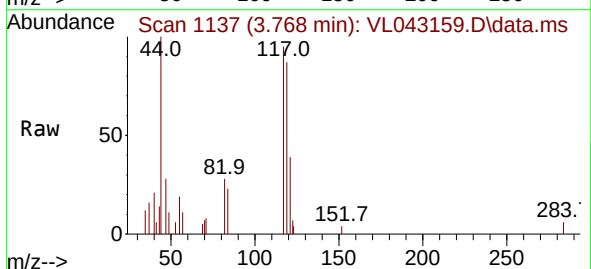
Manual Integrations  
APPROVED

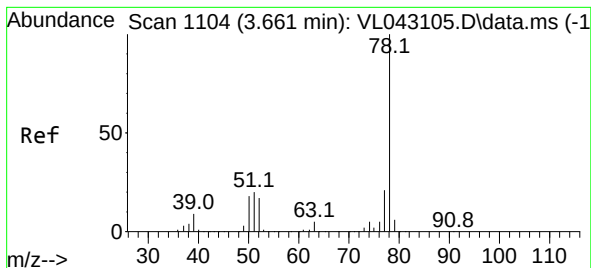
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#35  
Carbon Tetrachloride  
Concen: 0.081 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion:117 Resp: 2069  
Ion Ratio Lower Upper  
117 100  
119 91.2 74.1 111.1  
121 41.4 22.2 33.2#





#36

Benzene

Concen: 0.192 ppbv m

RT: 3.664 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

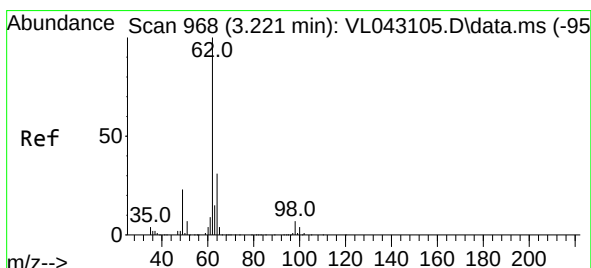
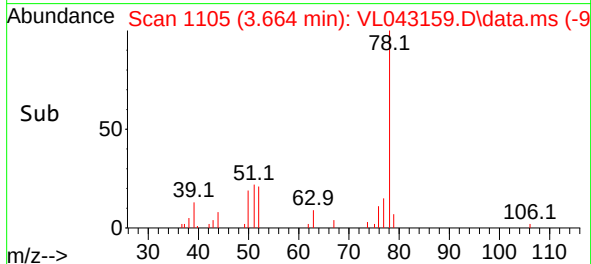
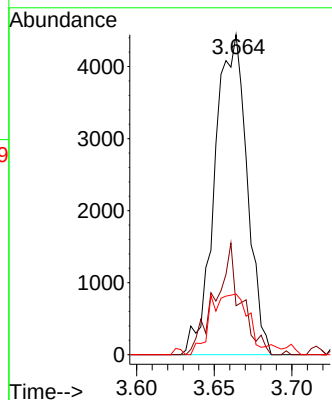
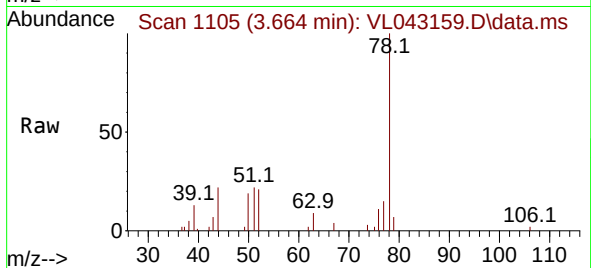
151-IA-2DUP

|             |             |
|-------------|-------------|
| Tgt Ion: 78 | Resp: 642   |
| Ion Ratio   | Lower Upper |
| 78 100      |             |
| 77 15.3     | 17.0 25.6   |
| 50 19.0     | 14.6 22.0   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#37

1,2-Dichloroethane

Concen: 0.217 ppbv

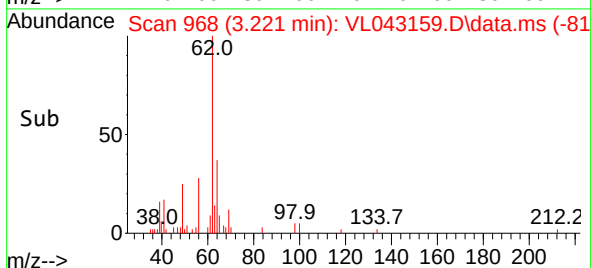
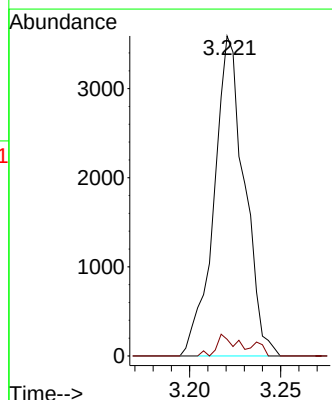
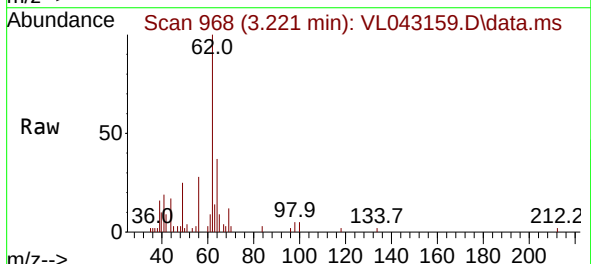
RT: 3.221 min Scan# 968

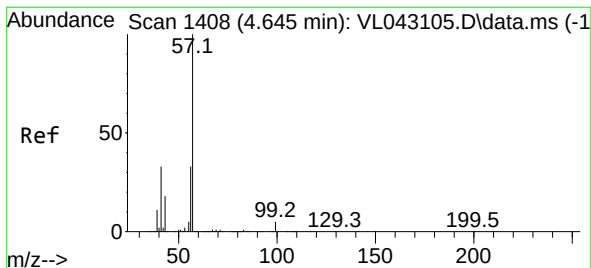
Delta R.T. -0.000 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

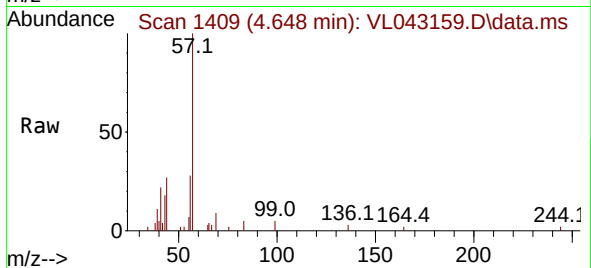
|             |             |
|-------------|-------------|
| Tgt Ion: 62 | Resp: 4176  |
| Ion Ratio   | Lower Upper |
| 62 100      |             |
| 98 6.0      | 5.8 8.6     |





#44  
2,2,4-Trimethylpentane  
Concen: 0.103 ppbv m  
RT: 4.648 min Scan# 1408  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

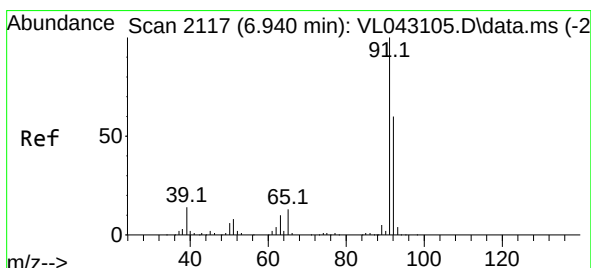
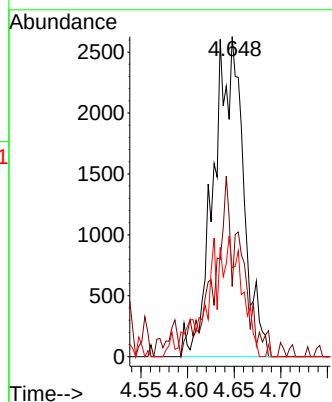
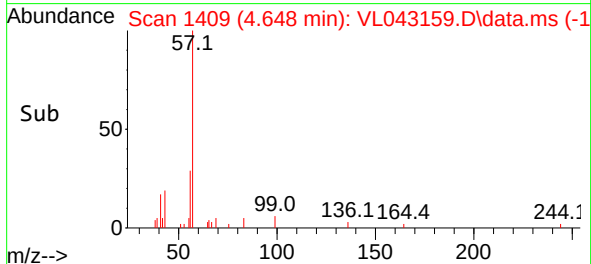
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



Tgt Ion: 57 Resp: 581  
Ion Ratio Lower Upper  
57 100  
41 50.9 26.3 39.5  
56 44.0 25.9 38.9

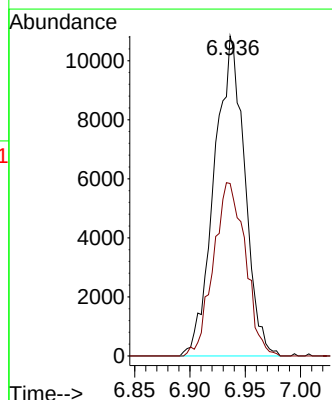
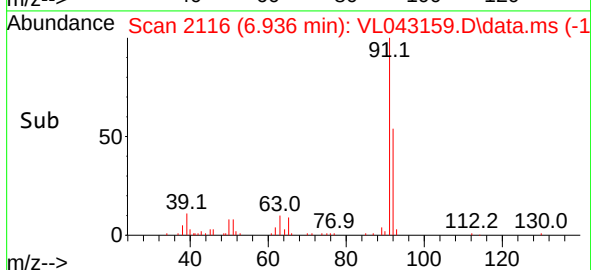
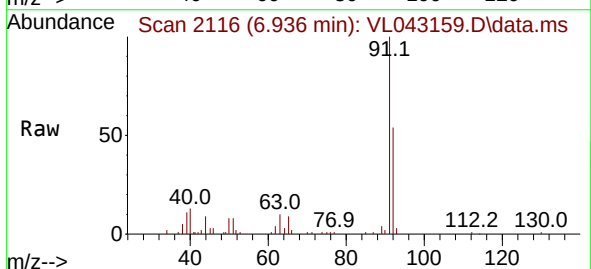
Manual Integrations  
APPROVED

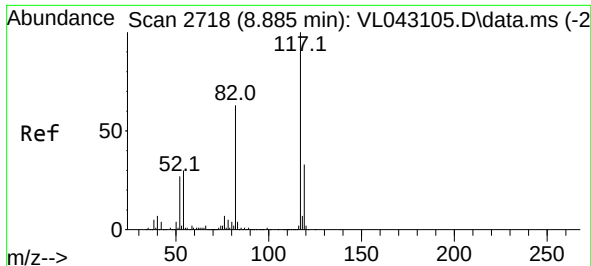
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#53  
Toluene  
Concen: 0.520 ppbv  
RT: 6.936 min Scan# 2116  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

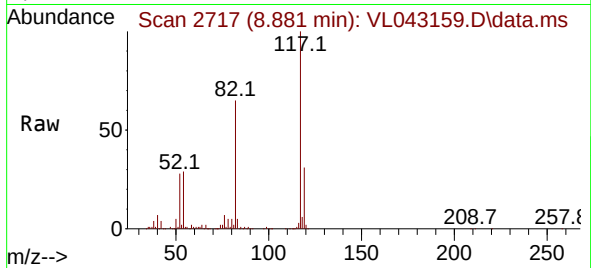
Tgt Ion: 91 Resp: 20621  
Ion Ratio Lower Upper  
91 100  
92 57.0 48.8 73.2





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

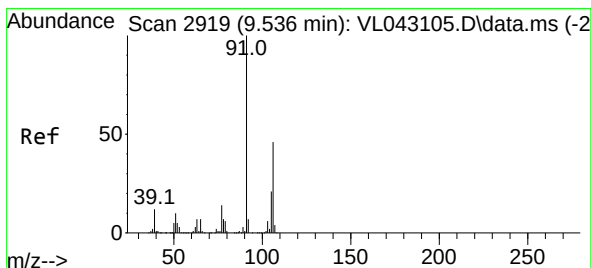
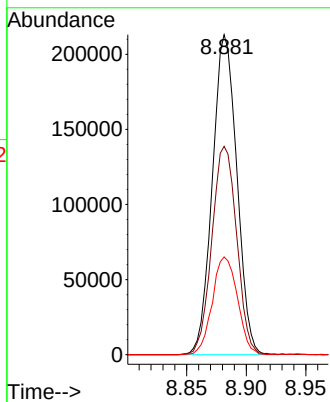
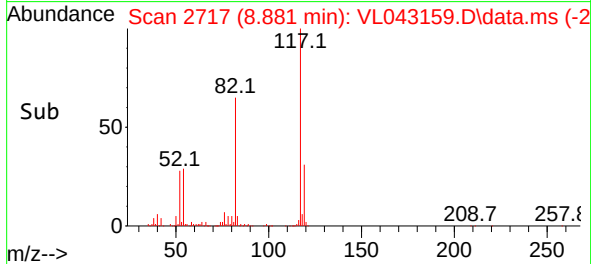
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP



Tgt Ion: 117 Resp: 30394  
Ion Ratio Lower Upper  
117 100  
82 66.1 53.8 80.8  
119 31.6 25.4 38.0

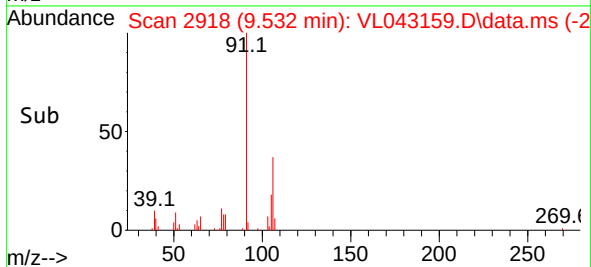
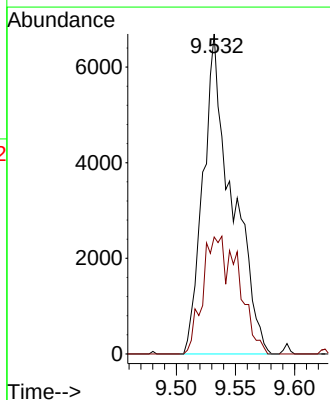
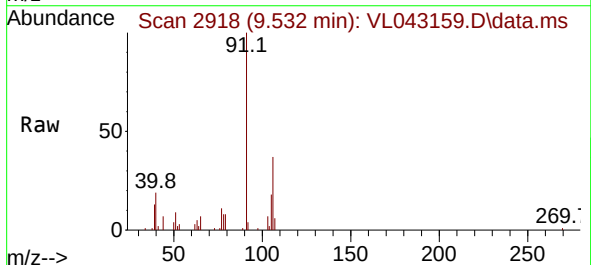
Manual Integrations  
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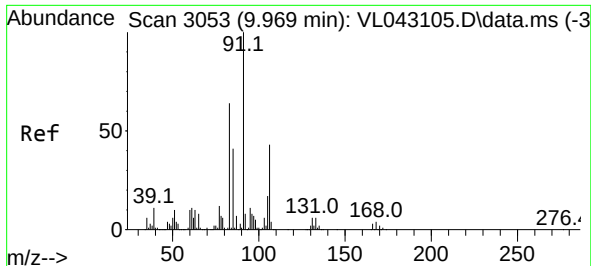
Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#59  
m/p-Xylene  
Concen: 0.273 ppbv m  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 91 Resp: 11376  
Ion Ratio Lower Upper  
91 100  
106 45.6 38.0 57.0





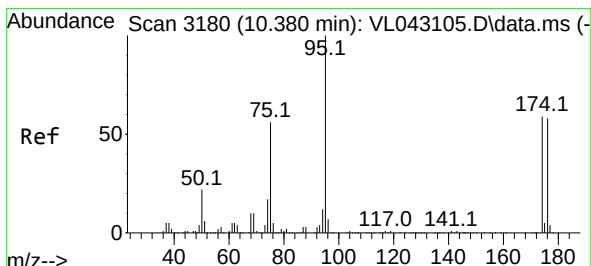
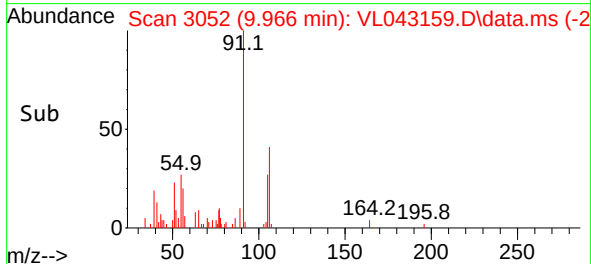
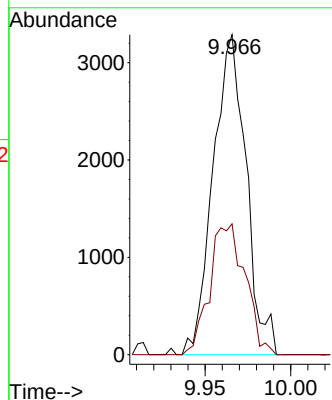
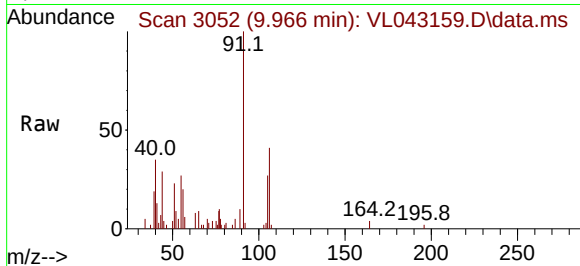
#60  
o-Xylene  
Concen: 0.107 ppbv m  
RT: 9.966 min Scan# 3053  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

Tgt Ion: 91 Resp: 4400  
Ion Ratio Lower Upper  
91 100  
106 44.1 21.9 65.8

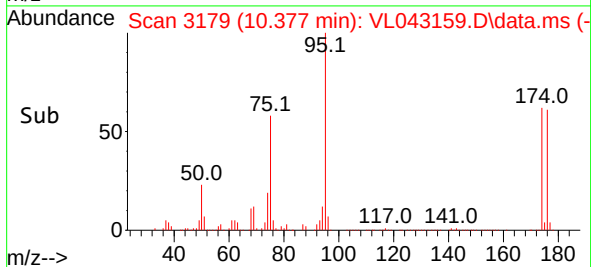
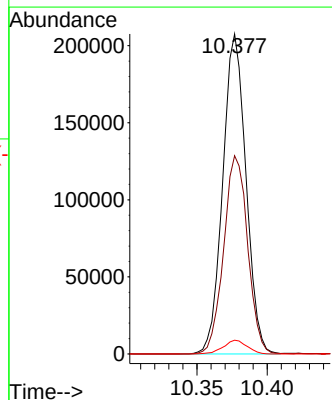
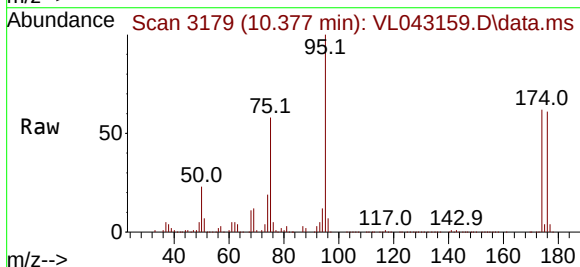
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025  
Supervised By :Mahesh Dadoda 11/10/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.102 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 95 Resp: 238666  
Ion Ratio Lower Upper  
95 100  
174 63.9 48.3 72.5  
175 4.4 3.8 5.8



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL101425 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter               | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|-------------|------------|-------------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| VSTDICCC010 | VL043105.D | m/p-Xylene              | sam       | 10/16/2025<br>4:38:08 AM | MMdadoda      | 10/16/2025<br>4:40:57 AM | Peak Integrated by Software |
| VSTDICCC002 | VL043106.D | 1,4-Dioxane             | sam       | 10/16/2025<br>4:38:12 AM | MMdadoda      | 10/16/2025<br>4:41:02 AM | Peak Integrated by Software |
| VSTDICCC002 | VL043106.D | cis-1,3-Dichloropropene | sam       | 10/16/2025<br>4:38:12 AM | MMdadoda      | 10/16/2025<br>4:41:02 AM | Peak Integrated by Software |
| VSTDICCC002 | VL043106.D | m/p-Xylene              | sam       | 10/16/2025<br>4:38:12 AM | MMdadoda      | 10/16/2025<br>4:41:02 AM | Peak Integrated by Software |
| VSTDICCC001 | VL043107.D | 1,4-Dioxane             | sam       | 10/16/2025<br>4:38:18 AM | MMdadoda      | 10/16/2025<br>4:41:06 AM | Peak Integrated by Software |
| VSTDICCC001 | VL043107.D | 4-Methyl-2-Pentanone    | sam       | 10/16/2025<br>4:38:18 AM | MMdadoda      | 10/16/2025<br>4:41:06 AM | Peak Integrated by Software |
| VSTDICCC001 | VL043107.D | m/p-Xylene              | sam       | 10/16/2025<br>4:38:18 AM | MMdadoda      | 10/16/2025<br>4:41:06 AM | Peak Integrated by Software |
| VSTDICCC001 | VL043107.D | t-1,3-Dichloropropene   | sam       | 10/16/2025<br>4:38:18 AM | MMdadoda      | 10/16/2025<br>4:41:06 AM | Peak Integrated by Software |
| VSTDICCC0.5 | VL043108.D | 1,4-Dioxane             | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICCC0.5 | VL043108.D | 2,2,4-Trimethylpentane  | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICCC0.5 | VL043108.D | 4-Methyl-2-Pentanone    | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICCC0.5 | VL043108.D | cis-1,3-Dichloropropene | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICCC0.5 | VL043108.D | Cyclohexane             | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL101425 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                 | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|-------------|------------|---------------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| VSTDICC0.5  | VL043108.D | Heptane                   | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICC0.5  | VL043108.D | m/p-Xylene                | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICC0.5  | VL043108.D | Methyl Methacrylate       | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICC0.5  | VL043108.D | Tetrahydrofuran           | sam       | 10/16/2025<br>4:38:22 AM | MMdadoda      | 10/16/2025<br>4:41:10 AM | Peak Integrated by Software |
| VSTDICC0.1  | VL043109.D | 1,1,1-Trichloroethane     | sam       | 10/16/2025<br>4:38:26 AM | MMdadoda      | 10/16/2025<br>4:41:15 AM | Peak Integrated by Software |
| VSTDICC0.1  | VL043109.D | Carbon Tetrachloride      | sam       | 10/16/2025<br>4:38:26 AM | MMdadoda      | 10/16/2025<br>4:41:15 AM | Peak Integrated by Software |
| VSTDICC0.1  | VL043109.D | Naphthalene               | sam       | 10/16/2025<br>4:38:26 AM | MMdadoda      | 10/16/2025<br>4:41:15 AM | Peak Integrated by Software |
| VSTDICC0.1  | VL043109.D | Tetrachloroethene         | sam       | 10/16/2025<br>4:38:26 AM | MMdadoda      | 10/16/2025<br>4:41:15 AM | Peak Integrated by Software |
| VSTDICC0.1  | VL043109.D | Trichloroethene           | sam       | 10/16/2025<br>4:38:26 AM | MMdadoda      | 10/16/2025<br>4:41:15 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL043110.D | 1,1,1-Trichloroethane     | sam       | 10/16/2025<br>4:38:31 AM | MMdadoda      | 10/16/2025<br>4:41:20 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL043110.D | 1,1,2,2-Tetrachloroethane | sam       | 10/16/2025<br>4:38:31 AM | MMdadoda      | 10/16/2025<br>4:41:20 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL043110.D | Carbon Tetrachloride      | sam       | 10/16/2025<br>4:38:31 AM | MMdadoda      | 10/16/2025<br>4:41:20 AM | Peak Integrated by Software |
| VSTDICC0.03 | VL043110.D | Tetrachloroethene         | sam       | 10/16/2025<br>4:38:31 AM | MMdadoda      | 10/16/2025<br>4:41:20 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL101425 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter       | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|-------------|------------|-----------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| VSTDICC0.03 | VL043110.D | Trichloroethene | sam       | 10/16/2025<br>4:38:31 AM | MMdadoda      | 10/16/2025<br>4:41:20 AM | Peak Integrated by Software |
| VSTDICC015  | VL043111.D | m/p-Xylene      | sam       | 10/16/2025<br>4:38:35 AM | MMdadoda      | 10/16/2025<br>4:41:24 AM | Peak Integrated by Software |
| VSTDICV010  | VL043112.D | Ethanol         | sam       | 10/16/2025<br>4:38:41 AM | MMdadoda      | 10/16/2025<br>4:41:28 AM | Peak Integrated by Software |
| VSTDICV010  | VL043112.D | m/p-Xylene      | sam       | 10/16/2025<br>4:38:41 AM | MMdadoda      | 10/16/2025<br>4:41:28 AM | Peak Integrated by Software |



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL110625 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-------------|------------|------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDCCC010  | VL043155.D | m/p-Xylene             | sam       | 11/7/2025 1:59:45 PM | MMDadoda      | 11/10/2025 1:00:25 PM | Peak Integrated by Software |
| VL1106ABS01 | VL043157.D | m/p-Xylene             | sam       | 11/7/2025 1:59:50 PM | MMDadoda      | 11/10/2025 1:00:29 PM | Peak Integrated by Software |
| Q3555-02DUP | VL043159.D | 2,2,4-Trimethylpentane | sam       | 11/7/2025 1:59:55 PM | MMDadoda      | 11/10/2025 1:00:36 PM | Peak Integrated by Software |
| Q3555-02DUP | VL043159.D | Benzene                | sam       | 11/7/2025 1:59:55 PM | MMDadoda      | 11/10/2025 1:00:36 PM | Peak Integrated by Software |
| Q3555-02DUP | VL043159.D | Chlorodifluoromethane  | sam       | 11/7/2025 1:59:55 PM | MMDadoda      | 11/10/2025 1:00:36 PM | Peak Integrated by Software |
| Q3555-02DUP | VL043159.D | Heptane                | sam       | 11/7/2025 1:59:55 PM | MMDadoda      | 11/10/2025 1:00:36 PM | Peak Integrated by Software |
| Q3555-02DUP | VL043159.D | m/p-Xylene             | sam       | 11/7/2025 1:59:55 PM | MMDadoda      | 11/10/2025 1:00:36 PM | Peak Integrated by Software |
| Q3555-02DUP | VL043159.D | o-Xylene               | sam       | 11/7/2025 1:59:55 PM | MMDadoda      | 11/10/2025 1:00:36 PM | Peak Integrated by Software |
| Q3556-01    | VL043161.D | Carbon Tetrachloride   | sam       | 11/7/2025 2:00:40 PM | MMDadoda      | 11/10/2025 1:00:44 PM | Peak Integrated by Software |
| Q3556-01    | VL043161.D | Chlorodifluoromethane  | sam       | 11/7/2025 2:00:40 PM | MMDadoda      | 11/10/2025 1:00:44 PM | Peak Integrated by Software |
| Q3556-02    | VL043162.D | Carbon Tetrachloride   | sam       | 11/7/2025 2:01:29 PM | MMDadoda      | 11/10/2025 1:00:51 PM | Peak Integrated by Software |
| Q3556-02    | VL043162.D | Chlorodifluoromethane  | sam       | 11/7/2025 2:01:29 PM | MMDadoda      | 11/10/2025 1:00:51 PM | Peak Integrated by Software |
| Q3556-02    | VL043162.D | m/p-Xylene             | sam       | 11/7/2025 2:01:29 PM | MMDadoda      | 11/10/2025 1:00:51 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL110625 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter             | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-----------|------------|-----------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| Q3556-02  | VL043162.D | Tetrachloroethene     | sam       | 11/7/2025 2:01:29 PM | MMDadoda      | 11/10/2025 1:00:51 PM | Peak Integrated by Software |
| Q3556-02  | VL043162.D | Toluene               | sam       | 11/7/2025 2:01:29 PM | MMDadoda      | 11/10/2025 1:00:51 PM | Peak Integrated by Software |
| Q3556-03  | VL043175.D | Carbon Tetrachloride  | sam       | 11/7/2025 2:00:14 PM | MMDadoda      | 11/10/2025 1:01:38 PM | Peak Integrated by Software |
| Q3556-03  | VL043175.D | Chlorodifluoromethane | sam       | 11/7/2025 2:00:14 PM | MMDadoda      | 11/10/2025 1:01:38 PM | Peak Integrated by Software |
| Q3556-03  | VL043175.D | Propene               | sam       | 11/7/2025 2:00:14 PM | MMDadoda      | 11/10/2025 1:01:38 PM | Peak Integrated by Software |
| Q3556-03  | VL043175.D | Tetrachloroethene     | sam       | 11/7/2025 2:00:14 PM | MMDadoda      | 11/10/2025 1:01:38 PM | Peak Integrated by Software |
| Q3556-04  | VL043176.D | Carbon Tetrachloride  | sam       | 11/7/2025 2:00:58 PM | MMDadoda      | 11/10/2025 1:01:41 PM | Peak Integrated by Software |
| Q3556-04  | VL043176.D | Chlorodifluoromethane | sam       | 11/7/2025 2:00:58 PM | MMDadoda      | 11/10/2025 1:01:41 PM | Peak Integrated by Software |
| Q3556-04  | VL043176.D | Tetrachloroethene     | sam       | 11/7/2025 2:00:58 PM | MMDadoda      | 11/10/2025 1:01:41 PM | Peak Integrated by Software |
| Q3556-04  | VL043176.D | Toluene               | sam       | 11/7/2025 2:00:58 PM | MMDadoda      | 11/10/2025 1:01:41 PM | Peak Integrated by Software |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL101425**

| Review By                | Semsettin Yesilyurt  | Review On         | 10/14/2025 2:02:14 PM |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda        | Supervise On      | 10/16/2025 4:41:37 AM |                      |               |
| SubDirectory             | VL101425             | HP Acquire Method | TO15AIR               | HP Processing Method | VL101425AIR.M |
| STD. NAME                | STD REF.#            |                   |                       |                      |               |
| Tune/Reschk              | AP2684               |                   |                       |                      |               |
| Initial Calibration Stds | AP2687,AP2688,AP2689 |                   |                       |                      |               |
| CCC                      | AP2687               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2684               |                   |                       |                      |               |
| ICV/I.BLK                | AP2690               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

| Sr# | Sampled     | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | BFB         | VL043103.D     | 14 Oct 2025 08:42 | SY/MD    | Ok     |
| 2   | VSTDIC0.5   | VL043104.D     | 14 Oct 2025 09:57 | SY/MD    | Not Ok |
| 3   | VSTDICCC010 | VL043105.D     | 14 Oct 2025 10:31 | SY/MD    | Ok,M   |
| 4   | VSTDIC002   | VL043106.D     | 14 Oct 2025 11:27 | SY/MD    | Ok,M   |
| 5   | VSTDIC001   | VL043107.D     | 14 Oct 2025 12:01 | SY/MD    | Ok,M   |
| 6   | VSTDIC0.5   | VL043108.D     | 14 Oct 2025 12:34 | SY/MD    | Ok,M   |
| 7   | VSTDIC0.1   | VL043109.D     | 14 Oct 2025 13:08 | SY/MD    | Ok,M   |
| 8   | VSTDIC0.03  | VL043110.D     | 14 Oct 2025 13:42 | SY/MD    | Ok,M   |
| 9   | VSTDIC015   | VL043111.D     | 14 Oct 2025 14:18 | SY/MD    | Ok,M   |
| 10  | VSTDICV010  | VL043112.D     | 14 Oct 2025 14:51 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110625**

|                          |                      |                      |                        |
|--------------------------|----------------------|----------------------|------------------------|
| Review By                | Semsettin Yesilyurt  | Review On            | 11/10/2025 11:08:23 AM |
| Supervise By             | Maresh Dadoda        | Supervise On         | 11/10/2025 1:02:12 PM  |
| SubDirectory             | VL110625             | HP Acquire Method    | TO15AIR                |
|                          |                      | HP Processing Method | VL101425AIR.M          |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                        |
| Tune/Reschk              | AP2684               |                      |                        |
| Initial Calibration Stds | AP2687,AP2688,AP2689 |                      |                        |
| CCC                      | AP2687               |                      |                        |
| Internal Standard/PEM    | AP2684               |                      |                        |
| ICV/I.BLK                | AP2690               |                      |                        |
| Surrogate Standard       |                      |                      |                        |
| MS/MSD Standard          |                      |                      |                        |
| LCS Standard             |                      |                      |                        |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | BFB         | VL043154.D     | 06 Nov 2025 06:24 | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VL043155.D     | 06 Nov 2025 07:19 | SY/MD    | Ok,M     |
| 3   | VL1106ABL01 | VL043156.D     | 06 Nov 2025 08:02 | SY/MD    | Ok       |
| 4   | VL1106ABS01 | VL043157.D     | 06 Nov 2025 08:45 | SY/MD    | Ok,M     |
| 5   | Q3555-02    | VL043158.D     | 06 Nov 2025 09:42 | SY/MD    | Ok,M     |
| 6   | Q3555-02DUP | VL043159.D     | 06 Nov 2025 10:17 | SY/MD    | Ok,M     |
| 7   | Q3555-01    | VL043160.D     | 06 Nov 2025 10:51 | SY/MD    | Ok,M     |
| 8   | Q3556-01    | VL043161.D     | 06 Nov 2025 11:36 | SY/MD    | Ok,M     |
| 9   | Q3556-02    | VL043162.D     | 06 Nov 2025 12:10 | SY/MD    | Ok,M     |
| 10  | Q3557-01    | VL043163.D     | 06 Nov 2025 12:44 | SY/MD    | Ok,M     |
| 11  | Q3557-02    | VL043164.D     | 06 Nov 2025 13:17 | SY/MD    | Dilution |
| 12  | Q3557-03    | VL043165.D     | 06 Nov 2025 13:50 | SY/MD    | Dilution |
| 13  | Q3555-04DL  | VL043166.D     | 06 Nov 2025 14:22 | SY/MD    | Ok       |
| 14  | Q3555-03DL  | VL043167.D     | 06 Nov 2025 14:54 | SY/MD    | Ok,M     |
| 15  | Q3556-03DL  | VL043168.D     | 06 Nov 2025 15:27 | SY/MD    | Not Ok   |
| 16  | Q3556-04DL  | VL043169.D     | 06 Nov 2025 15:59 | SY/MD    | Not Ok   |
| 17  | Q3557-04DL  | VL043170.D     | 06 Nov 2025 16:31 | SY/MD    | Not Ok   |
| 18  | Q3557-05DL  | VL043171.D     | 06 Nov 2025 17:03 | SY/MD    | Ok       |
| 19  | Q3557-02DL  | VL043172.D     | 06 Nov 2025 17:35 | SY/MD    | Ok,M     |
| 20  | Q3555-04    | VL043173.D     | 06 Nov 2025 18:23 | SY/MD    | Dilution |
| 21  | Q3555-03    | VL043174.D     | 06 Nov 2025 18:57 | SY/MD    | Dilution |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110625**

| Review By                | Semsettin Yesilyurt | Review On            | 11/10/2025 11:08:23 AM |                      |               |
|--------------------------|---------------------|----------------------|------------------------|----------------------|---------------|
| Supervise By             | Maresh Dadoda       | Supervise On         | 11/10/2025 1:02:12 PM  |                      |               |
| SubDirectory             | VL110625            | HP Acquire Method    | TO15AIR                | HP Processing Method | VL101425AIR.M |
| STD. NAME                |                     | STD REF.#            |                        |                      |               |
| Tune/Reschk              |                     | AP2684               |                        |                      |               |
| Initial Calibration Stds |                     | AP2687,AP2688,AP2689 |                        |                      |               |
| CCC                      |                     | AP2687               |                        |                      |               |
| Internal Standard/PEM    |                     | AP2684               |                        |                      |               |
| ICV/I.BLK                |                     | AP2690               |                        |                      |               |
| Surrogate Standard       |                     |                      |                        |                      |               |
| MS/MSD Standard          |                     |                      |                        |                      |               |
| LCS Standard             |                     |                      |                        |                      |               |

|    |          |            |                   |       |          |
|----|----------|------------|-------------------|-------|----------|
| 22 | Q3556-03 | VL043175.D | 06 Nov 2025 19:30 | SY/MD | Ok,M     |
| 23 | Q3556-04 | VL043176.D | 06 Nov 2025 20:03 | SY/MD | Ok,M     |
| 24 | Q3557-04 | VL043177.D | 06 Nov 2025 20:35 | SY/MD | Ok,M     |
| 25 | Q3557-05 | VL043178.D | 06 Nov 2025 21:08 | SY/MD | Dilution |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL101425**

|              |                     |                   |                       |                      |               |
|--------------|---------------------|-------------------|-----------------------|----------------------|---------------|
| Review By    | Semsettin Yesilyurt | Review On         | 10/14/2025 2:02:14 PM |                      |               |
| Supervise By | Mahesh Dadoda       | Supervise On      | 10/16/2025 4:41:37 AM |                      |               |
| SubDirectory | VL101425            | HP Acquire Method | TO15AIR               | HP Processing Method | VL101425AIR.M |

| STD. NAME                | STD REF.#            |
|--------------------------|----------------------|
| Tune/Reschk              | AP2684               |
| Initial Calibration Stds | AP2687,AP2688,AP2689 |
| CCC                      | AP2687               |
| Internal Standard/PEM    | AP2684               |
| ICV/I.BLK                | AP2690               |
| Surrogate Standard       |                      |
| MS/MSD Standard          |                      |
| LCS Standard             |                      |

| Sr# | Sampleld    | ClientID    | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|---------|----------|--------|
| 1   | BFB         | BFB         | VL043103.D     | 14 Oct 2025 08:42 |         | SY/MD    | Ok     |
| 2   | VSTDICC0.5  | VSTDICC0.5  | VL043104.D     | 14 Oct 2025 09:57 | not use | SY/MD    | Not Ok |
| 3   | VSTDICCC010 | VSTDICCC010 | VL043105.D     | 14 Oct 2025 10:31 |         | SY/MD    | Ok,M   |
| 4   | VSTDICC002  | VSTDICC002  | VL043106.D     | 14 Oct 2025 11:27 |         | SY/MD    | Ok,M   |
| 5   | VSTDICC001  | VSTDICC001  | VL043107.D     | 14 Oct 2025 12:01 |         | SY/MD    | Ok,M   |
| 6   | VSTDICC0.5  | VSTDICC0.5  | VL043108.D     | 14 Oct 2025 12:34 |         | SY/MD    | Ok,M   |
| 7   | VSTDICC0.1  | VSTDICC0.1  | VL043109.D     | 14 Oct 2025 13:08 |         | SY/MD    | Ok,M   |
| 8   | VSTDICC0.03 | VSTDICC0.03 | VL043110.D     | 14 Oct 2025 13:42 |         | SY/MD    | Ok,M   |
| 9   | VSTDICC015  | VSTDICC015  | VL043111.D     | 14 Oct 2025 14:18 |         | SY/MD    | Ok,M   |
| 10  | VSTDICV010  | ICVVL101425 | VL043112.D     | 14 Oct 2025 14:51 |         | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110625**

|              |                     |                   |                        |                      |               |
|--------------|---------------------|-------------------|------------------------|----------------------|---------------|
| Review By    | Semsettin Yesilyurt | Review On         | 11/10/2025 11:08:23 AM |                      |               |
| Supervise By | Mahesh Dadoda       | Supervise On      | 11/10/2025 1:02:12 PM  |                      |               |
| SubDirectory | VL110625            | HP Acquire Method | TO15AIR                | HP Processing Method | VL101425AIR.M |

| STD. NAME                | STD REF.#            |
|--------------------------|----------------------|
| Tune/Reschk              | AP2684               |
| Initial Calibration Stds | AP2687,AP2688,AP2689 |
| CCC                      | AP2687               |
| Internal Standard/PEM    | AP2684               |
| ICV/I.BLK                | AP2690               |
| Surrogate Standard       |                      |
| MS/MSD Standard          |                      |
| LCS Standard             |                      |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time         | Comment              | Operator | Status   |
|-----|-------------|-------------|----------------|-------------------|----------------------|----------|----------|
| 1   | BFB         | BFB         | VL043154.D     | 06 Nov 2025 06:24 |                      | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VSTDCCC010  | VL043155.D     | 06 Nov 2025 07:19 |                      | SY/MD    | Ok,M     |
| 3   | VL1106ABL01 | VL1106ABL01 | VL043156.D     | 06 Nov 2025 08:02 |                      | SY/MD    | Ok       |
| 4   | VL1106ABS01 | VL1106ABS01 | VL043157.D     | 06 Nov 2025 08:45 |                      | SY/MD    | Ok,M     |
| 5   | Q3555-02    | 151-IA-2    | VL043158.D     | 06 Nov 2025 09:42 |                      | SY/MD    | Ok,M     |
| 6   | Q3555-02DUP | 151-IA-2DUP | VL043159.D     | 06 Nov 2025 10:17 |                      | SY/MD    | Ok,M     |
| 7   | Q3555-01    | 151-IA-1    | VL043160.D     | 06 Nov 2025 10:51 |                      | SY/MD    | Ok,M     |
| 8   | Q3556-01    | 131-IA1     | VL043161.D     | 06 Nov 2025 11:36 |                      | SY/MD    | Ok,M     |
| 9   | Q3556-02    | 131-IA2     | VL043162.D     | 06 Nov 2025 12:10 |                      | SY/MD    | Ok,M     |
| 10  | Q3557-01    | 141-AA-1    | VL043163.D     | 06 Nov 2025 12:44 |                      | SY/MD    | Ok,M     |
| 11  | Q3557-02    | 141-IA-1    | VL043164.D     | 06 Nov 2025 13:17 | Need 4X              | SY/MD    | Dilution |
| 12  | Q3557-03    | 141-IA2     | VL043165.D     | 06 Nov 2025 13:50 | Need 4X              | SY/MD    | Dilution |
| 13  | Q3555-04DL  | 151-SG-2DL  | VL043166.D     | 06 Nov 2025 14:22 | 4                    | SY/MD    | Ok       |
| 14  | Q3555-03DL  | 151-SG-1DL  | VL043167.D     | 06 Nov 2025 14:54 | 3                    | SY/MD    | Ok,M     |
| 15  | Q3556-03DL  | 131-SG-1DL  | VL043168.D     | 06 Nov 2025 15:27 | Run @ Lower Dilution | SY/MD    | Not Ok   |
| 16  | Q3556-04DL  | 131-SG-2DL  | VL043169.D     | 06 Nov 2025 15:59 | Run @ Lower Dilution | SY/MD    | Not Ok   |
| 17  | Q3557-04DL  | 141-SG-1DL  | VL043170.D     | 06 Nov 2025 16:31 | Run @ Lower Dilution | SY/MD    | Not Ok   |
| 18  | Q3557-05DL  | 141-SG-2DL  | VL043171.D     | 06 Nov 2025 17:03 |                      | SY/MD    | Ok       |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL110625**

| Review By                | Semsettin Yesilyurt  | Review On         | 11/10/2025 11:08:23 AM |                      |               |
|--------------------------|----------------------|-------------------|------------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda        | Supervise On      | 11/10/2025 1:02:12 PM  |                      |               |
| SubDirectory             | VL110625             | HP Acquire Method | TO15AIR                | HP Processing Method | VL101425AIR.M |
| STD. NAME                | STD REF.#            |                   |                        |                      |               |
| Tune/Reschk              | AP2684               |                   |                        |                      |               |
| Initial Calibration Stds | AP2687,AP2688,AP2689 |                   |                        |                      |               |
| CCC                      | AP2687               |                   |                        |                      |               |
| Internal Standard/PEM    | AP2684               |                   |                        |                      |               |
| ICV/I.BLK                | AP2690               |                   |                        |                      |               |
| Surrogate Standard       |                      |                   |                        |                      |               |
| MS/MSD Standard          |                      |                   |                        |                      |               |
| LCS Standard             |                      |                   |                        |                      |               |

|    |            |            |            |                   |          |       |          |
|----|------------|------------|------------|-------------------|----------|-------|----------|
| 19 | Q3557-02DL | 141-IA-1DL | VL043172.D | 06 Nov 2025 17:35 |          | SY/MD | Ok,M     |
| 20 | Q3555-04   | 151-SG-2   | VL043173.D | 06 Nov 2025 18:23 | Need 10X | SY/MD | Dilution |
| 21 | Q3555-03   | 151-SG-1   | VL043174.D | 06 Nov 2025 18:57 | Need 10X | SY/MD | Dilution |
| 22 | Q3556-03   | 131-SG-1   | VL043175.D | 06 Nov 2025 19:30 |          | SY/MD | Ok,M     |
| 23 | Q3556-04   | 131-SG-2   | VL043176.D | 06 Nov 2025 20:03 |          | SY/MD | Ok,M     |
| 24 | Q3557-04   | 141-SG-1   | VL043177.D | 06 Nov 2025 20:35 |          | SY/MD | Ok,M     |
| 25 | Q3557-05   | 141-SG-2   | VL043178.D | 06 Nov 2025 21:08 | Need 10X | SY/MD | Dilution |

M : Manual Integration



## Prep Standard - Chemical Standard Summary

**Order ID :** Q3556

**Test :** TO-15

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VL110625,

**Standard ID :**

AP2684,AP2687,AP2688,AP2689,AP2690,

**Chemical ID :**

A1117,A1138,A1142,A1143,

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## Air 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> |
|------------------|-----------------------------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 47               | Internal Standard/Surrogate Mix-80 ppbv | <a href="#">AP2684</a> | 10/14/2025       | 11/14/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 11/03/2025       |                                         |                        |                  |                        |                     |                |                  |                      |

**FROM** 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

| <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> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2396             | TO-15 15 PPBV CAL MIX | <a href="#">AP2687</a> | 10/14/2025       | 11/14/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 11/03/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1142 = Final Quantity: 30.000 psi

## Air 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> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2397             | TO-15 -2 PPBV CAL.MIX | <a href="#">AP2688</a> | 10/14/2025       | 11/14/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 11/03/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 26.00000psi of A1117 + 4.00000psi of AP2687 = Final Quantity: 30.000 psi

| <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> |
|------------------|------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2668             | 0.5 PPBV CAL.MIX | <a href="#">AP2689</a> | 10/14/2025       | 11/14/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 11/03/2025       |                  |                        |                  |                        |                     |                |                  |                      |

**FROM** 29.00000psi of A1117 + 1.00000psi of AP2687 = Final Quantity: 30.000 psi

## Air 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> |
|------------------------------------------------------------------------------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2396                                                                                     | TO-15 15 PPBV CAL MIX | <a href="#">AP2690</a> | 10/14/2025       | 11/14/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| <b>FROM</b> 1455.00000SCCM of A1117 + 45.00000SCCM of A1143 = Final Quantity: 30.000 psi |                       |                        |                  |                        |                     |                |                  |                      |

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## CHEMICAL RECEIPT LOG BOOK

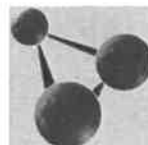
| Supplier    | ItemCode / ItemName       | Lot #          | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------|---------------------------|----------------|-----------------|-------------------------|-----------------------------|----------------|
| AIR LIQUIDE | 365A-49 / AIR, Compressed | 90402401186-01 | 04/01/2026      | 04/01/2022 / apatel     | 04/01/2022 / SAM            | A1117          |

| Supplier            | ItemCode / ItemName                                       | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------|-----------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| CUSTOMGAS Solutions | TB500009-110 / TO-15 Internal Standard/Surrogate Standard | BC275465 | 12/16/2025      | 07/15/2025 / SAM        | 07/14/2025 / SAM            | A1138          |

| Supplier            | ItemCode / ItemName                                                                       | Lot #       | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------|-------------------------------------------------------------------------------------------|-------------|-----------------|-------------------------|-----------------------------|----------------|
| CUSTOMGAS Solutions | TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene) | 051925-001A | 10/01/2026      | 10/13/2025 / sam        | 10/13/2025 / sam            | A1142          |

| Supplier            | ItemCode / ItemName                                                                       | Lot #       | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------|-------------------------------------------------------------------------------------------|-------------|-----------------|-------------------------|-----------------------------|----------------|
| CUSTOMGAS Solutions | TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene) | 051925-001B | 10/01/2026      | 10/13/2025 / sam        | 10/13/2025 / sam            | A1143          |

# CUSTOMGAS SOLUTIONS



1750 East Club Boulevard  
Durham, NC 27704  
Phone: (919) 220-2570  
Fax: (919) 220-4540

rec: 07/14/25  
A 1138

## Certificate of Analysis

### Customer:

Chem Tech  
284 Sheffield Street  
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465  
Cylinder Size/CGA: 170/180SS  
Fill Pressure: 1815 PSIA  
Gas Volume: ~170 liters  
Date of Mfg: 07/16/2024  
Expiration Date: 012/16/2025

Ship To : Chem Tech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.    | Customer PO | Mixture Type |
|-----------------|----------|------------|-------------|--------------|
| 00107092NJ      | Best Way | 040424-003 | 240404-10   | Gravimetric  |

| Component            | Nominal Concentration | Actual Concentration*  | Mixture Type           |
|----------------------|-----------------------|------------------------|------------------------|
| Bromochloromethane   | 1 ppm                 | 1.014 ppm +/- 0.02 ppm | Gravimetric Master Gas |
| 4-Bromofluorobenzene | 1 ppm                 | 1.008 ppm +/- 0.02 ppm |                        |
| Chlorobenzene-D5     | 1 ppm                 | 0.993 ppm +/- 0.02 ppm |                        |
| 1,4-Difluorobenzene  | 1 ppm                 | 0.979 ppm +/- 0.02 ppm |                        |
| Nitrogen             | balance               | balance                |                        |
|                      |                       |                        |                        |
|                      |                       |                        |                        |
|                      |                       |                        |                        |

### **NOTES: Blend Tolerance:**

+/- 10 %

### **Analytical Tolerance:**

+/- 5 %

### **Traceability:**

NIST by weight set. NIST Traceability No MT001810.

Internal Standards by analysis

### **Reactive Mixtures:**

Analyzed twice with required agreement between analyses of 2%.

Required wait time between analyses of >7 days.

### **Caution:**

Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

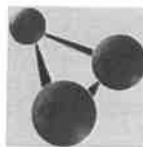
QA Signature:

Signature:

Date: 07/16/2024

\*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

# CUSTOMGAS SOLUTIONS



1750 East Club Boulevard  
Durham, NC 27704  
Phone: (919) 220-2570  
Fax: (919) 220-4540

A1142  
Rec 10/13/25

## Certificate of Analysis

### Customer:

ChemTech  
284 Sheffield Street  
Mountainside, NJ 07092

Cylinder Number: BC993219  
Cylinder Size/CGA: 170/180  
Fill Pressure: 1815 PSIA  
Gas Volume: 110 liters  
Date of Mfg: 10/01/2025  
Expiration Date: 10/01/2026  
Lot Number: 051925-001A

Ship To : Chemtech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.    | Customer PO | Mixture Type |
|-----------------|----------|------------|-------------|--------------|
| 00107092NJ      | Best Way | 051925-001 | Email051925 | Gravimetric  |

| Component                     | Nominal Concentration | Actual Concentration* | Mixture Type           |
|-------------------------------|-----------------------|-----------------------|------------------------|
| Acetone                       | 500 ppb               | 508 ppb +/- 50 ppb    | Gravimetric Master Gas |
| Acetonitrile                  | 500 ppb               | 515 ppb +/- 50 ppb    |                        |
| Acrolein                      | 500 ppb               | 514 ppb +/- 50 ppb    |                        |
| Acrylonitrile                 | 500 ppb               | 519 ppb +/- 50 ppb    |                        |
| Allyl chloride                | 500 ppb               | 499 ppb +/- 50 ppb    |                        |
| Benzene                       | 500 ppb               | 475 ppb +/- 50 ppb    |                        |
| Benzyl Chloride               | 500 ppb               | 480 ppb +/- 50 ppb    |                        |
| Bromodichloromethane          | 500 ppb               | 500 ppb +/- 50 ppb    |                        |
| Bromoform                     | 500 ppb               | 486 ppb +/- 50 ppb    |                        |
| 1,3-Butadiene                 | 500 ppb               | 495 ppb +/- 50 ppb    |                        |
| tert-Butyl alcohol            | 500 ppb               | 512 ppb +/- 50 ppb    |                        |
| n-Butyl benzene               | 500 ppb               | 510 ppb +/- 50 ppb    |                        |
| sec-Butyl benzene             | 500 ppb               | 510 ppb +/- 50 ppb    |                        |
| tert-Butyl benzene            | 500 ppb               | 529 ppb +/- 50 ppb    |                        |
| Carbon disulfide              | 500 ppb               | 476 ppb +/- 50 ppb    |                        |
| Carbon tetrachloride          | 500 ppb               | 497 ppb +/- 50 ppb    |                        |
| Chlorobenzene                 | 500 ppb               | 483 ppb +/- 50 ppb    |                        |
| Chlorodibromomethane          | 500 ppb               | 488 ppb +/- 50 ppb    |                        |
| Chloroform                    | 500 ppb               | 483 ppb +/- 50 ppb    |                        |
| 2-Chlorotoluene               | 500 ppb               | 512 ppb +/- 50 ppb    |                        |
| Cyclohexane                   | 500 ppb               | 474 ppb +/- 50 ppb    |                        |
| 1,2-Dibromoethane             | 500 ppb               | 482 ppb +/- 50 ppb    |                        |
| 1,2-Dichlorobenzene           | 500 ppb               | 500 ppb +/- 50 ppb    |                        |
| 1,3-Dichlorobenzene           | 500 ppb               | 480 ppb +/- 50 ppb    |                        |
| 1,4-Dichlorobenzene           | 500 ppb               | 481 ppb +/- 50 ppb    |                        |
| Dichlorodifluoromethane (R12) | 500 ppb               | 499 ppb +/- 50 ppb    |                        |



|                                |         |                    |  |
|--------------------------------|---------|--------------------|--|
| 1,1-Dichloroethane             | 500 ppb | 483 ppb +/- 50 ppb |  |
| 1,2-Dichloroethane             | 500 ppb | 488 ppb +/- 50 ppb |  |
| 1,1-Dichloroethylene           | 500 ppb | 484 ppb +/- 50 ppb |  |
| cis 1,2-Dichloroethylene       | 500 ppb | 480 ppb +/- 50 ppb |  |
| trans 1,2-Dichloroethylene     | 500 ppb | 479 ppb +/- 50 ppb |  |
| 1,2-Dichloropropane            | 500 ppb | 481 ppb +/- 50 ppb |  |
| cis 1,3-Dichloropropylene      | 500 ppb | 507 ppb +/- 50 ppb |  |
| trans 1,3-Dichloropropylene    | 500 ppb | 457 ppb +/- 50 ppb |  |
| 1,2-Dichlorotetrafluoroethane  | 500 ppb | 496 ppb +/- 50 ppb |  |
| 1,4-Dioxane                    | 500 ppb | 475 ppb +/- 50 ppb |  |
| Ethyl acetate                  | 500 ppb | 477 ppb +/- 50 ppb |  |
| Ethyl Alcohol                  | 500 ppb | 513 ppb +/- 50 ppb |  |
| Ethyl benzene                  | 500 ppb | 488 ppb +/- 50 ppb |  |
| Ethyl Chloride                 | 500 ppb | 497 ppb +/- 50 ppb |  |
| 4-Ethyltoluene                 | 500 ppb | 477 ppb +/- 50 ppb |  |
| n-Heptane                      | 500 ppb | 478 ppb +/- 50 ppb |  |
| Hexachloro-1,3-butadiene       | 500 ppb | 480 ppb +/- 50 ppb |  |
| 2-Hexanone                     | 500 ppb | 482 ppb +/- 50 ppb |  |
| n-Hexane                       | 500 ppb | 476 ppb +/- 50 ppb |  |
| Isopropyl alcohol              | 500 ppb | 502 ppb +/- 50 ppb |  |
| Isopropyl benzene              | 500 ppb | 507 ppb +/- 50 ppb |  |
| p-Isopropyl toluene            | 500 ppb | 515 ppb +/- 50 ppb |  |
| Methyl Bromide                 | 500 ppb | 496 ppb +/- 50 ppb |  |
| Methyl Chloride                | 500 ppb | 499 ppb +/- 50 ppb |  |
| Methyl ethyl ketone            | 500 ppb | 487 ppb +/- 50 ppb |  |
| Methyl isobutyl ketone         | 500 ppb | 484 ppb +/- 50 ppb |  |
| Methyl methacrylate            | 500 ppb | 512 ppb +/- 50 ppb |  |
| Methyl tertiary butyl ether    | 500 ppb | 474 ppb +/- 50 ppb |  |
| Methylene chloride             | 500 ppb | 489 ppb +/- 50 ppb |  |
| Naphthalene                    | 500 ppb | 506 ppb +/- 50 ppb |  |
| n-Propylbenzene                | 500 ppb | 510 ppb +/- 50 ppb |  |
| Propylene                      | 500 ppb | 499 ppb +/- 50 ppb |  |
| Styrene                        | 500 ppb | 477 ppb +/- 50 ppb |  |
| 1,1,1,2-Tetrachloroethane      | 500 ppb | 515 ppb +/- 50 ppb |  |
| 1,1,2,2-Tetrachloroethane      | 500 ppb | 475 ppb +/- 50 ppb |  |
| Tetrachloroethylene            | 500 ppb | 478 ppb +/- 50 ppb |  |
| Tetrahydrofuran                | 500 ppb | 504 ppb +/- 50 ppb |  |
| Toluene                        | 500 ppb | 482 ppb +/- 50 ppb |  |
| 1,2,4-Trichlorobenzene         | 500 ppb | 485 ppb +/- 50 ppb |  |
| 1,1,1-Trichloroethane          | 500 ppb | 485 ppb +/- 50 ppb |  |
| 1,1,2-Trichloroethane          | 500 ppb | 485 ppb +/- 50 ppb |  |
| Trichloroethylene              | 500 ppb | 479 ppb +/- 50 ppb |  |
| Trichlorofluoromethane         | 500 ppb | 499 ppb +/- 50 ppb |  |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 486 ppb +/- 50 ppb |  |
| 1,2,4-Trimethylbenzene         | 500 ppb | 485 ppb +/- 50 ppb |  |
| 1,3,5-Trimethylbenzene         | 500 ppb | 489 ppb +/- 50 ppb |  |
| 2,2,4-Trimethylpentane         | 500 ppb | 480 ppb +/- 50 ppb |  |
| Vinyl acetate                  | 500 ppb | 490 ppb +/- 50 ppb |  |
| Vinyl bromide                  | 500 ppb | 496 ppb +/- 50 ppb |  |
| Vinyl chloride                 | 500 ppb | 507 ppb +/- 50 ppb |  |
| m-Xylene                       | 500 ppb | 484 ppb +/- 50 ppb |  |
| o-Xylene                       | 500 ppb | 471 ppb +/- 50 ppb |  |
| p-Xylene                       | 500 ppb | 477 ppb +/- 50 ppb |  |
| 2-Methyl Naphthalene           | 500 ppb | 498 ppb +/- 50 ppb |  |
| R-22                           | 500 ppb | 590 ppb +/- 50 ppb |  |
| Nitrogen                       | balance | balance            |  |
|                                |         |                    |  |
|                                |         |                    |  |



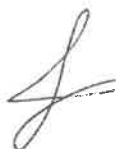
**NOTES:** Blend Tolerance: +/- 10 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:**

**Signature:**

**Date:** 10/01/2025



\*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

# CUSTOMGAS

## SOLUTIONS



1750 East Club Boulevard  
Durham, NC 27704  
Phone: (919) 220-2570  
Fax: (919) 220-4540

A 1143

Rec 10/13/25

### Certificate of Analysis

#### Customer:

ChemTech  
284 Sheffield Street  
Mountianside, NJ 07092

Cylinder Number: BC785565  
Cylinder Size/CGA: 170/180  
Fill Pressure: 1815 PSIA  
Gas Volume: 110 liters  
Date of Mfg: 10/01/2025  
Expiration Date: 10/01/2026  
Lot Number: 051925-001B

Ship To : Chemtech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.    | Customer PO | Mixture Type |
|-----------------|----------|------------|-------------|--------------|
| 00107092NJ      | Best Way | 051925-001 | Email051925 | Gravimetric  |

| Component                     | Nominal Concentration | Actual Concentration* | Mixture Type           |
|-------------------------------|-----------------------|-----------------------|------------------------|
| Acetone                       | 500 ppb               | 525 ppb +/- 50 ppb    | Gravimetric Master Gas |
| Acetonitrile                  | 500 ppb               | 525 ppb +/- 50 ppb    |                        |
| Acrolein                      | 500 ppb               | 534 ppb +/- 50 ppb    |                        |
| Acrylonitrile                 | 500 ppb               | 530 ppb +/- 50 ppb    |                        |
| Allyl chloride                | 500 ppb               | 517 ppb +/- 50 ppb    |                        |
| Benzene                       | 500 ppb               | 492 ppb +/- 50 ppb    |                        |
| Benzyl Chloride               | 500 ppb               | 497 ppb +/- 50 ppb    |                        |
| Bromodichloromethane          | 500 ppb               | 518 ppb +/- 50 ppb    |                        |
| Bromoform                     | 500 ppb               | 503 ppb +/- 50 ppb    |                        |
| 1,3-Butadiene                 | 500 ppb               | 512 ppb +/- 50 ppb    |                        |
| tert-Butyl alcohol            | 500 ppb               | 523 ppb +/- 50 ppb    |                        |
| n-Butyl benzene               | 500 ppb               | 510 ppb +/- 50 ppb    |                        |
| sec-Butyl benzene             | 500 ppb               | 520 ppb +/- 50 ppb    |                        |
| tert-Butyl benzene            | 500 ppb               | 520 ppb +/- 50 ppb    |                        |
| Carbon disulfide              | 500 ppb               | 493 ppb +/- 50 ppb    |                        |
| Carbon tetrachloride          | 500 ppb               | 515 ppb +/- 50 ppb    |                        |
| Chlorobenzene                 | 500 ppb               | 500 ppb +/- 50 ppb    |                        |
| Chlorodibromomethane          | 500 ppb               | 496 ppb +/- 50 ppb    |                        |
| Chloroform                    | 500 ppb               | 500 ppb +/- 50 ppb    |                        |
| 2-Chlorotoluene               | 500 ppb               | 523 ppb +/- 50 ppb    |                        |
| Cyclohexane                   | 500 ppb               | 491 ppb +/- 50 ppb    |                        |
| 1,2-Dibromoethane             | 500 ppb               | 499 ppb +/- 50 ppb    |                        |
| 1,2-Dichlorobenzene           | 500 ppb               | 518 ppb +/- 50 ppb    |                        |
| 1,3-Dichlorobenzene           | 500 ppb               | 497 ppb +/- 50 ppb    |                        |
| 1,4-Dichlorobenzene           | 500 ppb               | 498 ppb +/- 50 ppb    |                        |
| Dichlorodifluoromethane (R12) | 500 ppb               | 516 ppb +/- 50 ppb    |                        |

|                                |         |                    |  |
|--------------------------------|---------|--------------------|--|
| 1,1-Dichloroethane             | 500 ppb | 500 ppb +/- 50 ppb |  |
| 1,2-Dichloroethane             | 500 ppb | 505 ppb +/- 50 ppb |  |
| 1,1-Dichloroethylene           | 500 ppb | 501 ppb +/- 50 ppb |  |
| cis 1,2-Dichloroethylene       | 500 ppb | 497 ppb +/- 50 ppb |  |
| trans 1,2-Dichloroethylene     | 500 ppb | 496 ppb +/- 50 ppb |  |
| 1,2-Dichloropropane            | 500 ppb | 498 ppb +/- 50 ppb |  |
| cis 1,3-Dichloropropylene      | 500 ppb | 525 ppb +/- 50 ppb |  |
| trans 1,3-Dichloropropylene    | 500 ppb | 473 ppb +/- 50 ppb |  |
| 1,2-Dichlorotetrafluoroethane  | 500 ppb | 513 ppb +/- 50 ppb |  |
| 1,4-Dioxane                    | 500 ppb | 492 ppb +/- 50 ppb |  |
| Ethyl acetate                  | 500 ppb | 494 ppb +/- 50 ppb |  |
| Ethyl Alcohol                  | 500 ppb | 523 ppb +/- 50 ppb |  |
| Ethyl benzene                  | 500 ppb | 505 ppb +/- 50 ppb |  |
| Ethyl Chloride                 | 500 ppb | 515 ppb +/- 50 ppb |  |
| 4-Ethyltoluene                 | 500 ppb | 494 ppb +/- 50 ppb |  |
| n-Heptane                      | 500 ppb | 495 ppb +/- 50 ppb |  |
| Hexachloro-1,3-butadiene       | 500 ppb | 497 ppb +/- 50 ppb |  |
| 2-Hexanone                     | 500 ppb | 499 ppb +/- 50 ppb |  |
| n-Hexane                       | 500 ppb | 493 ppb +/- 50 ppb |  |
| Isopropyl alcohol              | 500 ppb | 520 ppb +/- 50 ppb |  |
| Isopropyl benzene              | 500 ppb | 518 ppb +/- 50 ppb |  |
| p-Isopropyl toluene            | 500 ppb | 524 ppb +/- 50 ppb |  |
| Methyl Bromide                 | 500 ppb | 514 ppb +/- 50 ppb |  |
| Methyl Chloride                | 500 ppb | 517 ppb +/- 50 ppb |  |
| Methyl ethyl ketone            | 500 ppb | 504 ppb +/- 50 ppb |  |
| Methyl isobutyl ketone         | 500 ppb | 501 ppb +/- 50 ppb |  |
| Methyl methacrylate            | 500 ppb | 523 ppb +/- 50 ppb |  |
| Methyl tertiary butyl ether    | 500 ppb | 491 ppb +/- 50 ppb |  |
| Methylene chloride             | 500 ppb | 506 ppb +/- 50 ppb |  |
| Naphthalene                    | 500 ppb | 517 ppb +/- 50 ppb |  |
| n-Propylbenzene                | 500 ppb | 519 ppb +/- 50 ppb |  |
| Propylene                      | 500 ppb | 516 ppb +/- 50 ppb |  |
| Styrene                        | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,1,1,2-Tetrachloroethane      | 500 ppb | 525 ppb +/- 50 ppb |  |
| 1,1,2,2-Tetrachloroethane      | 500 ppb | 492 ppb +/- 50 ppb |  |
| Tetrachloroethylene            | 500 ppb | 495 ppb +/- 50 ppb |  |
| Tetrahydrofuran                | 500 ppb | 510 ppb +/- 50 ppb |  |
| Toluene                        | 500 ppb | 499 ppb +/- 50 ppb |  |
| 1,2,4-Trichlorobenzene         | 500 ppb | 502 ppb +/- 50 ppb |  |
| 1,1,1-Trichloroethane          | 500 ppb | 502 ppb +/- 50 ppb |  |
| 1,1,2-Trichloroethane          | 500 ppb | 503 ppb +/- 50 ppb |  |
| Trichloroethylene              | 500 ppb | 496 ppb +/- 50 ppb |  |
| Trichlorofluoromethane         | 500 ppb | 517 ppb +/- 50 ppb |  |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 503 ppb +/- 50 ppb |  |
| 1,2,4-Trimethylbenzene         | 500 ppb | 502 ppb +/- 50 ppb |  |
| 1,3,5-Trimethylbenzene         | 500 ppb | 506 ppb +/- 50 ppb |  |
| 2,2,4-Trimethylpentane         | 500 ppb | 497 ppb +/- 50 ppb |  |
| Vinyl acetate                  | 500 ppb | 507 ppb +/- 50 ppb |  |
| Vinyl bromide                  | 500 ppb | 514 ppb +/- 50 ppb |  |
| Vinyl chloride                 | 500 ppb | 515 ppb +/- 50 ppb |  |
| m-Xylene                       | 500 ppb | 501 ppb +/- 50 ppb |  |
| o-Xylene                       | 500 ppb | 488 ppb +/- 50 ppb |  |
| p-Xylene                       | 500 ppb | 494 ppb +/- 50 ppb |  |
| 2-Methyl Naphthalene           | 500 ppb | 498 ppb +/- 50 ppb |  |
| R-22                           | 500 ppb | 590 ppb +/- 50 ppb |  |
| Nitrogen                       | balance | balance            |  |
|                                |         |                    |  |
|                                |         |                    |  |

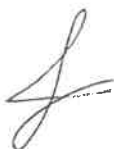
**NOTES:** Blend Tolerance: +/- 10 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:**

**Signature:**

**Date:** 10/01/2025



\*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

## Process Report

Order ID : Q3556

| Date       | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 11/06/2025 | B2510050  | Q3556-04          | -10.4           | 10752       | 1.4 L    | 10571  |          | C2509004   | <b>VL042989.D</b><br>Seq :VL092325<br>TUNE : VL042982.D<br>ICAL : VL042955.D<br>CCAL : VL042983.D<br>MB : VL042984.D |
| 11/06/2025 | B2510050  | Q3556-03          | -10.4           | 10737       | 1.4 L    | 10166  |          | C2509004   | <b>VL042989.D</b><br>Seq :VL092325<br>TUNE : VL042982.D<br>ICAL : VL042955.D<br>CCAL : VL042983.D<br>MB : VL042984.D |
| 11/06/2025 | B2510050  | Q3556-02          | -5.5            | 10283       | 6 L      | 10537  |          | C2509002   | <b>VL042942.D</b><br>Seq :VL091825<br>TUNE : VL042938.D<br>ICAL : VL042934.D<br>CCAL : VL042939.D<br>MB : VL042940.D |
| 11/06/2025 | B2510050  | Q3556-01          | -12.4           | 10266       | 6 L      | 10626  |          | C2509002   | <b>VL042942.D</b><br>Seq :VL091825<br>TUNE : VL042938.D<br>ICAL : VL042934.D<br>CCAL : VL042939.D<br>MB : VL042940.D |



**Canister Batch :** C2509004

**Type of Canister :** 1.4 L

**Cleaning Date :** 02/26/2025

**Analyst :** sam

**Oven Temperature :** 125.0 c

| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File       |
|----------|-----------------------------|----------------------------|---------------|----------------|------------------------|-------------------|-------------|------------|
| 10747    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-07          | 10747       | VL042989.D |
| 10752    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3556-04          | 10747       | VL042989.D |
| 10470    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |
| 10464    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |
| 10435    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |
| 10123    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |
| 10737    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3556-03          | 10747       | VL042989.D |
| 10420    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-03          | 10420       | VL042990.D |
| 10743    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-06          | 10743       | VL042991.D |
| 10451    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |
| 10428    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3557-05          | 10747       | VL042989.D |
| 10423    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3555-04          | 10747       | VL042989.D |
| 10668    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-04          | 10668       | VL042992.D |
| 10122    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |
| 10136    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-01          | 10136       | VL042987.D |
| 10147    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-02          | 10147       | VL042986.D |
| 10674    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3557-04          | 10747       | VL042989.D |
| 10684    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3285-05          | 10684       | VL042988.D |
| 10653    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             | Q3555-03          | 10747       | VL042989.D |
| 10746    | -30                         | 02/26/2025                 | 09/23/2025    | -30            | 02/27/2025             |                   | 10747       | VL042989.D |

**Canister Batch :** C2509002

**Type of Canister :** 6 L

**Cleaning Date :** 09/11/2025

**Analyst :** sam

**Oven Temperature :** 125.0 c

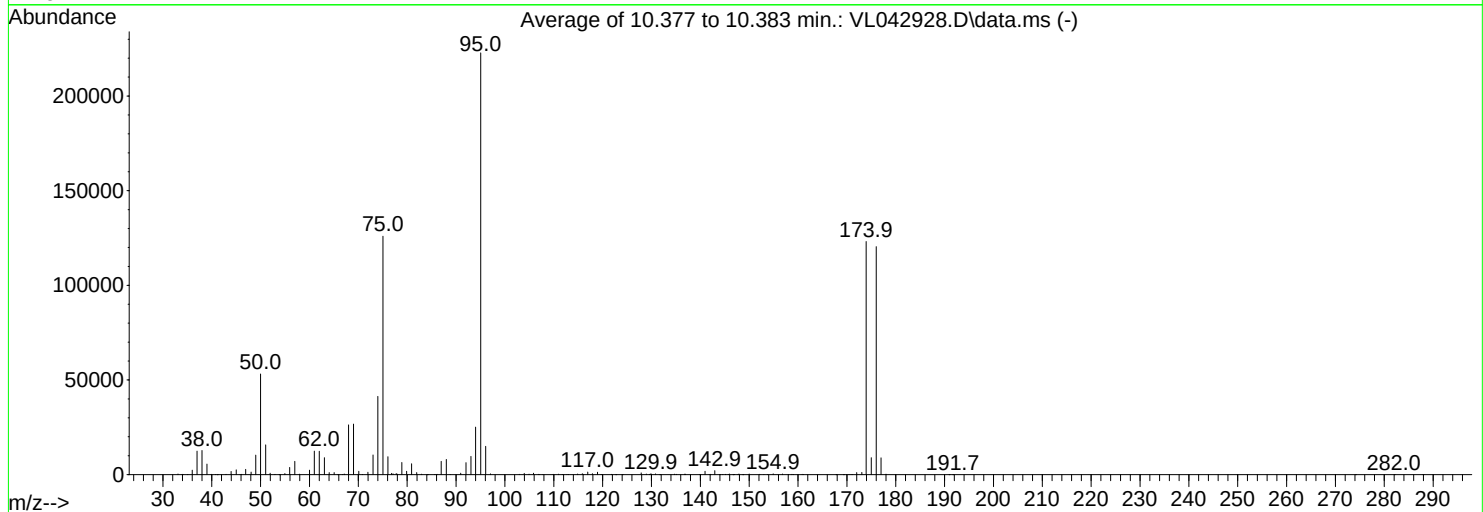
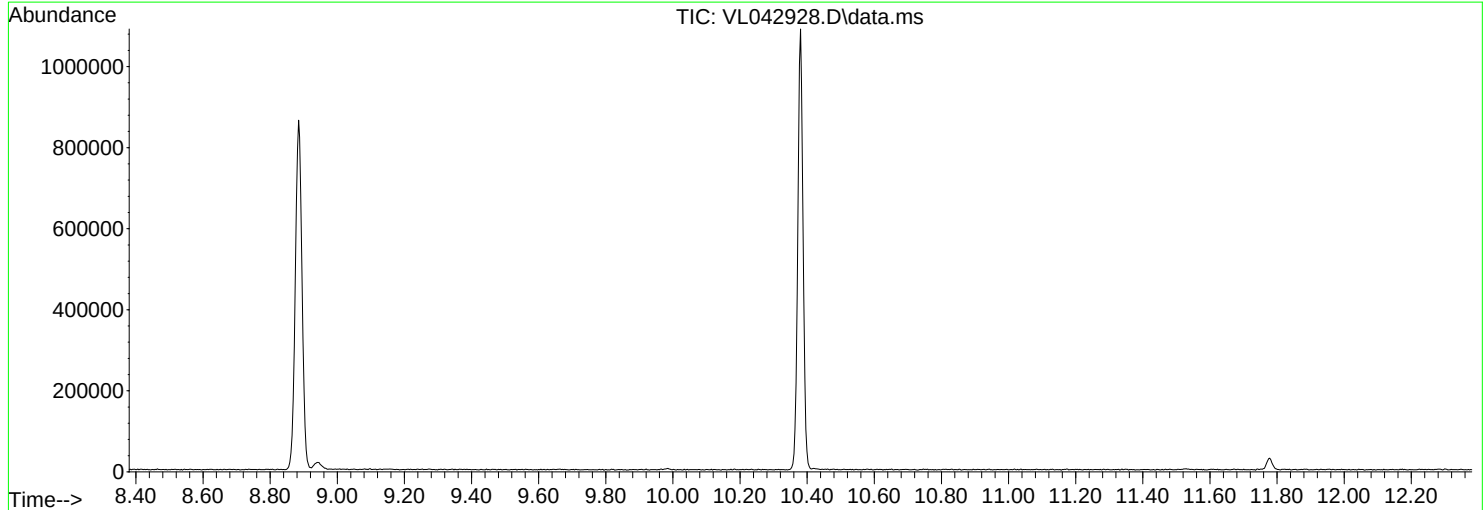
| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File       |
|----------|-----------------------------|----------------------------|---------------|----------------|------------------------|-------------------|-------------|------------|
| 10153    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3555-01          | 10060       | VL042942.D |
| 10283    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3556-02          | 10060       | VL042942.D |
| 10060    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3557-03          | 10060       | VL042942.D |
| 10602    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3320-03          | 10060       | VL042942.D |
| 10300    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3557-02          | 10060       | VL042942.D |
| 10443    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3320-06          | 10060       | VL042942.D |
| 10266    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3556-01          | 10060       | VL042942.D |
| 10053    | -30                         | 09/12/2025                 | 09/18/2025    | -30            | 09/15/2025             | Q3320-01          | 10060       | VL042942.D |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042928.D  
Acq On : 17 Sep 2025 07:51  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Thu Sep 18 02:57:46 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 23.9  | 53203  | PASS      |
| 75     | 95      | 30     | 66     | 56.5  | 125915 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 222805 | PASS      |
| 96     | 95      | 5      | 9      | 6.7   | 14943  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.0   | 1195   | PASS      |
| 174    | 95      | 50     | 120    | 55.3  | 123173 | PASS      |
| 175    | 174     | 4      | 9      | 7.3   | 8935   | PASS      |
| 176    | 174     | 93     | 101    | 97.8  | 120472 | PASS      |
| 177    | 176     | 5      | 9      | 7.4   | 8875   | PASS      |



Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL091725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Last Update : Thu Sep 18 02:57:46 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042934.D 0.1 =VL042933.D 0.5 =VL042932.D 1 =VL042931.D 2 =VL042930.D 10 =VL042935.D 15 =VL042936.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.465 | 1.446 | 1.419 | 1.445 | 1.366 | 1.428 | 2.68  |
| 3) Chlorodifluoro...      |                |       | 1.556 | 1.534 | 1.491 | 1.484 | 1.454 | 1.504 | 2.71  |
| 4) Chloromethane          |                |       | 0.588 | 0.622 | 0.536 | 0.574 | 0.550 | 0.574 | 5.88  |
| 5) T Vinyl Chloride       | 0.669          | 0.586 | 0.545 | 0.504 | 0.497 | 0.500 | 0.491 | 0.542 | 12.13 |
| 6) T Bromomethane         |                |       | 0.217 | 0.175 | 0.178 | 0.190 | 0.181 | 0.188 | 8.96  |
| 7) Chloroethane           |                |       | 0.192 | 0.213 | 0.190 | 0.201 | 0.201 | 0.199 | 4.63  |
| 8) T Dichlorotetra...     |                |       | 1.154 | 1.166 | 1.103 | 1.143 | 1.100 | 1.133 | 2.65  |
| 9) T Propene              |                |       | 0.515 | 0.564 | 0.548 | 0.538 | 0.581 | 0.549 | 4.59  |
| 10) T Heptane             |                |       | 1.004 | 1.233 | 1.352 | 1.616 | 1.599 | 1.361 | 18.93 |
| 11) T Trichlorofluor...   |                |       | 1.400 | 1.490 | 1.370 | 1.429 | 1.366 | 1.411 | 3.63  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.135 | 1.135 | 1.064 | 1.113 | 1.064 | 1.102 | 3.26  |
| 13) Ethanol               |                |       | 0.070 | 0.059 | 0.056 | 0.048 | 0.048 | 0.056 | 16.18 |
| 14) T Bromoethene         |                |       | 0.407 | 0.414 | 0.366 | 0.391 | 0.386 | 0.393 | 4.73  |
| 15) T Acetone             |                |       | 1.420 | 1.359 | 1.246 | 1.072 | 1.045 | 1.228 | 13.65 |
| 16) T 1,3-Butadiene       |                |       | 0.579 | 0.529 | 0.472 | 0.494 | 0.494 | 0.514 | 8.13  |
| 17) tert-Butyl alc...     |                |       | 1.224 | 1.255 | 1.114 | 1.170 | 1.151 | 1.183 | 4.78  |
| 18) T 1,1-Dichloroet...   |                |       | 0.474 | 0.489 | 0.482 | 0.488 | 0.479 | 0.483 | 1.33  |
| 19) T Isopropyl Alcohol   |                |       | 0.721 | 0.680 | 0.617 | 0.644 | 0.631 | 0.659 | 6.40  |
| 20) T Methylene Chlo...   |                |       | 0.716 | 0.611 | 0.510 | 0.421 | 0.415 | 0.535 | 24.11 |
| 21) T Allyl Chloride      |                |       | 0.883 | 0.815 | 0.814 | 0.826 | 0.824 | 0.833 | 3.47  |
| 22) T trans-1,2-Dich...   |                |       | 0.550 | 0.575 | 0.528 | 0.549 | 0.533 | 0.547 | 3.34  |
| 23) T Vinyl Acetate       |                |       | 1.374 | 1.284 | 1.357 | 1.484 | 1.638 | 1.427 | 9.65  |
| 24) T 1,1-Dichloroet...   |                |       | 1.105 | 1.080 | 1.050 | 1.099 | 1.067 | 1.080 | 2.08  |
| 25) T Ethyl Acetate       |                |       | 2.360 | 2.502 | 2.630 | 2.836 | 2.786 | 2.623 | 7.52  |
| 26) T Hexane              |                |       | 0.939 | 1.026 | 1.145 | 1.242 | 1.276 | 1.126 | 12.66 |
| 27) T Carbon Disulfide    |                |       | 1.436 | 1.458 | 1.317 | 1.375 | 1.355 | 1.388 | 4.18  |
| 28) T Methyl tert-Bu...   |                |       | 0.643 | 0.624 | 0.574 | 0.617 | 0.634 | 0.619 | 4.31  |
| 29) T Chloroform          |                |       | 1.803 | 1.891 | 1.823 | 1.865 | 1.817 | 1.840 | 1.99  |
| 30) T Cyclohexane         |                |       | 0.625 | 0.735 | 0.815 | 1.011 | 1.054 | 0.848 | 21.47 |
| 31) T cis-1,2-Dichlo...   |                |       | 0.968 | 1.086 | 1.102 | 1.149 | 1.190 | 1.099 | 7.64  |
| 32) T 1,1,1-Trichlor...   | 2.127          | 1.510 | 1.666 | 1.661 | 1.662 | 1.709 | 1.715 | 1.721 | 11.12 |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.596 | 0.627 | 0.659 | 0.674 | 0.685 | 0.648 | 5.65  |
| 35) T Carbon Tetrach...   | 0.887          | 0.719 | 0.690 | 0.681 | 0.641 | 0.691 | 0.666 | 0.711 | 11.42 |
| 36) T Benzene             |                |       | 0.816 | 0.829 | 0.839 | 0.924 | 0.954 | 0.872 | 7.16  |
| 37) T 1,2-Dichloroet...   |                |       | 0.529 | 0.519 | 0.512 | 0.527 | 0.524 | 0.522 | 1.34  |
| 38) T Trichloroethene     | 0.503          | 0.376 | 0.373 | 0.353 | 0.354 | 0.402 | 0.403 | 0.395 | 13.08 |
| 39) T 1,2-Dichloropr...   |                |       | 0.358 | 0.351 | 0.338 | 0.357 | 0.357 | 0.353 | 2.37  |

|                                                                                 |                   |                |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\<br>Method File : VL091725AIR.M |                   |                |       |       |       |       |       |       |       |       |
| 40) T                                                                           | 1,4-Dioxane       |                |       | 0.099 | 0.122 | 0.113 | 0.147 | 0.144 | 0.125 | 16.30 |
| 41) T                                                                           | Tetrahydrofuran   |                |       | 0.290 | 0.266 | 0.298 | 0.363 | 0.387 | 0.321 | 16.10 |
| 42) T                                                                           | Bromodichlorom... |                |       | 0.783 | 0.742 | 0.714 | 0.762 | 0.746 | 0.750 | 3.40  |
| 43) T                                                                           | Methyl Methacr... |                |       | 0.227 | 0.248 | 0.276 | 0.345 | 0.364 | 0.292 | 20.57 |
| 44) T                                                                           | 2,2,4-Trimethy... |                |       | 1.170 | 1.300 | 1.471 | 1.687 | 1.646 | 1.455 | 15.20 |
| 45) T                                                                           | t-1,3-Dichloro... |                |       | 0.251 | 0.274 | 0.283 | 0.352 | 0.380 | 0.308 | 17.89 |
| 46) T                                                                           | cis-1,3-Dichlo... |                |       | 0.366 | 0.385 | 0.390 | 0.474 | 0.508 | 0.425 | 14.72 |
| 47) T                                                                           | 1,1,2-Trichlor... |                |       | 0.352 | 0.353 | 0.352 | 0.376 | 0.365 | 0.359 | 2.94  |
| 48) T                                                                           | Dibromochlorom... |                |       | 0.548 | 0.562 | 0.536 | 0.588 | 0.580 | 0.563 | 3.84  |
| 49) T                                                                           | Bromoform         |                |       | 0.429 | 0.411 | 0.425 | 0.472 | 0.460 | 0.439 | 5.87  |
| 50) T                                                                           | 4-Methyl-2-Pen... |                |       | 0.595 | 0.664 | 0.728 | 0.933 | 0.955 | 0.775 | 20.83 |
| 51) T                                                                           | 2-Hexanone        |                |       | 0.423 | 0.450 | 0.510 | 0.740 | 0.755 | 0.576 | 27.84 |
| 52) T                                                                           | Tetrachloroethene | 0.327          | 0.224 | 0.256 | 0.254 | 0.263 | 0.279 | 0.281 | 0.269 | 11.80 |
| 53) T                                                                           | Toluene           |                |       | 0.598 | 0.670 | 0.758 | 1.001 | 1.040 | 0.813 | 24.32 |
| 54) T                                                                           | 1,2-Dibromoethane | 0.433          |       | 0.436 | 0.448 | 0.444 | 0.508 | 0.505 | 0.462 | 7.47  |
| 55) I                                                                           | Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |       |       |
| 56) T                                                                           | 1,1,1,2-Tetrac... |                |       | 0.517 | 0.512 | 0.493 | 0.527 | 0.498 | 0.509 | 2.78  |
| 57) T                                                                           | Chlorobenzene     |                |       | 0.949 | 0.886 | 0.898 | 0.970 | 0.919 | 0.924 | 3.79  |
| 58) T                                                                           | Ethyl Benzene     |                |       | 0.942 | 1.017 | 1.196 | 1.650 | 1.637 | 1.288 | 26.17 |
| 59) T                                                                           | m/p-Xylene        |                |       | 0.738 | 0.884 | 1.104 | 1.392 | 1.325 | 1.089 | 25.72 |
| 60) T                                                                           | o-Xylene          |                |       | 0.726 | 0.844 | 1.096 | 1.402 | 1.343 | 1.082 | 27.48 |
| 61) T                                                                           | Styrene           |                |       | 0.245 | 0.299 | 0.340 | 0.556 | 0.573 | 0.403 | 37.70 |
| 62) T                                                                           | Isopropylbenzene  |                |       | 1.142 | 1.307 | 1.541 | 2.003 | 1.891 | 1.577 | 23.38 |
| 63) T                                                                           | 1,1,2,2-Tetrac... | 0.970          | 0.748 | 0.730 | 0.723 | 0.747 | 0.803 | 0.752 | 0.782 | 11.13 |
| 64) T                                                                           | n-propylbenzene   |                |       | 0.277 | 0.343 | 0.413 | 0.517 | 0.494 | 0.409 | 24.68 |
| 65) T                                                                           | tert-Butylbenzene |                |       | 0.818 | 1.112 | 1.398 | 1.753 | 1.656 | 1.347 | 28.70 |
| 66) T                                                                           | Benzyl Chloride   |                |       | 0.091 | 0.109 | 0.117 | 0.150 | 0.159 | 0.125 | 22.74 |
| 67) T                                                                           | sec-Butylbenzene  |                |       | 1.399 | 1.798 | 2.090 | 2.561 | 2.401 | 2.050 | 22.80 |
| 68) S                                                                           | 1-Bromo-4-Fluo... | 0.743          | 0.753 | 0.778 | 0.782 | 0.781 | 0.837 | 0.797 | 0.782 | 3.93  |
| 69) T                                                                           | p-Isopropyltol... |                |       | 0.986 | 1.282 | 1.606 | 2.067 | 1.958 | 1.580 | 28.70 |
| 70) T                                                                           | n-Butylbenzene    |                |       | 0.982 | 1.300 | 1.709 | 2.228 | 2.085 | 1.661 | 31.50 |
| 71) T                                                                           | 2-Chlorotoluene   |                |       | 0.834 | 0.945 | 1.116 | 1.503 | 1.451 | 1.170 | 25.50 |
| 72) T                                                                           | 4-Ethyltoluene    |                |       | 0.779 | 0.977 | 1.252 | 1.691 | 1.633 | 1.267 | 31.48 |
| 73) T                                                                           | 1,3,5-Trimethy... |                |       | 0.670 | 0.868 | 1.076 | 1.398 | 1.343 | 1.071 | 28.88 |
| 74) T                                                                           | 1,2,4-Trimethy... |                |       | 0.781 | 1.074 | 1.337 | 1.603 | 1.498 | 1.258 | 26.47 |
| 75) T                                                                           | 1,3-Dichlorobe... |                |       | 0.703 | 0.714 | 0.802 | 0.904 | 0.867 | 0.798 | 11.20 |
| 76) T                                                                           | 1,4-Dichlorobe... |                |       | 0.629 | 0.674 | 0.762 | 0.913 | 0.860 | 0.768 | 15.65 |
| 77) T                                                                           | 1,2-Dichlorobe... |                |       | 0.689 | 0.786 | 0.813 | 0.897 | 0.839 | 0.805 | 9.52  |
| 78) T                                                                           | Hexachloro-1,3... |                |       | 0.533 | 0.496 | 0.513 | 0.524 | 0.504 | 0.514 | 2.95  |
| 79) T                                                                           | Naphthalene       | 0.394          |       | 0.438 | 0.609 | 0.972 | 1.344 | 1.338 | 0.849 | 50.88 |
| 80) T                                                                           | Naphthalene,2-... |                |       | 0.172 | 0.156 | 0.223 | 0.376 | 0.449 | 0.275 | 47.42 |
| 81) T                                                                           | 1,2,4-Trichlor... |                |       | 0.267 | 0.366 | 0.485 | 0.635 | 0.645 | 0.479 | 34.52 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042930.D  
 Acq On : 17 Sep 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Sep 18 02:27:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 164907   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.958  | 114   | 435071   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 369327   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 288273   | 9.986    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.900%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 46802    | 1.987    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 49186    | 1.983    | ppbv   | 100      |
| 4) Chloromethane              | 1.534  | 50    | 17675    | 1.867    | ppbv   | 99       |
| 5) Vinyl Chloride             | 1.580  | 62    | 16393    | 1.836    | ppbv # | 86       |
| 6) Bromomethane               | 1.670  | 94    | 5883     | 1.896    | ppbv   | 92       |
| 7) Chloroethane               | 1.706  | 64    | 6270     | 1.906    | ppbv   | 96       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 36390    | 1.947    | ppbv   | 98       |
| 9) Propene                    | 1.482  | 41    | 18062    | 1.994    | ppbv   | 99       |
| 10) Heptane                   | 4.981  | 43    | 44603    | 1.988    | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 45172    | 1.941    | ppbv   | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 35102    | 1.931    | ppbv   | 99       |
| 13) Ethanol                   | 1.722  | 45    | 1853     | 2.007    | ppbv   | 86       |
| 14) Bromoethene               | 1.780  | 108   | 12079    | 1.865    | ppbv   | 99       |
| 15) Acetone                   | 1.835  | 43    | 41083    | 2.028    | ppbv   | 94       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 15580    | 1.839    | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 36744    | 1.884    | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 15909    | 1.999    | ppbv   | 96       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 20335    | 1.873    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.062  | 84    | 16824    | 1.908    | ppbv   | 97       |
| 21) Allyl Chloride            | 2.097  | 41    | 26855    | 1.956    | ppbv   | 98       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 17418    | 1.931    | ppbv   | 96       |
| 23) Vinyl Acetate             | 2.463  | 43    | 44744    | 1.901    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 34643    | 1.944    | ppbv   | 97       |
| 25) Ethyl Acetate             | 2.835  | 43    | 86728    | 2.005    | ppbv   | 99       |
| 26) Hexane                    | 2.829  | 57    | 37751    | 2.034    | ppbv   | 97       |
| 27) Carbon Disulfide          | 2.152  | 76    | 43441    | 1.897    | ppbv # | 71       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 18935    | 1.856    | ppbv   | 97       |
| 29) Chloroform                | 2.848  | 83    | 60110    | 1.981    | ppbv   | 96       |
| 30) Cyclohexane               | 3.855  | 84    | 26874m   | 1.922    | ppbv   |          |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 36341    | 2.005    | ppbv   | 99       |
| 32) 1,1,1-Trichloroethane     | 3.369  | 97    | 54810    | 1.931    | ppbv   | 100      |
| 34) 2-Butanone                | 2.560  | 43    | 57314    | 2.032    | ppbv   | 100      |
| 35) Carbon Tetrachloride      | 3.764  | 117   | 55818    | 1.805    | ppbv   | 99       |
| 36) Benzene                   | 3.658  | 78    | 73010    | 1.924    | ppbv   | 95       |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 44529    | 1.959    | ppbv   | 100      |
| 38) Trichloroethene           | 4.548  | 130   | 30836    | 1.795    | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 4.311  | 63    | 29453m   | 1.921    | ppbv   |          |
| 40) 1,4-Dioxane               | 4.599  | 88    | 9832m    | 1.807    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.059  | 42    | 25945    | 1.871    | ppbv   | 99       |
| 42) Bromodichloromethane      | 4.493  | 83    | 62170    | 1.906    | ppbv   | 94       |
| 43) Methyl Methacrylate       | 4.884  | 69    | 23990m   | 1.885    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57    | 127979   | 2.022    | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 24591    | 1.836    | ppbv   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042930.D  
 Acq On : 17 Sep 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Quant Time: Sep 18 02:27:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Thu Sep 18 02:25:28 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 33947    | 1.838 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 30589m   | 1.956 | ppbv   |          |
| 48) Dibromochloromethane      | 7.389  | 129  | 46665    | 1.905 | ppbv   | 98       |
| 49) Bromoform                 | 9.483  | 173  | 36951    | 1.933 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 63384    | 1.886 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.441  | 43   | 44357    | 1.793 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.228  | 164  | 22859m   | 1.937 | ppbv   |          |
| 53) Toluene                   | 6.939  | 91   | 65999m   | 1.866 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 38670    | 1.923 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 36390    | 1.934 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.924  | 112  | 66303    | 1.942 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 88328    | 1.856 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.551  | 91   | 163157m  | 4.057 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 80966    | 2.025 | ppbv   | 99       |
| 61) Styrene                   | 9.875  | 104  | 25108    | 1.690 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.542 | 105  | 113843   | 1.955 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 55150    | 1.910 | ppbv   | 97       |
| 64) n-propylbenzene           | 10.992 | 120  | 30484    | 2.019 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 103228   | 2.074 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.616 | 91   | 8657     | 1.872 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 154393   | 2.039 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 118634   | 2.033 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.283 | 91   | 126244   | 1.872 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 82459    | 1.908 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 92502    | 1.838 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 79446    | 2.009 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 98757    | 2.125 | ppbv # | 84       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 59236    | 2.010 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 56252    | 1.984 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 60057    | 2.020 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 37895    | 1.996 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 71767    | 1.785 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.461 | 142  | 16473    | 1.745 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 35795    | 1.886 | ppbv   | 96       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042931.D  
 Acq On : 17 Sep 2025 11:23  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Sep 18 02:28:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 158272   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.958 | 114  | 413841   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 354619   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 277264 10.003 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 22884  | 1.012 | ppbv   | 94     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 24279  | 1.020 | ppbv   | 100    |
| 4) Chloromethane              | 1.534 | 50  | 9850   | 1.084 | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.583 | 62  | 7971   | 0.930 | ppbv # | 83     |
| 6) Bromomethane               | 1.670 | 94  | 2772   | 0.931 | ppbv # | 80     |
| 7) Chloroethane               | 1.706 | 64  | 3374   | 1.069 | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 18455  | 1.029 | ppbv   | 96     |
| 9) Propene                    | 1.486 | 41  | 8924   | 1.027 | ppbv   | 98     |
| 10) Heptane                   | 4.981 | 43  | 19516m | 0.906 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 23589  | 1.056 | ppbv   | 90     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 17971  | 1.030 | ppbv   | 98     |
| 13) Ethanol                   | 1.722 | 45  | 926    | 1.045 | ppbv # | 50     |
| 14) Bromoethene               | 1.783 | 108 | 6547   | 1.053 | ppbv # | 96     |
| 15) Acetone                   | 1.839 | 43  | 21505  | 1.106 | ppbv   | 95     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 8380   | 1.031 | ppbv   | 93     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 19857  | 1.061 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 7747   | 1.014 | ppbv   | 95     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 10765  | 1.033 | ppbv # | 1      |
| 20) Methylene Chloride        | 2.062 | 84  | 9665   | 1.142 | ppbv   | 95     |
| 21) Allyl Chloride            | 2.097 | 41  | 12905  | 0.979 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.343 | 96  | 9099   | 1.051 | ppbv   | 91     |
| 23) Vinyl Acetate             | 2.463 | 43  | 20319  | 0.900 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 17097  | 1.000 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.835 | 43  | 39603  | 0.954 | ppbv   | 98     |
| 26) Hexane                    | 2.826 | 57  | 16236  | 0.911 | ppbv   | 87     |
| 27) Carbon Disulfide          | 2.152 | 76  | 23073  | 1.050 | ppbv # | 79     |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 9873   | 1.009 | ppbv   | 91     |
| 29) Chloroform                | 2.848 | 83  | 29928  | 1.028 | ppbv   | 93     |
| 30) Cyclohexane               | 3.861 | 84  | 11631m | 0.867 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 17192  | 0.988 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 26292  | 0.965 | ppbv   | 99     |
| 34) 2-Butanone                | 2.557 | 43  | 25950  | 0.967 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 28194  | 0.958 | ppbv   | 91     |
| 36) Benzene                   | 3.654 | 78  | 34301  | 0.950 | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 21496  | 0.994 | ppbv   | 100    |
| 38) Trichloroethene           | 4.551 | 130 | 14609  | 0.894 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 14533m | 0.996 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.599 | 88  | 5054m  | 0.977 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.062 | 42  | 10997  | 0.834 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.493 | 83  | 30707  | 0.990 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.887 | 69  | 10283m | 0.849 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 53804  | 0.894 | ppbv   | 92     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 11328m | 0.889 | ppbv   |        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042931.D  
 Acq On : 17 Sep 2025 11:23  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Quant Time: Sep 18 02:28:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Thu Sep 18 02:25:28 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

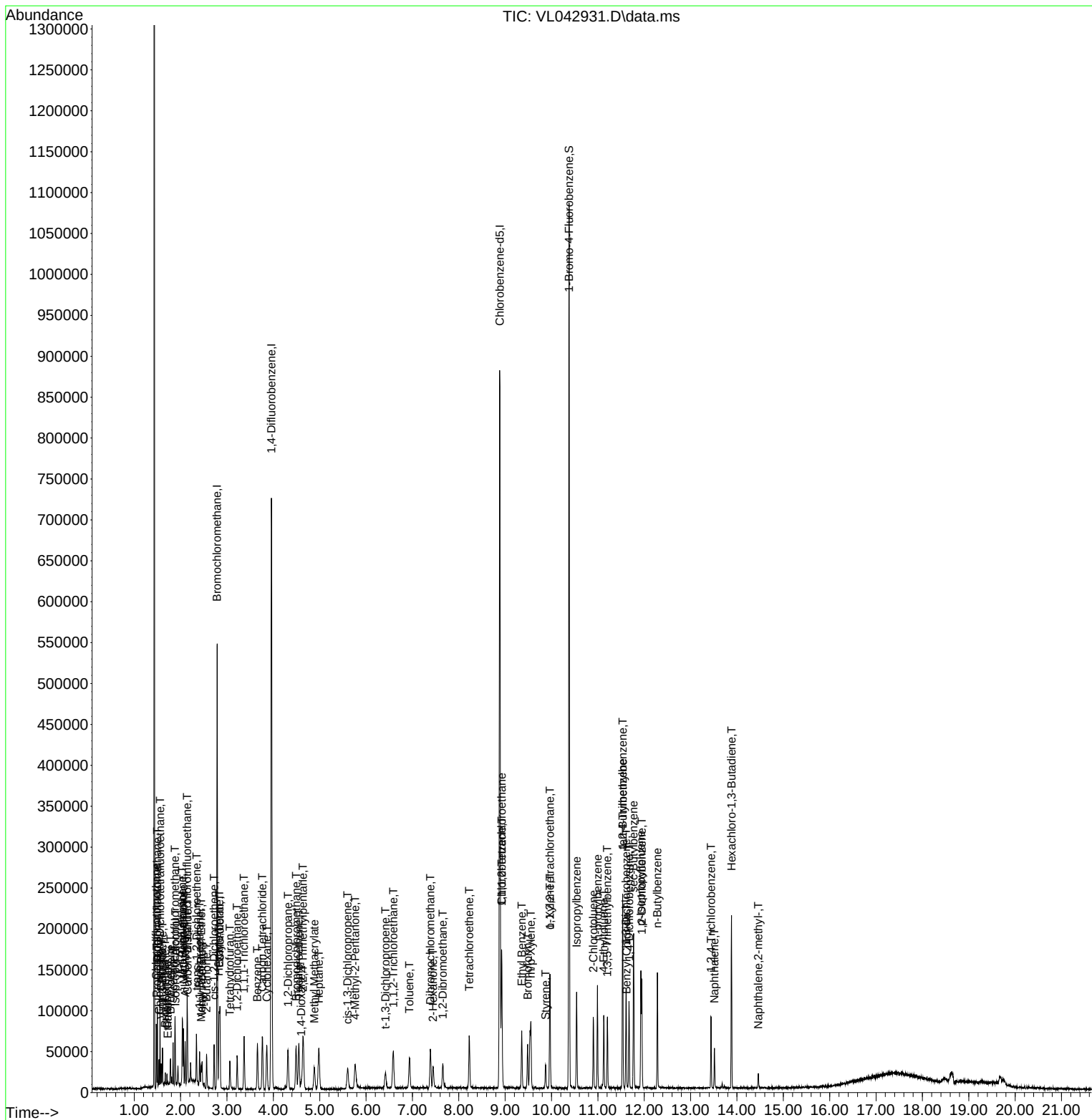
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.599  | 75   | 15914m   | 0.906 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 14628m   | 0.983 | ppbv   |          |
| 48) Dibromochloromethane      | 7.386  | 129  | 23257    | 0.998 | ppbv   | 98       |
| 49) Bromoform                 | 9.487  | 173  | 16990    | 0.934 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 27486m   | 0.860 | ppbv   |          |
| 51) 2-Hexanone                | 7.441  | 43   | 18604m   | 0.791 | ppbv   |          |
| 52) Tetrachloroethene         | 8.224  | 164  | 10494    | 0.935 | ppbv   | 92       |
| 53) Toluene                   | 6.933  | 91   | 27724m   | 0.824 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 18521    | 0.968 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 18170    | 1.006 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.924  | 112  | 31407    | 0.958 | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.357  | 91   | 36048    | 0.789 | ppbv   | 94       |
| 59) m/p-Xylene                | 9.551  | 91   | 62681m   | 1.623 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 29945    | 0.780 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 10595    | 1.046 | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.542 | 105  | 46332    | 0.829 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 25646    | 0.925 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.992 | 120  | 12151    | 0.838 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.535 | 119  | 39439    | 0.825 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.616 | 91   | 3848     | 0.867 | ppbv   | 94       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 63758    | 0.877 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 45477    | 0.812 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.283 | 91   | 46106    | 0.899 | ppbv   | 95       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 33505    | 0.808 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 34655    | 0.937 | ppbv # | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 30778    | 0.810 | ppbv   | 90       |
| 74) 1,2,4-Trimethylbenzene    | 11.535 | 105  | 38075    | 0.853 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 25315    | 0.895 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 23918    | 0.879 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 27862    | 0.976 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 17581    | 0.964 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 21593    | 0.809 | ppbv   | 95       |
| 80) Naphthalene,2-methyl-     | 14.461 | 142  | 5523     | 1.103 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 12986    | 0.977 | ppbv   | 96       |

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

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:28:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Thu Sep 18 02:25:28 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042932.D  
 Acq On : 17 Sep 2025 11:58  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Sep 18 02:29:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 156392   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 401247   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 338744   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 263700   | 9.959    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 11457    | 0.513    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 12168    | 0.517    | ppbv   | 100      |
| 4) Chloromethane              | 1.534  | 50    | 4596     | 0.512    | ppbv # | 84       |
| 5) Vinyl Chloride             | 1.580  | 62    | 4260     | 0.503    | ppbv   | 90       |
| 6) Bromomethane               | 1.667  | 94    | 1694     | 0.576    | ppbv # | 79       |
| 7) Chloroethane               | 1.703  | 64    | 1499     | 0.481    | ppbv   | 91       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 9022     | 0.509    | ppbv   | 91       |
| 9) Propene                    | 1.483  | 41    | 4027     | 0.469    | ppbv   | 90       |
| 10) Heptane                   | 4.981  | 43    | 7851m    | 0.369    | ppbv   |          |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 10951    | 0.496    | ppbv   | 86       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 8872     | 0.515    | ppbv   | 100      |
| 13) Ethanol                   | 1.722  | 45    | 545m     | 0.622    | ppbv   |          |
| 14) Bromoethene               | 1.780  | 108   | 3180     | 0.518    | ppbv   | 97       |
| 15) Acetone                   | 1.835  | 43    | 11107    | 0.578    | ppbv   | 97       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 4527     | 0.563    | ppbv   | 98       |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 9574     | 0.518    | ppbv   | 100      |
| 18) 1,1-Dichloroethene        | 2.033  | 96    | 3704     | 0.491    | ppbv   | 97       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 5637     | 0.547    | ppbv # | 97       |
| 20) Methylene Chloride        | 2.062  | 84    | 5602     | 0.670    | ppbv # | 89       |
| 21) Allyl Chloride            | 2.094  | 41    | 6908     | 0.531    | ppbv   | 91       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 4297     | 0.502    | ppbv   | 89       |
| 23) Vinyl Acetate             | 2.463  | 43    | 10743    | 0.481    | ppbv # | 94       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 8640     | 0.511    | ppbv   | 98       |
| 25) Ethyl Acetate             | 2.839  | 43    | 18457    | 0.450    | ppbv   | 97       |
| 26) Hexane                    | 2.826  | 57    | 7346     | 0.417    | ppbv # | 83       |
| 27) Carbon Disulfide          | 2.149  | 76    | 11231    | 0.517    | ppbv # | 1        |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 5027     | 0.520    | ppbv   | 96       |
| 29) Chloroform                | 2.845  | 83    | 14102    | 0.490    | ppbv   | 94       |
| 30) Cyclohexane               | 3.852  | 84    | 4888m    | 0.369    | ppbv   |          |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 7566     | 0.440    | ppbv # | 87       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 13029    | 0.484    | ppbv   | 95       |
| 34) 2-Butanone                | 2.560  | 43    | 11954    | 0.460    | ppbv   | 91       |
| 35) Carbon Tetrachloride      | 3.755  | 117   | 13842m   | 0.485    | ppbv   |          |
| 36) Benzene                   | 3.654  | 78    | 16361    | 0.467    | ppbv # | 86       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 10620    | 0.507    | ppbv   | 97       |
| 38) Trichloroethene           | 4.548  | 130   | 7478m    | 0.472    | ppbv   |          |
| 39) 1,2-Dichloropropane       | 4.308  | 63    | 7185     | 0.508    | ppbv # | 81       |
| 40) 1,4-Dioxane               | 4.606  | 88    | 1992m    | 0.397    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.059  | 42    | 5821m    | 0.455    | ppbv   |          |
| 42) Bromodichloromethane      | 4.489  | 83    | 15717m   | 0.522    | ppbv   |          |
| 43) Methyl Methacrylate       | 4.881  | 69    | 4550m    | 0.388    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 23481m   | 0.402    | ppbv   |          |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 5044m    | 0.408    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042932.D  
 Acq On : 17 Sep 2025 11:58  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Sep 18 02:29:24 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Thu Sep 18 02:25:28 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 7341m    | 0.431 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 7061m    | 0.490 | ppbv   |          |
| 48) Dibromochloromethane      | 7.380  | 129  | 10997m   | 0.487 | ppbv   |          |
| 49) Bromoform                 | 9.484  | 173  | 8614     | 0.489 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 11932m   | 0.385 | ppbv   |          |
| 51) 2-Hexanone                | 7.444  | 43   | 8494m    | 0.372 | ppbv   |          |
| 52) Tetrachloroethene         | 8.234  | 164  | 5126m    | 0.471 | ppbv   |          |
| 53) Toluene                   | 6.933  | 91   | 11993    | 0.368 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 8754m    | 0.472 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 8760m    | 0.507 | ppbv   |          |
| 57) Chlorobenzene             | 8.924  | 112  | 16080    | 0.514 | ppbv # | 92       |
| 58) Ethyl Benzene             | 9.354  | 91   | 15958    | 0.366 | ppbv   | 91       |
| 59) m/p-Xylene                | 9.539  | 91   | 24990m   | 0.678 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 12302    | 0.336 | ppbv   | 100      |
| 61) Styrene                   | 9.869  | 104  | 4154     | 0.748 | ppbv   | 93       |
| 62) Isopropylbenzene          | 10.539 | 105  | 19343    | 0.362 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 12366m   | 0.467 | ppbv   |          |
| 64) n-propylbenzene           | 10.989 | 120  | 4697     | 0.339 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 13853    | 0.304 | ppbv   | 91       |
| 66) Benzyl Chloride           | 11.613 | 91   | 1547     | 0.365 | ppbv   | 95       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 23691    | 0.341 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 16694    | 0.312 | ppbv   | 95       |
| 70) n-Butylbenzene            | 12.280 | 91   | 16636    | 0.527 | ppbv   | 91       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 14134    | 0.357 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 13199    | 0.591 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 11354    | 0.313 | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 13232    | 0.310 | ppbv # | 79       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 11911    | 0.441 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 10649    | 0.410 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 11678    | 0.428 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 9035     | 0.519 | ppbv   | 97       |
| 79) Naphthalene               | 13.513 | 128  | 7418     | 0.523 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 2905     | 0.949 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 4520     | 0.626 | ppbv   | 98       |

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

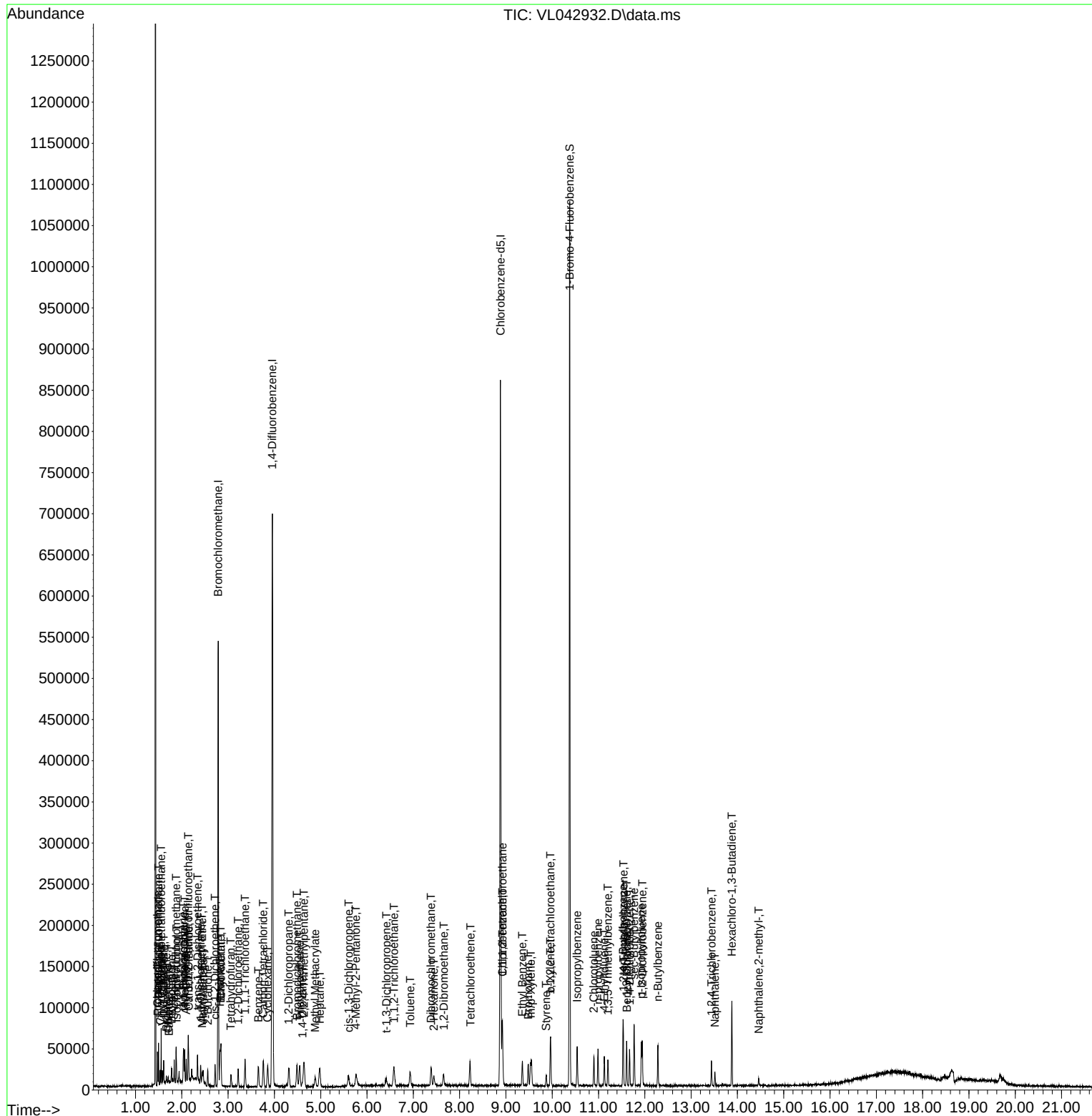
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042932.D  
Acq On : 17 Sep 2025 11:58  
Operator : SY/MD  
Sample : VSTDIC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Quant Time: Sep 18 02:29:24 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Sep 18 02:25:28 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
Supervised By : Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042933.D  
Acq On : 17 Sep 2025 12:32  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:30:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.787  | 49    | 155710   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 390094   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 326535   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 245820   | 9.631    | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 96.300%  |
| Target Compounds              |        |       |          |          |       |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 912      | 0.108    | ppbv  | 92       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 2351m    | 0.088    | ppbv  |          |
| 35) Carbon Tetrachloride      | 3.765  | 117   | 2804m    | 0.101    | ppbv  |          |
| 38) Trichloroethene           | 4.548  | 130   | 1467m    | 0.095    | ppbv  |          |
| 52) Tetrachloroethene         | 8.225  | 164   | 875m     | 0.083    | ppbv  |          |
| 54) 1,2-Dibromoethane         | 7.661  | 107   | 1690m    | 0.094    | ppbv  |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 2442m    | 0.096    | ppbv  |          |
| 79) Naphthalene               | 13.520 | 128   | 1286m    | 0.391    | ppbv  |          |

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

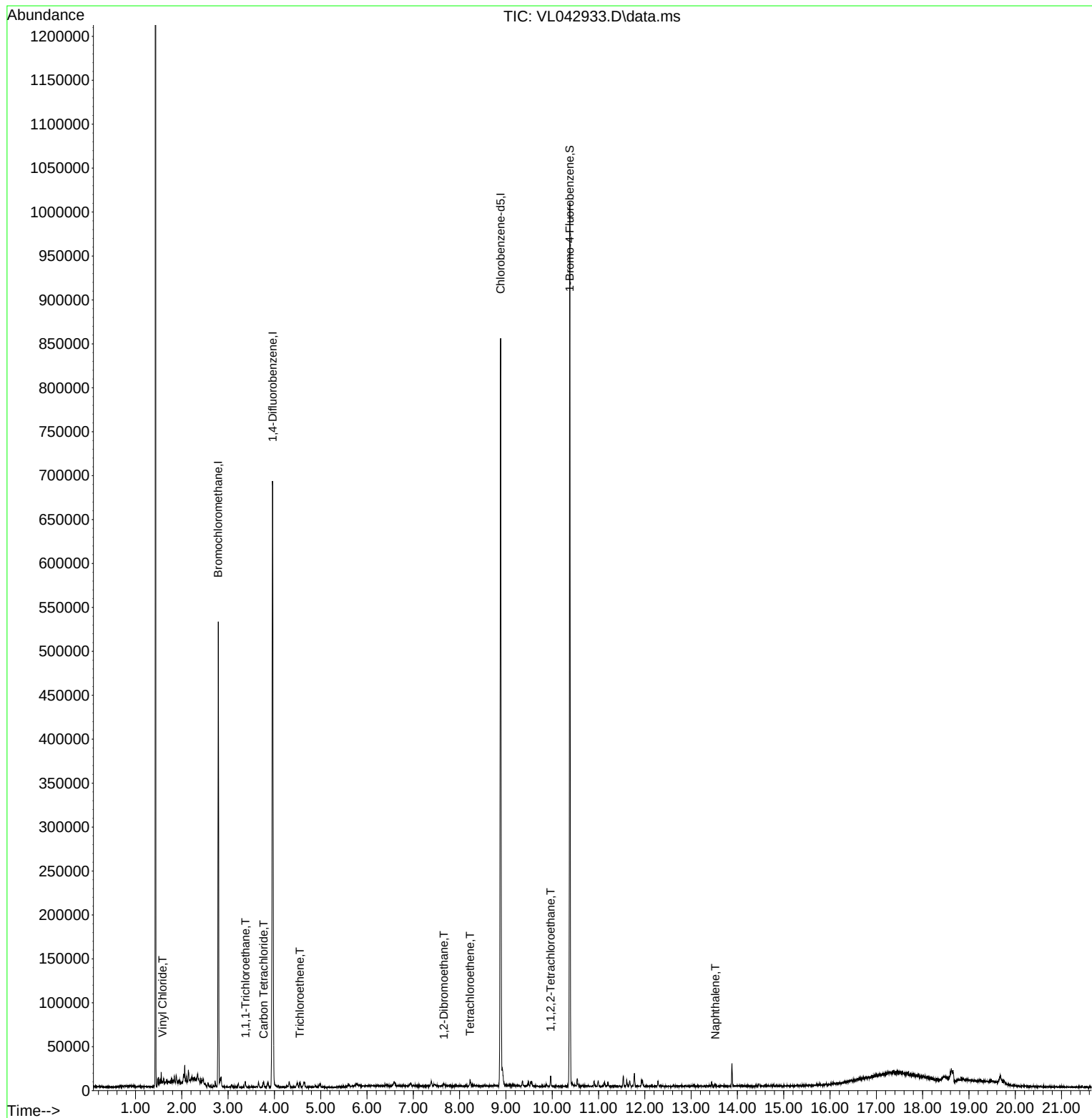
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042933.D  
Acq On : 17 Sep 2025 12:32  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Quant Time: Sep 18 02:30:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Sep 18 02:25:28 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
Supervised By : Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042934.D  
Acq On : 17 Sep 2025 13:07  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:31:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 151993   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 373216   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 318402   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 236647   | 9.509    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 95.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 305      | 0.037    | ppbv   | 93       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 970m     | 0.037    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 993m     | 0.037    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 563m     | 0.038    | ppbv   |          |
| 52) Tetrachloroethene         | 8.221  | 164   | 366m     | 0.036    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83    | 927m     | 0.037    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

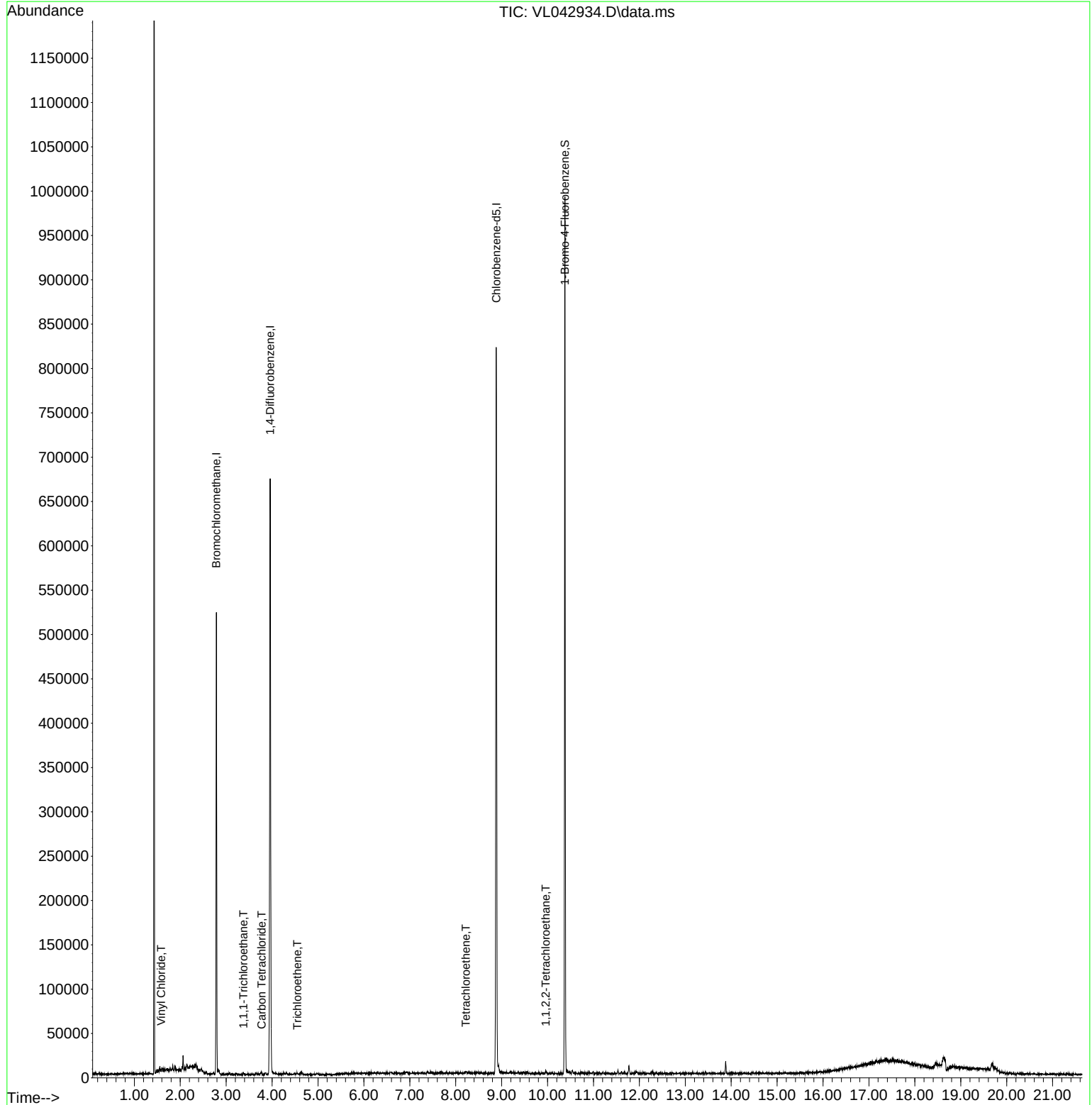
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042934.D  
Acq On : 17 Sep 2025 13:07  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Sep 18 02:31:06 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Sep 18 02:25:28 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
Supervised By : Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042935.D  
 Acq On : 17 Sep 2025 13:42  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.790  | 49    | 160573   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 415318   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 353249   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 295803   | 10.713   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 107.100% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 232093   | 10.119   | ppbv  | 100      |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 238232   | 9.865    | ppbv  | 100      |
| 4) Chloromethane              | 1.534  | 50    | 92202    | 10.003   | ppbv  | 100      |
| 5) Vinyl Chloride             | 1.583  | 62    | 80228    | 9.226    | ppbv  | 100      |
| 6) Bromomethane               | 1.670  | 94    | 30537    | 10.105   | ppbv  | 100      |
| 7) Chloroethane               | 1.706  | 64    | 32281    | 10.079   | ppbv  | 100      |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 183602   | 10.089   | ppbv  | 100      |
| 9) Propene                    | 1.486  | 41    | 86426    | 9.800    | ppbv  | 100      |
| 10) Heptane                   | 4.988  | 43    | 259422   | 11.872   | ppbv  | 100      |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 229480   | 10.128   | ppbv  | 100      |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 178790   | 10.100   | ppbv  | 100      |
| 13) Ethanol                   | 1.722  | 45    | 7630     | 8.486    | ppbv  | 98       |
| 14) Bromoethene               | 1.784  | 108   | 62744    | 9.949    | ppbv  | 100      |
| 15) Acetone                   | 1.839  | 43    | 172060   | 8.724    | ppbv  | 100      |
| 16) 1,3-Butadiene             | 1.612  | 39    | 79400    | 9.624    | ppbv  | 100      |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 187824   | 9.890    | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 78341    | 10.110   | ppbv  | 100      |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 103481   | 9.786    | ppbv  | 100      |
| 20) Methylene Chloride        | 2.065  | 84    | 67680    | 7.882    | ppbv  | 100      |
| 21) Allyl Chloride            | 2.097  | 41    | 132660   | 9.923    | ppbv  | 100      |
| 22) trans-1,2-Dichloroethene  | 2.343  | 96    | 88151    | 10.037   | ppbv  | 100      |
| 23) Vinyl Acetate             | 2.466  | 43    | 238255   | 10.397   | ppbv  | 100      |
| 24) 1,1-Dichloroethane        | 2.411  | 63    | 176500   | 10.174   | ppbv  | 100      |
| 25) Ethyl Acetate             | 2.835  | 43    | 455318   | 10.811   | ppbv  | 100      |
| 26) Hexane                    | 2.829  | 57    | 199382   | 11.031   | ppbv  | 100      |
| 27) Carbon Disulfide          | 2.152  | 76    | 220787   | 9.904    | ppbv  | 99       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 99133    | 9.982    | ppbv  | 100      |
| 29) Chloroform                | 2.852  | 83    | 299464   | 10.137   | ppbv  | 100      |
| 30) Cyclohexane               | 3.861  | 84    | 162355   | 11.924   | ppbv  | 100      |
| 31) cis-1,2-Dichloroethene    | 2.725  | 61    | 184566   | 10.459   | ppbv  | 100      |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 274368   | 9.926    | ppbv  | 100      |
| 34) 2-Butanone                | 2.560  | 43    | 280052   | 10.402   | ppbv  | 100      |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 287073   | 9.724    | ppbv  | 100      |
| 36) Benzene                   | 3.661  | 78    | 383581   | 10.588   | ppbv  | 100      |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 218944   | 10.091   | ppbv  | 100      |
| 38) Trichloroethene           | 4.557  | 130   | 166868   | 10.176   | ppbv  | 100      |
| 39) 1,2-Dichloropropane       | 4.318  | 63    | 148415   | 10.139   | ppbv  | 100      |
| 40) 1,4-Dioxane               | 4.583  | 88    | 60929    | 11.733   | ppbv  | # 100    |
| 41) Tetrahydrofuran           | 3.056  | 42    | 150567   | 11.375   | ppbv  | 100      |
| 42) Bromodichloromethane      | 4.496  | 83    | 316501   | 10.165   | ppbv  | 100      |
| 43) Methyl Methacrylate       | 4.884  | 69    | 143457   | 11.807   | ppbv  | 100      |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57    | 700623   | 11.595   | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 6.422  | 75    | 146102   | 11.424   | ppbv  | 100      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042935.D  
 Acq On : 17 Sep 2025 13:42  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Sep 18 02:32:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 197003   | 11.174 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 156042   | 10.453 | ppbv  | 100      |
| 48) Dibromochloromethane      | 7.393  | 129  | 244251   | 10.447 | ppbv  | 100      |
| 49) Bromoform                 | 9.490  | 173  | 196118   | 10.747 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 387522   | 12.080 | ppbv  | 100      |
| 51) 2-Hexanone                | 7.441  | 43   | 307420   | 13.020 | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.231  | 164  | 115985   | 10.295 | ppbv  | 100      |
| 53) Toluene                   | 6.939  | 91   | 415754   | 12.313 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 211125   | 10.997 | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 186222   | 10.345 | ppbv  | 100      |
| 57) Chlorobenzene             | 8.927  | 112  | 342500   | 10.490 | ppbv  | 100      |
| 58) Ethyl Benzene             | 9.360  | 91   | 582982   | 12.810 | ppbv  | 100      |
| 59) m/p-Xylene                | 9.558  | 91   | 983541m  | 25.571 | ppbv  |          |
| 60) o-Xylene                  | 9.969  | 91   | 495406   | 12.957 | ppbv  | 100      |
| 61) Styrene                   | 9.875  | 104  | 196509   | 9.941  | ppbv  | 100      |
| 62) Isopropylbenzene          | 10.545 | 105  | 707651   | 12.705 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 283680   | 10.272 | ppbv  | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 182766   | 12.656 | ppbv  | 100      |
| 65) tert-Butylbenzene         | 11.536 | 119  | 619284   | 13.011 | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.620 | 91   | 53013    | 11.987 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 11.772 | 105  | 904817   | 12.496 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 730122   | 13.084 | ppbv  | 100      |
| 70) n-Butylbenzene            | 12.286 | 91   | 787146   | 10.537 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 530980   | 12.848 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 597492   | 10.333 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 493710   | 13.051 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 566106   | 12.734 | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 319203   | 11.326 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 322554   | 11.896 | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 316961   | 11.147 | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 185221   | 10.199 | ppbv  | 100      |
| 79) Naphthalene               | 13.516 | 128  | 474749   | 10.151 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.461 | 142  | 132693   | 9.058  | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 224163   | 9.993  | ppbv  | 100      |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042936.D  
 Acq On : 17 Sep 2025 14:17  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Sep 18 02:32:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 166880   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 435144   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 378127   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 301418   | 10.198   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 102.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 342031   | 14.349   | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 364078   | 14.507   | ppbv   | 100      |
| 4) Chloromethane              | 1.534  | 50    | 137673   | 14.371   | ppbv   | 96       |
| 5) Vinyl Chloride             | 1.583  | 62    | 122964   | 13.606   | ppbv   | 98       |
| 6) Bromomethane               | 1.670  | 94    | 45220    | 14.399   | ppbv   | 96       |
| 7) Chloroethane               | 1.706  | 64    | 50396    | 15.140   | ppbv   | 92       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 275345   | 14.559   | ppbv   | 99       |
| 9) Propene                    | 1.486  | 41    | 145520   | 15.877   | ppbv   | 98       |
| 10) Heptane                   | 4.985  | 43    | 400273   | 17.626   | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 341853   | 14.517   | ppbv   | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 266384   | 14.480   | ppbv   | 100      |
| 13) Ethanol                   | 1.722  | 45    | 12036    | 12.880   | ppbv   | 88       |
| 14) Bromoethene               | 1.784  | 108   | 96723    | 14.758   | ppbv   | 98       |
| 15) Acetone                   | 1.835  | 43    | 261592   | 12.762   | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 123576   | 14.413   | ppbv   | 99       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 288104   | 14.597   | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 119994   | 14.901   | ppbv   | 96       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 157857   | 14.364   | ppbv # | 1        |
| 20) Methylene Chloride        | 2.065  | 84    | 103933   | 11.646   | ppbv   | 97       |
| 21) Allyl Chloride            | 2.098  | 41    | 206205   | 14.841   | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 133482   | 14.624   | ppbv   | 97       |
| 23) Vinyl Acetate             | 2.463  | 43    | 409957   | 17.213   | ppbv   | 98       |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 267165   | 14.818   | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.836  | 43    | 697465   | 15.935   | ppbv   | 100      |
| 26) Hexane                    | 2.829  | 57    | 319529   | 17.011   | ppbv   | 94       |
| 27) Carbon Disulfide          | 2.153  | 76    | 339264   | 14.644   | ppbv   | 99       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 158791   | 15.384   | ppbv   | 99       |
| 29) Chloroform                | 2.852  | 83    | 454938   | 14.817   | ppbv   | 96       |
| 30) Cyclohexane               | 3.862  | 84    | 263817   | 18.643   | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 2.725  | 61    | 297831   | 16.240   | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97    | 429312   | 14.944   | ppbv   | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 447323   | 15.858   | ppbv   | 97       |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 434961   | 14.062   | ppbv   | 99       |
| 36) Benzene                   | 3.661  | 78    | 622923   | 16.412   | ppbv   | 100      |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 342237   | 15.055   | ppbv   | 99       |
| 38) Trichloroethene           | 4.554  | 130   | 263119   | 15.314   | ppbv   | 95       |
| 39) 1,2-Dichloropropane       | 4.318  | 63    | 233331   | 15.214   | ppbv   | 97       |
| 40) 1,4-Dioxane               | 4.583  | 88    | 94289    | 17.330   | ppbv # | 96       |
| 41) Tetrahydrofuran           | 3.052  | 42    | 252880   | 18.235   | ppbv   | 99       |
| 42) Bromodichloromethane      | 4.493  | 83    | 487210   | 14.935   | ppbv   | 99       |
| 43) Methyl Methacrylate       | 4.881  | 69    | 237510   | 18.657   | ppbv   | 98       |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57    | 1074444  | 16.972   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.422  | 75    | 248122   | 18.517   | ppbv   | 94       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042936.D  
 Acq On : 17 Sep 2025 14:17  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 331381   | 17.939 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 237995   | 15.216 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.393  | 129  | 378815   | 15.464 | ppbv   | 99       |
| 49) Bromoform                 | 9.490  | 173  | 300343   | 15.709 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 623273   | 18.544 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.441  | 43   | 492844   | 19.922 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.231  | 164  | 183151   | 15.516 | ppbv   | 96       |
| 53) Toluene                   | 6.940  | 91   | 678667   | 19.184 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 329410   | 16.376 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 282351   | 14.654 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.927  | 112  | 521288   | 14.916 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.361  | 91   | 928410   | 19.058 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.558  | 91   | 1503527m | 36.519 | ppbv   |          |
| 60) o-Xylene                  | 9.969  | 91   | 761569   | 18.607 | ppbv   | 100      |
| 61) Styrene                   | 9.875  | 104  | 325087   | 15.069 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 1072342  | 17.986 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 426688   | 14.434 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.995 | 120  | 280188   | 18.126 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 939322   | 18.437 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.620 | 91   | 90114    | 19.035 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 1361807  | 17.569 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 1110321  | 18.588 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 1182368  | 14.665 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 823050   | 18.604 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 926161   | 14.801 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 761800   | 18.813 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 849558   | 17.853 | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 491485   | 16.291 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 487745   | 16.805 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 476080   | 15.641 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 285795   | 14.702 | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 758929   | 14.938 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 254607   | 15.635 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 365929   | 15.017 | ppbv   | 99       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042937.D  
 Acq On : 17 Sep 2025 14:52  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL091725

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 163811   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.958  | 114   | 429845   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 368077   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 295691   | 10.278   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 102.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 229111   | 9.792    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 246816   | 10.019   | ppbv   | 99       |
| 4) Chloromethane              | 1.534  | 50    | 88317    | 9.392    | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.580  | 62    | 79666    | 8.980    | ppbv   | 97       |
| 6) Bromomethane               | 1.667  | 94    | 29113    | 9.444    | ppbv   | 89       |
| 7) Chloroethane               | 1.706  | 64    | 32759    | 10.026   | ppbv   | 98       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 183884   | 9.905    | ppbv   | 100      |
| 9) Propene                    | 1.482  | 41    | 98232    | 10.919   | ppbv   | 99       |
| 10) Heptane                   | 4.978  | 43    | 264357   | 11.859   | ppbv   | 100      |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 228320   | 9.878    | ppbv   | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 175799   | 9.735    | ppbv   | 99       |
| 13) Ethanol                   | 1.722  | 45    | 6424     | 7.003    | ppbv   | 92       |
| 14) Bromoethene               | 1.783  | 108   | 61980    | 9.634    | ppbv   | 99       |
| 15) Acetone                   | 1.835  | 43    | 166535   | 8.277    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 82098    | 9.755    | ppbv   | 98       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 195293   | 10.080   | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 80688    | 10.208   | ppbv   | 94       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 104411   | 9.679    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.062  | 84    | 69478    | 7.931    | ppbv   | 96       |
| 21) Allyl Chloride            | 2.097  | 41    | 135109   | 9.906    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 88461    | 9.873    | ppbv   | 97       |
| 23) Vinyl Acetate             | 2.463  | 43    | 245812   | 10.514   | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 178694   | 10.097   | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.832  | 43    | 465727   | 10.840   | ppbv   | 99       |
| 26) Hexane                    | 2.826  | 57    | 214492   | 11.633   | ppbv   | 94       |
| 27) Carbon Disulfide          | 2.149  | 76    | 225070   | 9.897    | ppbv   | 100      |
| 28) Methyl tert-Butyl Ether   | 2.437  | 73    | 100988   | 9.968    | ppbv   | 99       |
| 29) Chloroform                | 2.848  | 83    | 303164   | 10.059   | ppbv   | 99       |
| 30) Cyclohexane               | 3.858  | 84    | 169974   | 12.237   | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 201417   | 11.188   | ppbv   | 99       |
| 32) 1,1,1-Trichloroethane     | 3.369  | 97    | 282320   | 10.012   | ppbv   | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 295206   | 10.594   | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 287165   | 9.398    | ppbv   | 98       |
| 36) Benzene                   | 3.657  | 78    | 409107   | 10.911   | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 226948   | 10.107   | ppbv   | 100      |
| 38) Trichloroethene           | 4.548  | 130   | 176428   | 10.395   | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 154678   | 10.208   | ppbv   | 97       |
| 40) 1,4-Dioxane               | 4.580  | 88    | 62205    | 11.567   | ppbv # | 95       |
| 41) Tetrahydrofuran           | 3.052  | 42    | 164799   | 11.951   | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.489  | 83    | 328094   | 10.181   | ppbv   | 96       |
| 43) Methyl Methacrylate       | 4.878  | 69    | 154971   | 12.345   | ppbv   | 98       |
| 44) 2,2,4-Trimethylpentane    | 4.641  | 57    | 714131   | 11.419   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 159002   | 12.012   | ppbv   | 98       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
 Data File : VL042937.D  
 Acq On : 17 Sep 2025 14:52  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 215811   | 11.827 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 156292   | 10.115 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.386  | 129  | 248022   | 10.249 | ppbv   | 100      |
| 49) Bromoform                 | 9.483  | 173  | 199430   | 10.559 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 401816   | 12.061 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 309643   | 12.515 | ppbv   | 98       |
| 52) Tetrachloroethene         | 8.224  | 164  | 117822   | 10.191 | ppbv   | 95       |
| 53) Toluene                   | 6.936  | 91   | 437541   | 12.514 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 216018   | 10.868 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 185285   | 9.881  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 345434   | 10.154 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.357  | 91   | 594613   | 12.539 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.535  | 91   | 992545m  | 24.769 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 493072   | 12.376 | ppbv   | 98       |
| 61) Styrene                   | 9.875  | 104  | 207040   | 10.047 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 705403   | 12.155 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 281350   | 9.775  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 182390   | 12.121 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 614507   | 12.391 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.616 | 91   | 55461    | 12.035 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 903484   | 11.975 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 728062   | 12.521 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 776317   | 9.990  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 539069   | 12.518 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 596475   | 9.915  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 490000   | 12.431 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 560019   | 12.090 | ppbv # | 88       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 320827   | 10.925 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 316382   | 11.199 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 309923   | 10.460 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 181670   | 9.601  | ppbv   | 99       |
| 79) Naphthalene               | 13.513 | 128  | 471217   | 9.690  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 114187   | 7.615  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 219451   | 9.415  | ppbv   | 98       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042937.D  
Acq On : 17 Sep 2025 14:52  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL091725

Quant Time: Sep 18 03:00:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 102   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.428 | 1.399  | 2.0   | 99    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.504 | 1.507  | -0.2  | 104   | 0.00     |
| 4    | Chloromethane               | 0.574 | 0.539  | 6.1   | 96    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.542 | 0.486  | 10.3  | 99    | 0.00     |
| 6 T  | Bromomethane                | 0.188 | 0.178  | 5.3   | 95    | 0.00     |
| 7    | Chloroethane                | 0.199 | 0.200  | -0.5  | 101   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.133 | 1.123  | 0.9   | 100   | 0.00     |
| 9 T  | Propene                     | 0.549 | 0.600  | -9.3  | 114   | 0.00     |
| 10 T | Heptane                     | 1.361 | 1.614  | -18.6 | 102   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.411 | 1.394  | 1.2   | 99    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.102 | 1.073  | 2.6   | 98    | 0.00     |
| 13   | Ethanol                     | 0.056 | 0.039# | 30.4# | 84    | 0.00     |
| 14 T | Bromoethene                 | 0.393 | 0.378  | 3.8   | 99    | 0.00     |
| 15 T | Acetone                     | 1.228 | 1.017  | 17.2  | 97    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.514 | 0.501  | 2.5   | 103   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.183 | 1.192  | -0.8  | 104   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.483 | 0.493  | -2.1  | 103   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.659 | 0.637  | 3.3   | 101   | 0.00     |
| 20 T | Methylene Chloride          | 0.535 | 0.424  | 20.7  | 103   | 0.00     |
| 21 T | Allyl Chloride              | 0.833 | 0.825  | 1.0   | 102   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.547 | 0.540  | 1.3   | 100   | 0.00     |
| 23 T | Vinyl Acetate               | 1.427 | 1.501  | -5.2  | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.080 | 1.091  | -1.0  | 101   | 0.00     |
| 25 T | Ethyl Acetate               | 2.623 | 2.843  | -8.4  | 102   | 0.00     |
| 26 T | Hexane                      | 1.126 | 1.309  | -16.3 | 108   | 0.00     |
| 27 T | Carbon Disulfide            | 1.388 | 1.374  | 1.0   | 102   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.619 | 0.616  | 0.5   | 102   | 0.00     |
| 29 T | Chloroform                  | 1.840 | 1.851  | -0.6  | 101   | 0.00     |
| 30 T | Cyclohexane                 | 0.848 | 1.038  | -22.4 | 105   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.099 | 1.230  | -11.9 | 109   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.721 | 1.723  | -0.1  | 103   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 103   | 0.00     |
| 34 T | 2-Butanone                  | 0.648 | 0.687  | -6.0  | 105   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.711 | 0.668  | 6.0   | 100   | 0.00     |
| 36 T | Benzene                     | 0.872 | 0.952  | -9.2  | 107   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.522 | 0.528  | -1.1  | 104   | 0.00     |
| 38 T | Trichloroethene             | 0.395 | 0.410  | -3.8  | 106   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.353 | 0.360  | -2.0  | 104   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.125 | 0.145  | -16.0 | 102   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.321 | 0.383  | -19.3 | 109   | 0.00     |
| 42 T | Bromodichloromethane        | 0.750 | 0.763  | -1.7  | 104   | 0.00     |
| 43   | Methyl Methacrylate         | 0.292 | 0.361  | -23.6 | 108   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.455 | 1.661  | -14.2 | 102   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.308 | 0.370  | -20.1 | 109   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.425 | 0.502  | -18.1 | 110   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.359 | 0.364  | -1.4  | 100   | 0.00     |
| 48 T | Dibromochloromethane        | 0.563 | 0.577  | -2.5  | 102   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042937.D  
Acq On : 17 Sep 2025 14:52  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL091725

Quant Time: Sep 18 03:00:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 49 T | Bromoform                 | 0.439 | 0.464 | -5.7   | 102   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.775 | 0.935 | -20.6  | 104   | 0.00     |
| 51 T | 2-Hexanone                | 0.576 | 0.720 | -25.0  | 101   | 0.00     |
| 52 T | Tetrachloroethene         | 0.269 | 0.274 | -1.9   | 102   | 0.00     |
| 53 T | Toluene                   | 0.813 | 1.018 | -25.2  | 105   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.462 | 0.503 | -8.9   | 102   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 104   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.509 | 0.503 | 1.2    | 99    | 0.00     |
| 57 T | Chlorobenzene             | 0.924 | 0.938 | -1.5   | 101   | 0.00     |
| 58 T | Ethyl Benzene             | 1.288 | 1.615 | -25.4  | 102   | 0.00     |
| 59 T | m/p-Xylene                | 1.089 | 1.348 | -23.8  | 101   | -0.02    |
| 60 T | o-Xylene                  | 1.082 | 1.340 | -23.8  | 100   | 0.00     |
| 61 T | Styrene                   | 0.403 | 0.562 | -39.5# | 105   | 0.00     |
| 62   | Isopropylbenzene          | 1.577 | 1.916 | -21.5  | 100   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.782 | 0.764 | 2.3    | 99    | 0.00     |
| 64   | n-propylbenzene           | 0.409 | 0.496 | -21.3  | 100   | 0.00     |
| 65   | tert-Butylbenzene         | 1.347 | 1.670 | -24.0  | 99    | 0.00     |
| 66 T | Benzyl Chloride           | 0.125 | 0.151 | -20.8  | 105   | 0.00     |
| 67   | sec-Butylbenzene          | 2.050 | 2.455 | -19.8  | 100   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.782 | 0.803 | -2.7   | 100   | 0.00     |
| 69   | p-Isopropyltoluene        | 1.580 | 1.978 | -25.2  | 100   | 0.00     |
| 70   | n-Butylbenzene            | 1.661 | 2.109 | -27.0  | 99    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.170 | 1.465 | -25.2  | 102   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.267 | 1.621 | -27.9  | 100   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.071 | 1.331 | -24.3  | 99    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.258 | 1.521 | -20.9  | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.798 | 0.872 | -9.3   | 101   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.768 | 0.860 | -12.0  | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.805 | 0.842 | -4.6   | 98    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.514 | 0.494 | 3.9    | 98    | 0.00     |
| 79 T | Naphthalene               | 0.849 | 1.280 | -50.8# | 99    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.275 | 0.310 | -12.7  | 86    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.479 | 0.596 | -24.4  | 98    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042937.D  
Acq On : 17 Sep 2025 14:52  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL091725

Quant Time: Sep 18 03:00:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 102   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.792  | 2.1   | 99    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 10.019 | -0.2  | 104   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.392  | 6.1   | 96    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.980  | 10.2  | 99    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.444  | 5.6   | 95    | 0.00     |
| 7    | Chloroethane                | 10.000 | 10.026 | -0.3  | 101   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.905  | 1.0   | 100   | 0.00     |
| 9 T  | Propene                     | 10.000 | 10.919 | -9.2  | 114   | 0.00     |
| 10 T | Heptane                     | 10.000 | 11.859 | -18.6 | 102   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.878  | 1.2   | 99    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.735  | 2.7   | 98    | 0.00     |
| 13   | Ethanol                     | 10.000 | 7.003  | 30.0  | 84    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.634  | 3.7   | 99    | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.277  | 17.2  | 97    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.755  | 2.4   | 103   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.080 | -0.8  | 104   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 10.208 | -2.1  | 103   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.679  | 3.2   | 101   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.931  | 20.7  | 103   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.906  | 0.9   | 102   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.873  | 1.3   | 100   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.514 | -5.1  | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 10.097 | -1.0  | 101   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 10.840 | -8.4  | 102   | 0.00     |
| 26 T | Hexane                      | 10.000 | 11.633 | -16.3 | 108   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.897  | 1.0   | 102   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.968  | 0.3   | 102   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.059 | -0.6  | 101   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 12.237 | -22.4 | 105   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 11.188 | -11.9 | 109   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 10.012 | -0.1  | 103   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 103   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 10.594 | -5.9  | 105   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.398  | 6.0   | 100   | 0.00     |
| 36 T | Benzene                     | 10.000 | 10.911 | -9.1  | 107   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.107 | -1.1  | 104   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.395 | -3.9  | 106   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 10.208 | -2.1  | 104   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 11.567 | -15.7 | 102   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 11.951 | -19.5 | 109   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 10.181 | -1.8  | 104   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 12.345 | -23.5 | 108   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 11.419 | -14.2 | 102   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 12.012 | -20.1 | 109   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 11.827 | -18.3 | 110   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 10.115 | -1.2  | 100   | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 10.249 | -2.5  | 102   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091725\  
Data File : VL042937.D  
Acq On : 17 Sep 2025 14:52  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL091725

Quant Time: Sep 18 03:00:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 10.559 | -5.6  | 102   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 12.061 | -20.6 | 104   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 12.515 | -25.2 | 101   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 10.191 | -1.9  | 102   | 0.00     |
| 53 T | Toluene                   | 10.000 | 12.514 | -25.1 | 105   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.868 | -8.7  | 102   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 104   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.881  | 1.2   | 99    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 10.154 | -1.5  | 101   | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 12.539 | -25.4 | 102   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 24.769 | -23.8 | 101   | -0.02    |
| 60 T | o-Xylene                  | 10.000 | 12.376 | -23.8 | 100   | 0.00     |
| 61 T | Styrene                   | 10.000 | 10.047 | -0.5  | 105   | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 12.155 | -21.5 | 100   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 9.775  | 2.2   | 99    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 12.121 | -21.2 | 100   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 12.391 | -23.9 | 99    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 12.035 | -20.4 | 105   | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 11.975 | -19.7 | 100   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.278 | -2.8  | 100   | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 12.521 | -25.2 | 100   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.990  | 0.1   | 99    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 12.518 | -25.2 | 102   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.915  | 0.9   | 100   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 12.431 | -24.3 | 99    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 12.090 | -20.9 | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 10.925 | -9.3  | 101   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 11.199 | -12.0 | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 10.460 | -4.6  | 98    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 9.601  | 4.0   | 98    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 9.690  | 3.1   | 99    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 7.615  | 23.8  | 86    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.415  | 5.9   | 98    | 0.00     |

(#) = Out of Range

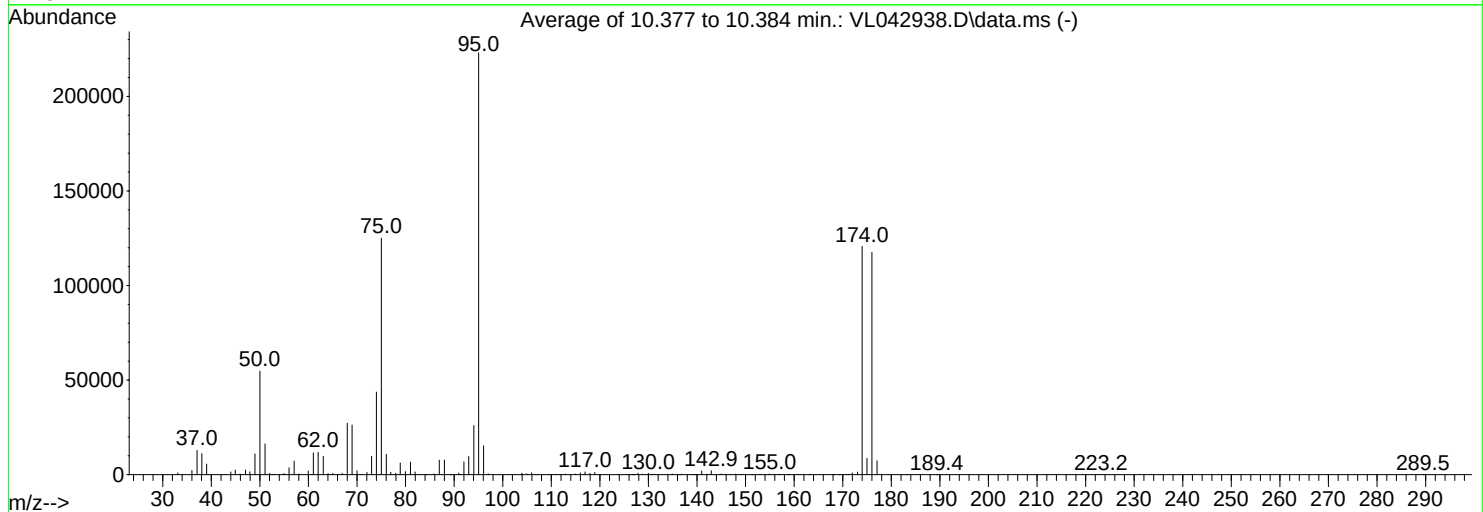
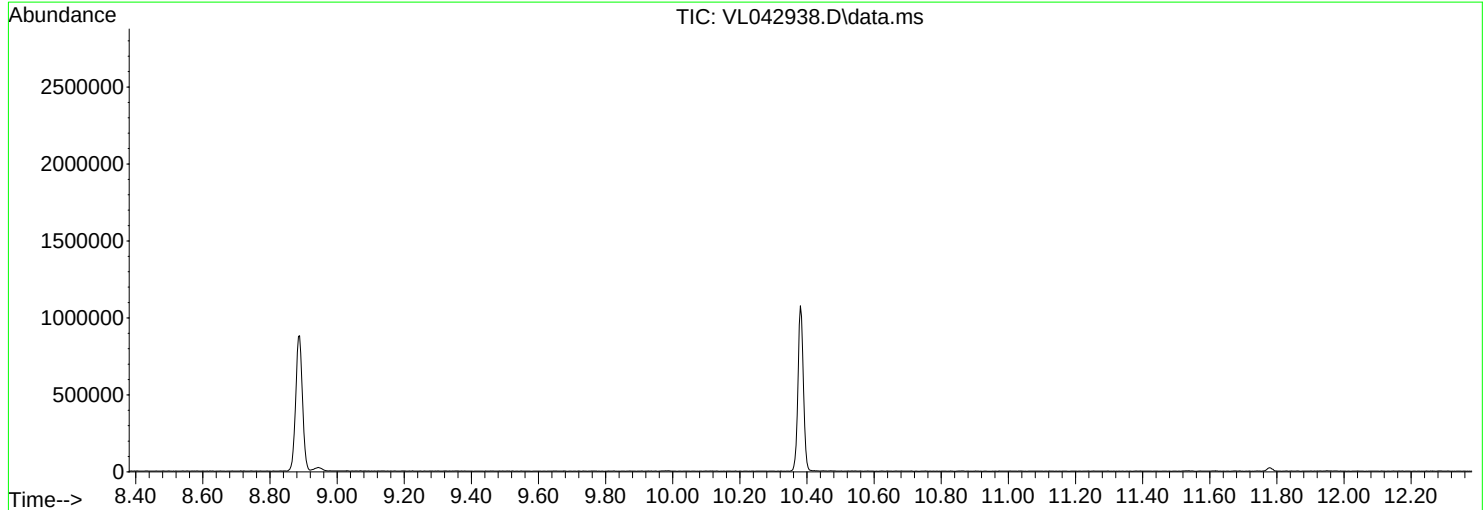
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042938.D  
Acq On : 18 Sep 2025 07:46  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Thu Sep 18 02:57:46 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3162

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 24.5  | 54715  | PASS      |
| 75     | 95      | 30     | 66     | 56.1  | 125027 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 223019 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 15247  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.1   | 1327   | PASS      |
| 174    | 95      | 50     | 120    | 54.1  | 120688 | PASS      |
| 175    | 174     | 4      | 9      | 7.2   | 8675   | PASS      |
| 176    | 174     | 93     | 101    | 97.4  | 117509 | PASS      |
| 177    | 176     | 5      | 9      | 6.3   | 7359   | PASS      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
 Data File : VL042939.D  
 Acq On : 18 Sep 2025 09:38  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.793  | 49    | 157654   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.968  | 114   | 416196   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.891  | 117   | 350205   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.383 | 95    | 287353   | 10.498   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 105.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 223802   | 9.938    | ppbv   | 98       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 244077   | 10.294   | ppbv   | 100      |
| 4) Chloromethane              | 1.534  | 50    | 85553    | 9.453    | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.583  | 62    | 77985    | 9.134    | ppbv   | 95       |
| 6) Bromomethane               | 1.670  | 94    | 28462    | 9.593    | ppbv   | 99       |
| 7) Chloroethane               | 1.706  | 64    | 31268    | 9.943    | ppbv   | 92       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 175256   | 9.809    | ppbv   | 100      |
| 9) Propene                    | 1.486  | 41    | 97529    | 11.264   | ppbv   | 98       |
| 10) Heptane                   | 4.988  | 43    | 256082   | 11.936   | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 212480   | 9.551    | ppbv   | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 163856   | 9.428    | ppbv   | 97       |
| 13) Ethanol                   | 1.725  | 45    | 6145     | 6.961    | ppbv   | 93       |
| 14) Bromoethene               | 1.784  | 108   | 57603    | 9.303    | ppbv   | 98       |
| 15) Acetone                   | 1.839  | 43    | 154852   | 7.997    | ppbv   | 98       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 79708    | 9.840    | ppbv   | 98       |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 188621   | 10.116   | ppbv   | 98       |
| 18) 1,1-Dichloroethene        | 2.039  | 96    | 73857    | 9.708    | ppbv   | 96       |
| 19) Isopropyl Alcohol         | 1.890  | 45    | 99740    | 9.607    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.065  | 84    | 66946    | 7.941    | ppbv   | 96       |
| 21) Allyl Chloride            | 2.101  | 41    | 128419   | 9.783    | ppbv   | 100      |
| 22) trans-1,2-Dichloroethene  | 2.343  | 96    | 84863    | 9.842    | ppbv   | 99       |
| 23) Vinyl Acetate             | 2.466  | 43    | 245936   | 10.931   | ppbv   | 98       |
| 24) 1,1-Dichloroethane        | 2.411  | 63    | 167836   | 9.854    | ppbv   | 98       |
| 25) Ethyl Acetate             | 2.842  | 43    | 459524   | 11.113   | ppbv   | 100      |
| 26) Hexane                    | 2.832  | 57    | 205167   | 11.562   | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.156  | 76    | 213658   | 9.762    | ppbv   | 98       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 93883    | 9.628    | ppbv   | 98       |
| 29) Chloroform                | 2.855  | 83    | 299404   | 10.322   | ppbv   | 99       |
| 30) Cyclohexane               | 3.865  | 84    | 167350   | 12.518   | ppbv   | 100      |
| 31) cis-1,2-Dichloroethene    | 2.725  | 61    | 194977   | 11.254   | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 278380   | 10.257   | ppbv   | 100      |
| 34) 2-Butanone                | 2.560  | 43    | 290768   | 10.777   | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 285378   | 9.646    | ppbv   | 94       |
| 36) Benzene                   | 3.664  | 78    | 399269   | 10.998   | ppbv   | 97       |
| 37) 1,2-Dichloroethane        | 3.224  | 62    | 224589   | 10.330   | ppbv   | 99       |
| 38) Trichloroethene           | 4.557  | 130   | 168064   | 10.227   | ppbv   | 95       |
| 39) 1,2-Dichloropropane       | 4.324  | 63    | 151824   | 10.348   | ppbv   | 96       |
| 40) 1,4-Dioxane               | 4.593  | 88    | 55603    | 10.678   | ppbv # | 96       |
| 41) Tetrahydrofuran           | 3.059  | 42    | 160226   | 12.000   | ppbv   | 99       |
| 42) Bromodichloromethane      | 4.499  | 83    | 320875   | 10.284   | ppbv   | 97       |
| 43) Methyl Methacrylate       | 4.891  | 69    | 148839   | 12.245   | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.651  | 57    | 694671   | 11.472   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.428  | 75    | 153654   | 11.989   | ppbv   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
 Data File : VL042939.D  
 Acq On : 18 Sep 2025 09:38  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025  
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.612  | 75   | 208635   | 11.808 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.596  | 97   | 157128   | 10.503 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.396  | 129  | 244295   | 10.426 | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 196187   | 10.728 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 392734   | 12.175 | ppbv   | 100      |
| 51) 2-Hexanone                | 7.444  | 43   | 306892   | 12.811 | ppbv   | 100      |
| 52) Tetrachloroethene         | 8.234  | 164  | 116819   | 10.435 | ppbv   | 94       |
| 53) Toluene                   | 6.946  | 91   | 426986   | 12.613 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 211227   | 10.975 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 180285   | 10.105 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.933  | 112  | 338397   | 10.455 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.364  | 91   | 581778   | 12.894 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.561  | 91   | 971576m  | 25.483 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 491310   | 12.961 | ppbv   | 99       |
| 61) Styrene                   | 9.878  | 104  | 200245   | 10.204 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.548 | 105  | 691261   | 12.519 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 275929   | 10.076 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.995 | 120  | 178404   | 12.461 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 607057   | 12.865 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.623 | 91   | 56239    | 12.827 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 896962   | 12.495 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 726503   | 13.132 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.286 | 91   | 766822   | 10.360 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 522845   | 12.761 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 585141   | 10.212 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 480708   | 12.818 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 555055   | 12.594 | ppbv # | 85       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 315272   | 11.284 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 314779   | 11.710 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 310827   | 11.026 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.889 | 225  | 176944   | 9.828  | ppbv   | 99       |
| 79) Naphthalene               | 13.520 | 128  | 452592   | 9.778  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.465 | 142  | 115977   | 8.078  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 221727   | 9.972  | ppbv   | 99       |

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042939.D  
Acq On : 18 Sep 2025 09:38  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 19 01:21:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 98    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.428 | 1.420  | 0.6   | 96    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.504 | 1.548  | -2.9  | 102   | 0.00     |
| 4    | Chloromethane               | 0.574 | 0.543  | 5.4   | 93    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.542 | 0.495  | 8.7   | 97    | 0.00     |
| 6 T  | Bromomethane                | 0.188 | 0.181  | 3.7   | 93    | 0.00     |
| 7    | Chloroethane                | 0.199 | 0.198  | 0.5   | 97    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.133 | 1.112  | 1.9   | 95    | 0.00     |
| 9 T  | Propene                     | 0.549 | 0.619  | -12.8 | 113   | 0.00     |
| 10 T | Heptane                     | 1.361 | 1.624  | -19.3 | 99    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.411 | 1.348  | 4.5   | 93    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.102 | 1.039  | 5.7   | 92    | 0.00     |
| 13   | Ethanol                     | 0.056 | 0.039# | 30.4# | 81    | 0.00     |
| 14 T | Bromoethene                 | 0.393 | 0.365  | 7.1   | 92    | 0.00     |
| 15 T | Acetone                     | 1.228 | 0.982  | 20.0  | 90    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.514 | 0.506  | 1.6   | 100   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.183 | 1.196  | -1.1  | 100   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.483 | 0.468  | 3.1   | 94    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.659 | 0.633  | 3.9   | 96    | 0.00     |
| 20 T | Methylene Chloride          | 0.535 | 0.425  | 20.6  | 99    | 0.00     |
| 21 T | Allyl Chloride              | 0.833 | 0.815  | 2.2   | 97    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.547 | 0.538  | 1.6   | 96    | 0.00     |
| 23 T | Vinyl Acetate               | 1.427 | 1.560  | -9.3  | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.080 | 1.065  | 1.4   | 95    | 0.00     |
| 25 T | Ethyl Acetate               | 2.623 | 2.915  | -11.1 | 101   | 0.00     |
| 26 T | Hexane                      | 1.126 | 1.301  | -15.5 | 103   | 0.00     |
| 27 T | Carbon Disulfide            | 1.388 | 1.355  | 2.4   | 97    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.619 | 0.596  | 3.7   | 95    | 0.00     |
| 29 T | Chloroform                  | 1.840 | 1.899  | -3.2  | 100   | 0.00     |
| 30 T | Cyclohexane                 | 0.848 | 1.062  | -25.2 | 103   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.099 | 1.237  | -12.6 | 106   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.721 | 1.766  | -2.6  | 101   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 100   | 0.00     |
| 34 T | 2-Butanone                  | 0.648 | 0.699  | -7.9  | 104   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.711 | 0.686  | 3.5   | 99    | 0.00     |
| 36 T | Benzene                     | 0.872 | 0.959  | -10.0 | 104   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.522 | 0.540  | -3.4  | 103   | 0.00     |
| 38 T | Trichloroethene             | 0.395 | 0.404  | -2.3  | 101   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.353 | 0.365  | -3.4  | 102   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.125 | 0.134  | -7.2  | 91    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.321 | 0.385  | -19.9 | 106   | 0.00     |
| 42 T | Bromodichloromethane        | 0.750 | 0.771  | -2.8  | 101   | 0.00     |
| 43   | Methyl Methacrylate         | 0.292 | 0.358  | -22.6 | 104   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.455 | 1.669  | -14.7 | 99    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.308 | 0.369  | -19.8 | 105   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.425 | 0.501  | -17.9 | 106   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.359 | 0.378  | -5.3  | 101   | 0.00     |
| 48 T | Dibromochloromethane        | 0.563 | 0.587  | -4.3  | 100   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042939.D  
Acq On : 18 Sep 2025 09:38  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 19 01:21:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 49 T | Bromoform                 | 0.439 | 0.471 | -7.3   | 100   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.775 | 0.944 | -21.8  | 101   | 0.00     |
| 51 T | 2-Hexanone                | 0.576 | 0.737 | -28.0  | 100   | 0.00     |
| 52 T | Tetrachloroethene         | 0.269 | 0.281 | -4.5   | 101   | 0.00     |
| 53 T | Toluene                   | 0.813 | 1.026 | -26.2  | 103   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.462 | 0.508 | -10.0  | 100   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.509 | 0.515 | -1.2   | 97    | 0.00     |
| 57 T | Chlorobenzene             | 0.924 | 0.966 | -4.5   | 99    | 0.00     |
| 58 T | Ethyl Benzene             | 1.288 | 1.661 | -29.0  | 100   | 0.00     |
| 59 T | m/p-Xylene                | 1.089 | 1.387 | -27.4  | 99    | 0.00     |
| 60 T | o-Xylene                  | 1.082 | 1.403 | -29.7  | 99    | 0.00     |
| 61 T | Styrene                   | 0.403 | 0.572 | -41.9# | 102   | 0.00     |
| 62   | Isopropylbenzene          | 1.577 | 1.974 | -25.2  | 98    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.782 | 0.788 | -0.8   | 97    | 0.00     |
| 64   | n-propylbenzene           | 0.409 | 0.509 | -24.4  | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 1.347 | 1.733 | -28.7  | 98    | 0.00     |
| 66 T | Benzyl Chloride           | 0.125 | 0.161 | -28.8  | 106   | 0.00     |
| 67   | sec-Butylbenzene          | 2.050 | 2.561 | -24.9  | 99    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.782 | 0.821 | -5.0   | 97    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.580 | 2.075 | -31.3# | 100   | 0.00     |
| 70   | n-Butylbenzene            | 1.661 | 2.190 | -31.8# | 97    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.170 | 1.493 | -27.6  | 98    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.267 | 1.671 | -31.9# | 98    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.071 | 1.373 | -28.2  | 97    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.258 | 1.585 | -26.0  | 98    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.798 | 0.900 | -12.8  | 99    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.768 | 0.899 | -17.1  | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.805 | 0.888 | -10.3  | 98    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.514 | 0.505 | 1.8    | 96    | 0.00     |
| 79 T | Naphthalene               | 0.849 | 1.292 | -52.2# | 95    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.275 | 0.331 | -20.4  | 87    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.479 | 0.633 | -32.2# | 99    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042939.D  
Acq On : 18 Sep 2025 09:38  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 19 01:21:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 98    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.938  | 0.6   | 96    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 10.294 | -2.9  | 102   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.453  | 5.5   | 93    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.134  | 8.7   | 97    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.593  | 4.1   | 93    | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.943  | 0.6   | 97    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.809  | 1.9   | 95    | 0.00     |
| 9 T  | Propene                     | 10.000 | 11.264 | -12.6 | 113   | 0.00     |
| 10 T | Heptane                     | 10.000 | 11.936 | -19.4 | 99    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.551  | 4.5   | 93    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.428  | 5.7   | 92    | 0.00     |
| 13   | Ethanol                     | 10.000 | 6.961  | 30.4# | 81    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.303  | 7.0   | 92    | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.997  | 20.0  | 90    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.840  | 1.6   | 100   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.116 | -1.2  | 100   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.708  | 2.9   | 94    | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.607  | 3.9   | 96    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.941  | 20.6  | 99    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.783  | 2.2   | 97    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.842  | 1.6   | 96    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.931 | -9.3  | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.854  | 1.5   | 95    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 11.113 | -11.1 | 101   | 0.00     |
| 26 T | Hexane                      | 10.000 | 11.562 | -15.6 | 103   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.762  | 2.4   | 97    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.628  | 3.7   | 95    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.322 | -3.2  | 100   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 12.518 | -25.2 | 103   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 11.254 | -12.5 | 106   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 10.257 | -2.6  | 101   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 100   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 10.777 | -7.8  | 104   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.646  | 3.5   | 99    | 0.00     |
| 36 T | Benzene                     | 10.000 | 10.998 | -10.0 | 104   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.330 | -3.3  | 103   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.227 | -2.3  | 101   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 10.348 | -3.5  | 102   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 10.678 | -6.8  | 91    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 12.000 | -20.0 | 106   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 10.284 | -2.8  | 101   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 12.245 | -22.4 | 104   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 11.472 | -14.7 | 99    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.989 | -19.9 | 105   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 11.808 | -18.1 | 106   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 10.503 | -5.0  | 101   | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 10.426 | -4.3  | 100   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042939.D  
Acq On : 18 Sep 2025 09:38  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 19 01:21:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 10.728 | -7.3   | 100   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 12.175 | -21.8  | 101   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 12.811 | -28.1  | 100   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 10.435 | -4.4   | 101   | 0.00     |
| 53 T | Toluene                   | 10.000 | 12.613 | -26.1  | 103   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.975 | -9.7   | 100   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 99    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 10.105 | -1.1   | 97    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 10.455 | -4.6   | 99    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 12.894 | -28.9  | 100   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 25.483 | -27.4  | 99    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 12.961 | -29.6  | 99    | 0.00     |
| 61 T | Styrene                   | 10.000 | 10.204 | -2.0   | 102   | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 12.519 | -25.2  | 98    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 10.076 | -0.8   | 97    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 12.461 | -24.6  | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 12.865 | -28.7  | 98    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 12.827 | -28.3  | 106   | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 12.495 | -24.9  | 99    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.498 | -5.0   | 97    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 13.132 | -31.3# | 100   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 10.360 | -3.6   | 97    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 12.761 | -27.6  | 98    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.212 | -2.1   | 98    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 12.818 | -28.2  | 97    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 12.594 | -25.9  | 98    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 11.284 | -12.8  | 99    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 11.710 | -17.1  | 98    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 11.026 | -10.3  | 98    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 9.828  | 1.7    | 96    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 9.778  | 2.2    | 95    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 8.078  | 19.2   | 87    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.972  | 0.3    | 99    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042940.D  
Acq On : 18 Sep 2025 11:01  
Operator : SY/MD  
Sample : VL0918ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0918ABL01

Quant Time: Sep 19 01:22:46 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.794 | 49   | 148160   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 363124   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 306480   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 229711   | 9.589    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 95.900% |

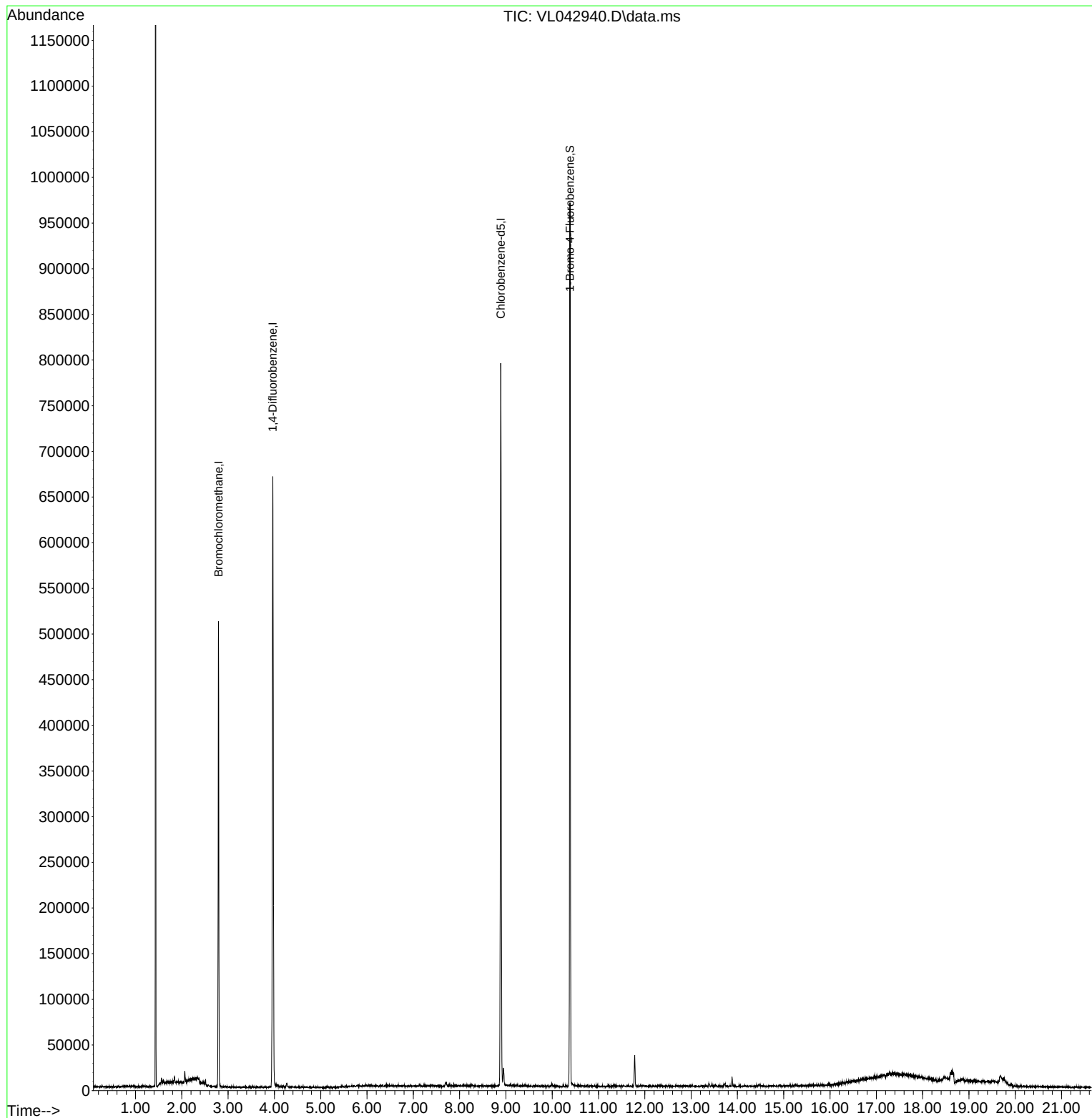
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042940.D  
Acq On : 18 Sep 2025 11:01  
Operator : SY/MD  
Sample : VL0918ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0918ABL01

Quant Time: Sep 19 01:22:46 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042942.D  
Acq On : 18 Sep 2025 12:14  
Operator : SY/MD  
Sample : QC091125 CAN 10060  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC091125 CAN 10060

Quant Time: Sep 19 01:23:58 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 151587   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 376783   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 311904   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 236215   | 9.689    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.900% |

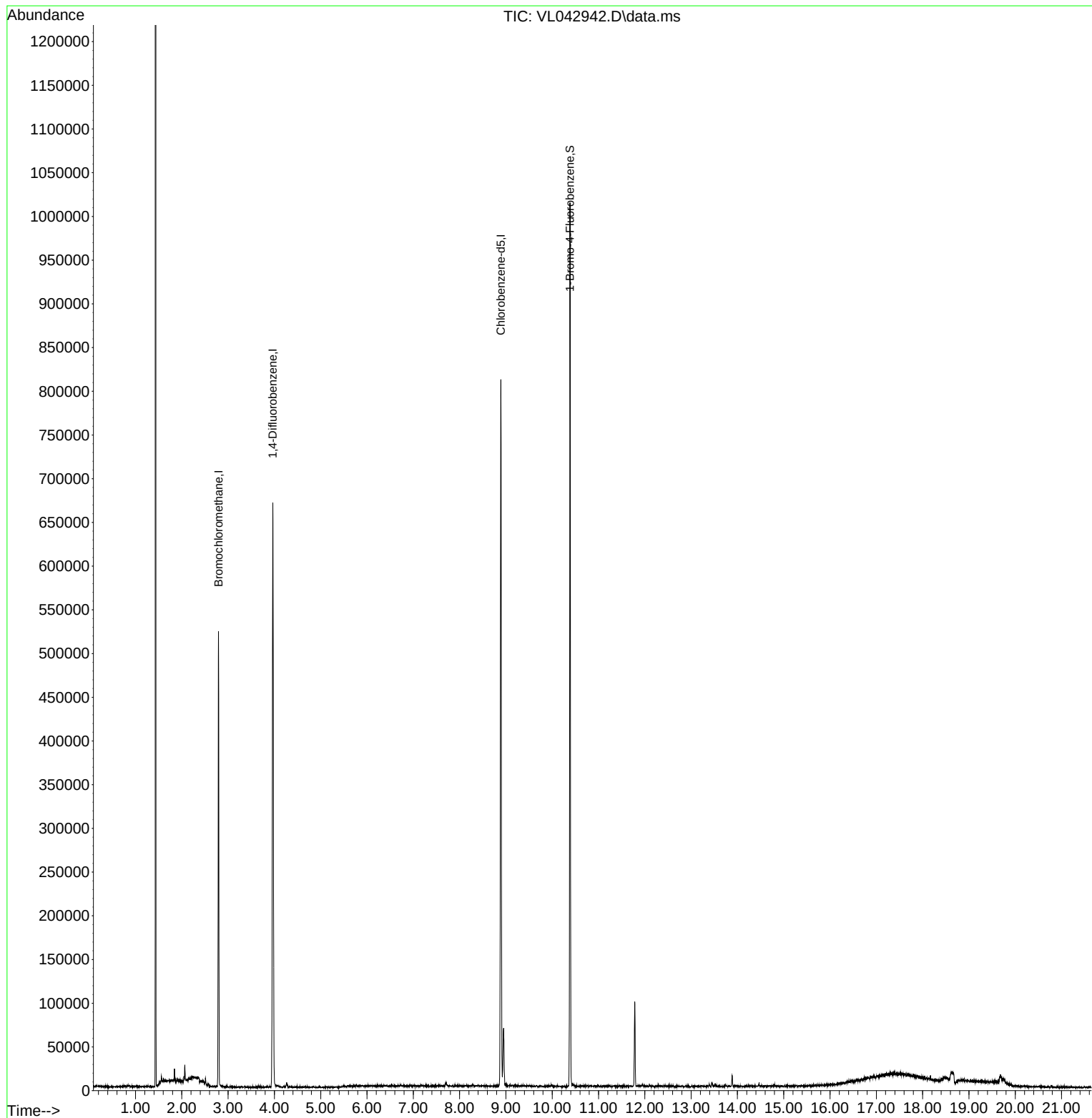
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
Data File : VL042942.D  
Acq On : 18 Sep 2025 12:14  
Operator : SY/MD  
Sample : QC091125 CAN 10060  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC091125 CAN 10060

Quant Time: Sep 19 01:23:58 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Sep 18 02:57:46 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
 Data File : VL042943.D  
 Acq On : 18 Sep 2025 12:49  
 Operator : SY/MD  
 Sample : VL0918ABS02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0918ABS02

Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 157147   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 398112   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.889 | 117  | 342230   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.381 95 281987 10.542 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.400%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 221614 | 9.873  | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 237059 | 10.031 | ppbv   | 100    |
| 4) Chloromethane              | 1.535 | 50  | 88001  | 9.755  | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 75659  | 8.890  | ppbv   | 97     |
| 6) Bromomethane               | 1.668 | 94  | 28772  | 9.729  | ppbv   | 93     |
| 7) Chloroethane               | 1.706 | 64  | 30707  | 9.796  | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 173736 | 9.755  | ppbv   | 99     |
| 9) Propene                    | 1.483 | 41  | 87615  | 10.152 | ppbv   | 99     |
| 10) Heptane                   | 4.985 | 43  | 247851 | 11.590 | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 214280 | 9.663  | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 167632 | 9.676  | ppbv   | 100    |
| 13) Ethanol                   | 1.723 | 45  | 7358   | 8.362  | ppbv   | 95     |
| 14) Bromoethene               | 1.784 | 108 | 58670  | 9.506  | ppbv   | 98     |
| 15) Acetone                   | 1.836 | 43  | 164049 | 8.499  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 75881  | 9.398  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 179502 | 9.658  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.037 | 96  | 75279  | 9.927  | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 99744  | 9.638  | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 65464  | 7.790  | ppbv   | 97     |
| 21) Allyl Chloride            | 2.098 | 41  | 125866 | 9.620  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 84718  | 9.856  | ppbv   | 92     |
| 23) Vinyl Acetate             | 2.464 | 43  | 234952 | 10.476 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 167118 | 9.843  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.836 | 43  | 445635 | 10.812 | ppbv   | 100    |
| 26) Hexane                    | 2.830 | 57  | 196952 | 11.134 | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.153 | 76  | 213020 | 9.764  | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 92298  | 9.496  | ppbv   | 99     |
| 29) Chloroform                | 2.849 | 83  | 291292 | 10.075 | ppbv   | 96     |
| 30) Cyclohexane               | 3.862 | 84  | 156833 | 11.769 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 180628 | 10.459 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 268252 | 9.916  | ppbv   | 99     |
| 34) 2-Butanone                | 2.558 | 43  | 275491 | 10.675 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.765 | 117 | 278532 | 9.842  | ppbv   | 99     |
| 36) Benzene                   | 3.661 | 78  | 375346 | 10.809 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 218301 | 10.496 | ppbv   | 99     |
| 38) Trichloroethene           | 4.551 | 130 | 165317 | 10.517 | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 147865 | 10.536 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.584 | 88  | 57905  | 11.625 | ppbv # | 96     |
| 41) Tetrahydrofuran           | 3.056 | 42  | 150133 | 11.755 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.493 | 83  | 311531 | 10.438 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.885 | 69  | 141275 | 12.151 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 676730 | 11.684 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.419 | 75  | 143251 | 11.685 | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091825\  
 Data File : VL042943.D  
 Acq On : 18 Sep 2025 12:49  
 Operator : SY/MD  
 Sample : VL0918ABS02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0918ABS02

Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.607  | 75   | 192317   | 11.379 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 147521   | 10.309 | ppbv  | 95       |
| 48) Dibromochloromethane      | 7.390  | 129  | 236633   | 10.558 | ppbv  | 99       |
| 49) Bromoform                 | 9.487  | 173  | 190569   | 10.894 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 383141   | 12.417 | ppbv  | 100      |
| 51) 2-Hexanone                | 7.442  | 43   | 301477   | 13.156 | ppbv  | 99       |
| 52) Tetrachloroethene         | 8.231  | 164  | 111470   | 10.410 | ppbv  | 95       |
| 53) Toluene                   | 6.940  | 91   | 405706   | 12.529 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 7.659  | 107  | 203289   | 11.043 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 180415   | 10.348 | ppbv  | 99       |
| 57) Chlorobenzene             | 8.927  | 112  | 333331   | 10.538 | ppbv  | 98       |
| 58) Ethyl Benzene             | 9.361  | 91   | 575762   | 13.059 | ppbv  | 99       |
| 59) m/p-Xylene                | 9.555  | 91   | 960501m  | 25.779 | ppbv  |          |
| 60) o-Xylene                  | 9.970  | 91   | 482682   | 13.030 | ppbv  | 99       |
| 61) Styrene                   | 9.876  | 104  | 188516   | 9.850  | ppbv  | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 675382   | 12.516 | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 277312   | 10.363 | ppbv  | 98       |
| 64) n-propylbenzene           | 10.992 | 120  | 175243   | 12.526 | ppbv  | 99       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 602619   | 13.069 | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.617 | 91   | 53684    | 12.529 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 880638   | 12.553 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 706403   | 13.066 | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 758319   | 10.480 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 513816   | 12.833 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 573658   | 10.243 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 476027   | 12.989 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 547542   | 12.713 | ppbv  | 92       |
| 75) 1,3-Dichlorobenzene       | 11.611 | 146  | 311816   | 11.420 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 307014   | 11.688 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 305054   | 11.073 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 179681   | 10.213 | ppbv  | 100      |
| 79) Naphthalene               | 13.514 | 128  | 461409   | 10.182 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 127799   | 9.012  | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 219805   | 10.109 | ppbv  | 99       |

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

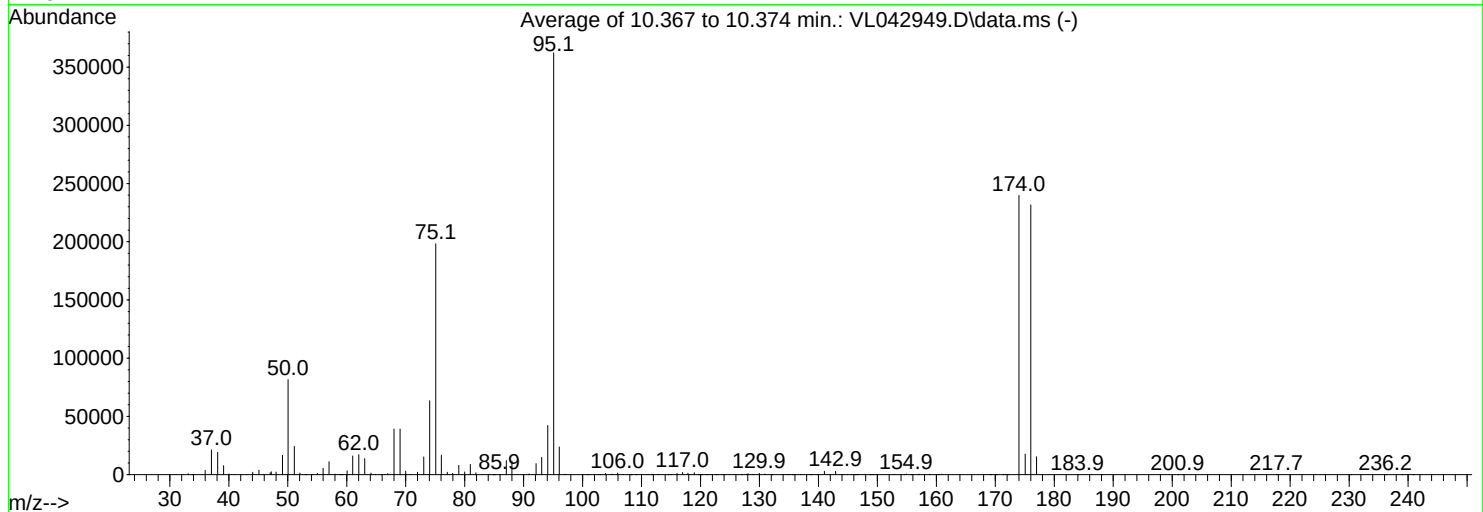
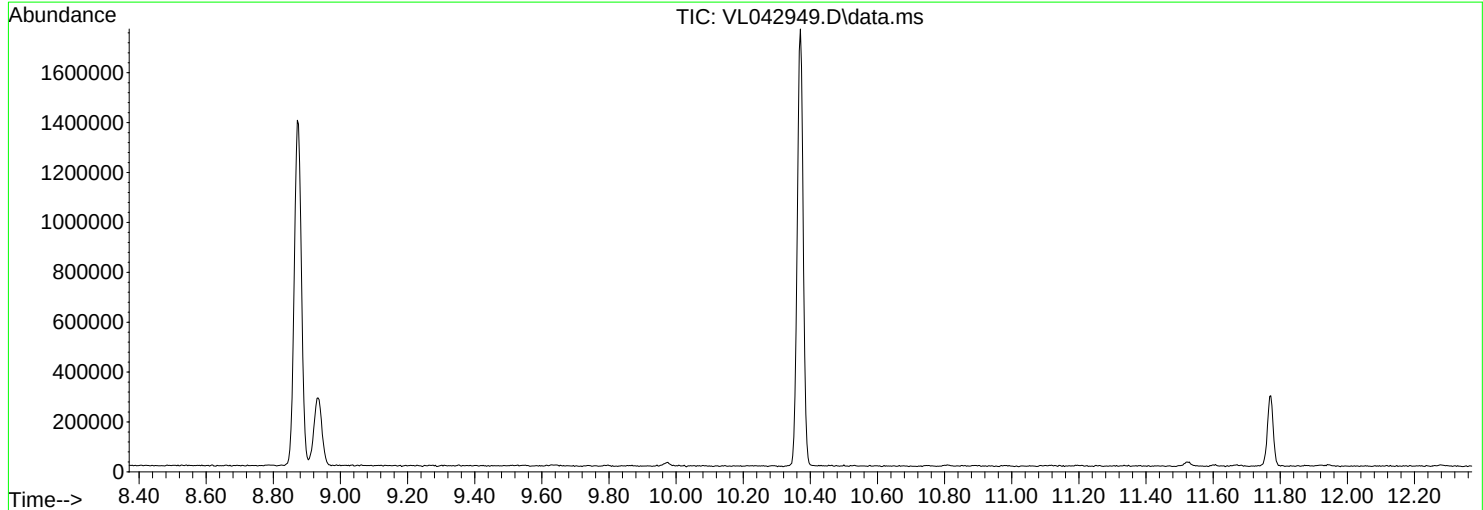


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042949.D  
Acq On : 22 Sep 2025 08:55  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3156

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.5  | 81605  | PASS      |
| 75     | 95      | 30     | 66     | 54.7  | 198315 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 362228 | PASS      |
| 96     | 95      | 5      | 9      | 6.6   | 23817  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 174    | 95      | 50     | 120    | 66.2  | 239765 | PASS      |
| 175    | 174     | 4      | 9      | 7.4   | 17693  | PASS      |
| 176    | 174     | 93     | 101    | 96.6  | 231701 | PASS      |
| 177    | 176     | 5      | 9      | 6.6   | 15367  | PASS      |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL092225AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Last Update : Tue Sep 23 02:39:16 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042955.D 0.1 =VL042954.D 0.5 =VL042953.D 1 =VL042952.D 2 =VL042951.D 10 =VL042950.D 15 =VL042956.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.391 | 1.452 | 1.401 | 1.248 | 1.232 | 1.345 | 7.33  |
| 3) Chlorodifluoro...      |                |       | 1.782 | 1.821 | 1.710 | 1.574 | 1.494 | 1.676 | 8.27  |
| 4) Chloromethane          |                |       | 0.693 | 0.622 | 0.624 | 0.560 | 0.545 | 0.609 | 9.66  |
| 5) T Vinyl Chloride       | 0.729          | 0.562 | 0.529 | 0.567 | 0.524 | 0.470 | 0.472 | 0.550 | 15.95 |
| 6) T Bromomethane         |                |       | 0.224 | 0.215 | 0.200 | 0.166 | 0.167 | 0.194 | 13.76 |
| 7) Chloroethane           |                |       | 0.234 | 0.238 | 0.212 | 0.196 | 0.189 | 0.214 | 10.33 |
| 8) T Dichlorotetra...     |                |       | 1.227 | 1.239 | 1.180 | 1.047 | 1.047 | 1.148 | 8.24  |
| 9) T Propene              |                |       | 0.784 | 0.787 | 0.762 | 0.684 | 0.631 | 0.729 | 9.47  |
| 10) T Heptane             |                |       | 2.102 | 2.060 | 1.961 | 1.870 | 1.738 | 1.946 | 7.57  |
| 11) T Trichlorofluor...   |                |       | 1.354 | 1.376 | 1.346 | 1.199 | 1.210 | 1.297 | 6.58  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.130 | 1.117 | 1.068 | 0.963 | 0.973 | 1.050 | 7.48  |
| 13) Ethanol               |                |       | 0.076 | 0.090 | 0.088 | 0.053 | 0.047 | 0.071 | 27.75 |
| 14) T Bromoethene         |                |       | 0.430 | 0.417 | 0.415 | 0.362 | 0.362 | 0.397 | 8.23  |
| 15) T Acetone             |                |       | 1.490 | 1.552 | 1.475 | 0.993 | 1.002 | 1.302 | 21.48 |
| 16) T 1,3-Butadiene       |                |       | 0.751 | 0.675 | 0.607 | 0.520 | 0.519 | 0.614 | 16.41 |
| 17) tert-Butyl alc...     |                |       | 1.587 | 1.544 | 1.398 | 1.351 | 1.262 | 1.429 | 9.47  |
| 18) T 1,1-Dichloroet...   |                |       | 0.549 | 0.503 | 0.485 | 0.446 | 0.447 | 0.486 | 8.86  |
| 19) T Isopropyl Alcohol   |                |       | 0.898 | 0.813 | 0.818 | 0.718 | 0.667 | 0.783 | 11.61 |
| 20) T Methylene Chlo...   |                |       | 0.832 | 0.617 | 0.510 | 0.388 | 0.380 | 0.545 | 34.40 |
| 21) T Allyl Chloride      |                |       | 0.904 | 0.971 | 0.966 | 0.857 | 0.837 | 0.907 | 6.72  |
| 22) T trans-1,2-Dich...   |                |       | 0.589 | 0.612 | 0.556 | 0.507 | 0.499 | 0.552 | 8.98  |
| 23) T Vinyl Acetate       |                |       | 2.208 | 1.897 | 1.888 | 1.594 | 1.716 | 1.861 | 12.45 |
| 24) T 1,1-Dichloroet...   |                |       | 1.147 | 1.172 | 1.109 | 0.993 | 0.996 | 1.083 | 7.76  |
| 25) T Ethyl Acetate       |                |       | 3.405 | 3.494 | 3.443 | 3.153 | 2.966 | 3.292 | 6.83  |
| 26) T Hexane              |                |       | 1.621 | 1.614 | 1.553 | 1.398 | 1.317 | 1.501 | 9.08  |
| 27) T Carbon Disulfide    |                |       | 1.395 | 1.436 | 1.396 | 1.271 | 1.232 | 1.346 | 6.59  |
| 28) T Methyl tert-Bu...   |                |       | 0.953 | 0.773 | 0.742 | 0.638 | 0.794 | 0.780 | 14.61 |
| 29) T Chloroform          |                |       | 2.078 | 2.042 | 2.038 | 1.848 | 1.804 | 1.962 | 6.42  |
| 30) T Cyclohexane         |                |       | 1.312 | 1.333 | 1.280 | 1.193 | 1.154 | 1.255 | 6.19  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.443 | 1.464 | 1.465 | 1.357 | 1.300 | 1.406 | 5.26  |
| 32) T 1,1,1-Trichlor...   | 2.724          | 2.087 | 2.017 | 2.164 | 2.071 | 1.902 | 1.868 | 2.119 | 13.51 |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.744 | 0.731 | 0.741 | 0.655 | 0.633 | 0.701 | 7.52  |
| 35) T Carbon Tetrach...   | 0.734          | 0.616 | 0.660 | 0.665 | 0.657 | 0.610 | 0.617 | 0.651 | 6.63  |
| 36) T Benzene             |                |       | 0.974 | 0.970 | 0.972 | 0.898 | 0.881 | 0.939 | 4.84  |
| 37) T 1,2-Dichloroet...   |                |       | 0.502 | 0.517 | 0.507 | 0.470 | 0.473 | 0.494 | 4.28  |
| 38) T Trichloroethene     | 0.527          | 0.495 | 0.481 | 0.467 | 0.452 | 0.426 | 0.419 | 0.467 | 8.20  |
| 39) T 1,2-Dichloropr...   |                |       | 0.344 | 0.361 | 0.356 | 0.327 | 0.325 | 0.343 | 4.85  |

|                                                  |   |                   |                |       |       |       |       |       |       |       |       |
|--------------------------------------------------|---|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |   |                   |                |       |       |       |       |       |       |       |       |
| Method File : VL092225AIR.M                      |   |                   |                |       |       |       |       |       |       |       |       |
| 40)                                              | T | 1,4-Dioxane       |                |       | 0.173 | 0.172 | 0.163 | 0.148 | 0.141 | 0.159 | 8.95  |
| 41)                                              | T | Tetrahydrofuran   |                |       | 0.427 | 0.407 | 0.419 | 0.389 | 0.372 | 0.403 | 5.57  |
| 42)                                              | T | Bromodichlorom... |                |       | 0.689 | 0.699 | 0.702 | 0.681 | 0.667 | 0.688 | 2.07  |
| 43)                                              |   | Methyl Methacr... |                |       | 0.406 | 0.396 | 0.396 | 0.368 | 0.355 | 0.384 | 5.61  |
| 44)                                              | T | 2,2,4-Trimethy... |                |       | 1.705 | 1.660 | 1.690 | 1.563 | 1.492 | 1.622 | 5.64  |
| 45)                                              | T | t-1,3-Dichloro... |                |       | 0.403 | 0.414 | 0.421 | 0.409 | 0.402 | 0.410 | 1.99  |
| 46)                                              | T | cis-1,3-Dichlo... |                |       | 0.522 | 0.528 | 0.537 | 0.523 | 0.501 | 0.522 | 2.55  |
| 47)                                              | T | 1,1,2-Trichlor... |                |       | 0.382 | 0.377 | 0.371 | 0.344 | 0.336 | 0.362 | 5.70  |
| 48)                                              | T | Dibromochlorom... |                |       | 0.572 | 0.586 | 0.600 | 0.571 | 0.568 | 0.580 | 2.36  |
| 49)                                              | T | Bromoform         |                |       | 0.477 | 0.507 | 0.534 | 0.508 | 0.495 | 0.504 | 4.18  |
| 50)                                              | T | 4-Methyl-2-Pen... |                |       | 0.928 | 0.949 | 0.988 | 0.934 | 0.897 | 0.939 | 3.51  |
| 51)                                              | T | 2-Hexanone        |                |       | 0.719 | 0.774 | 0.769 | 0.751 | 0.730 | 0.749 | 3.19  |
| 52)                                              | T | Tetrachloroethene | 0.436          | 0.404 | 0.356 | 0.355 | 0.351 | 0.325 | 0.315 | 0.363 | 11.76 |
| 53)                                              | T | Toluene           |                |       | 1.155 | 1.137 | 1.156 | 1.078 | 1.031 | 1.111 | 4.95  |
| 54)                                              | T | 1,2-Dibromoethane |                | 0.520 | 0.520 | 0.520 | 0.525 | 0.490 | 0.485 | 0.510 | 3.47  |
|                                                  |   |                   |                |       |       |       |       |       |       |       |       |
| 55)                                              | I | Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |       |       |
| 56)                                              |   | 1,1,1,2-Tetrac... |                |       | 0.497 | 0.486 | 0.505 | 0.458 | 0.447 | 0.479 | 5.28  |
| 57)                                              | T | Chlorobenzene     |                |       | 0.968 | 0.978 | 0.944 | 0.853 | 0.822 | 0.913 | 7.75  |
| 58)                                              | T | Ethyl Benzene     |                |       | 1.657 | 1.715 | 1.737 | 1.570 | 1.531 | 1.642 | 5.45  |
| 59)                                              | T | m/p-Xylene        |                |       | 1.332 | 1.365 | 1.361 | 1.225 | 1.190 | 1.295 | 6.29  |
| 60)                                              | T | o-Xylene          |                |       | 1.335 | 1.379 | 1.359 | 1.221 | 1.176 | 1.294 | 6.96  |
| 61)                                              | T | Styrene           |                |       | 0.605 | 0.619 | 0.648 | 0.602 | 0.585 | 0.612 | 3.89  |
| 62)                                              |   | Isopropylbenzene  |                |       | 2.010 | 2.059 | 2.028 | 1.803 | 1.744 | 1.929 | 7.49  |
| 63)                                              | T | 1,1,2,2-Tetrac... | 0.806          | 0.722 | 0.688 | 0.675 | 0.673 | 0.610 | 0.586 | 0.680 | 10.66 |
| 64)                                              |   | n-propylbenzene   |                |       | 0.531 | 0.529 | 0.523 | 0.473 | 0.463 | 0.504 | 6.51  |
| 65)                                              |   | tert-Butylbenzene |                |       | 1.836 | 1.839 | 1.842 | 1.557 | 1.503 | 1.715 | 9.91  |
| 66)                                              | T | Benzyl Chloride   |                |       | 0.170 | 0.173 | 0.196 | 0.195 | 0.165 | 0.180 | 8.14  |
| 67)                                              |   | sec-Butylbenzene  |                |       | 2.508 | 2.559 | 2.579 | 2.191 | 2.115 | 2.390 | 9.19  |
| 68)                                              | S | 1-Bromo-4-Fluo... | 0.736          | 0.738 | 0.749 | 0.743 | 0.747 | 0.763 | 0.750 | 0.746 | 1.20  |
| 69)                                              |   | p-Isopropyltol... |                |       | 2.105 | 2.168 | 2.179 | 1.856 | 1.788 | 2.019 | 9.11  |
| 70)                                              |   | n-Butylbenzene    |                |       | 1.929 | 2.108 | 2.136 | 1.881 | 1.803 | 1.971 | 7.36  |
| 71)                                              |   | 2-Chlorotoluene   |                |       | 1.543 | 1.504 | 1.528 | 1.373 | 1.333 | 1.456 | 6.61  |
| 72)                                              | T | 4-Ethyltoluene    |                |       | 1.715 | 1.686 | 1.703 | 1.523 | 1.476 | 1.621 | 6.92  |
| 73)                                              | T | 1,3,5-Trimethy... |                |       | 1.333 | 1.346 | 1.399 | 1.263 | 1.231 | 1.314 | 5.12  |
| 74)                                              | T | 1,2,4-Trimethy... |                |       | 1.534 | 1.522 | 1.558 | 1.349 | 1.294 | 1.451 | 8.34  |
| 75)                                              | T | 1,3-Dichlorobe... |                |       | 0.918 | 0.954 | 0.956 | 0.845 | 0.827 | 0.900 | 6.72  |
| 76)                                              | T | 1,4-Dichlorobe... |                |       | 0.922 | 0.914 | 0.959 | 0.845 | 0.829 | 0.894 | 6.12  |
| 77)                                              | T | 1,2-Dichlorobe... |                |       | 0.874 | 0.914 | 0.918 | 0.796 | 0.780 | 0.856 | 7.61  |
| 78)                                              | T | Hexachloro-1,3... |                |       | 0.755 | 0.742 | 0.728 | 0.575 | 0.549 | 0.670 | 14.79 |
| 79)                                              | T | Naphthalene       |                | 1.093 | 1.102 | 1.320 | 1.474 | 1.373 | 1.339 | 1.283 | 11.96 |
| 80)                                              | T | Naphthalene,2-... |                |       | 0.384 | 0.365 | 0.428 | 0.402 | 0.404 | 0.396 | 5.94  |
| 81)                                              | T | 1,2,4-Trichlor... |                |       | 0.557 | 0.691 | 0.777 | 0.718 | 0.689 | 0.686 | 11.73 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042950.D  
 Acq On : 22 Sep 2025 09:39  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 170899   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 526679   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 486724   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 371195 10.217 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 213351 | 9.282 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 269073 | 9.392 | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 95679  | 9.196 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.577 | 62  | 80350  | 8.543 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 28301  | 8.530 | ppbv   | 100    |
| 7) Chloroethane               | 1.703 | 64  | 33446  | 9.158 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 178992 | 9.122 | ppbv   | 100    |
| 9) Propene                    | 1.483 | 41  | 116849 | 9.376 | ppbv   | 100    |
| 10) Heptane                   | 4.969 | 43  | 319577 | 9.560 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 204850 | 9.243 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 164598 | 9.171 | ppbv   | 100    |
| 13) Ethanol                   | 1.719 | 45  | 9094   | 7.613 | ppbv   | 100    |
| 14) Bromoethene               | 1.780 | 108 | 61824  | 9.111 | ppbv   | 100    |
| 15) Acetone                   | 1.832 | 43  | 169676 | 7.623 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.606 | 39  | 88812  | 8.459 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 230853 | 9.456 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 76184  | 9.170 | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 122753 | 9.174 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.059 | 84  | 66314  | 9.992 | ppbv   | 100    |
| 21) Allyl Chloride            | 2.094 | 41  | 146473 | 9.449 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 86580  | 9.172 | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.460 | 43  | 272378 | 8.566 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 169721 | 9.168 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.829 | 43  | 538761 | 9.577 | ppbv   | 100    |
| 26) Hexane                    | 2.823 | 57  | 238896 | 9.316 | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.146 | 76  | 217259 | 9.446 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.434 | 73  | 108987 | 8.176 | ppbv   | 100    |
| 29) Chloroform                | 2.845 | 83  | 315779 | 9.418 | ppbv   | 100    |
| 30) Cyclohexane               | 3.852 | 84  | 203803 | 9.506 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 231907 | 9.654 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 325118 | 8.947 | ppbv   | 100    |
| 34) 2-Butanone                | 2.551 | 43  | 344874 | 9.343 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 321267 | 9.480 | ppbv   | 100    |
| 36) Benzene                   | 3.651 | 78  | 472855 | 9.561 | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 247754 | 9.525 | ppbv   | 100    |
| 38) Trichloroethene           | 4.541 | 130 | 224516 | 9.134 | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.305 | 63  | 172059 | 9.523 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.570 | 88  | 77889  | 9.283 | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.046 | 42  | 204724 | 9.649 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.480 | 83  | 358858 | 9.903 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.871 | 69  | 193676 | 9.646 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 823031 | 9.631 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.406 | 75  | 215233 | 9.969 | ppbv   | 100    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042950.D  
 Acq On : 22 Sep 2025 09:39  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.590  | 75   | 275210   | 10.006 | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.571  | 97   | 181329   | 9.498  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.383  | 129  | 300497   | 9.845  | ppbv   | 100      |
| 49) Bromoform                 | 9.480  | 173  | 267814   | 10.087 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.736  | 43   | 492068   | 9.920  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.428  | 43   | 395744   | 10.036 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.218  | 164  | 171294   | 8.951  | ppbv   | 100      |
| 53) Toluene                   | 6.923  | 91   | 567779   | 9.699  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 257904   | 9.605  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.921  | 131  | 223066   | 9.575  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.917  | 112  | 415238   | 9.345  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.348  | 91   | 764249   | 9.562  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.526  | 91   | 1192566m | 18.913 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 594329   | 9.437  | ppbv   | 100      |
| 61) Styrene                   | 9.866  | 104  | 293111   | 9.840  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.536 | 105  | 877401   | 9.347  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 296678   | 8.963  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.985 | 120  | 230432   | 9.394  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.526 | 119  | 757958   | 9.078  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.610 | 91   | 94982    | 10.842 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.762 | 105  | 1066409  | 9.166  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 903376   | 9.192  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.277 | 91   | 915624   | 9.543  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.895 | 91   | 668239   | 9.428  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 741298   | 9.398  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 614632   | 9.608  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 656535   | 9.294  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 411473   | 9.392  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 411464   | 9.456  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.944 | 146  | 387219   | 9.289  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.876 | 225  | 280080   | 8.591  | ppbv   | 100      |
| 79) Naphthalene               | 13.510 | 128  | 668171   | 10.696 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.452 | 142  | 195695   | 10.142 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.436 | 180  | 349393   | 10.461 | ppbv   | 100      |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042951.D  
 Acq On : 22 Sep 2025 10:14  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Sep 23 02:09:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 170758   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 524389   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 483821   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 361586   | 10.012   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 100.100% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 47851    | 2.083    | ppbv   | 97       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 58395    | 2.040    | ppbv   | 95       |
| 4) Chloromethane              | 1.534  | 50    | 21326    | 2.051    | ppbv   | 99       |
| 5) Vinyl Chloride             | 1.580  | 62    | 17892    | 1.904    | ppbv   | 98       |
| 6) Bromomethane               | 1.667  | 94    | 6816     | 2.056    | ppbv   | 96       |
| 7) Chloroethane               | 1.706  | 64    | 7250     | 1.987    | ppbv # | 85       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 40306    | 2.056    | ppbv   | 98       |
| 9) Propene                    | 1.483  | 41    | 26007    | 2.088    | ppbv   | 99       |
| 10) Heptane                   | 4.978  | 43    | 66978    | 2.005    | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 45973    | 2.076    | ppbv   | 94       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 36490    | 2.035    | ppbv   | 98       |
| 13) Ethanol                   | 1.722  | 45    | 2989     | 2.504    | ppbv   | 93       |
| 14) Bromoethene               | 1.784  | 108   | 14189    | 2.093    | ppbv # | 96       |
| 15) Acetone                   | 1.835  | 43    | 50357    | 2.264    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 20729    | 1.976    | ppbv   | 94       |
| 17) tert-Butyl alcohol        | 2.042  | 59    | 47749    | 1.957    | ppbv # | 93       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 16572    | 1.996    | ppbv   | 95       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 27930    | 2.089    | ppbv # | 79       |
| 20) Methylene Chloride        | 2.062  | 84    | 17413    | 2.097    | ppbv # | 84       |
| 21) Allyl Chloride            | 2.098  | 41    | 32985    | 2.130    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 18991    | 2.013    | ppbv   | 98       |
| 23) Vinyl Acetate             | 2.463  | 43    | 64479    | 2.029    | ppbv # | 98       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 37865    | 2.047    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.835  | 43    | 117567   | 2.092    | ppbv   | 99       |
| 26) Hexane                    | 2.826  | 57    | 53034    | 2.070    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.153  | 76    | 47660    | 2.074    | ppbv # | 60       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 25348    | 1.903    | ppbv   | 92       |
| 29) Chloroform                | 2.848  | 83    | 69599    | 2.077    | ppbv   | 96       |
| 30) Cyclohexane               | 3.855  | 84    | 43725    | 2.041    | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 50019    | 2.084    | ppbv   | 95       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 70729    | 1.948    | ppbv   | 97       |
| 34) 2-Butanone                | 2.557  | 43    | 77689    | 2.114    | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 68858    | 2.041    | ppbv   | 95       |
| 36) Benzene                   | 3.658  | 78    | 101901   | 2.069    | ppbv   | 97       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 53130    | 2.052    | ppbv   | 98       |
| 38) Trichloroethene           | 4.548  | 130   | 47424    | 1.938    | ppbv   | 94       |
| 39) 1,2-Dichloropropane       | 4.308  | 63    | 37381m   | 2.078    | ppbv   |          |
| 40) 1,4-Dioxane               | 4.586  | 88    | 17074m   | 2.044    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.056  | 42    | 43962    | 2.081    | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.486  | 83    | 73675    | 2.042    | ppbv   | 98       |
| 43) Methyl Methacrylate       | 4.881  | 69    | 41527    | 2.077    | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 177242   | 2.083    | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 44171    | 2.055    | ppbv   | 91       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042951.D  
 Acq On : 22 Sep 2025 10:14  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Sep 23 02:09:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Sep 23 02:07:33 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 56335    | 2.057 | ppbv  | 97       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 38961m   | 2.050 | ppbv  |          |
| 48) Dibromochloromethane      | 7.383  | 129  | 62968    | 2.072 | ppbv  | 98       |
| 49) Bromoform                 | 9.480  | 173  | 56021    | 2.119 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 103605m  | 2.098 | ppbv  |          |
| 51) 2-Hexanone                | 7.438  | 43   | 80620    | 2.053 | ppbv  | 99       |
| 52) Tetrachloroethene         | 8.224  | 164  | 36853    | 1.934 | ppbv  | 94       |
| 53) Toluene                   | 6.933  | 91   | 121268   | 2.081 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 55022    | 2.058 | ppbv  | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 48901    | 2.112 | ppbv  | 98       |
| 57) Chlorobenzene             | 8.924  | 112  | 91325    | 2.068 | ppbv  | 94       |
| 58) Ethyl Benzene             | 9.354  | 91   | 168063   | 2.115 | ppbv  | 99       |
| 59) m/p-Xylene                | 9.532  | 91   | 263362m  | 4.202 | ppbv  |          |
| 60) o-Xylene                  | 9.963  | 91   | 131507   | 2.101 | ppbv  | 98       |
| 61) Styrene                   | 9.869  | 104  | 62748    | 2.119 | ppbv  | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 196198   | 2.103 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 65089    | 1.978 | ppbv  | 98       |
| 64) n-propylbenzene           | 10.985 | 120  | 50569    | 2.074 | ppbv  | 93       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 178218   | 2.147 | ppbv  | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 18992    | 2.181 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 249510   | 2.158 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 210808   | 2.158 | ppbv  | 97       |
| 70) n-Butylbenzene            | 12.280 | 91   | 206691   | 2.167 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 147901   | 2.099 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 164770   | 2.102 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 135344   | 2.128 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 150772   | 2.147 | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 92487    | 2.124 | ppbv  | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 92794    | 2.145 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 88825    | 2.144 | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 70481    | 2.175 | ppbv  | 99       |
| 79) Naphthalene               | 13.510 | 128  | 142653   | 2.297 | ppbv  | 98       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 41369    | 2.157 | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 75139    | 2.263 | ppbv  | 99       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042952.D  
 Acq On : 22 Sep 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Sep 23 02:10:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.784  | 49    | 162797   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.952  | 114   | 511767   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.875  | 117   | 469265   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.370 | 95    | 348878   | 9.960    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 23644    | 1.080    | ppbv   | 97       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 29646    | 1.086    | ppbv   | 99       |
| 4) Chloromethane              | 1.531  | 50    | 10120    | 1.021    | ppbv   | 97       |
| 5) Vinyl Chloride             | 1.580  | 62    | 9228     | 1.030    | ppbv   | 99       |
| 6) Bromomethane               | 1.667  | 94    | 3493     | 1.105    | ppbv   | 96       |
| 7) Chloroethane               | 1.703  | 64    | 3872     | 1.113    | ppbv # | 81       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 20172    | 1.079    | ppbv   | 97       |
| 9) Propene                    | 1.482  | 41    | 12808    | 1.079    | ppbv   | 92       |
| 10) Heptane                   | 4.972  | 43    | 33540m   | 1.053    | ppbv   |          |
| 11) Trichlorofluoromethane    | 1.874  | 101   | 22397    | 1.061    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.136  | 101   | 18180    | 1.063    | ppbv   | 99       |
| 13) Ethanol                   | 1.719  | 45    | 1463     | 1.286    | ppbv # | 33       |
| 14) Bromoethene               | 1.780  | 108   | 6783     | 1.049    | ppbv # | 87       |
| 15) Acetone                   | 1.832  | 43    | 25273    | 1.192    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 10993    | 1.099    | ppbv   | 88       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 25141    | 1.081    | ppbv # | 88       |
| 18) 1,1-Dichloroethene        | 2.033  | 96    | 8192     | 1.035    | ppbv   | 96       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 13241    | 1.039    | ppbv # | 41       |
| 20) Methylene Chloride        | 2.059  | 84    | 10045    | 0.985    | ppbv   | 97       |
| 21) Allyl Chloride            | 2.094  | 41    | 15801    | 1.070    | ppbv   | 95       |
| 22) trans-1,2-Dichloroethene  | 2.337  | 96    | 9960     | 1.108    | ppbv   | 96       |
| 23) Vinyl Acetate             | 2.457  | 43    | 30884    | 1.020    | ppbv # | 96       |
| 24) 1,1-Dichloroethane        | 2.405  | 63    | 19077    | 1.082    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.832  | 43    | 56877    | 1.061    | ppbv   | 97       |
| 26) Hexane                    | 2.822  | 57    | 26276    | 1.076    | ppbv   | 96       |
| 27) Carbon Disulfide          | 2.149  | 76    | 23373    | 1.067    | ppbv # | 32       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 12580    | 0.991    | ppbv # | 86       |
| 29) Chloroform                | 2.842  | 83    | 33240    | 1.041    | ppbv   | 99       |
| 30) Cyclohexane               | 3.855  | 84    | 21707    | 1.063    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.716  | 61    | 23828    | 1.041    | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 3.360  | 97    | 35233    | 1.018    | ppbv   | 97       |
| 34) 2-Butanone                | 2.554  | 43    | 37431    | 1.044    | ppbv   | 97       |
| 35) Carbon Tetrachloride      | 3.758  | 117   | 34016    | 1.033    | ppbv   | 96       |
| 36) Benzene                   | 3.651  | 78    | 49652    | 1.033    | ppbv   | 100      |
| 37) 1,2-Dichloroethane        | 3.214  | 62    | 26482    | 1.048    | ppbv   | 98       |
| 38) Trichloroethene           | 4.538  | 130   | 23906    | 1.001    | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 4.311  | 63    | 18493m   | 1.053    | ppbv   |          |
| 40) 1,4-Dioxane               | 4.583  | 88    | 8804m    | 1.080    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.055  | 42    | 20845    | 1.011    | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.480  | 83    | 35768m   | 1.016    | ppbv   |          |
| 43) Methyl Methacrylate       | 4.871  | 69    | 20289    | 1.040    | ppbv   | 98       |
| 44) 2,2,4-Trimethylpentane    | 4.635  | 57    | 84970    | 1.023    | ppbv   | 96       |
| 45) t-1,3-Dichloropropene     | 6.402  | 75    | 21210m   | 1.011    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042952.D  
 Acq On : 22 Sep 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Sep 23 02:10:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Sep 23 02:07:33 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.587  | 75   | 27025m   | 1.011 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 19311    | 1.041 | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.383  | 129  | 30015    | 1.012 | ppbv   | 99       |
| 49) Bromoform                 | 9.477  | 173  | 25929    | 1.005 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 48546    | 1.007 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.431  | 43   | 39627    | 1.034 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.218  | 164  | 18188    | 0.978 | ppbv   | 97       |
| 53) Toluene                   | 6.926  | 91   | 58200    | 1.023 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 26608    | 1.020 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 22802    | 1.015 | ppbv   | 94       |
| 57) Chlorobenzene             | 8.914  | 112  | 45873    | 1.071 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.351  | 91   | 80473    | 1.044 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.529  | 91   | 128139m  | 2.108 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 64703    | 1.066 | ppbv   | 99       |
| 61) Styrene                   | 9.869  | 104  | 29061    | 1.012 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105  | 96621    | 1.068 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 31695    | 0.993 | ppbv   | 96       |
| 64) n-propylbenzene           | 10.985 | 120  | 24820    | 1.049 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.526 | 119  | 86303    | 1.072 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.610 | 91   | 8140     | 0.964 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.762 | 105  | 120070   | 1.070 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 101749   | 1.074 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.277 | 91   | 98908    | 1.069 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.895 | 91   | 70577    | 1.033 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 79095    | 1.040 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 63174    | 1.024 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 71411    | 1.049 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.603 | 146  | 44769    | 1.060 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 42879    | 1.022 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.940 | 146  | 42911    | 1.068 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 34798    | 1.107 | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 61925    | 1.028 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 17116    | 0.920 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.435 | 180  | 32411    | 1.007 | ppbv   | 97       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042953.D  
 Acq On : 22 Sep 2025 11:22  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 165435   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 509306   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 464091   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 347374 10.027 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

#### Target Compounds

|                               |       |     |        |       | Qvalue |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 11508  | 0.517 | ppbv   | 96  |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 14744  | 0.532 | ppbv # | 90  |
| 4) Chloromethane              | 1.534 | 50  | 5729   | 0.569 | ppbv   | 97  |
| 5) Vinyl Chloride             | 1.580 | 62  | 4373   | 0.480 | ppbv   | 93  |
| 6) Bromomethane               | 1.667 | 94  | 1850   | 0.576 | ppbv   | 100 |
| 7) Chloroethane               | 1.703 | 64  | 1936   | 0.548 | ppbv # | 87  |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 10149  | 0.534 | ppbv   | 96  |
| 9) Propene                    | 1.483 | 41  | 6482   | 0.537 | ppbv   | 94  |
| 10) Heptane                   | 4.978 | 43  | 17388m | 0.537 | ppbv   |     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 11200  | 0.522 | ppbv   | 96  |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 9346   | 0.538 | ppbv   | 100 |
| 13) Ethanol                   | 1.719 | 45  | 629m   | 0.544 | ppbv   |     |
| 14) Bromoethene               | 1.784 | 108 | 3553   | 0.541 | ppbv # | 84  |
| 15) Acetone                   | 1.835 | 43  | 12326  | 0.572 | ppbv # | 86  |
| 16) 1,3-Butadiene             | 1.609 | 39  | 6215   | 0.611 | ppbv # | 82  |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 13128  | 0.555 | ppbv # | 77  |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 4543   | 0.565 | ppbv   | 93  |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 7431   | 0.574 | ppbv # | 46  |
| 20) Methylene Chloride        | 2.062 | 84  | 6881   | 0.430 | ppbv   | 87  |
| 21) Allyl Chloride            | 2.098 | 41  | 7481   | 0.499 | ppbv # | 69  |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 4869m  | 0.533 | ppbv   |     |
| 23) Vinyl Acetate             | 2.460 | 43  | 18264  | 0.593 | ppbv # | 95  |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 9484   | 0.529 | ppbv # | 98  |
| 25) Ethyl Acetate             | 2.836 | 43  | 28162  | 0.517 | ppbv # | 95  |
| 26) Hexane                    | 2.823 | 57  | 13406  | 0.540 | ppbv   | 98  |
| 27) Carbon Disulfide          | 2.149 | 76  | 11535  | 0.518 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 7886   | 0.611 | ppbv # | 65  |
| 29) Chloroform                | 2.845 | 83  | 17188  | 0.530 | ppbv   | 100 |
| 30) Cyclohexane               | 3.855 | 84  | 10856  | 0.523 | ppbv   | 93  |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 11939  | 0.513 | ppbv   | 99  |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 16684  | 0.474 | ppbv   | 96  |
| 34) 2-Butanone                | 2.557 | 43  | 18948  | 0.531 | ppbv   | 96  |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 16799  | 0.513 | ppbv   | 94  |
| 36) Benzene                   | 3.654 | 78  | 24807  | 0.519 | ppbv # | 95  |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 12788  | 0.508 | ppbv   | 100 |
| 38) Trichloroethene           | 4.544 | 130 | 12243  | 0.515 | ppbv # | 88  |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 8772   | 0.502 | ppbv # | 86  |
| 40) 1,4-Dioxane               | 4.599 | 88  | 4405m  | 0.543 | ppbv   |     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 10871  | 0.530 | ppbv   | 95  |
| 42) Bromodichloromethane      | 4.486 | 83  | 17552  | 0.501 | ppbv   | 96  |
| 43) Methyl Methacrylate       | 4.881 | 69  | 10330m | 0.532 | ppbv   |     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 43414m | 0.525 | ppbv   |     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 10262m | 0.492 | ppbv   |     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042953.D  
 Acq On : 22 Sep 2025 11:22  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 13304m   | 0.500 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 9725m    | 0.527 | ppbv   |          |
| 48) Dibromochloromethane      | 7.383  | 129  | 14563    | 0.493 | ppbv   | 99       |
| 49) Bromoform                 | 9.480  | 173  | 12136    | 0.473 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 23639    | 0.493 | ppbv   | 95       |
| 51) 2-Hexanone                | 7.441  | 43   | 18322    | 0.480 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.218  | 164  | 9073m    | 0.490 | ppbv   |          |
| 53) Toluene                   | 6.927  | 91   | 29404    | 0.519 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 13233    | 0.510 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 11535    | 0.519 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.920  | 112  | 22463    | 0.530 | ppbv   | 91       |
| 58) Ethyl Benzene             | 9.351  | 91   | 38459    | 0.505 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.545  | 91   | 61801m   | 1.028 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 30976    | 0.516 | ppbv   | 98       |
| 61) Styrene                   | 9.865  | 104  | 14048    | 0.495 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105  | 46640    | 0.521 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 15974    | 0.506 | ppbv   | 97       |
| 64) n-propylbenzene           | 10.985 | 120  | 12333    | 0.527 | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.529 | 119  | 42595    | 0.535 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.613 | 91   | 3942m    | 0.472 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.765 | 105  | 58190    | 0.525 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 48855    | 0.521 | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.280 | 91   | 44764    | 0.489 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 35797    | 0.530 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 39803    | 0.529 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 30932    | 0.507 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 35601    | 0.529 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 21307    | 0.510 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 21404    | 0.516 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 20279    | 0.510 | ppbv   | 95       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 17515    | 0.563 | ppbv   | 98       |
| 79) Naphthalene               | 13.510 | 128  | 25577    | 0.429 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 8906     | 0.484 | ppbv   | 92       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 12920    | 0.406 | ppbv   | 98       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042954.D  
Acq On : 22 Sep 2025 11:56  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025  
Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:12:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 163771   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 498673   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 457171   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 337196   | 9.881    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 920      | 0.102    | ppbv # | 75       |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97    | 3418     | 0.098    | ppbv   | 96       |
| 35) Carbon Tetrachloride      | 3.764  | 117   | 3071m    | 0.096    | ppbv   |          |
| 38) Trichloroethene           | 4.541  | 130   | 2470m    | 0.106    | ppbv   |          |
| 52) Tetrachloroethene         | 8.228  | 164   | 2013m    | 0.111    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.655  | 107   | 2595m    | 0.102    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 3301     | 0.106    | ppbv   | 97       |
| 79) Naphthalene               | 13.516 | 128   | 4997m    | 0.085    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

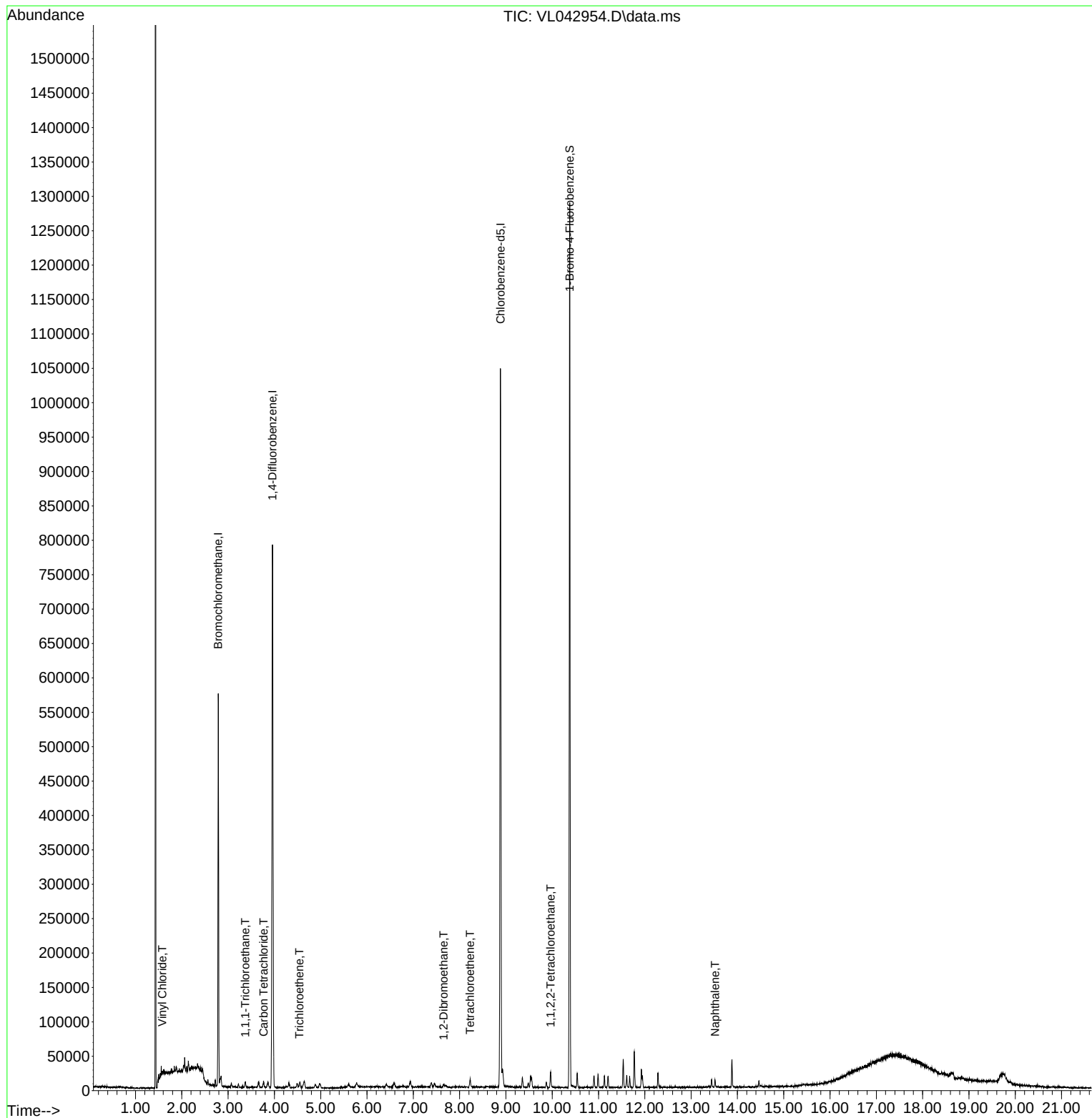
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042954.D  
Acq On : 22 Sep 2025 11:56  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Quant Time: Sep 23 02:12:22 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Sep 23 02:07:33 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
Supervised By : Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042955.D  
Acq On : 22 Sep 2025 12:30  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025  
Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:13:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2  
QLast Update : Tue Sep 23 02:07:33 2025  
Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)    |
|-------------------------------|--------|-------|----------|----------|-------|-------------|
| Internal Standards            |        |       |          |          |       |             |
| 1) Bromochloromethane         | 2.787  | 49    | 163615   | 10.000   | ppbv  | 0.00        |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 504423   | 10.000   | ppbv  | 0.00        |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 454013   | 10.000   | ppbv  | 0.00        |
| System Monitoring Compounds   |        |       |          |          |       |             |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 334002   | 9.855    | ppbv  | 0.00        |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 98.600%     |
| Target Compounds              |        |       |          |          |       |             |
| 5) Vinyl Chloride             | 1.580  | 62    | 358      | 0.040    | ppbv  | Qvalue # 53 |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 1337m    | 0.038    | ppbv  |             |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 1110m    | 0.034    | ppbv  |             |
| 38) Trichloroethene           | 4.551  | 130   | 797m     | 0.034    | ppbv  |             |
| 52) Tetrachloroethene         | 8.231  | 164   | 660m     | 0.036    | ppbv  |             |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83    | 1098m    | 0.036    | ppbv  |             |

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

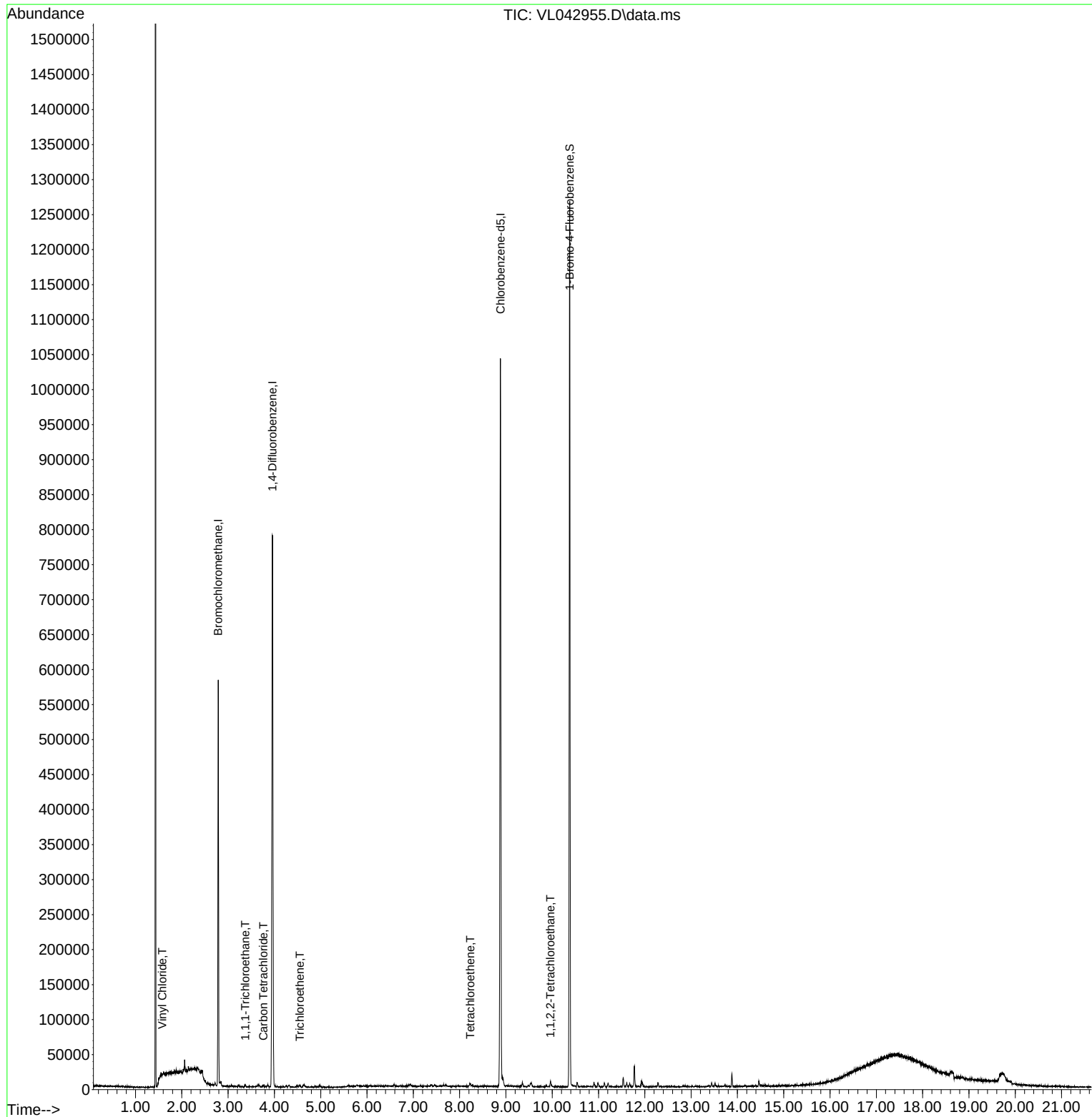
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042955.D  
Acq On : 22 Sep 2025 12:30  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Sep 23 02:13:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Sep 23 02:07:33 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
Supervised By : Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042956.D  
 Acq On : 22 Sep 2025 13:05  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.790  | 49    | 162846   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 494779   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 458256   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 343752   | 10.049   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.500% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 300946   | 13.740   | ppbv       | 97       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 364959   | 13.369   | ppbv       | 100      |
| 4) Chloromethane              | 1.534  | 50    | 133240   | 13.439   | ppbv       | 99       |
| 5) Vinyl Chloride             | 1.583  | 62    | 115257   | 12.860   | ppbv       | 100      |
| 6) Bromomethane               | 1.670  | 94    | 40861    | 12.925   | ppbv       | 94       |
| 7) Chloroethane               | 1.706  | 64    | 46081    | 13.241   | ppbv       | 99       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 255815   | 13.682   | ppbv       | 98       |
| 9) Propene                    | 1.486  | 41    | 154069   | 12.973   | ppbv       | 94       |
| 10) Heptane                   | 4.985  | 43    | 424500   | 13.327   | ppbv       | 98       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 295479   | 13.991   | ppbv       | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 237615   | 13.894   | ppbv       | 99       |
| 13) Ethanol                   | 1.722  | 45    | 11502    | 10.105   | ppbv       | 99       |
| 14) Bromoethene               | 1.784  | 108   | 88375    | 13.668   | ppbv       | 100      |
| 15) Acetone                   | 1.835  | 43    | 244861   | 11.545   | ppbv       | 97       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 126670   | 12.661   | ppbv       | 97       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 308347   | 13.255   | ppbv       | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 109211   | 13.796   | ppbv       | 99       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 162952   | 12.780   | ppbv       | 100      |
| 20) Methylene Chloride        | 2.062  | 84    | 92708    | 14.996   | ppbv       | 95       |
| 21) Allyl Chloride            | 2.098  | 41    | 204552   | 13.848   | ppbv       | 100      |
| 22) trans-1,2-Dichloroethene  | 2.343  | 96    | 121815   | 13.542   | ppbv       | 98       |
| 23) Vinyl Acetate             | 2.463  | 43    | 419251   | 13.837   | ppbv       | 99       |
| 24) 1,1-Dichloroethane        | 2.411  | 63    | 243229   | 13.789   | ppbv       | 99       |
| 25) Ethyl Acetate             | 2.835  | 43    | 724418   | 13.514   | ppbv       | 99       |
| 26) Hexane                    | 2.829  | 57    | 321710   | 13.166   | ppbv       | 99       |
| 27) Carbon Disulfide          | 2.153  | 76    | 300931   | 13.731   | ppbv       | 97       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 193915   | 15.267   | ppbv       | 94       |
| 29) Chloroform                | 2.852  | 83    | 440772   | 13.796   | ppbv       | 98       |
| 30) Cyclohexane               | 3.858  | 84    | 281932   | 13.800   | ppbv       | 98       |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 317456   | 13.869   | ppbv       | 98       |
| 32) 1,1,1-Trichloroethane     | 3.369  | 97    | 456335   | 13.178   | ppbv       | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 469872   | 13.551   | ppbv       | 99       |
| 35) Carbon Tetrachloride      | 3.764  | 117   | 457985   | 14.385   | ppbv       | 97       |
| 36) Benzene                   | 3.658  | 78    | 654205   | 14.080   | ppbv       | 99       |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 350841   | 14.358   | ppbv       | 100      |
| 38) Trichloroethene           | 4.548  | 130   | 310602   | 13.450   | ppbv       | 97       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 241323   | 14.218   | ppbv       | 95       |
| 40) 1,4-Dioxane               | 4.580  | 88    | 104884   | 13.306   | ppbv       | # 98     |
| 41) Tetrahydrofuran           | 3.052  | 42    | 276157   | 13.855   | ppbv       | 99       |
| 42) Bromodichloromethane      | 4.489  | 83    | 495091   | 14.544   | ppbv       | 98       |
| 43) Methyl Methacrylate       | 4.881  | 69    | 263659   | 13.979   | ppbv       | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.641  | 57    | 1107180  | 13.791   | ppbv       | 99       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 298019   | 14.694   | ppbv       | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042956.D  
 Acq On : 22 Sep 2025 13:05  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025  
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 371770   | 14.389 | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 249453   | 13.909 | ppbv  | 96       |
| 48) Dibromochloromethane      | 7.389  | 129  | 421755   | 14.709 | ppbv  | 99       |
| 49) Bromoform                 | 9.487  | 173  | 367120   | 14.719 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 666049   | 14.293 | ppbv  | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 541611   | 14.620 | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.228  | 164  | 233980   | 13.015 | ppbv  | 99       |
| 53) Toluene                   | 6.936  | 91   | 765216   | 13.915 | ppbv  | 98       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 359750   | 14.261 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 306952   | 13.994 | ppbv  | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 565065   | 13.507 | ppbv  | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 1052303  | 13.985 | ppbv  | 99       |
| 59) m/p-Xylene                | 9.555  | 91   | 1636030m | 27.557 | ppbv  |          |
| 60) o-Xylene                  | 9.966  | 91   | 808098   | 13.629 | ppbv  | 100      |
| 61) Styrene                   | 9.872  | 104  | 401899   | 14.330 | ppbv  | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 1198767  | 13.564 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 403038   | 12.932 | ppbv  | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 318541   | 13.793 | ppbv  | 97       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 1033382  | 13.146 | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.616 | 91   | 113549   | 13.767 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1454158  | 13.276 | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 1228773  | 13.280 | ppbv  | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 1239042  | 13.716 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 916456   | 13.733 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 1014567  | 13.662 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 845958   | 14.046 | ppbv  | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 889339   | 13.372 | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 568597   | 13.785 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 570104   | 13.916 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 536286   | 13.665 | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 377435   | 12.296 | ppbv  | 99       |
| 79) Naphthalene               | 13.513 | 128  | 920123   | 15.645 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 277792   | 15.290 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 473767   | 15.066 | ppbv  | 99       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042957.D  
 Acq On : 22 Sep 2025 14:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025  
 Supervised By : Mahesh Dadoda 09/24/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 159826   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.956 | 114  | 493072   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 450930   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 338071 10.043 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 197861 | 9.204 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 246838 | 9.213 | ppbv   | 99     |
| 4) Chloromethane              | 1.535 | 50  | 85932  | 8.831 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.580 | 62  | 74819  | 8.506 | ppbv   | 98     |
| 6) Bromomethane               | 1.667 | 94  | 26463  | 8.529 | ppbv   | 91     |
| 7) Chloroethane               | 1.706 | 64  | 30377  | 8.894 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 164255 | 8.951 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 105822 | 9.079 | ppbv   | 95     |
| 10) Heptane                   | 4.982 | 43  | 284333 | 9.141 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 189800 | 9.157 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 151398 | 9.020 | ppbv   | 99     |
| 13) Ethanol                   | 1.722 | 45  | 6606   | 5.842 | ppbv   | 90     |
| 14) Bromoethene               | 1.781 | 108 | 55748  | 8.785 | ppbv   | 98     |
| 15) Acetone                   | 1.836 | 43  | 157306 | 7.557 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 80854  | 8.234 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 206466 | 9.043 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 69181  | 8.904 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 108171 | 8.644 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 61743  | 9.945 | ppbv   | 98     |
| 21) Allyl Chloride            | 2.098 | 41  | 132878 | 9.166 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 78085  | 8.845 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.464 | 43  | 280339 | 9.427 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 155861 | 9.003 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.833 | 43  | 486993 | 9.256 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 216458 | 9.026 | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.150 | 76  | 196191 | 9.121 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 121564 | 9.752 | ppbv   | 95     |
| 29) Chloroform                | 2.849 | 83  | 300507 | 9.583 | ppbv   | 100    |
| 30) Cyclohexane               | 3.855 | 84  | 186186 | 9.286 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 213362 | 9.497 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 307237 | 9.071 | ppbv   | 100    |
| 34) 2-Butanone                | 2.558 | 43  | 313801 | 9.081 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.762 | 117 | 304293 | 9.479 | ppbv   | 97     |
| 36) Benzene                   | 3.655 | 78  | 435981 | 9.416 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 233305 | 9.581 | ppbv   | 99     |
| 38) Trichloroethene           | 4.548 | 130 | 205431 | 8.927 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 160275 | 9.482 | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.577 | 88  | 69659  | 8.863 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.053 | 42  | 184258 | 9.277 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.490 | 83  | 329680 | 9.721 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 172867 | 9.125 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 738876 | 9.239 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.416 | 75  | 188332 | 9.321 | ppbv   | 97     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
 Data File : VL042957.D  
 Acq On : 22 Sep 2025 14:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL092225

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025  
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 244367   | 9.490  | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 165721   | 9.279  | ppbv  | 97       |
| 48) Dibromochloromethane      | 7.387  | 129  | 278090   | 9.732  | ppbv  | 99       |
| 49) Bromoform                 | 9.484  | 173  | 238337   | 9.589  | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.746  | 43   | 435845   | 9.411  | ppbv  | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 352962   | 9.561  | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.225  | 164  | 155469   | 8.678  | ppbv  | 98       |
| 53) Toluene                   | 6.933  | 91   | 509968   | 9.306  | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 237604   | 9.452  | ppbv  | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 205811   | 9.536  | ppbv  | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 379110   | 9.209  | ppbv  | 99       |
| 58) Ethyl Benzene             | 9.354  | 91   | 698086   | 9.428  | ppbv  | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 1092496m | 18.715 | ppbv  |          |
| 60) o-Xylene                  | 9.966  | 91   | 538861   | 9.236  | ppbv  | 99       |
| 61) Styrene                   | 9.872  | 104  | 264257   | 9.575  | ppbv  | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 802723   | 9.230  | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 272416   | 8.883  | ppbv  | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 214374   | 9.433  | ppbv  | 99       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 711319   | 9.196  | ppbv  | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 71896    | 8.858  | ppbv  | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 995407   | 9.235  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 848196   | 9.316  | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 834882   | 9.392  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 611697   | 9.315  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 686229   | 9.391  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.203 | 105  | 567874   | 9.582  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 607159   | 9.277  | ppbv  | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 380822   | 9.382  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 380109   | 9.429  | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 359995   | 9.322  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 249142   | 8.248  | ppbv  | 100      |
| 79) Naphthalene               | 13.514 | 128  | 590759   | 10.208 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 173023   | 9.678  | ppbv  | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 304647   | 9.845  | ppbv  | 98       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042957.D  
Acq On : 22 Sep 2025 14:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL092225

Quant Time: Sep 23 02:49:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 94    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.345 | 1.238  | 8.0   | 93    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.676 | 1.544  | 7.9   | 92    | 0.00     |
| 4    | Chloromethane               | 0.609 | 0.538  | 11.7  | 90    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.550 | 0.468  | 14.9  | 93    | 0.00     |
| 6 T  | Bromomethane                | 0.194 | 0.166  | 14.4  | 94    | 0.00     |
| 7    | Chloroethane                | 0.214 | 0.190  | 11.2  | 91    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.148 | 1.028  | 10.5  | 92    | 0.00     |
| 9 T  | Propene                     | 0.729 | 0.662  | 9.2   | 91    | 0.00     |
| 10 T | Heptane                     | 1.946 | 1.779  | 8.6   | 89    | 0.01     |
| 11 T | Trichlorofluoromethane      | 1.297 | 1.188  | 8.4   | 93    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.050 | 0.947  | 9.8   | 92    | 0.00     |
| 13   | Ethanol                     | 0.071 | 0.041# | 42.3# | 73    | 0.00     |
| 14 T | Bromoethene                 | 0.397 | 0.349  | 12.1  | 90    | 0.00     |
| 15 T | Acetone                     | 1.302 | 0.984  | 24.4  | 93    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.614 | 0.506  | 17.6  | 91    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.429 | 1.292  | 9.6   | 89    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.486 | 0.433  | 10.9  | 91    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.783 | 0.677  | 13.5  | 88    | 0.00     |
| 20 T | Methylene Chloride          | 0.545 | 0.386  | 29.2  | 93    | 0.00     |
| 21 T | Allyl Chloride              | 0.907 | 0.831  | 8.4   | 91    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.552 | 0.489  | 11.4  | 90    | 0.00     |
| 23 T | Vinyl Acetate               | 1.861 | 1.754  | 5.7   | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.083 | 0.975  | 10.0  | 92    | 0.00     |
| 25 T | Ethyl Acetate               | 3.292 | 3.047  | 7.4   | 90    | 0.00     |
| 26 T | Hexane                      | 1.501 | 1.354  | 9.8   | 91    | 0.00     |
| 27 T | Carbon Disulfide            | 1.346 | 1.228  | 8.8   | 90    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.780 | 0.761  | 2.4   | 112   | 0.00     |
| 29 T | Chloroform                  | 1.962 | 1.880  | 4.2   | 95    | 0.00     |
| 30 T | Cyclohexane                 | 1.255 | 1.165  | 7.2   | 91    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.406 | 1.335  | 5.0   | 92    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.119 | 1.922  | 9.3   | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 94    | 0.00     |
| 34 T | 2-Butanone                  | 0.701 | 0.636  | 9.3   | 91    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.651 | 0.617  | 5.2   | 95    | 0.00     |
| 36 T | Benzene                     | 0.939 | 0.884  | 5.9   | 92    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.494 | 0.473  | 4.3   | 94    | 0.00     |
| 38 T | Trichloroethene             | 0.467 | 0.417  | 10.7  | 91    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.343 | 0.325  | 5.2   | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.159 | 0.141  | 11.3  | 89    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.403 | 0.374  | 7.2   | 90    | 0.00     |
| 42 T | Bromodichloromethane        | 0.688 | 0.669  | 2.8   | 92    | 0.00     |
| 43   | Methyl Methacrylate         | 0.384 | 0.351  | 8.6   | 89    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.622 | 1.499  | 7.6   | 90    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.410 | 0.382  | 6.8   | 88    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.522 | 0.496  | 5.0   | 89    | 0.01     |
| 47 T | 1,1,2-Trichloroethane       | 0.362 | 0.336  | 7.2   | 91    | 0.00     |
| 48 T | Dibromochloromethane        | 0.580 | 0.564  | 2.8   | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042957.D  
Acq On : 22 Sep 2025 14:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL092225

Quant Time: Sep 23 02:49:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|---------------------------|-------|-------|------|-------|----------|
| 49 T | Bromoform                 | 0.504 | 0.483 | 4.2  | 89    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.939 | 0.884 | 5.9  | 89    | 0.00     |
| 51 T | 2-Hexanone                | 0.749 | 0.716 | 4.4  | 89    | 0.00     |
| 52 T | Tetrachloroethene         | 0.363 | 0.315 | 13.2 | 91    | 0.00     |
| 53 T | Toluene                   | 1.111 | 1.034 | 6.9  | 90    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.510 | 0.482 | 5.5  | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.479 | 0.456 | 4.8  | 92    | 0.00     |
| 57 T | Chlorobenzene             | 0.913 | 0.841 | 7.9  | 91    | 0.00     |
| 58 T | Ethyl Benzene             | 1.642 | 1.548 | 5.7  | 91    | 0.00     |
| 59 T | m/p-Xylene                | 1.295 | 1.211 | 6.5  | 92    | 0.03     |
| 60 T | o-Xylene                  | 1.294 | 1.195 | 7.7  | 91    | 0.00     |
| 61 T | Styrene                   | 0.612 | 0.586 | 4.2  | 90    | 0.00     |
| 62   | Isopropylbenzene          | 1.929 | 1.780 | 7.7  | 91    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.680 | 0.604 | 11.2 | 92    | 0.00     |
| 64   | n-propylbenzene           | 0.504 | 0.475 | 5.8  | 93    | 0.00     |
| 65   | tert-Butylbenzene         | 1.715 | 1.577 | 8.0  | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 0.180 | 0.159 | 11.7 | 76    | 0.00     |
| 67   | sec-Butylbenzene          | 2.390 | 2.207 | 7.7  | 93    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.746 | 0.750 | -0.5 | 91    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.019 | 1.881 | 6.8  | 94    | 0.00     |
| 70   | n-Butylbenzene            | 1.971 | 1.851 | 6.1  | 91    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.456 | 1.357 | 6.8  | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.621 | 1.522 | 6.1  | 93    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.314 | 1.259 | 4.2  | 92    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.451 | 1.346 | 7.2  | 92    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.900 | 0.845 | 6.1  | 93    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.894 | 0.843 | 5.7  | 92    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.856 | 0.798 | 6.8  | 93    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.670 | 0.553 | 17.5 | 89    | 0.00     |
| 79 T | Naphthalene               | 1.283 | 1.310 | -2.1 | 88    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.396 | 0.384 | 3.0  | 88    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.686 | 0.676 | 1.5  | 87    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042957.D  
Acq On : 22 Sep 2025 14:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL092225

Quant Time: Sep 23 02:49:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 94    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.204  | 8.0   | 93    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.213  | 7.9   | 92    | 0.00     |
| 4    | Chloromethane               | 10.000 | 8.831  | 11.7  | 90    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.506  | 14.9  | 93    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 8.529  | 14.7  | 94    | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.894  | 11.1  | 91    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 8.951  | 10.5  | 92    | 0.00     |
| 9 T  | Propene                     | 10.000 | 9.079  | 9.2   | 91    | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.141  | 8.6   | 89    | 0.01     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.157  | 8.4   | 93    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.020  | 9.8   | 92    | 0.00     |
| 13   | Ethanol                     | 10.000 | 5.842  | 41.6# | 73    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 8.785  | 12.1  | 90    | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.557  | 24.4  | 93    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.234  | 17.7  | 91    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 9.043  | 9.6   | 89    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 8.904  | 11.0  | 91    | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.644  | 13.6  | 88    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 9.945  | 0.5   | 93    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.166  | 8.3   | 91    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 8.845  | 11.5  | 90    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.427  | 5.7   | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.003  | 10.0  | 92    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.256  | 7.4   | 90    | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.026  | 9.7   | 91    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.121  | 8.8   | 90    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.752  | 2.5   | 112   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.583  | 4.2   | 95    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.286  | 7.1   | 91    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.497  | 5.0   | 92    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.071  | 9.3   | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 94    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.081  | 9.2   | 91    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.479  | 5.2   | 95    | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.416  | 5.8   | 92    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.581  | 4.2   | 94    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 8.927  | 10.7  | 91    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.482  | 5.2   | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.863  | 11.4  | 89    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.277  | 7.2   | 90    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.721  | 2.8   | 92    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 9.125  | 8.8   | 89    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.239  | 7.6   | 90    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 9.321  | 6.8   | 88    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 9.490  | 5.1   | 89    | 0.01     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.279  | 7.2   | 91    | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 9.732  | 2.7   | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092225\  
Data File : VL042957.D  
Acq On : 22 Sep 2025 14:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL092225

Quant Time: Sep 23 02:49:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|---------------------------|--------|--------|------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 9.589  | 4.1  | 89    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.411  | 5.9  | 89    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 9.561  | 4.4  | 89    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 8.678  | 13.2 | 91    | 0.00     |
| 53 T | Toluene                   | 10.000 | 9.306  | 6.9  | 90    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.452  | 5.5  | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0  | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.536  | 4.6  | 92    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.209  | 7.9  | 91    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.428  | 5.7  | 91    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 18.715 | 6.4  | 92    | 0.03     |
| 60 T | o-Xylene                  | 10.000 | 9.236  | 7.6  | 91    | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.575  | 4.3  | 90    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.230  | 7.7  | 91    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.883  | 11.2 | 92    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 9.433  | 5.7  | 93    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.196  | 8.0  | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 8.858  | 11.4 | 76    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.235  | 7.7  | 93    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.043 | -0.4 | 91    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.316  | 6.8  | 94    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.392  | 6.1  | 91    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.315  | 6.9  | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.391  | 6.1  | 93    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.582  | 4.2  | 92    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.277  | 7.2  | 92    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.382  | 6.2  | 93    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 9.429  | 5.7  | 92    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.322  | 6.8  | 93    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.248  | 17.5 | 89    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 10.208 | -2.1 | 88    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 9.678  | 3.2  | 88    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.845  | 1.5  | 87    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

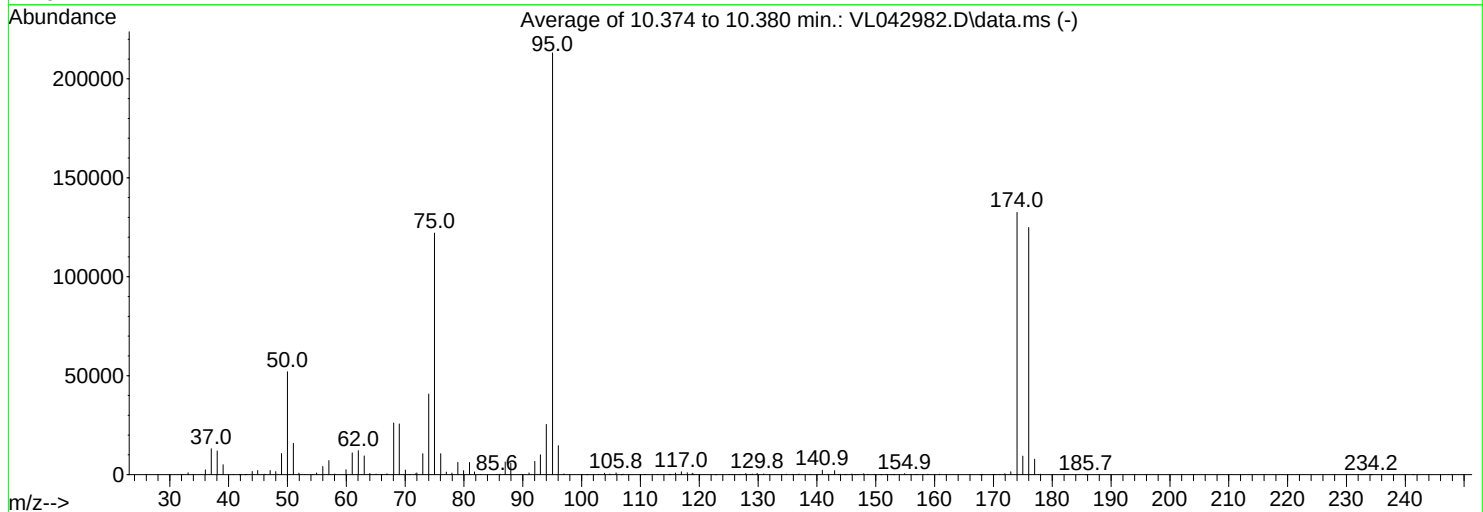
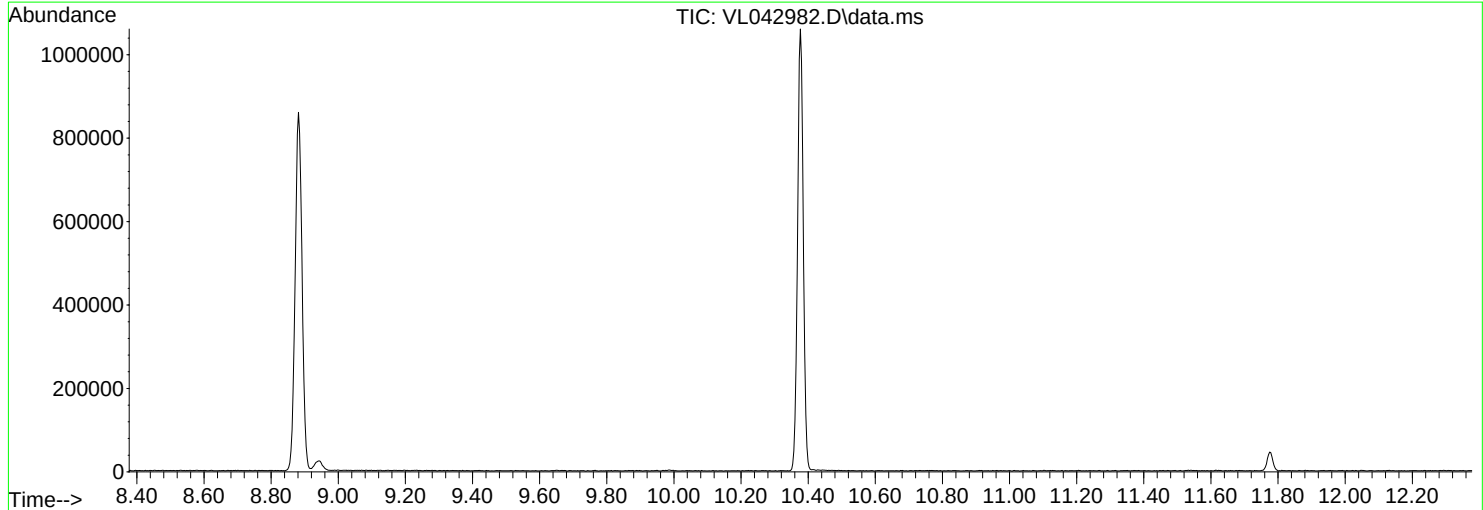


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042982.D  
Acq On : 23 Sep 2025 08:30  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

| 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              | 8               | 40              | 24.4         | 52027      | PASS                |
| 75             | 95              | 30              | 66              | 57.3         | 122083     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 213141     | PASS                |
| 96             | 95              | 5               | 9               | 6.9          | 14633      | PASS                |
| 173            | 174             | 0.00            | 2               | 1.1          | 1487       | PASS                |
| 174            | 95              | 50              | 120             | 62.2         | 132544     | PASS                |
| 175            | 174             | 4               | 9               | 7.1          | 9369       | PASS                |
| 176            | 174             | 93              | 101             | 94.3         | 124939     | PASS                |
| 177            | 176             | 5               | 9               | 6.3          | 7833       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
 Data File : VL042983.D  
 Acq On : 23 Sep 2025 09:14  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/24/2025  
 Supervised By : Mahesh Dadoda 09/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.793  | 49    | 140159   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 397606   | 10.000   | ppbv  | 0.01     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 356928   | 10.000   | ppbv  | 0.01     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.383 | 95    | 285330   | 10.709   | ppbv  | 0.01     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 107.100% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 187032   | 9.921    | ppbv  | 95       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 226561   | 9.643    | ppbv  | 97       |
| 4) Chloromethane              | 1.534  | 50    | 78049    | 9.147    | ppbv  | 99       |
| 5) Vinyl Chloride             | 1.583  | 62    | 67278    | 8.722    | ppbv  | 100      |
| 6) Bromomethane               | 1.670  | 94    | 24422    | 8.975    | ppbv  | 96       |
| 7) Chloroethane               | 1.709  | 64    | 26802    | 8.948    | ppbv  | 98       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 151817   | 9.434    | ppbv  | 100      |
| 9) Propene                    | 1.486  | 41    | 83019    | 8.122    | ppbv  | 96       |
| 10) Heptane                   | 4.991  | 43    | 242117   | 8.876    | ppbv  | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 185063   | 10.181   | ppbv  | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 144385   | 9.809    | ppbv  | 99       |
| 13) Ethanol                   | 1.725  | 45    | 6504     | 6.559    | ppbv  | 96       |
| 14) Bromoethene               | 1.787  | 108   | 51728    | 9.295    | ppbv  | 98       |
| 15) Acetone                   | 1.839  | 43    | 146605   | 8.031    | ppbv  | 98       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 74090    | 8.604    | ppbv  | 97       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 167840   | 8.383    | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.039  | 96    | 63829    | 9.368    | ppbv  | 99       |
| 19) Isopropyl Alcohol         | 1.890  | 45    | 94735    | 8.633    | ppbv  | 95       |
| 20) Methylene Chloride        | 2.065  | 84    | 55766    | 10.264   | ppbv  | 96       |
| 21) Allyl Chloride            | 2.101  | 41    | 117413   | 9.235    | ppbv  | 97       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 71690    | 9.260    | ppbv  | 97       |
| 23) Vinyl Acetate             | 2.467  | 43    | 230988   | 8.857    | ppbv  | # 98     |
| 24) 1,1-Dichloroethane        | 2.415  | 63    | 145685   | 9.596    | ppbv  | 99       |
| 25) Ethyl Acetate             | 2.839  | 43    | 423103   | 9.170    | ppbv  | 99       |
| 26) Hexane                    | 2.832  | 57    | 188410   | 8.959    | ppbv  | 98       |
| 27) Carbon Disulfide          | 2.156  | 76    | 170121   | 9.019    | ppbv  | 96       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 91757    | 8.393    | ppbv  | 95       |
| 29) Chloroform                | 2.855  | 83    | 281560   | 10.239   | ppbv  | 99       |
| 30) Cyclohexane               | 3.862  | 84    | 158650   | 9.022    | ppbv  | 97       |
| 31) cis-1,2-Dichloroethene    | 2.725  | 61    | 188239   | 9.555    | ppbv  | 100      |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 274087   | 9.228    | ppbv  | 99       |
| 34) 2-Butanone                | 2.560  | 43    | 279284   | 10.023   | ppbv  | 99       |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 279346   | 10.791   | ppbv  | 98       |
| 36) Benzene                   | 3.664  | 78    | 373905   | 10.014   | ppbv  | 99       |
| 37) 1,2-Dichloroethane        | 3.224  | 62    | 224338   | 11.424   | ppbv  | 97       |
| 38) Trichloroethene           | 4.557  | 130   | 174937   | 9.427    | ppbv  | 92       |
| 39) 1,2-Dichloropropane       | 4.324  | 63    | 138847   | 10.186   | ppbv  | 87       |
| 40) 1,4-Dioxane               | 4.587  | 88    | 58847    | 9.285    | ppbv  | # 97     |
| 41) Tetrahydrofuran           | 3.059  | 42    | 152129   | 9.498    | ppbv  | 100      |
| 42) Bromodichloromethane      | 4.499  | 83    | 297856   | 10.891   | ppbv  | 97       |
| 43) Methyl Methacrylate       | 4.891  | 69    | 143508   | 9.394    | ppbv  | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57    | 637574   | 9.887    | ppbv  | 97       |
| 45) t-1,3-Dichloropropene     | 6.428  | 75    | 149384   | 9.169    | ppbv  | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
 Data File : VL042983.D  
 Acq On : 23 Sep 2025 09:14  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025  
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:04:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.613  | 75   | 197209   | 9.498  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 146175   | 10.149 | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.396  | 129  | 241948   | 10.500 | ppbv   | 99       |
| 49) Bromoform                 | 9.490  | 173  | 201373   | 10.047 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 371641   | 9.951  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.444  | 43   | 299396   | 10.057 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.231  | 164  | 130498   | 9.033  | ppbv   | 97       |
| 53) Toluene                   | 6.943  | 91   | 424755   | 9.612  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 210744   | 10.396 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 181159   | 10.604 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.930  | 112  | 332694   | 10.210 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.364  | 91   | 602544   | 10.281 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.558  | 91   | 964478m  | 20.873 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 484224   | 10.485 | ppbv   | 99       |
| 61) Styrene                   | 9.878  | 104  | 212504   | 9.728  | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.545 | 105  | 703444   | 10.219 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 246998   | 10.175 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 181920   | 10.113 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 612510   | 10.004 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.623 | 91   | 38429    | 5.982  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 877873   | 10.290 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 733573   | 10.179 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.286 | 91   | 744721   | 10.584 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 531933   | 10.234 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 592733   | 10.248 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 491234   | 10.472 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 545008   | 10.521 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 327787   | 10.203 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 328439   | 10.293 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 313228   | 10.247 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 214126   | 8.956  | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 503948   | 11.001 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 125827   | 8.892  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 261685   | 10.684 | ppbv   | 100      |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042983.D  
Acq On : 23 Sep 2025 09:14  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 24 02:04:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 82    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.345 | 1.334  | 0.8   | 88    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.676 | 1.616  | 3.6   | 84    | 0.00     |
| 4    | Chloromethane               | 0.609 | 0.557  | 8.5   | 82    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.550 | 0.480  | 12.7  | 84    | 0.00     |
| 6 T  | Bromomethane                | 0.194 | 0.174  | 10.3  | 86    | 0.00     |
| 7    | Chloroethane                | 0.214 | 0.191  | 10.7  | 80    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.148 | 1.083  | 5.7   | 85    | 0.00     |
| 9 T  | Propene                     | 0.729 | 0.592  | 18.8  | 71    | 0.00     |
| 10 T | Heptane                     | 1.946 | 1.727  | 11.3  | 76    | 0.02     |
| 11 T | Trichlorofluoromethane      | 1.297 | 1.320  | -1.8  | 90    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.050 | 1.030  | 1.9   | 88    | 0.00     |
| 13   | Ethanol                     | 0.071 | 0.046# | 35.2# | 72    | 0.00     |
| 14 T | Bromoethene                 | 0.397 | 0.369  | 7.1   | 84    | 0.00     |
| 15 T | Acetone                     | 1.302 | 1.046  | 19.7  | 86    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.614 | 0.529  | 13.8  | 83    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.429 | 1.197  | 16.2  | 73    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.486 | 0.455  | 6.4   | 84    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.783 | 0.676  | 13.7  | 77    | 0.00     |
| 20 T | Methylene Chloride          | 0.545 | 0.398  | 27.0  | 84    | 0.00     |
| 21 T | Allyl Chloride              | 0.907 | 0.838  | 7.6   | 80    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.552 | 0.511  | 7.4   | 83    | 0.00     |
| 23 T | Vinyl Acetate               | 1.861 | 1.648  | 11.4  | 85    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.083 | 1.039  | 4.1   | 86    | 0.00     |
| 25 T | Ethyl Acetate               | 3.292 | 3.019  | 8.3   | 79    | 0.00     |
| 26 T | Hexane                      | 1.501 | 1.344  | 10.5  | 79    | 0.00     |
| 27 T | Carbon Disulfide            | 1.346 | 1.214  | 9.8   | 78    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.780 | 0.655  | 16.0  | 84    | 0.00     |
| 29 T | Chloroform                  | 1.962 | 2.009  | -2.4  | 89    | 0.00     |
| 30 T | Cyclohexane                 | 1.255 | 1.132  | 9.8   | 78    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.406 | 1.343  | 4.5   | 81    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.119 | 1.956  | 7.7   | 84    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 75    | 0.01     |
| 34 T | 2-Butanone                  | 0.701 | 0.702  | -0.1  | 81    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.651 | 0.703  | -8.0  | 87    | 0.02     |
| 36 T | Benzene                     | 0.939 | 0.940  | -0.1  | 79    | 0.01     |
| 37 T | 1,2-Dichloroethane          | 0.494 | 0.564  | -14.2 | 91    | 0.00     |
| 38 T | Trichloroethene             | 0.467 | 0.440  | 5.8   | 78    | 0.02     |
| 39 T | 1,2-Dichloropropane         | 0.343 | 0.349  | -1.7  | 81    | 0.02     |
| 40 T | 1,4-Dioxane                 | 0.159 | 0.148  | 6.9   | 76    | 0.02     |
| 41 T | Tetrahydrofuran             | 0.403 | 0.383  | 5.0   | 74    | 0.01     |
| 42 T | Bromodichloromethane        | 0.688 | 0.749  | -8.9  | 83    | 0.02     |
| 43   | Methyl Methacrylate         | 0.384 | 0.361  | 6.0   | 74    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 1.622 | 1.604  | 1.1   | 77    | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 0.410 | 0.376  | 8.3   | 69    | 0.02     |
| 46 T | cis-1,3-Dichloropropene     | 0.522 | 0.496  | 5.0   | 72    | 0.02     |
| 47 T | 1,1,2-Trichloroethane       | 0.362 | 0.368  | -1.7  | 81    | 0.02     |
| 48 T | Dibromochloromethane        | 0.580 | 0.609  | -5.0  | 81    | 0.01     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
 Data File : VL042983.D  
 Acq On : 23 Sep 2025 09:14  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 23 02:39:16 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.504 | 0.506 | -0.4  | 75    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.939 | 0.935 | 0.4   | 76    | 0.02     |
| 51 T | 2-Hexanone                | 0.749 | 0.753 | -0.5  | 76    | 0.02     |
| 52 T | Tetrachloroethene         | 0.363 | 0.328 | 9.6   | 76    | 0.01     |
| 53 T | Toluene                   | 1.111 | 1.068 | 3.9   | 75    | 0.02     |
| 54 T | 1,2-Dibromoethane         | 0.510 | 0.530 | -3.9  | 82    | 0.02     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 73    | 0.01     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.479 | 0.508 | -6.1  | 81    | 0.01     |
| 57 T | Chlorobenzene             | 0.913 | 0.932 | -2.1  | 80    | 0.01     |
| 58 T | Ethyl Benzene             | 1.642 | 1.688 | -2.8  | 79    | 0.02     |
| 59 T | m/p-Xylene                | 1.295 | 1.351 | -4.3  | 81    | 0.03     |
| 60 T | o-Xylene                  | 1.294 | 1.357 | -4.9  | 81    | 0.01     |
| 61 T | Styrene                   | 0.612 | 0.595 | 2.8   | 72    | 0.01     |
| 62   | Isopropylbenzene          | 1.929 | 1.971 | -2.2  | 80    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.680 | 0.692 | -1.8  | 83    | 0.01     |
| 64   | n-propylbenzene           | 0.504 | 0.510 | -1.2  | 79    | 0.00     |
| 65   | tert-Butylbenzene         | 1.715 | 1.716 | -0.1  | 81    | 0.00     |
| 66 T | Benzyl Chloride           | 0.180 | 0.108 | 40.0# | 40    | 0.01     |
| 67   | sec-Butylbenzene          | 2.390 | 2.460 | -2.9  | 82    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.746 | 0.799 | -7.1  | 77    | 0.01     |
| 69   | p-Isopropyltoluene        | 2.019 | 2.055 | -1.8  | 81    | 0.00     |
| 70   | n-Butylbenzene            | 1.971 | 2.086 | -5.8  | 81    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.456 | 1.490 | -2.3  | 80    | 0.01     |
| 72 T | 4-Ethyltoluene            | 1.621 | 1.661 | -2.5  | 80    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.314 | 1.376 | -4.7  | 80    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.451 | 1.527 | -5.2  | 83    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.900 | 0.918 | -2.0  | 80    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.894 | 0.920 | -2.9  | 80    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.856 | 0.878 | -2.6  | 81    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.670 | 0.600 | 10.4  | 76    | 0.00     |
| 79 T | Naphthalene               | 1.283 | 1.412 | -10.1 | 75    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.396 | 0.353 | 10.9  | 64    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.686 | 0.733 | -6.9  | 75    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042983.D  
Acq On : 23 Sep 2025 09:14  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 24 02:04:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 82    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.921  | 0.8   | 88    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.643  | 3.6   | 84    | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.147  | 8.5   | 82    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.722  | 12.8  | 84    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 8.975  | 10.3  | 86    | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.948  | 10.5  | 80    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.434  | 5.7   | 85    | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.122  | 18.8  | 71    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.876  | 11.2  | 76    | 0.02     |
| 11 T | Trichlorofluoromethane      | 10.000 | 10.181 | -1.8  | 90    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 9.809  | 1.9   | 88    | 0.00     |
| 13   | Ethanol                     | 10.000 | 6.559  | 34.4# | 72    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.295  | 7.1   | 84    | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.031  | 19.7  | 86    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.604  | 14.0  | 83    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.383  | 16.2  | 73    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.368  | 6.3   | 84    | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.633  | 13.7  | 77    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 10.264 | -2.6  | 84    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.235  | 7.7   | 80    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.260  | 7.4   | 83    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 8.857  | 11.4  | 85    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 9.596  | 4.0   | 86    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.170  | 8.3   | 79    | 0.00     |
| 26 T | Hexane                      | 10.000 | 8.959  | 10.4  | 79    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.019  | 9.8   | 78    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.393  | 16.1  | 84    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.239 | -2.4  | 89    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.022  | 9.8   | 78    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.555  | 4.5   | 81    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.228  | 7.7   | 84    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 75    | 0.01     |
| 34 T | 2-Butanone                  | 10.000 | 10.023 | -0.2  | 81    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 10.791 | -7.9  | 87    | 0.02     |
| 36 T | Benzene                     | 10.000 | 10.014 | -0.1  | 79    | 0.01     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 11.424 | -14.2 | 91    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.427  | 5.7   | 78    | 0.02     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 10.186 | -1.9  | 81    | 0.02     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.285  | 7.1   | 76    | 0.02     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.498  | 5.0   | 74    | 0.01     |
| 42 T | Bromodichloromethane        | 10.000 | 10.891 | -8.9  | 83    | 0.02     |
| 43   | Methyl Methacrylate         | 10.000 | 9.394  | 6.1   | 74    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.887  | 1.1   | 77    | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 9.169  | 8.3   | 69    | 0.02     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 9.498  | 5.0   | 72    | 0.02     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 10.149 | -1.5  | 81    | 0.02     |
| 48 T | Dibromochloromethane        | 10.000 | 10.500 | -5.0  | 81    | 0.01     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042983.D  
Acq On : 23 Sep 2025 09:14  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 24 02:04:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 10.047 | -0.5  | 75    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.951  | 0.5   | 76    | 0.02     |
| 51 T | 2-Hexanone                | 10.000 | 10.057 | -0.6  | 76    | 0.02     |
| 52 T | Tetrachloroethene         | 10.000 | 9.033  | 9.7   | 76    | 0.01     |
| 53 T | Toluene                   | 10.000 | 9.612  | 3.9   | 75    | 0.02     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.396 | -4.0  | 82    | 0.02     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 73    | 0.01     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 10.604 | -6.0  | 81    | 0.01     |
| 57 T | Chlorobenzene             | 10.000 | 10.210 | -2.1  | 80    | 0.01     |
| 58 T | Ethyl Benzene             | 10.000 | 10.281 | -2.8  | 79    | 0.02     |
| 59 T | m/p-Xylene                | 20.000 | 20.873 | -4.4  | 81    | 0.03     |
| 60 T | o-Xylene                  | 10.000 | 10.485 | -4.8  | 81    | 0.01     |
| 61 T | Styrene                   | 10.000 | 9.728  | 2.7   | 72    | 0.01     |
| 62   | Isopropylbenzene          | 10.000 | 10.219 | -2.2  | 80    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 10.175 | -1.8  | 83    | 0.01     |
| 64   | n-propylbenzene           | 10.000 | 10.113 | -1.1  | 79    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 10.004 | -0.0  | 81    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 5.982  | 40.2# | 40    | 0.01     |
| 67   | sec-Butylbenzene          | 10.000 | 10.290 | -2.9  | 82    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.709 | -7.1  | 77    | 0.01     |
| 69   | p-Isopropyltoluene        | 10.000 | 10.179 | -1.8  | 81    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 10.584 | -5.8  | 81    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 10.234 | -2.3  | 80    | 0.01     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.248 | -2.5  | 80    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.472 | -4.7  | 80    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 10.521 | -5.2  | 83    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 10.203 | -2.0  | 80    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 10.293 | -2.9  | 80    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 10.247 | -2.5  | 81    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.956  | 10.4  | 76    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 11.001 | -10.0 | 75    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 8.892  | 11.1  | 64    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.684 | -6.8  | 75    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042984.D  
Acq On : 23 Sep 2025 10:01  
Operator : SY/MD  
Sample : VL0923ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.794 | 49   | 140749   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 395903   | 10.000 | ppbv  | 0.01     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 343517   | 10.000 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 271935   | 10.605   | ppbv | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.000% |

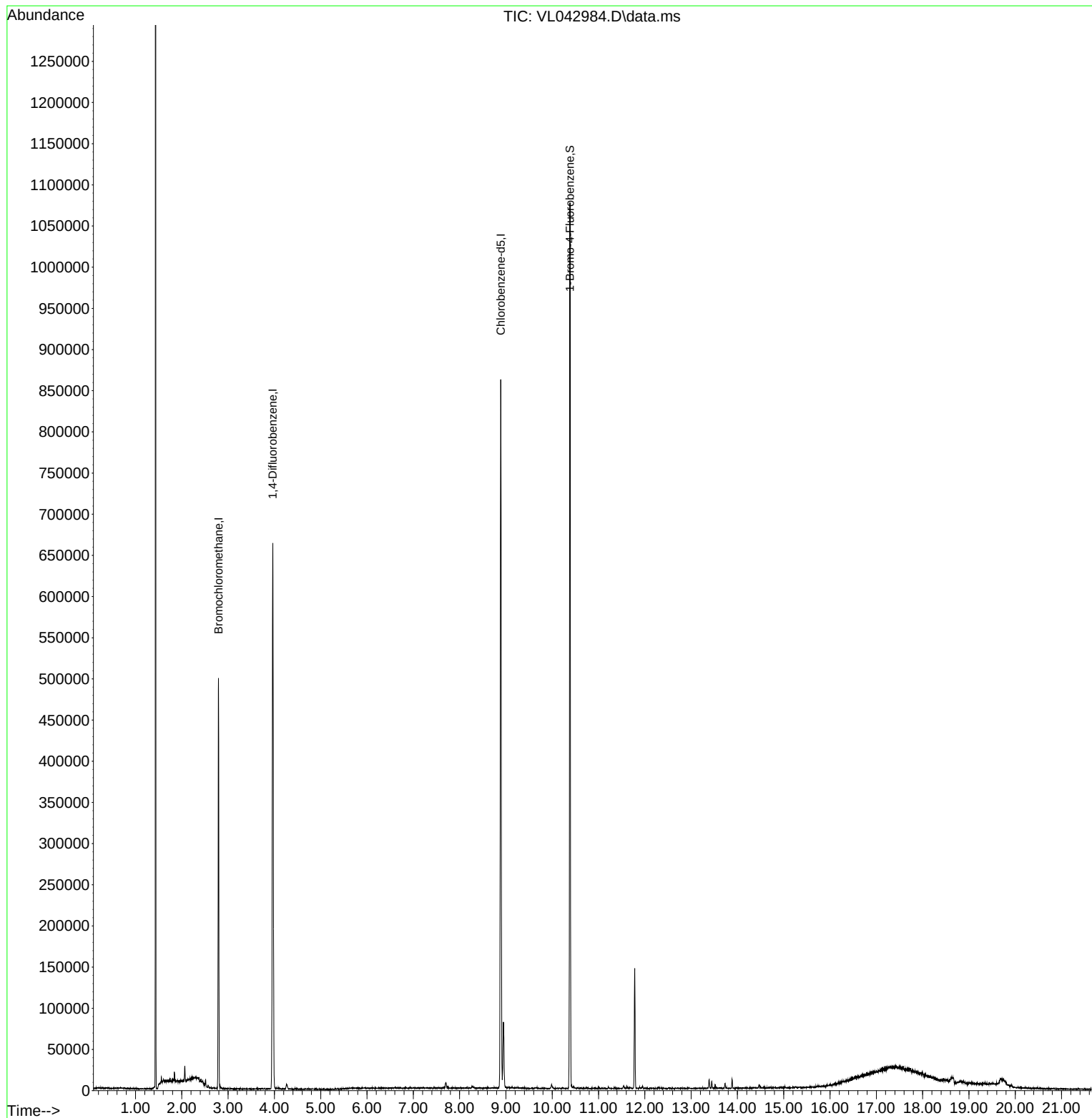
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042984.D  
Acq On : 23 Sep 2025 10:01  
Operator : SY/MD  
Sample : VL0923ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
 Data File : VL042985.D  
 Acq On : 23 Sep 2025 10:46  
 Operator : SY/MD  
 Sample : VL0923ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0923ABS01

Quant Time: Sep 24 02:05:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/24/2025  
 Supervised By : Mahesh Dadoda 09/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.787  | 49    | 141345   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.958  | 114   | 400881   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 355060   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 285118   | 10.757   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 107.600% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 189707   | 9.979    | ppbv       | 98       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 229022   | 9.665    | ppbv       | 96       |
| 4) Chloromethane              | 1.534  | 50    | 80187    | 9.319    | ppbv       | 99       |
| 5) Vinyl Chloride             | 1.580  | 62    | 68503    | 8.806    | ppbv       | 98       |
| 6) Bromomethane               | 1.667  | 94    | 24823    | 9.046    | ppbv       | 97       |
| 7) Chloroethane               | 1.706  | 64    | 27737    | 9.182    | ppbv       | 99       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 155561   | 9.585    | ppbv       | 99       |
| 9) Propene                    | 1.482  | 41    | 83859    | 8.135    | ppbv       | 96       |
| 10) Heptane                   | 4.981  | 43    | 244830   | 8.900    | ppbv       | 99       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 187304   | 10.218   | ppbv       | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 145246   | 9.785    | ppbv       | 100      |
| 13) Ethanol                   | 1.722  | 45    | 6053     | 6.053    | ppbv       | 93       |
| 14) Bromoethene               | 1.783  | 108   | 52420    | 9.341    | ppbv       | 99       |
| 15) Acetone                   | 1.835  | 43    | 151197   | 8.213    | ppbv       | 95       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 75511    | 8.696    | ppbv       | 95       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 167211   | 8.281    | ppbv       | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 65099    | 9.475    | ppbv       | 98       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 91978    | 8.311    | ppbv       | 95       |
| 20) Methylene Chloride        | 2.062  | 84    | 56301    | 10.276   | ppbv       | 99       |
| 21) Allyl Chloride            | 2.097  | 41    | 119358   | 9.310    | ppbv       | 95       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 74438    | 9.534    | ppbv       | 97       |
| 23) Vinyl Acetate             | 2.463  | 43    | 213995   | 8.137    | ppbv       | # 98     |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 146400   | 9.562    | ppbv       | 98       |
| 25) Ethyl Acetate             | 2.835  | 43    | 424873   | 9.132    | ppbv       | 99       |
| 26) Hexane                    | 2.826  | 57    | 189786   | 8.948    | ppbv       | 98       |
| 27) Carbon Disulfide          | 2.149  | 76    | 171644   | 9.023    | ppbv       | 98       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 84694    | 7.682    | ppbv       | 95       |
| 29) Chloroform                | 2.848  | 83    | 283787   | 10.233   | ppbv       | 99       |
| 30) Cyclohexane               | 3.855  | 84    | 158294   | 8.927    | ppbv       | 98       |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 189377   | 9.532    | ppbv       | 98       |
| 32) 1,1,1-Trichloroethane     | 3.369  | 97    | 273236   | 9.122    | ppbv       | 98       |
| 34) 2-Butanone                | 2.557  | 43    | 277525   | 9.878    | ppbv       | 100      |
| 35) Carbon Tetrachloride      | 3.764  | 117   | 284218   | 10.890   | ppbv       | 99       |
| 36) Benzene                   | 3.657  | 78    | 374729   | 9.954    | ppbv       | 97       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 225333   | 11.381   | ppbv       | 97       |
| 38) Trichloroethene           | 4.548  | 130   | 175469   | 9.379    | ppbv       | 95       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 137775   | 10.025   | ppbv       | 94       |
| 40) 1,4-Dioxane               | 4.577  | 88    | 56926    | 8.908    | ppbv       | # 99     |
| 41) Tetrahydrofuran           | 3.052  | 42    | 153071   | 9.479    | ppbv       | 99       |
| 42) Bromodichloromethane      | 4.489  | 83    | 301564   | 10.937   | ppbv       | 98       |
| 43) Methyl Methacrylate       | 4.878  | 69    | 143822   | 9.338    | ppbv       | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.641  | 57    | 644168   | 9.907    | ppbv       | 97       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 146403   | 8.913    | ppbv       | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
 Data File : VL042985.D  
 Acq On : 23 Sep 2025 10:46  
 Operator : SY/MD  
 Sample : VL0923ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0923ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025  
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:05:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 199882   | 9.548  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 146862   | 10.114 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.389  | 129  | 239646   | 10.315 | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 200469   | 9.920  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 376317   | 9.994  | ppbv   | 98       |
| 51) 2-Hexanone                | 7.438  | 43   | 296793   | 9.888  | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.228  | 164  | 129889   | 8.917  | ppbv   | 97       |
| 53) Toluene                   | 6.933  | 91   | 429817   | 9.647  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 207545   | 10.155 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 178090   | 10.479 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 334709   | 10.326 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.357  | 91   | 594235   | 10.192 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.551  | 91   | 960667m  | 20.900 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 478503   | 10.416 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 213951   | 9.846  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 701023   | 10.237 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 246097   | 10.192 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 182650   | 10.207 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 617982   | 10.146 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.616 | 91   | 37909    | 5.932  | ppbv   | 96       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 870866   | 10.261 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 731903   | 10.209 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.283 | 91   | 755608   | 10.795 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 536204   | 10.370 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 591673   | 10.283 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 488186   | 10.461 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 537697   | 10.434 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 320019   | 10.013 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 325338   | 10.250 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 313262   | 10.302 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 213384   | 8.972  | ppbv   | 99       |
| 79) Naphthalene               | 13.513 | 128  | 492107   | 10.799 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 129885   | 9.227  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 258061   | 10.592 | ppbv   | 99       |

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

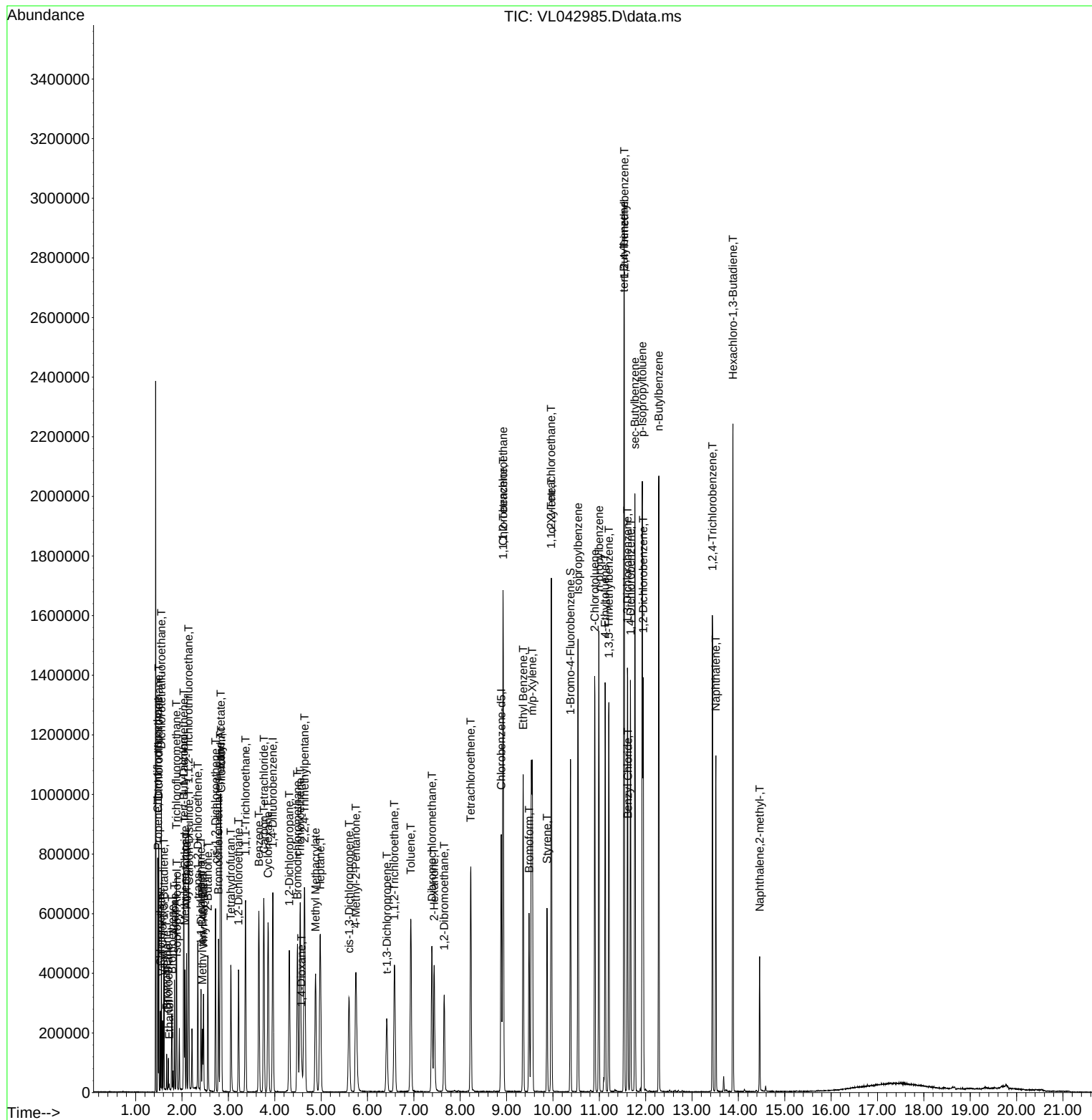
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042985.D  
Acq On : 23 Sep 2025 10:46  
Operator : SY/MD  
Sample : VL0923ABS01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0923ABS01

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025  
Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:05:30 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042989.D  
Acq On : 23 Sep 2025 13:26  
Operator : SY/MD  
Sample : CAN 10747  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
CAN 10747

Quant Time: Sep 24 02:07:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 149203   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 404080   | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 359428   | 10.000 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 280412   | 10.451   | ppbv | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.500% |

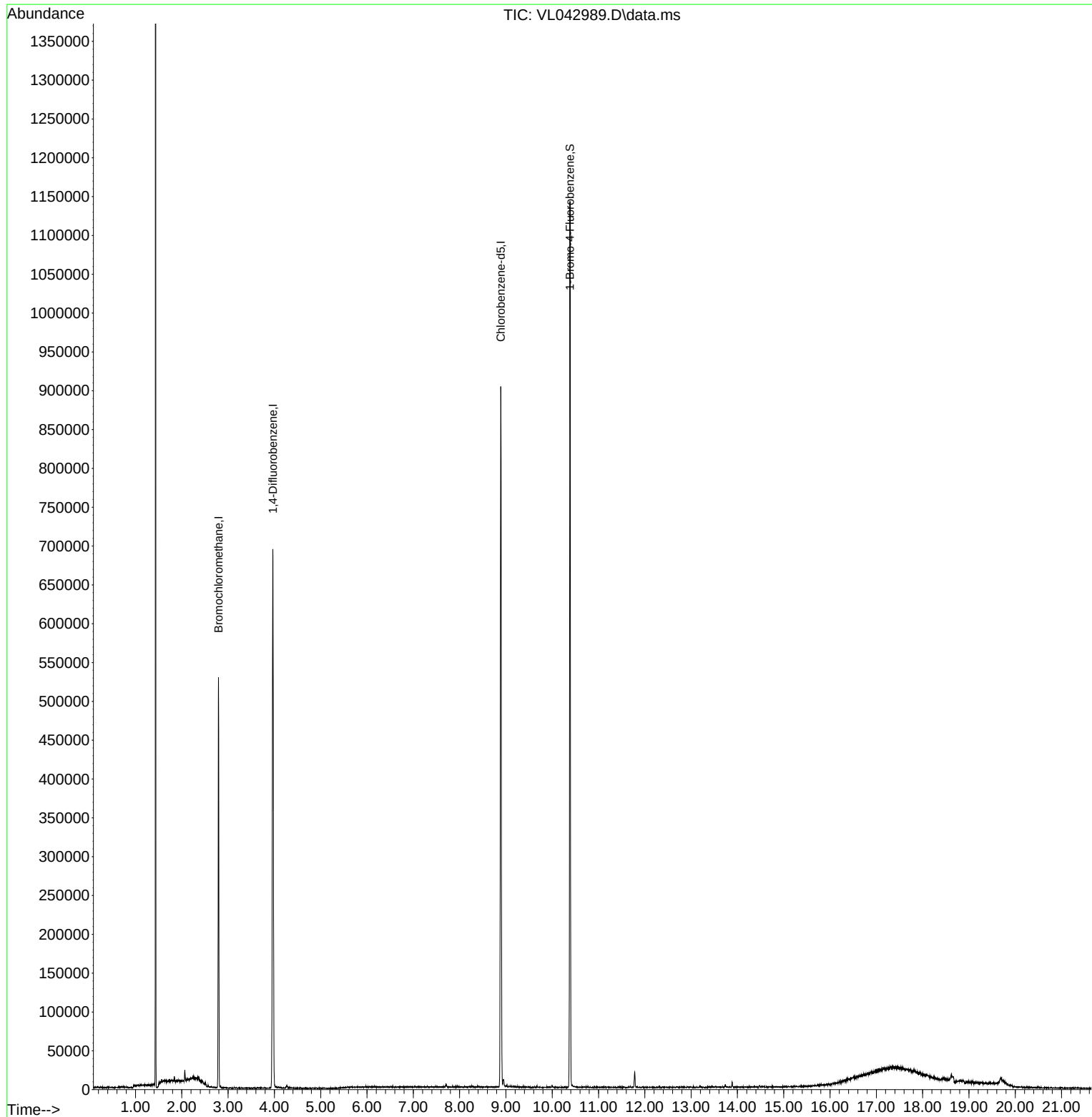
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042989.D  
Acq On : 23 Sep 2025 13:26  
Operator : SY/MD  
Sample : CAN 10747  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
CAN 10747

Quant Time: Sep 24 02:07:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 23 02:39:16 2025  
Response via : Initial Calibration



Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL091725**

|                          |                      |                      |                      |
|--------------------------|----------------------|----------------------|----------------------|
| Review By                | Semsettin Yesilyurt  | Review On            | 9/18/2025 8:35:15 AM |
| Supervise By             | Maresh Dadoda        | Supervise On         | 9/18/2025 3:24:41 PM |
| SubDirectory             | VL091725             | HP Acquire Method    | TO15AIR              |
|                          |                      | HP Processing Method | VL091725AIR.M        |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                      |
| Tune/Reschk              | AP2664               |                      |                      |
| Initial Calibration Stds | AP2666,AP2668,AP2669 |                      |                      |
| CCC                      | AP2666               |                      |                      |
| Internal Standard/PEM    | AP2664               |                      |                      |
| ICV/I.BLK                | AP2671               |                      |                      |
| Surrogate Standard       |                      |                      |                      |
| MS/MSD Standard          |                      |                      |                      |
| LCS Standard             |                      |                      |                      |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VL042928.D     | 17 Sep 2025 07:51 | SY/MD    | Ok     |
| 2   | VSTDICCC010  | VL042929.D     | 17 Sep 2025 10:12 | SY/MD    | Not Ok |
| 3   | VSTDICCC002  | VL042930.D     | 17 Sep 2025 10:48 | SY/MD    | Ok,M   |
| 4   | VSTDICCC001  | VL042931.D     | 17 Sep 2025 11:23 | SY/MD    | Ok,M   |
| 5   | VSTDICCC0.5  | VL042932.D     | 17 Sep 2025 11:58 | SY/MD    | Ok,M   |
| 6   | VSTDICCC0.1  | VL042933.D     | 17 Sep 2025 12:32 | SY/MD    | Ok,M   |
| 7   | VSTDICCC0.03 | VL042934.D     | 17 Sep 2025 13:07 | SY/MD    | Ok,M   |
| 8   | VSTDICCC010  | VL042935.D     | 17 Sep 2025 13:42 | SY/MD    | Ok,M   |
| 9   | VSTDICCC015  | VL042936.D     | 17 Sep 2025 14:17 | SY/MD    | Ok,M   |
| 10  | VSTDICCV010  | VL042937.D     | 17 Sep 2025 14:52 | SY/MD    | Ok,M   |

M : Manual Integration



Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL091825**

|                          |                      |                      |                      |
|--------------------------|----------------------|----------------------|----------------------|
| Review By                | Semsettin Yesilyurt  | Review On            | 9/19/2025 9:39:49 AM |
| Supervise By             | Maresh Dadoda        | Supervise On         | 9/24/2025 2:15:54 AM |
| SubDirectory             | VL091825             | HP Acquire Method    | TO15AIR              |
|                          |                      | HP Processing Method | VL091725AIR.M        |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                      |
| Tune/Reschk              | AP2664               |                      |                      |
| Initial Calibration Stds | AP2666,AP2668,AP2669 |                      |                      |
| CCC                      | AP2666               |                      |                      |
| Internal Standard/PEM    | AP2664               |                      |                      |
| ICV/I.BLK                | AP2671               |                      |                      |
| Surrogate Standard       |                      |                      |                      |
| MS/MSD Standard          |                      |                      |                      |
| LCS Standard             |                      |                      |                      |

| Sr# | SampleId           | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------------|----------------|-------------------|----------|----------|
| 1   | BFB                | VL042938.D     | 18 Sep 2025 07:46 | SY/MD    | Ok       |
| 2   | VSTDCCC010         | VL042939.D     | 18 Sep 2025 09:38 | SY/MD    | Ok,M     |
| 3   | VL0918ABL01        | VL042940.D     | 18 Sep 2025 11:01 | SY/MD    | Ok       |
| 4   | VL0918ABS01        | VL042941.D     | 18 Sep 2025 11:37 | SY/MD    | Not Ok   |
| 5   | QC091125 CAN 10060 | VL042942.D     | 18 Sep 2025 12:14 | SY/MD    | Ok       |
| 6   | VL0918ABS02        | VL042943.D     | 18 Sep 2025 12:49 | SY/MD    | Ok,M     |
| 7   | Q3111-02DL         | VL042944.D     | 18 Sep 2025 14:01 | SY/MD    | Not Ok   |
| 8   | Q3111-02           | VL042945.D     | 18 Sep 2025 14:37 | SY/MD    | Dilution |
| 9   | Q3111-02DUP        | VL042946.D     | 18 Sep 2025 15:13 | SY/MD    | Ok,M     |
| 10  | Q3111-02DL         | VL042947.D     | 18 Sep 2025 15:50 | SY/MD    | Ok,M     |
| 11  | Q3111-01           | VL042948.D     | 18 Sep 2025 16:30 | SY/MD    | Not Ok   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL092225**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda       | Review On            | 9/24/2025 2:18:14 AM |                      |               |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 9/24/2025 2:26:00 AM |                      |               |
| SubDirectory             | VL092225            | HP Acquire Method    | TO15AIR              | HP Processing Method | VL092225AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2676               |                      |                      |               |
| Initial Calibration Stds |                     | AP2673,AP2674,AP2675 |                      |                      |               |
| CCC                      |                     | AP2673               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2676               |                      |                      |               |
| ICV/I.BLK                |                     | AP2671               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | BFB          | VL042949.D     | 22 Sep 2025 08:55 | SY/MD    | Ok       |
| 2   | VSTDICCC010  | VL042950.D     | 22 Sep 2025 09:39 | SY/MD    | Ok,M     |
| 3   | VSTDICCC002  | VL042951.D     | 22 Sep 2025 10:14 | SY/MD    | Ok,M     |
| 4   | VSTDICCC001  | VL042952.D     | 22 Sep 2025 10:48 | SY/MD    | Ok,M     |
| 5   | VSTDICCC0.5  | VL042953.D     | 22 Sep 2025 11:22 | SY/MD    | Ok,M     |
| 6   | VSTDICCC0.1  | VL042954.D     | 22 Sep 2025 11:56 | SY/MD    | Ok,M     |
| 7   | VSTDICCC0.03 | VL042955.D     | 22 Sep 2025 12:30 | SY/MD    | Ok,M     |
| 8   | VSTDICCC015  | VL042956.D     | 22 Sep 2025 13:05 | SY/MD    | Ok,M     |
| 9   | VSTDICV010   | VL042957.D     | 22 Sep 2025 14:15 | SY/MD    | Ok,M     |
| 10  | VL0922ABL01  | VL042958.D     | 22 Sep 2025 15:06 | SY/MD    | Ok       |
| 11  | VL0922ABS01  | VL042959.D     | 22 Sep 2025 15:52 | SY/MD    | Ok,M     |
| 12  | Q3111-01     | VL042960.D     | 22 Sep 2025 16:53 | SY/MD    | Dilution |
| 13  | Q3111-01DL   | VL042961.D     | 22 Sep 2025 17:28 | SY/MD    | Ok,M     |
| 14  | Q3112-01     | VL042962.D     | 22 Sep 2025 18:04 | SY/MD    | Ok,M     |
| 15  | Q3112-01DL   | VL042963.D     | 22 Sep 2025 18:39 | SY/MD    | Not Ok   |
| 16  | Q3112-02     | VL042964.D     | 22 Sep 2025 19:14 | SY/MD    | Dilution |
| 17  | Q3112-02DL   | VL042965.D     | 22 Sep 2025 19:49 | SY/MD    | Ok       |
| 18  | Q3112-03     | VL042966.D     | 22 Sep 2025 20:24 | SY/MD    | Ok,M     |
| 19  | Q3112-03DL   | VL042967.D     | 22 Sep 2025 20:59 | SY/MD    | Not Ok   |
| 20  | VIBLK        | VL042968.D     | 22 Sep 2025 21:35 | SY/MD    | Ok       |
| 21  | Q3130-02     | VL042969.D     | 22 Sep 2025 22:11 | SY/MD    | Ok,M     |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL092225**

| Review By                | Maresh Dadoda        | Review On         | 9/24/2025 2:18:14 AM |                      |               |
|--------------------------|----------------------|-------------------|----------------------|----------------------|---------------|
| Supervise By             | Semsettin Yesilyurt  | Supervise On      | 9/24/2025 2:26:00 AM |                      |               |
| SubDirectory             | VL092225             | HP Acquire Method | TO15AIR              | HP Processing Method | VL092225AIR.M |
| STD. NAME                |                      | STD REF.#         |                      |                      |               |
| Tune/Reschk              | AP2676               |                   |                      |                      |               |
| Initial Calibration Stds | AP2673,AP2674,AP2675 |                   |                      |                      |               |
| CCC                      | AP2673               |                   |                      |                      |               |
| Internal Standard/PEM    | AP2676               |                   |                      |                      |               |
| ICV/I.BLK                | AP2671               |                   |                      |                      |               |
| Surrogate Standard       |                      |                   |                      |                      |               |
| MS/MSD Standard          |                      |                   |                      |                      |               |
| LCS Standard             |                      |                   |                      |                      |               |

|    |             |            |                   |       |          |
|----|-------------|------------|-------------------|-------|----------|
| 22 | Q3130-02DUP | VL042970.D | 22 Sep 2025 22:48 | SY/MD | Ok,M     |
| 23 | Q3130-02DL  | VL042971.D | 22 Sep 2025 23:23 | SY/MD | Not Ok   |
| 24 | Q3130-01    | VL042972.D | 23 Sep 2025 00:00 | SY/MD | Ok,M     |
| 25 | Q3130-01DL  | VL042973.D | 23 Sep 2025 00:35 | SY/MD | Not Ok   |
| 26 | Q3131-01    | VL042974.D | 23 Sep 2025 01:11 | SY/MD | Dilution |
| 27 | Q3131-01DL  | VL042975.D | 23 Sep 2025 01:46 | SY/MD | Ok,M     |
| 28 | Q3131-02    | VL042976.D | 23 Sep 2025 02:22 | SY/MD | Dilution |
| 29 | Q3131-02DL  | VL042977.D | 23 Sep 2025 02:57 | SY/MD | Ok,M     |
| 30 | Q3132-01    | VL042978.D | 23 Sep 2025 03:33 | SY/MD | Dilution |
| 31 | Q3132-01DL  | VL042979.D | 23 Sep 2025 04:08 | SY/MD | Ok,M     |
| 32 | Q3132-02    | VL042980.D | 23 Sep 2025 04:44 | SY/MD | Ok,M     |
| 33 | Q3132-02DL  | VL042981.D | 23 Sep 2025 05:19 | SY/MD | Not Ok   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL092325**

|                          |                      |                      |                      |
|--------------------------|----------------------|----------------------|----------------------|
| Review By                | Semsettin Yesilyurt  | Review On            | 9/24/2025 9:13:51 AM |
| Supervise By             | Maresh Dadoda        | Supervise On         | 9/26/2025 1:40:16 AM |
| SubDirectory             | VL092325             | HP Acquire Method    | TO15AIR              |
|                          |                      | HP Processing Method | VL092225AIR.M        |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                      |
| Tune/Reschk              | AP2676               |                      |                      |
| Initial Calibration Stds | AP2673,AP2674,AP2675 |                      |                      |
| CCC                      | AP2673               |                      |                      |
| Internal Standard/PEM    | AP2676               |                      |                      |
| ICV/I.BLK                | AP2671               |                      |                      |
| Surrogate Standard       |                      |                      |                      |
| MS/MSD Standard          |                      |                      |                      |
| LCS Standard             |                      |                      |                      |

| Sr# | Sampled              | Data File Name | Date-Time         | Operator | Status |
|-----|----------------------|----------------|-------------------|----------|--------|
| 1   | BFB                  | VL042982.D     | 23 Sep 2025 08:30 | SY/MD    | Ok     |
| 2   | VSTDCCC010           | VL042983.D     | 23 Sep 2025 09:14 | SY/MD    | Ok,M   |
| 3   | VL0923ABL01          | VL042984.D     | 23 Sep 2025 10:01 | SY/MD    | Ok     |
| 4   | VL0923ABS01          | VL042985.D     | 23 Sep 2025 10:46 | SY/MD    | Ok,M   |
| 5   | CAN 10147            | VL042986.D     | 23 Sep 2025 11:40 | SY/MD    | Ok     |
| 6   | CAN 10136            | VL042987.D     | 23 Sep 2025 12:15 | SY/MD    | Ok     |
| 7   | CAN 10684            | VL042988.D     | 23 Sep 2025 12:50 | SY/MD    | Ok     |
| 8   | CAN 10747            | VL042989.D     | 23 Sep 2025 13:26 | SY/MD    | Ok     |
| 9   | CAN 10420            | VL042990.D     | 23 Sep 2025 14:01 | SY/MD    | Ok     |
| 10  | CAN 10743            | VL042991.D     | 23 Sep 2025 14:37 | SY/MD    | Ok     |
| 11  | CAN 10668            | VL042992.D     | 23 Sep 2025 15:13 | SY/MD    | Ok     |
| 12  | Q2893-14 0.5 PPB LOQ | VL042993.D     | 23 Sep 2025 15:49 | SY/MD    | ReRun  |
| 13  | Q2893-14 0.1 PPB LOQ | VL042994.D     | 23 Sep 2025 16:25 | SY/MD    | Ok,M   |
| 14  | Q2893-13 0.45        | VL042995.D     | 23 Sep 2025 17:01 | SY/MD    | Ok,M   |
| 15  | Q2893-13 0.40        | VL042996.D     | 23 Sep 2025 17:36 | SY/MD    | Ok,M   |
| 16  | Q2893-13 0.1         | VL042997.D     | 23 Sep 2025 18:12 | SY/MD    | Ok,M   |
| 17  | Q2893-13 0.03        | VL042998.D     | 23 Sep 2025 18:48 | SY/MD    | Ok,M   |
| 18  | Q2893-14 0.03        | VL042999.D     | 23 Sep 2025 19:24 | SY/MD    | ReRun  |

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043105.D  
 Acq On : 14 Oct 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Oct 15 01:51:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 103971   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 341790   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 309230   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 10.380 95 241468 10.046 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

| Target Compounds              | Qvalue |     |        |       |        |     |
|-------------------------------|--------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 132845 | 8.987 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 150832 | 9.431 | ppbv   | 100 |
| 4) Chloromethane              | 1.535  | 50  | 51934  | 8.869 | ppbv   | 100 |
| 5) Vinyl Chloride             | 1.583  | 62  | 50044  | 8.713 | ppbv   | 100 |
| 6) Bromomethane               | 1.671  | 94  | 27062  | 8.593 | ppbv   | 100 |
| 7) Chloroethane               | 1.706  | 64  | 19941  | 8.492 | ppbv   | 100 |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85  | 108109 | 9.049 | ppbv   | 100 |
| 9) Propene                    | 1.483  | 41  | 68116  | 9.602 | ppbv   | 100 |
| 10) Heptane                   | 4.985  | 43  | 187423 | 9.217 | ppbv   | 100 |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 129180 | 8.935 | ppbv   | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101 | 101442 | 8.715 | ppbv   | 100 |
| 13) Ethanol                   | 1.722  | 45  | 20045  | 7.640 | ppbv   | 100 |
| 14) Bromoethene               | 1.784  | 108 | 38553  | 8.916 | ppbv   | 100 |
| 15) Acetone                   | 1.836  | 43  | 113399 | 8.047 | ppbv   | 100 |
| 16) 1,3-Butadiene             | 1.612  | 39  | 57406  | 8.596 | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 2.043  | 59  | 175630 | 9.130 | ppbv   | 100 |
| 18) 1,1-Dichloroethene        | 2.036  | 96  | 45413  | 8.949 | ppbv   | 100 |
| 19) Isopropyl Alcohol         | 1.887  | 45  | 75355  | 8.634 | ppbv   | 97  |
| 20) Methylene Chloride        | 2.065  | 84  | 42212  | 7.620 | ppbv   | 100 |
| 21) Allyl Chloride            | 2.098  | 41  | 94625  | 9.145 | ppbv   | 100 |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96  | 53146  | 8.761 | ppbv   | 100 |
| 23) Vinyl Acetate             | 2.467  | 43  | 168706 | 8.218 | ppbv   | 100 |
| 24) 1,1-Dichloroethane        | 2.412  | 63  | 107153 | 9.143 | ppbv   | 100 |
| 25) Ethyl Acetate             | 2.839  | 43  | 325662 | 9.371 | ppbv   | 100 |
| 26) Hexane                    | 2.829  | 57  | 146168 | 9.128 | ppbv   | 99  |
| 27) Carbon Disulfide          | 2.153  | 76  | 136729 | 9.319 | ppbv   | 99  |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73  | 61076  | 8.384 | ppbv   | 98  |
| 29) Chloroform                | 2.852  | 83  | 211071 | 9.097 | ppbv   | 100 |
| 30) Cyclohexane               | 3.862  | 84  | 126226 | 9.037 | ppbv   | 100 |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61  | 146072 | 9.553 | ppbv   | 100 |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97  | 222043 | 9.189 | ppbv   | 100 |
| 34) 2-Butanone                | 2.557  | 43  | 207274 | 8.971 | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 3.768  | 117 | 221937 | 9.032 | ppbv   | 100 |
| 36) Benzene                   | 3.661  | 78  | 297653 | 9.246 | ppbv   | 100 |
| 37) 1,2-Dichloroethane        | 3.221  | 62  | 165898 | 8.946 | ppbv   | 100 |
| 38) Trichloroethene           | 4.554  | 130 | 116947 | 8.708 | ppbv   | 100 |
| 39) 1,2-Dichloropropane       | 4.315  | 63  | 108446 | 9.207 | ppbv   | 100 |
| 40) 1,4-Dioxane               | 4.583  | 88  | 48201  | 9.153 | ppbv # | 97  |
| 41) Tetrahydrofuran           | 3.056  | 42  | 117069 | 9.076 | ppbv   | 100 |
| 42) Bromodichloromethane      | 4.496  | 83  | 238353 | 9.286 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 4.881  | 69  | 153927 | 9.371 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 4.645  | 57  | 499148 | 9.273 | ppbv   | 99  |
| 45) t-1,3-Dichloropropene     | 6.419  | 75  | 157856 | 9.620 | ppbv   | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043105.D  
 Acq On : 14 Oct 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

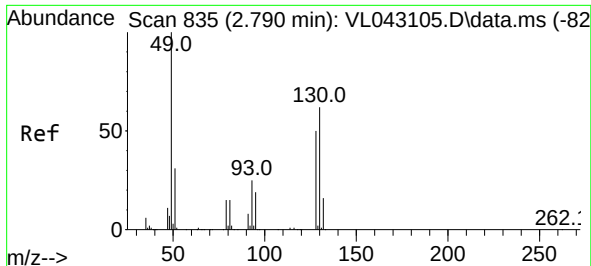
Quant Time: Oct 15 01:51:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 186533   | 9.525  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 115419   | 9.082  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.390  | 129  | 201349   | 9.476  | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 166377   | 9.633  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 298401   | 9.362  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.438  | 43   | 236391   | 9.940  | ppbv   | 100      |
| 52) Tetrachloroethene         | 8.228  | 164  | 106710   | 9.192  | ppbv   | 100      |
| 53) Toluene                   | 6.940  | 91   | 354007   | 9.266  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 182074   | 9.080  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 182585   | 9.367  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.927  | 112  | 262566   | 9.076  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.358  | 91   | 494344   | 9.241  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.536  | 91   | 403670   | 9.529  | ppbv # | 29       |
| 60) o-Xylene                  | 9.969  | 91   | 378462   | 9.053  | ppbv   | 100      |
| 61) Styrene                   | 9.875  | 104  | 178859   | 9.477  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.542 | 105  | 692992   | 9.173  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 240245   | 8.582  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 182233   | 9.112  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.536 | 119  | 587750   | 8.810  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.617 | 91   | 74574    | 10.009 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.769 | 105  | 834052   | 8.809  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 720433   | 8.955  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 717743   | 9.053  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 524961   | 9.111  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 473042   | 9.202  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 389818   | 9.195  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 411619   | 8.676  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 252926   | 9.192  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 254461   | 9.171  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 236724   | 8.893  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 171777   | 8.334  | ppbv   | 100      |
| 79) Naphthalene               | 13.517 | 128  | 488672   | 9.972  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 147897   | 11.431 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 197210   | 9.582  | ppbv   | 100      |

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

- 1
- 2
- 3
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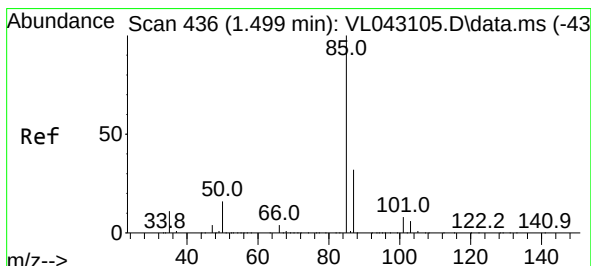
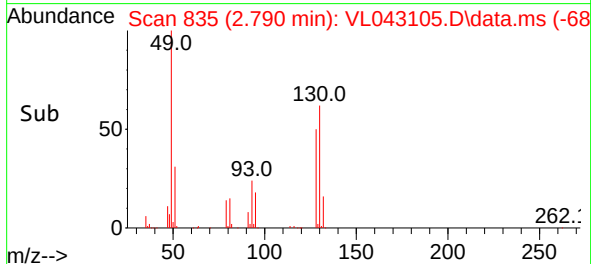
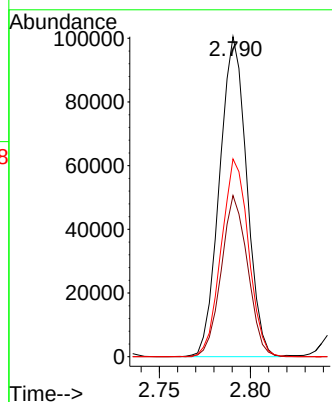
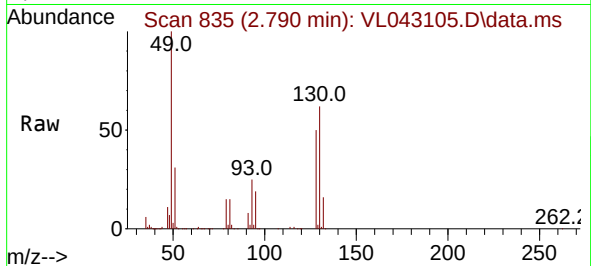




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

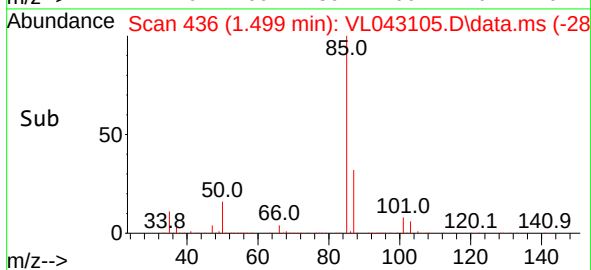
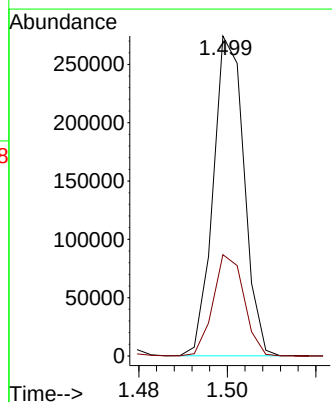
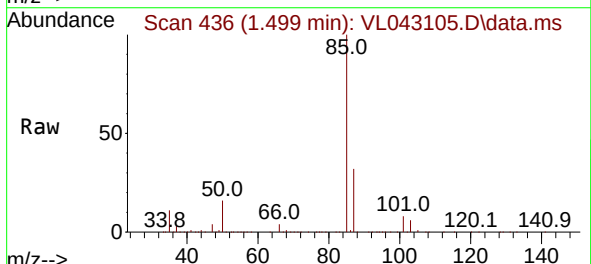
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 49 Resp: 103971  
Ion Ratio Lower Upper  
49 100  
128 48.9 24.4 73.4  
130 62.0 31.0 93.0

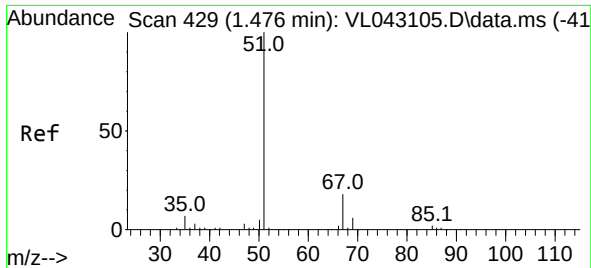


#2  
Dichlorodifluoromethane  
Concen: 8.987 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 132845  
Ion Ratio Lower Upper  
85 100  
87 31.6 25.3 37.9



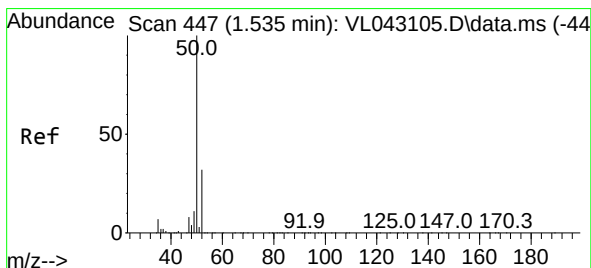
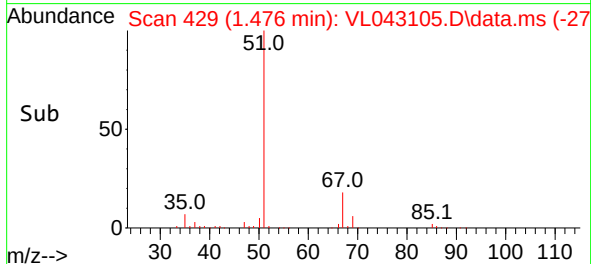
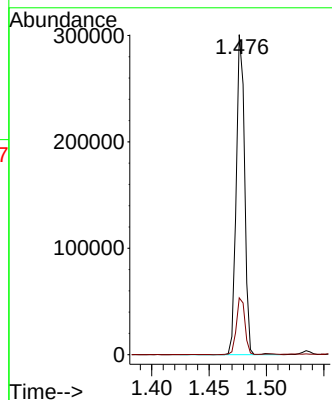
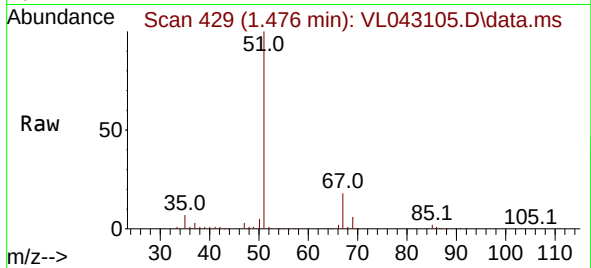




#3  
Chlorodifluoromethane  
Concen: 9.431 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

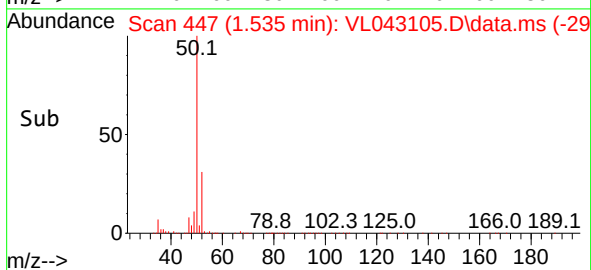
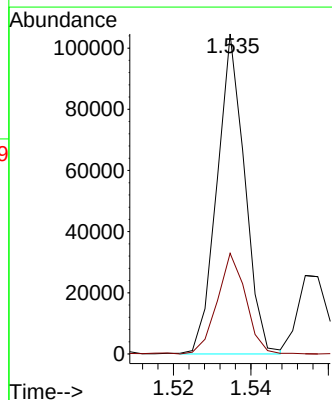
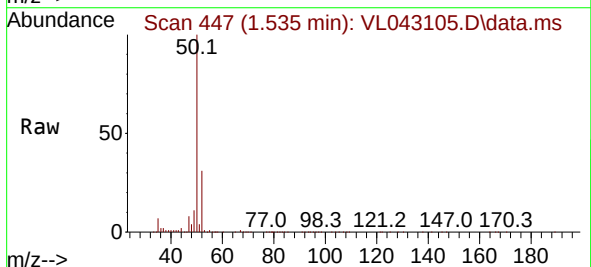
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

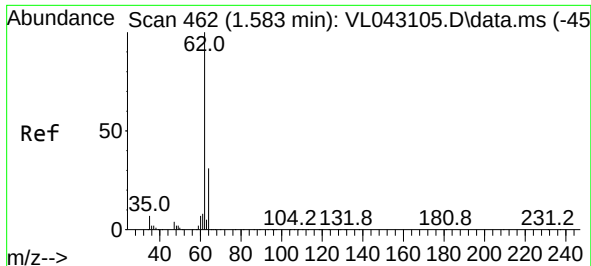
Tgt Ion: 51 Resp: 150832  
Ion Ratio Lower Upper  
51 100  
67 18.9 15.1 22.7



#4  
Chloromethane  
Concen: 8.869 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 50 Resp: 51934  
Ion Ratio Lower Upper  
50 100  
52 31.5 25.2 37.8

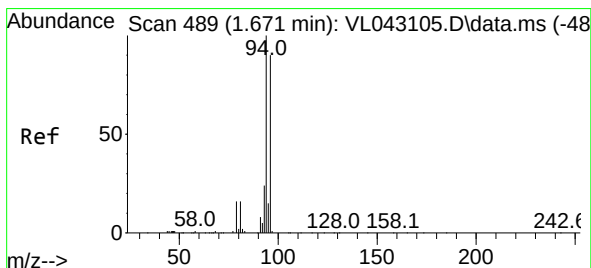
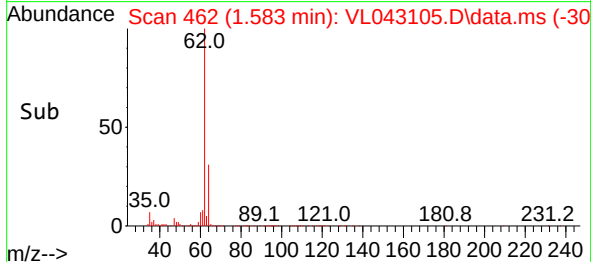
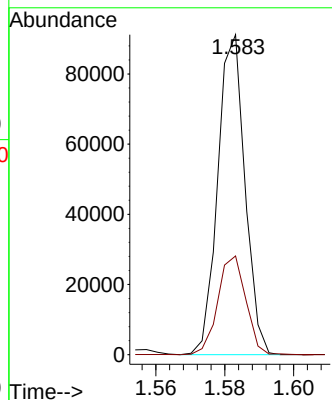
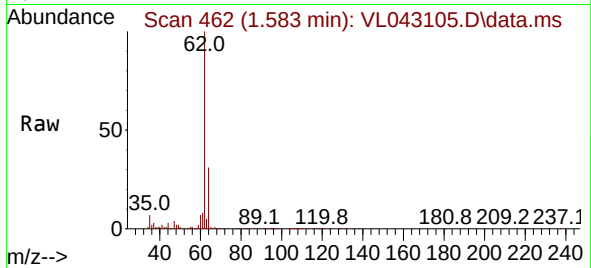




#5  
 Vinyl Chloride  
 Concen: 8.713 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

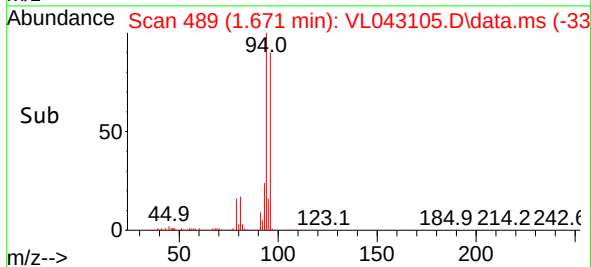
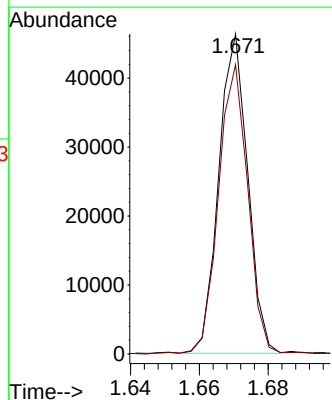
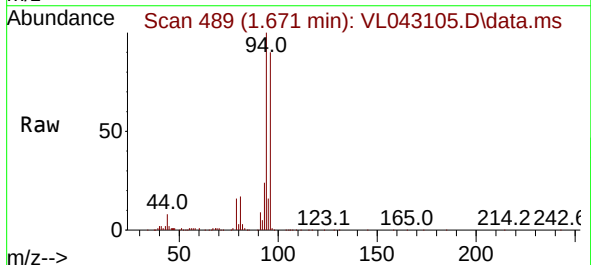
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

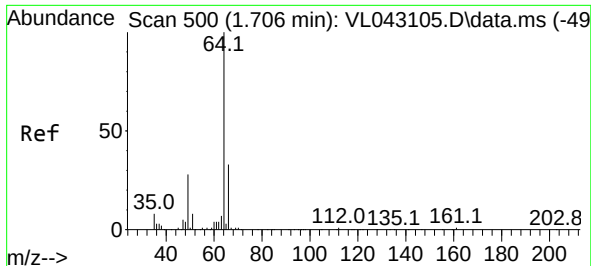
Tgt Ion: 62 Resp: 50044  
 Ion Ratio Lower Upper  
 62 100  
 64 30.7 24.6 36.8



#6  
 Bromomethane  
 Concen: 8.593 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion: 94 Resp: 27062  
 Ion Ratio Lower Upper  
 94 100  
 96 90.3 72.2 108.4

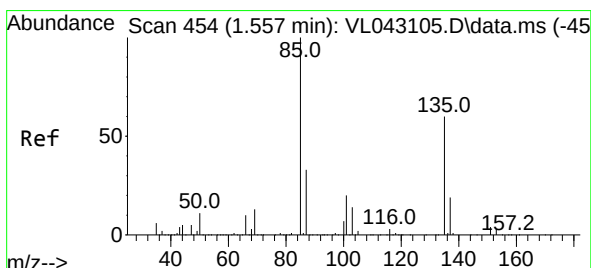
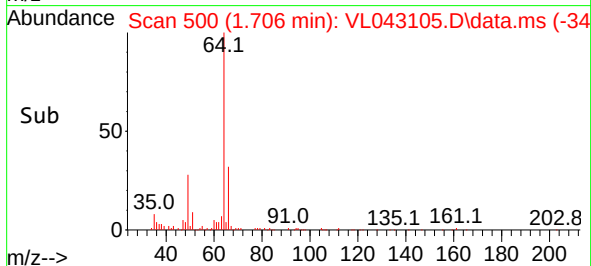
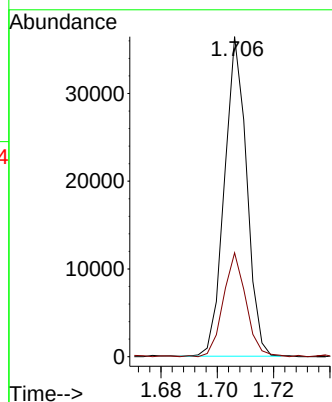
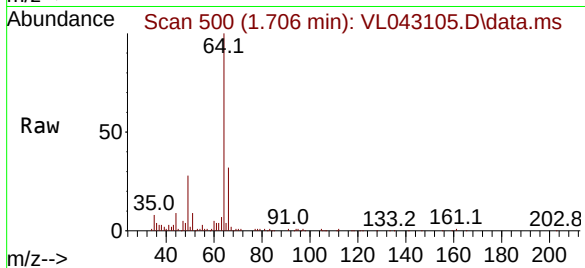




#7  
Chloroethane  
Concen: 8.492 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

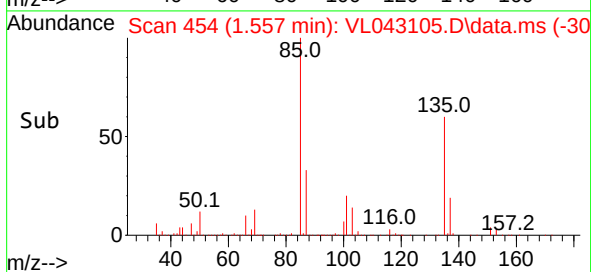
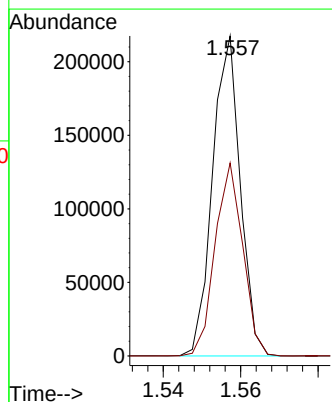
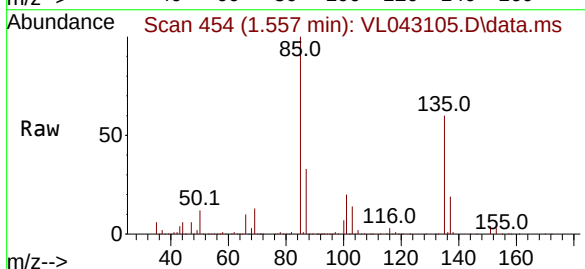
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

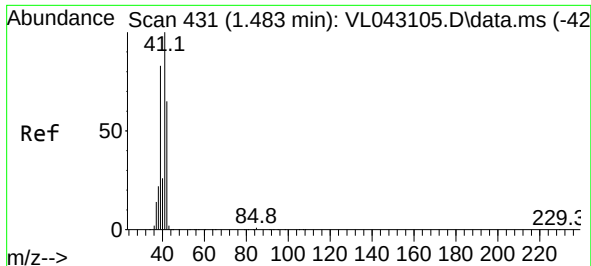
Tgt Ion: 64 Resp: 19941  
Ion Ratio Lower Upper  
64 100  
66 32.5 26.0 39.0



#8  
Dichlorotetrafluoroethane  
Concen: 9.049 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 85 Resp: 108109  
Ion Ratio Lower Upper  
85 100  
135 60.3 48.2 72.4





#9

Propene

Concen: 9.602 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_1

ClientSampleId :

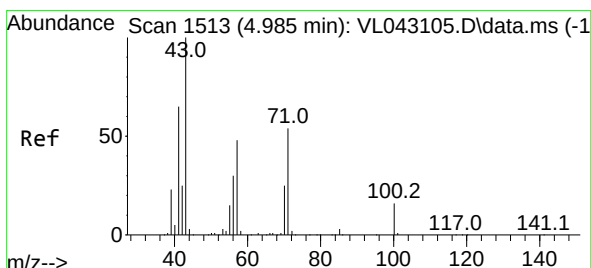
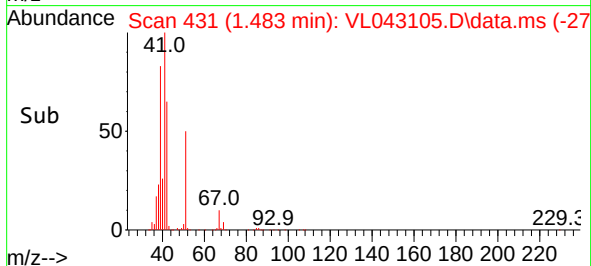
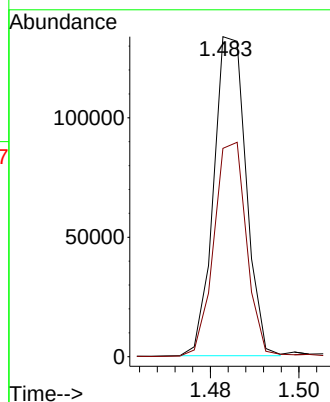
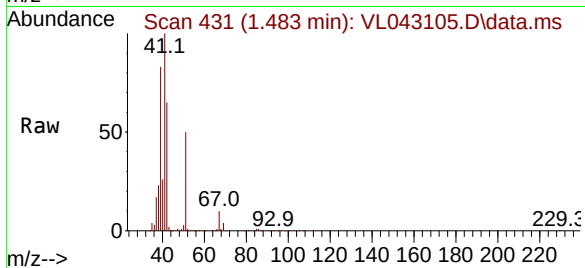
VSTDICCC010

Tgt Ion: 41 Resp: 68116

Ion Ratio Lower Upper

41 100

42 68.9 55.1 82.7



#10

Heptane

Concen: 9.217 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.000 min

Lab File: VL043105.D

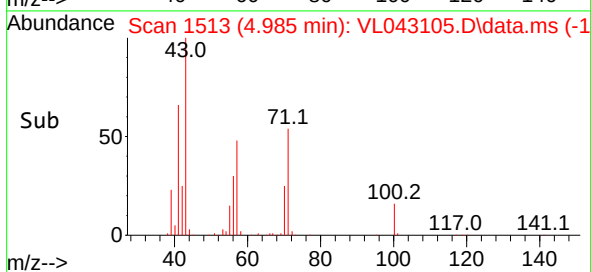
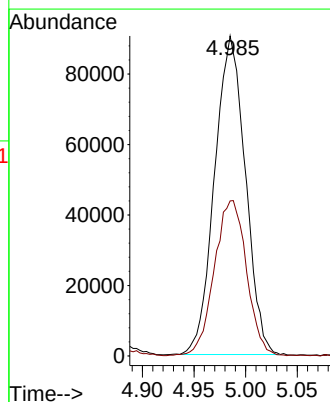
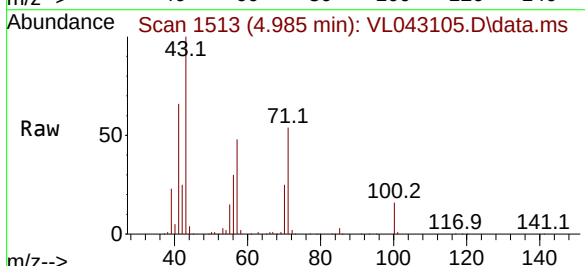
Acq: 14 Oct 2025 10:31

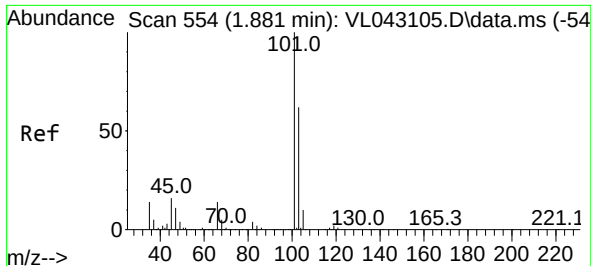
Tgt Ion: 43 Resp: 187423

Ion Ratio Lower Upper

43 100

57 50.9 40.8 61.2

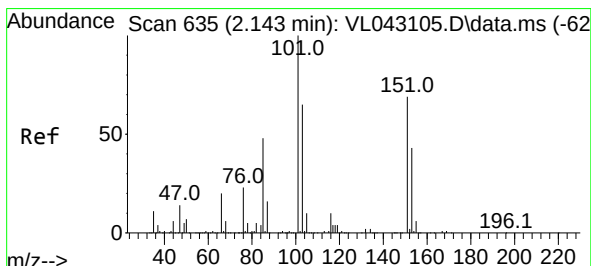
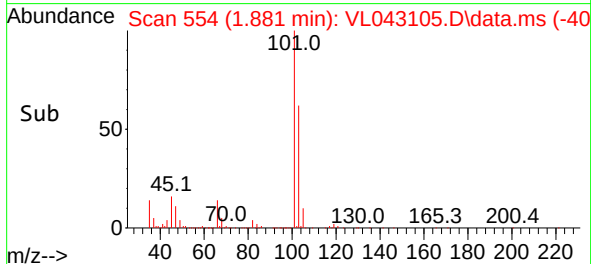
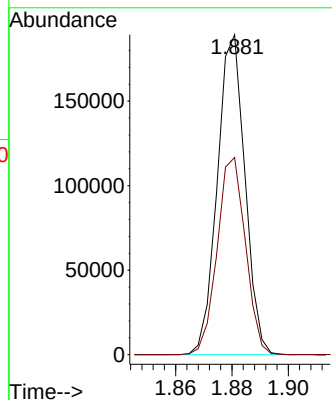
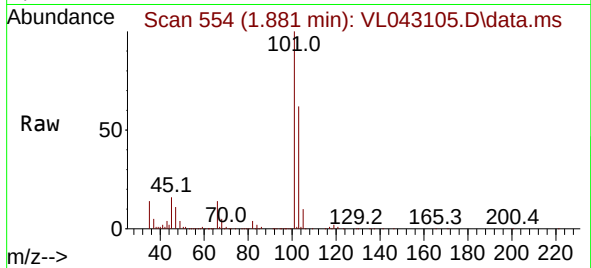




#11  
 Trichlorofluoromethane  
 Concen: 8.935 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

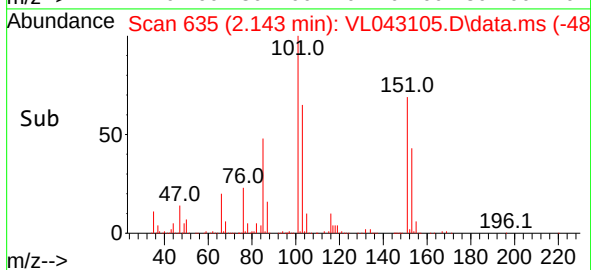
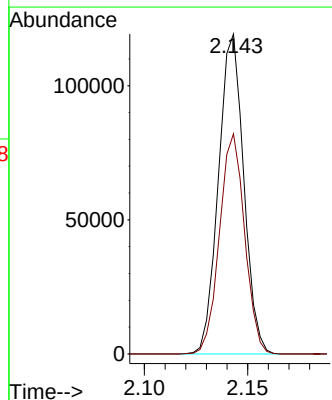
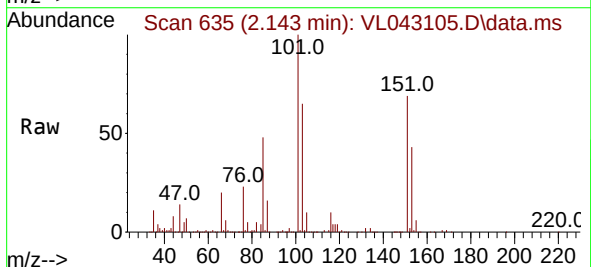
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

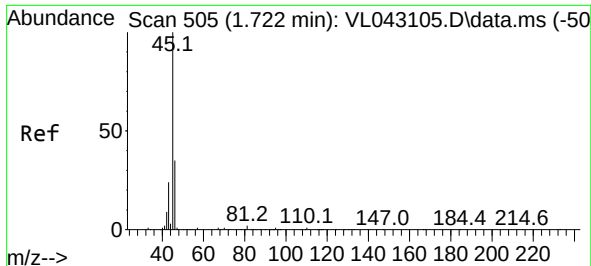
Tgt Ion:101 Resp: 129180  
 Ion Ratio Lower Upper  
 101 100  
 103 61.6 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.715 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion:101 Resp: 101442  
 Ion Ratio Lower Upper  
 101 100  
 151 68.4 54.7 82.1

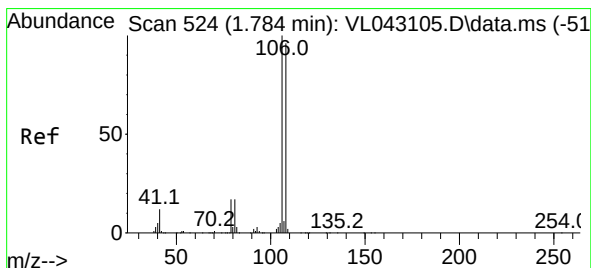
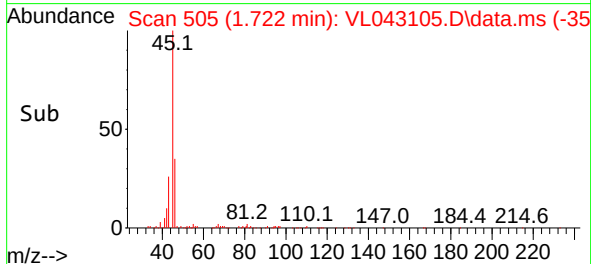
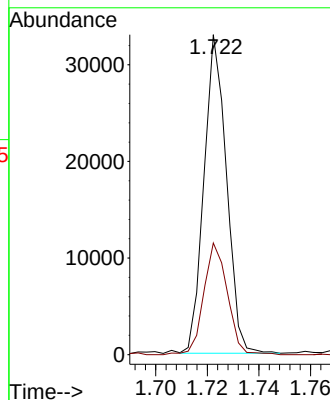
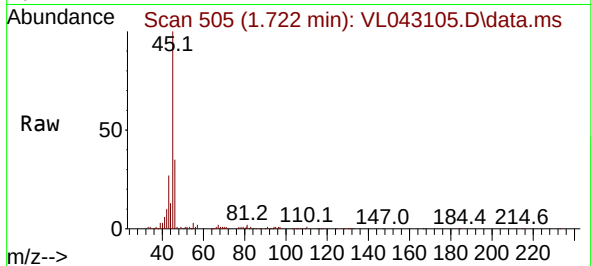




#13  
Ethanol  
Concen: 7.640 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

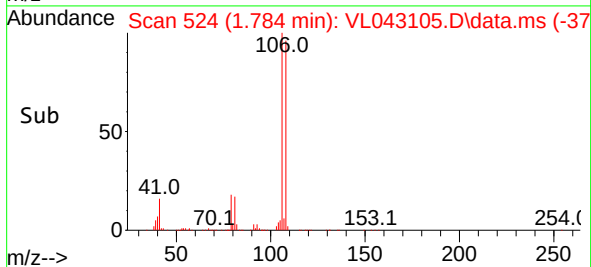
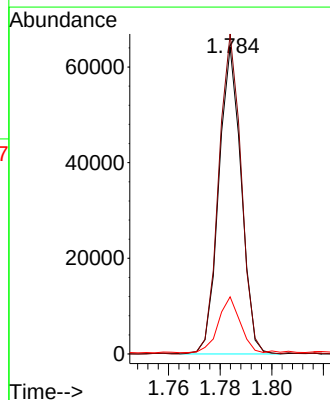
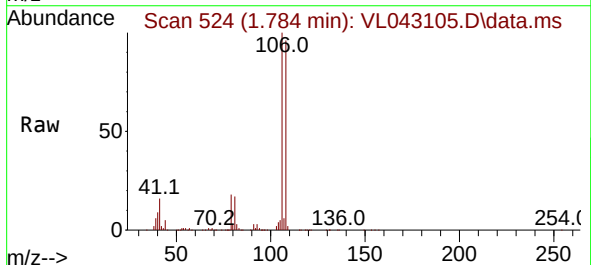
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

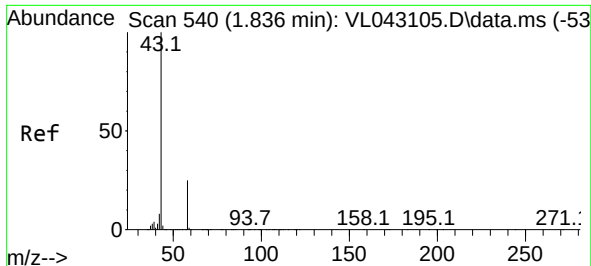
Tgt Ion: 45 Resp: 20045  
Ion Ratio Lower Upper  
45 100  
46 36.8 14.7 58.9



#14  
Bromoethene  
Concen: 8.916 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 108 Resp: 38553  
Ion Ratio Lower Upper  
108 100  
106 105.5 84.4 126.6  
79 19.1 15.3 22.9

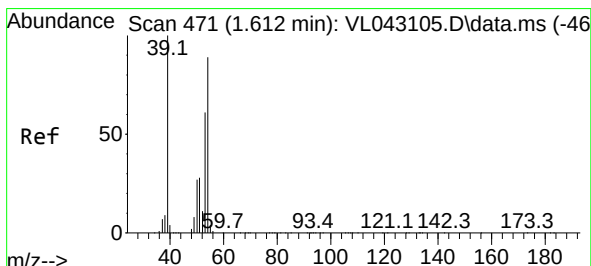
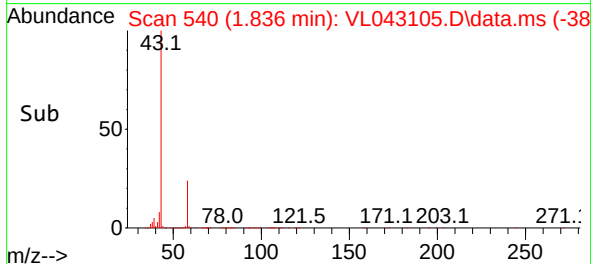
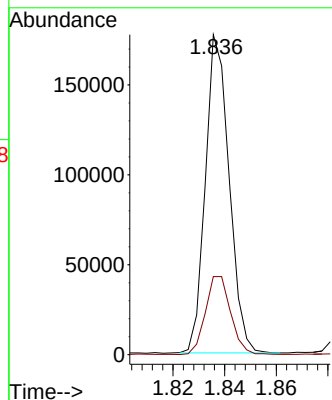
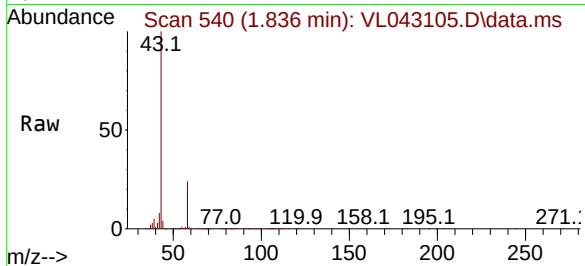




#15  
Acetone  
Concen: 8.047 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

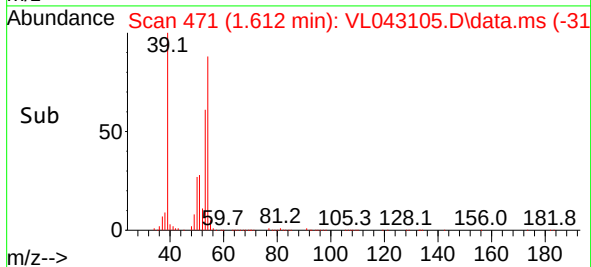
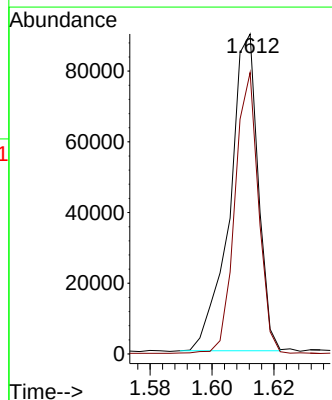
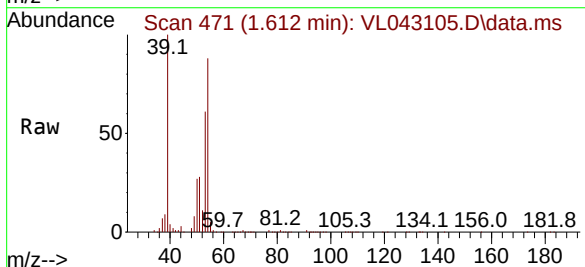
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

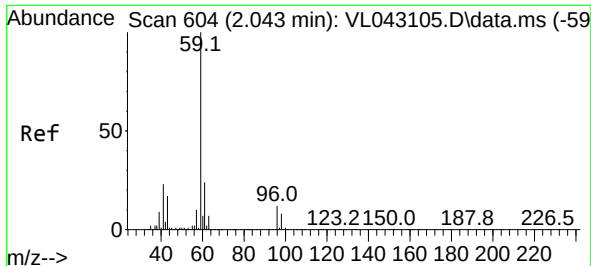
Tgt Ion: 43 Resp: 113399  
Ion Ratio Lower Upper  
43 100  
58 26.0 20.8 31.2



#16  
1,3-Butadiene  
Concen: 8.596 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 39 Resp: 57406  
Ion Ratio Lower Upper  
39 100  
54 73.7 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.130 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_1

ClientSampleId :

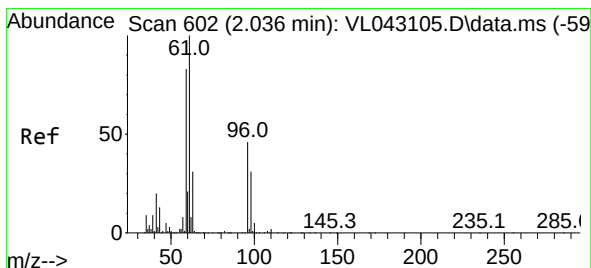
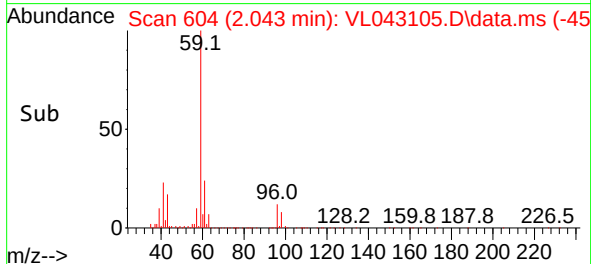
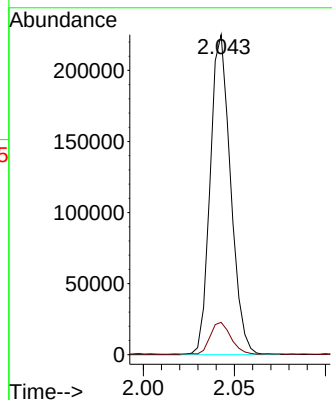
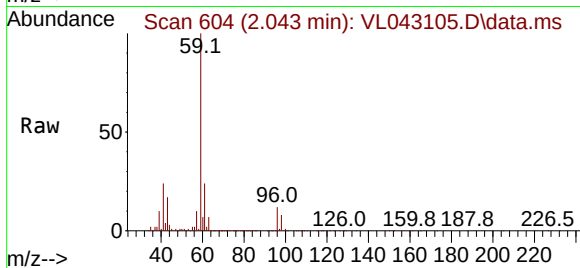
VSTDICCC010

Tgt Ion: 59 Resp: 175630

Ion Ratio Lower Upper

59 100

57 10.3 8.2 12.4



#18

1,1-Dichloroethene

Concen: 8.949 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

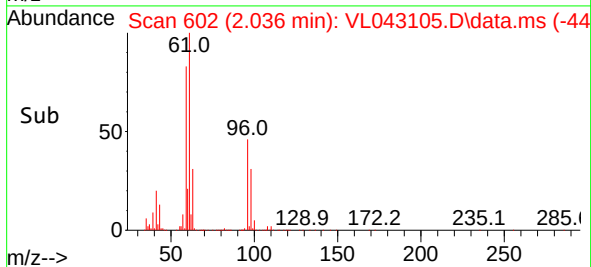
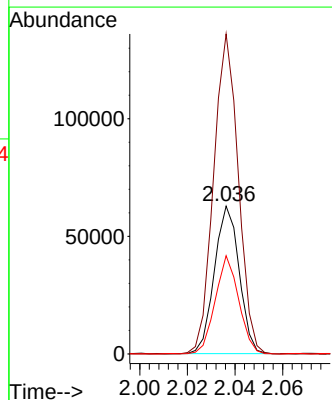
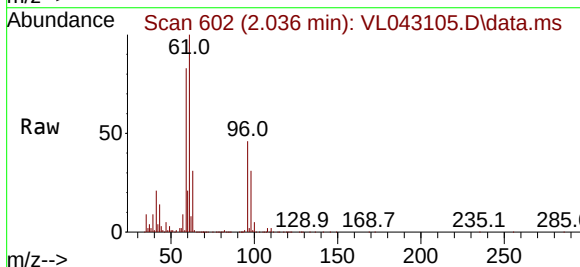
Tgt Ion: 96 Resp: 45413

Ion Ratio Lower Upper

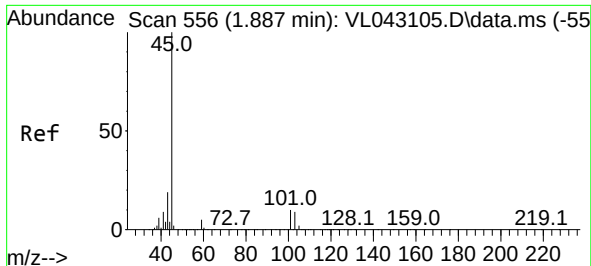
96 100

61 216.7 173.4 260.0

98 66.5 53.2 79.8



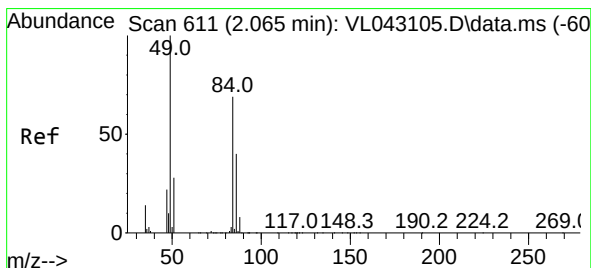
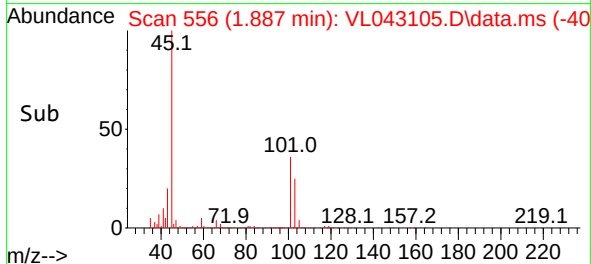
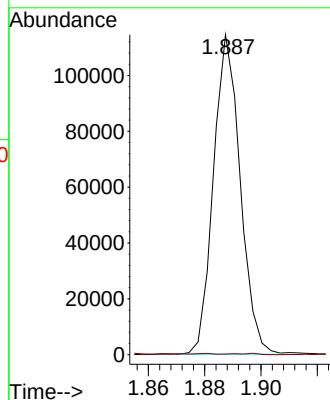
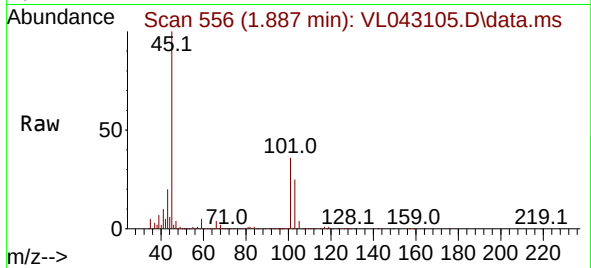




#19  
Isopropyl Alcohol  
Concen: 8.634 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

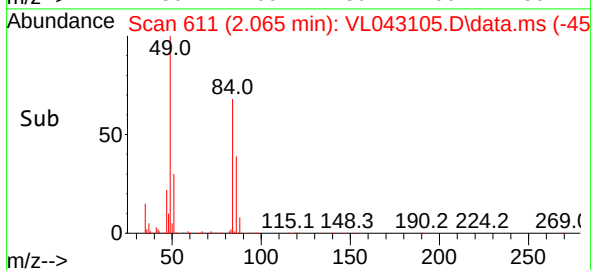
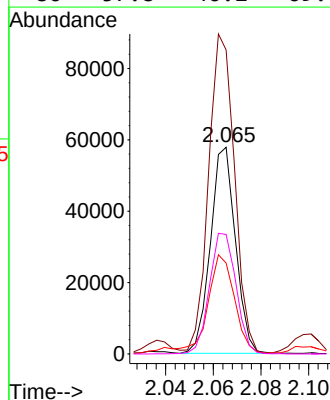
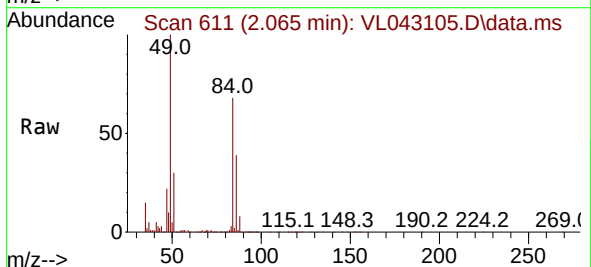
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

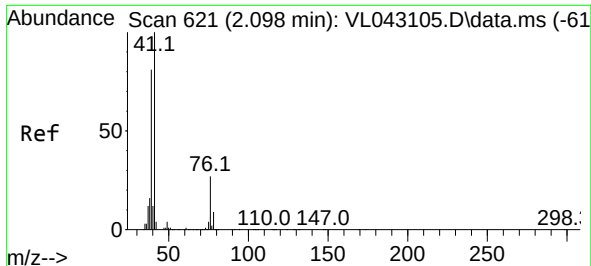
Tgt Ion: 45 Resp: 75355  
Ion Ratio Lower Upper  
45 100  
58 41.1 31.3 46.9



#20  
Methylene Chloride  
Concen: 7.620 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 84 Resp: 42212  
Ion Ratio Lower Upper  
84 100  
49 145.8 116.6 175.0  
51 43.5 34.8 52.2  
86 57.8 46.2 69.4





#21

Allyl Chloride

Concen: 9.145 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

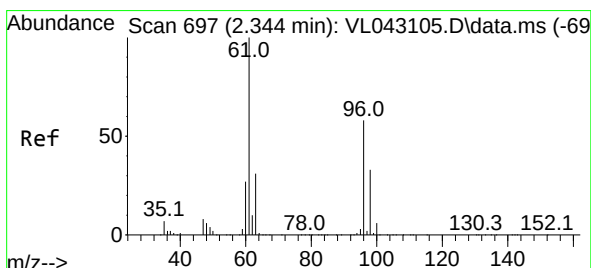
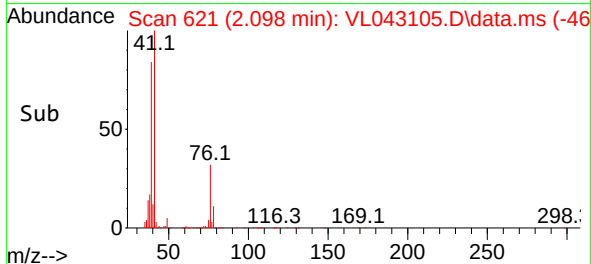
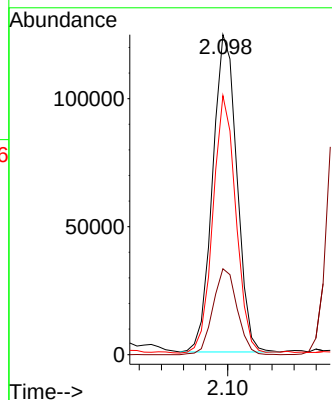
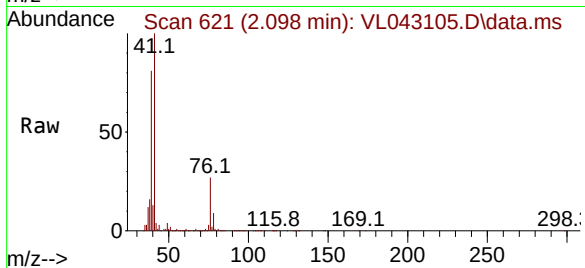
Tgt Ion: 41 Resp: 94625

Ion Ratio Lower Upper

41 100

76 26.9 21.5 32.3

39 76.4 60.8 91.2



#22

trans-1,2-Dichloroethene

Concen: 8.761 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

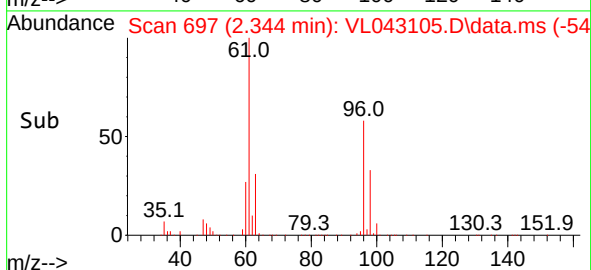
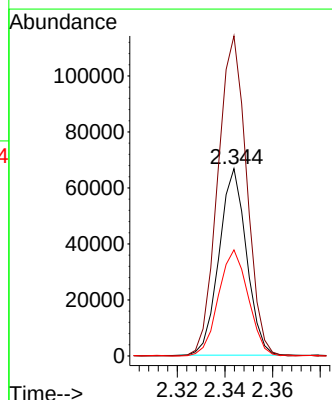
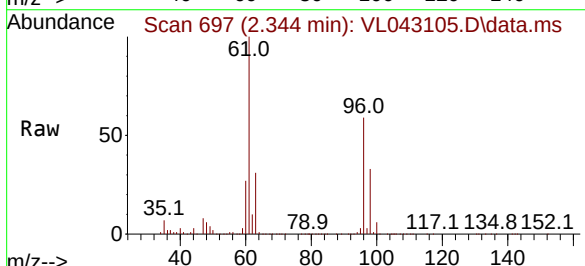
Tgt Ion: 96 Resp: 53146

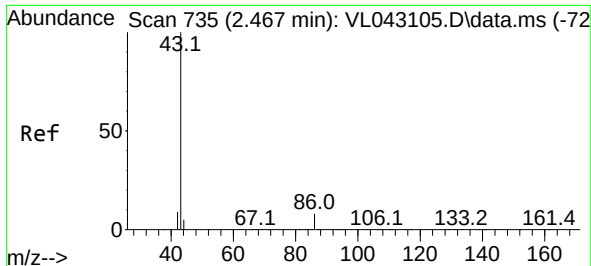
Ion Ratio Lower Upper

96 100

61 171.3 137.0 205.6

98 56.9 45.5 68.3



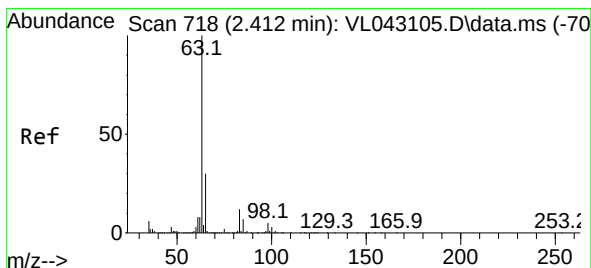
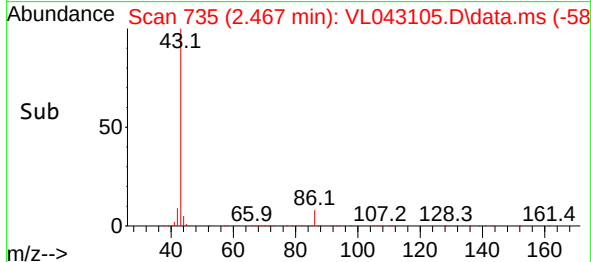
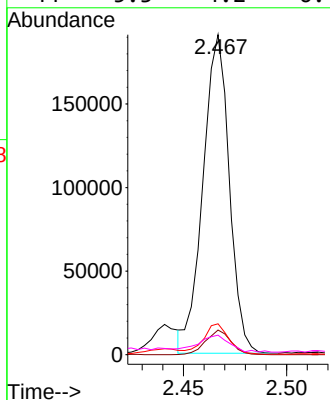
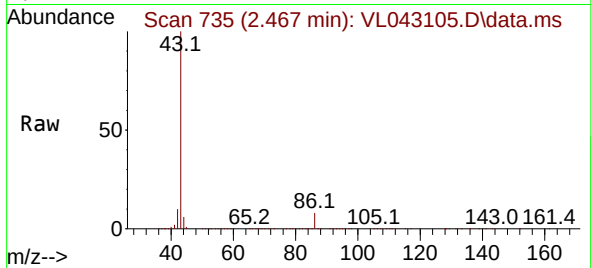


#23  
 Vinyl Acetate  
 Concen: 8.218 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 43 Resp: 168706

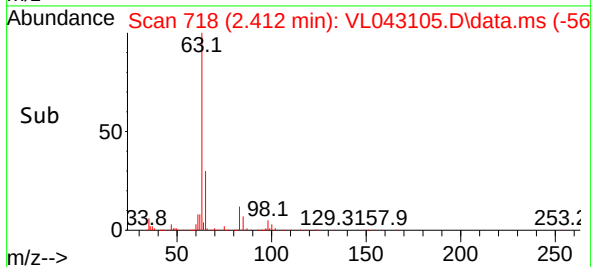
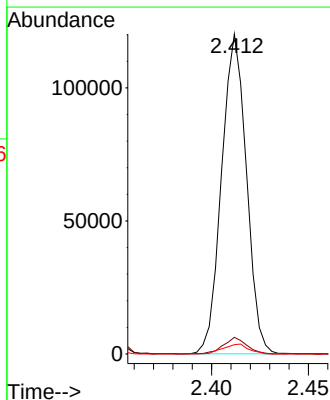
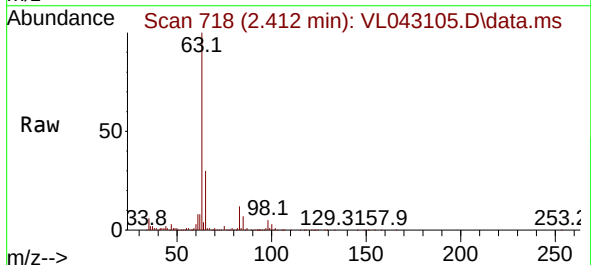
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.7   | 6.2   | 9.2   |
| 42  | 9.5   | 7.6   | 11.4  |
| 44  | 5.3   | 4.2   | 6.4   |

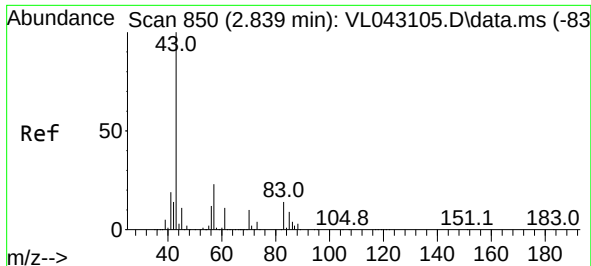


#24  
 1,1-Dichloroethane  
 Concen: 9.143 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion: 63 Resp: 107153

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.2   | 2.6   | 7.8   |
| 100 | 2.9   | 1.5   | 4.4   |



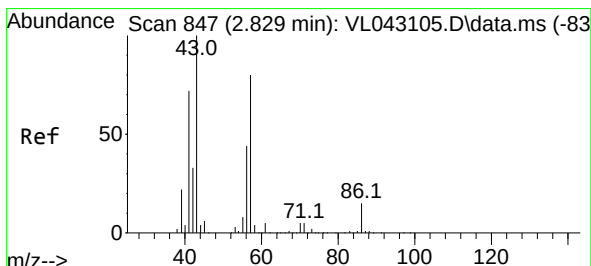
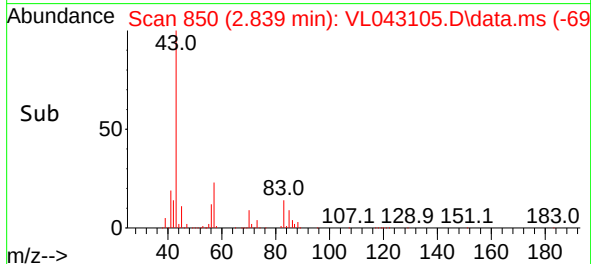
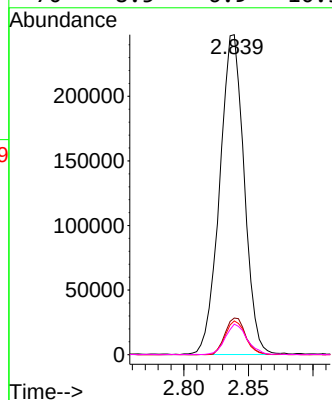
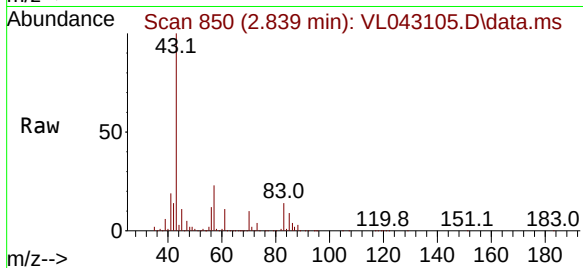


#25  
Ethyl Acetate  
Concen: 9.371 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 325662

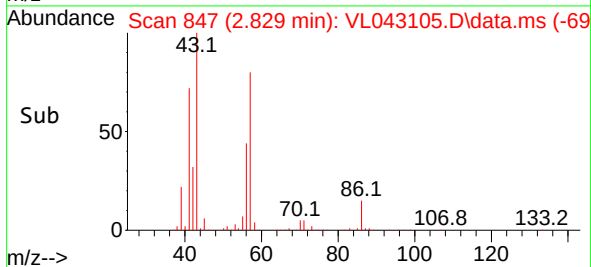
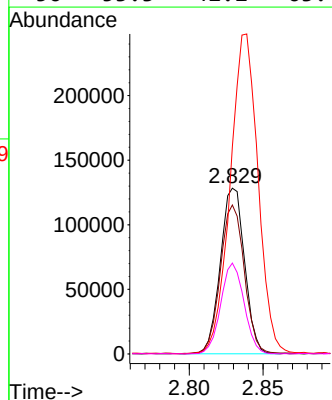
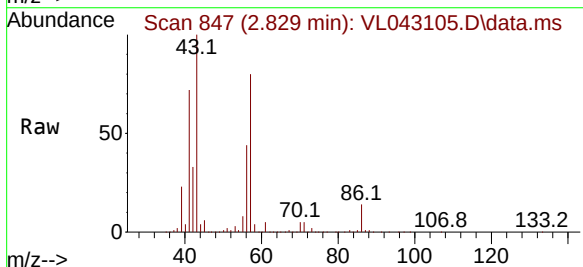
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.8   | 7.8   | 11.8  |
| 61  | 8.8   | 7.0   | 10.6  |
| 70  | 8.5   | 6.9   | 10.3  |

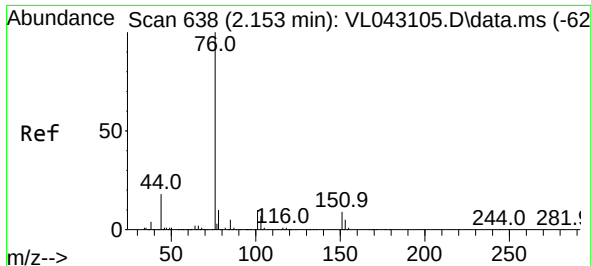


#26  
Hexane  
Concen: 9.128 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 57 Resp: 146168

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.2  | 71.4  | 107.0 |
| 43  | 222.4 | 178.5 | 267.7 |
| 56  | 53.3  | 42.2  | 63.4  |

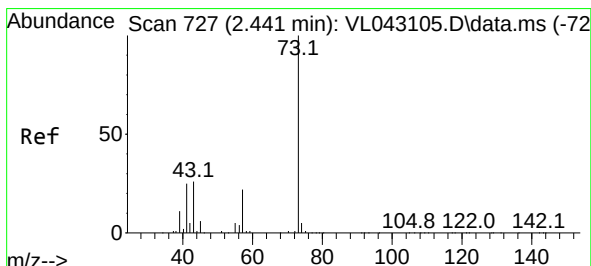
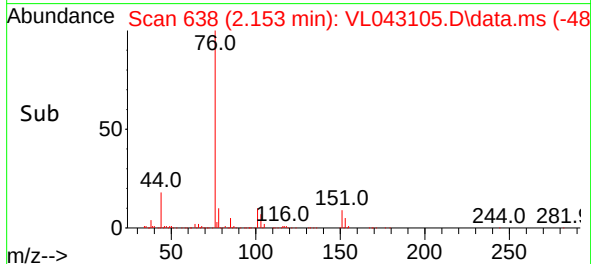
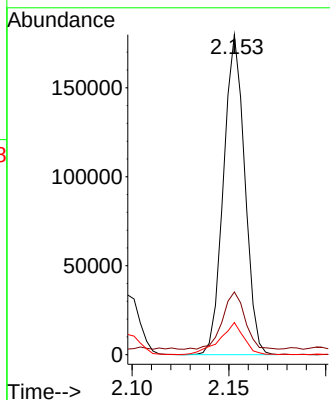
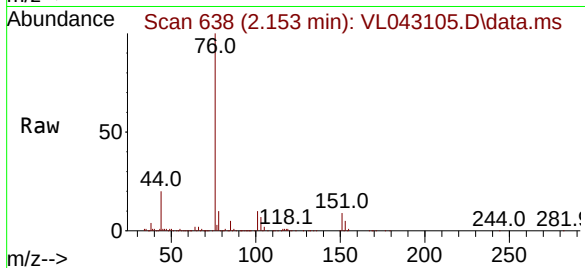




#27  
Carbon Disulfide  
Concen: 9.319 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

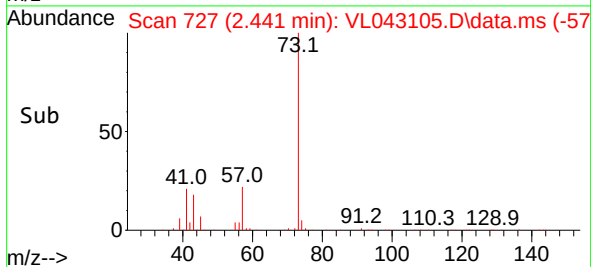
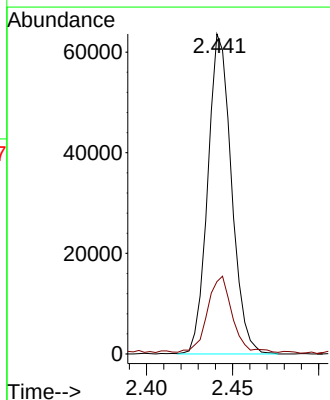
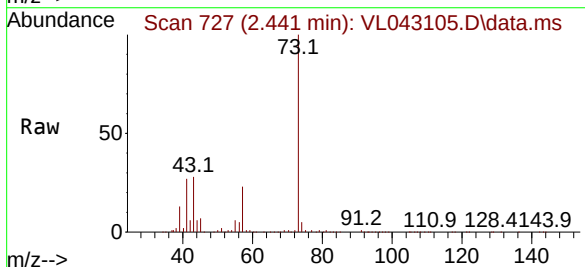
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

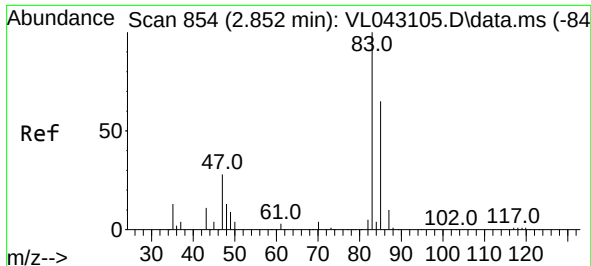
Tgt Ion: 76 Resp: 136729  
Ion Ratio Lower Upper  
76 100  
44 20.1 16.7 25.1  
78 11.5 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 8.384 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 73 Resp: 61076  
Ion Ratio Lower Upper  
73 100  
57 24.8 20.5 30.7





#29

Chloroform

Concen: 9.097 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

ClientSampleId :

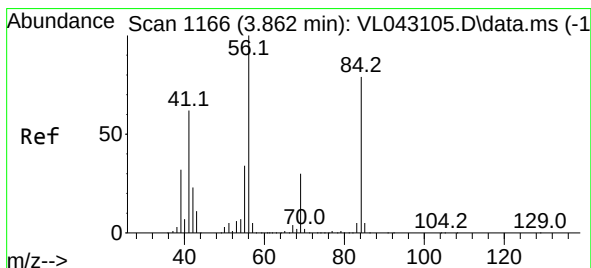
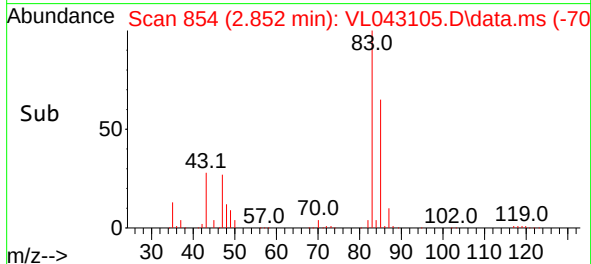
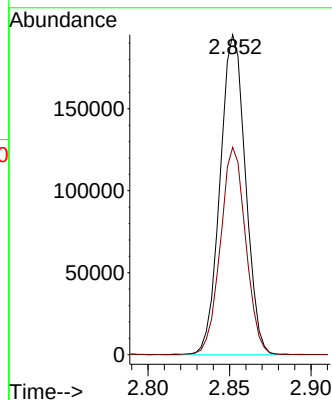
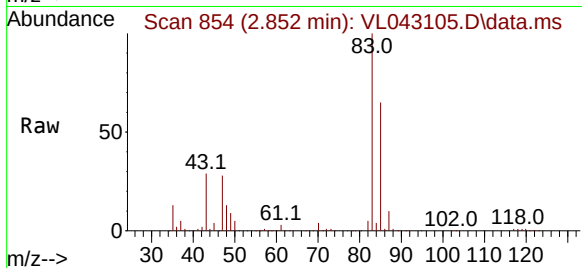
VSTDICCC010

Tgt Ion: 83 Resp: 211071

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6



#30

Cyclohexane

Concen: 9.037 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

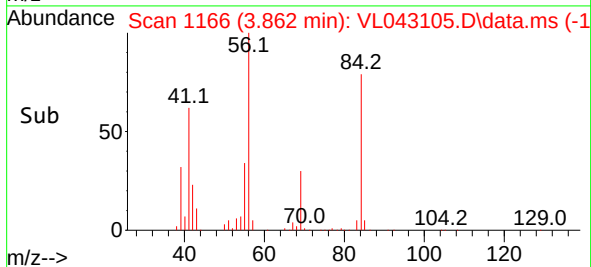
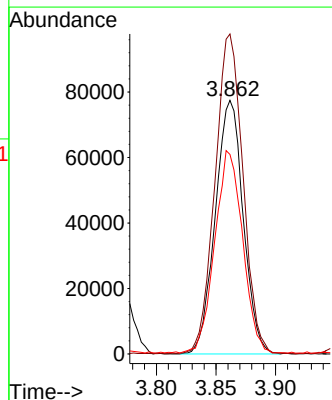
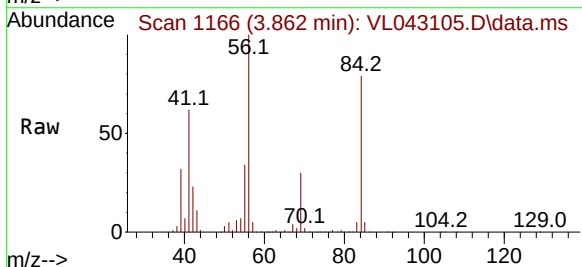
Tgt Ion: 84 Resp: 126226

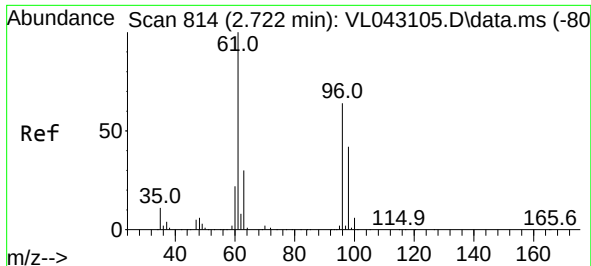
Ion Ratio Lower Upper

84 100

56 126.5 100.9 151.3

41 79.8 63.8 95.6

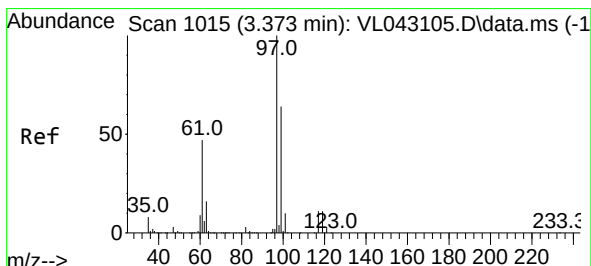
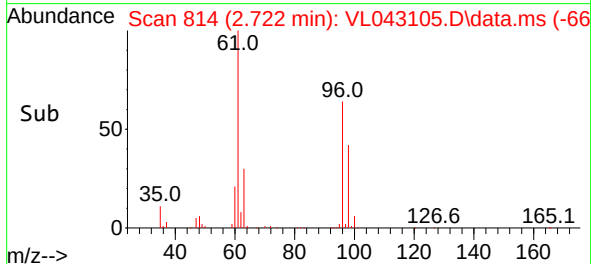
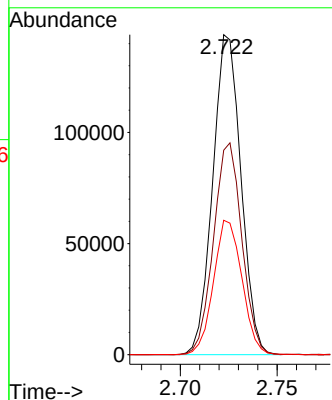
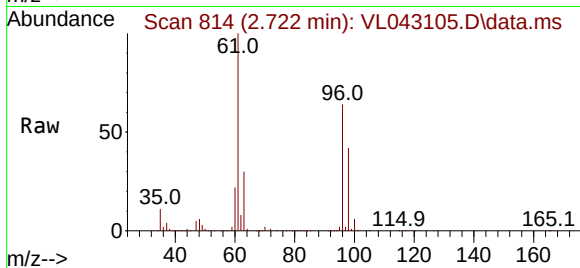




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.553 ppbv  
 RT: 2.722 min Scan# 814  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

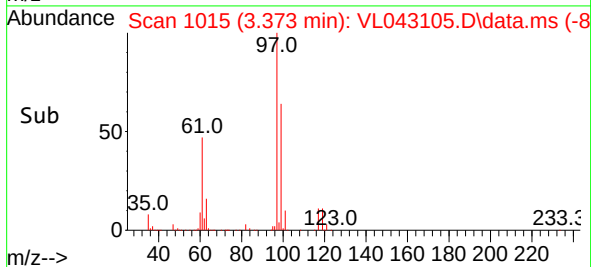
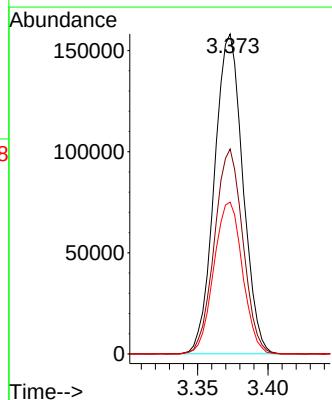
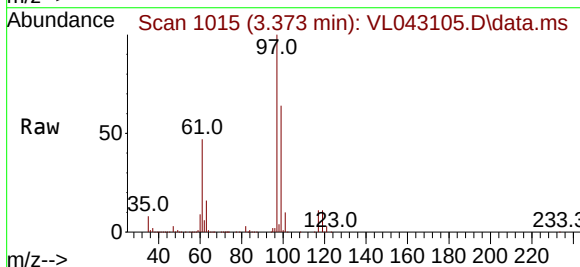
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

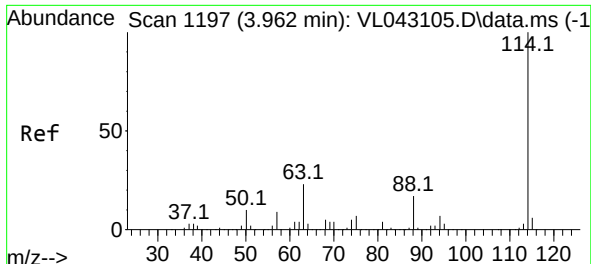
Tgt Ion: 61 Resp: 146072  
 Ion Ratio Lower Upper  
 61 100  
 96 63.8 51.0 76.6  
 98 41.9 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 9.189 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion: 97 Resp: 222043  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 51.3 76.9  
 61 48.0 38.4 57.6

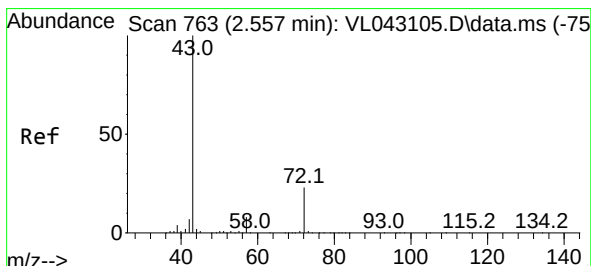
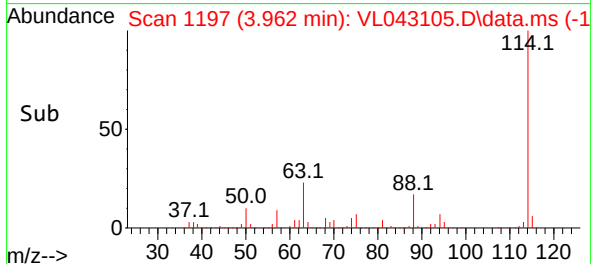
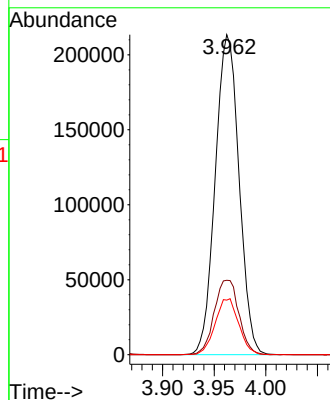
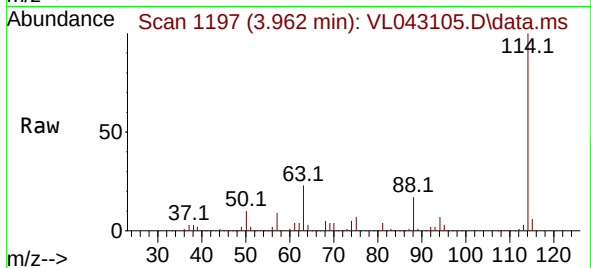




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.962 min Scan# 1197  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

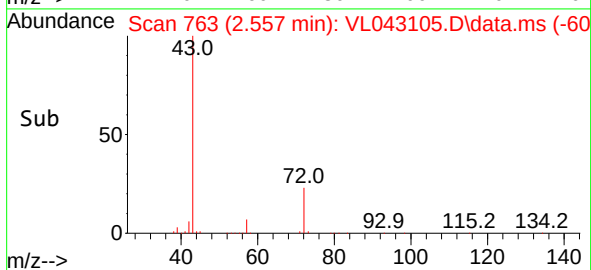
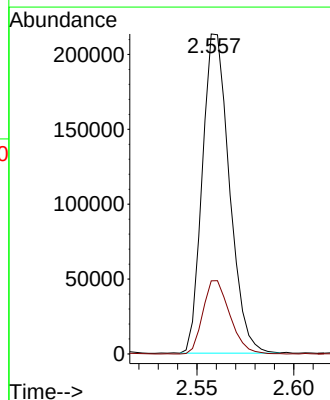
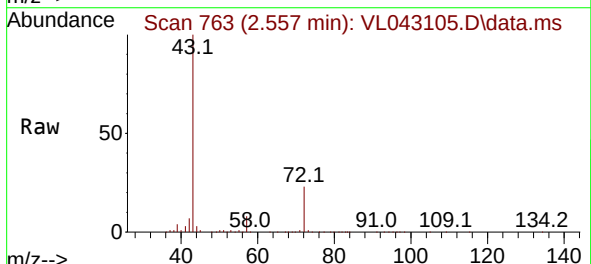
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:114 Resp: 341790  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 19.3 28.9  
 88 17.4 13.9 20.9

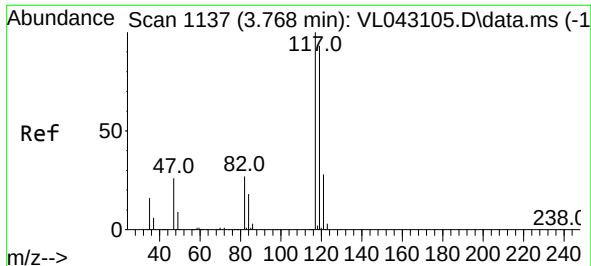


#34  
 2-Butanone  
 Concen: 8.971 ppbv  
 RT: 2.557 min Scan# 763  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 207274  
 Ion Ratio Lower Upper  
 43 100  
 72 22.8 18.4 27.6



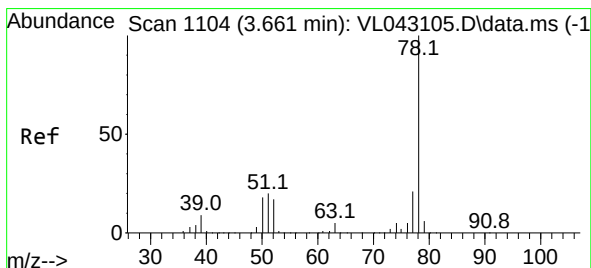
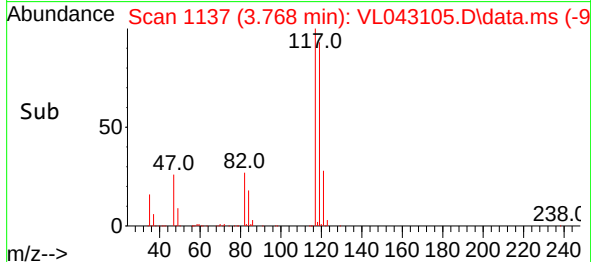
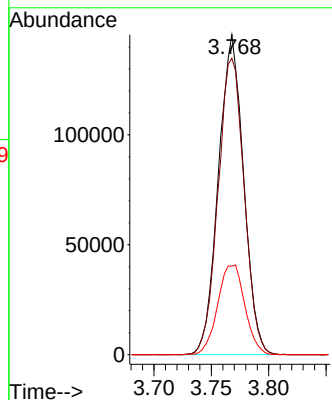
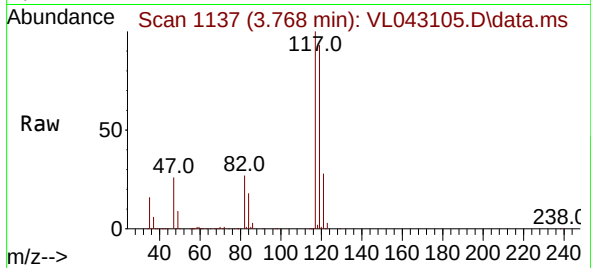




#35  
Carbon Tetrachloride  
Concen: 9.032 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

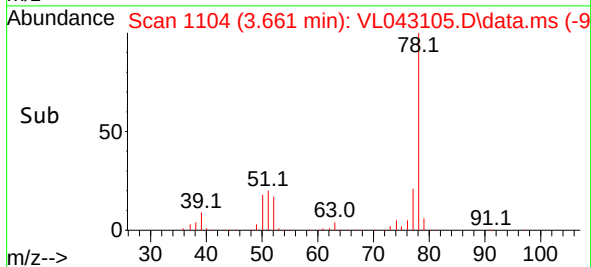
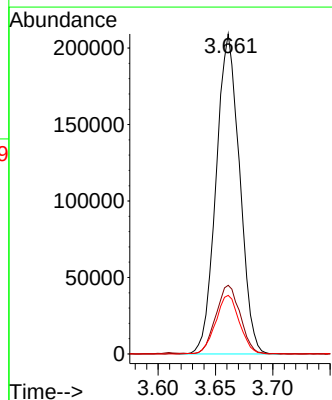
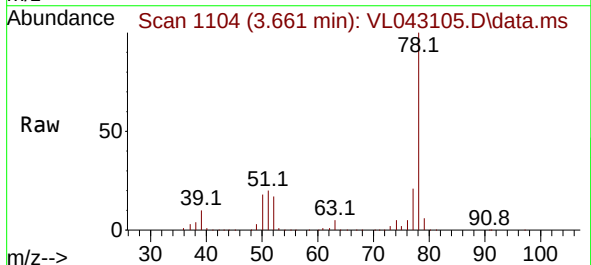
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

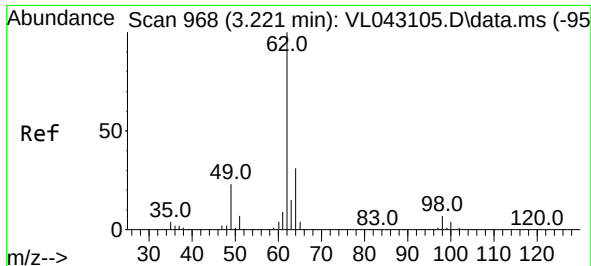
Tgt Ion:117 Resp: 221937  
Ion Ratio Lower Upper  
117 100  
119 92.6 74.1 111.1  
121 27.7 22.2 33.2



#36  
Benzene  
Concen: 9.246 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 78 Resp: 297653  
Ion Ratio Lower Upper  
78 100  
77 21.3 17.0 25.6  
50 18.3 14.6 22.0

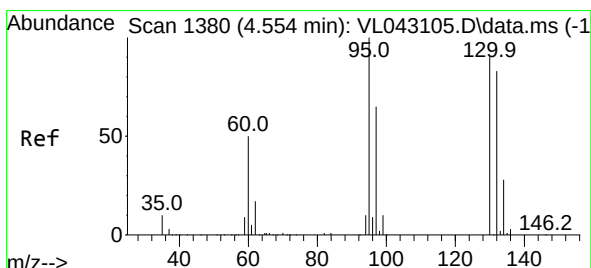
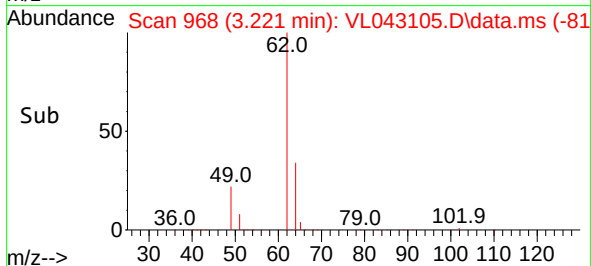
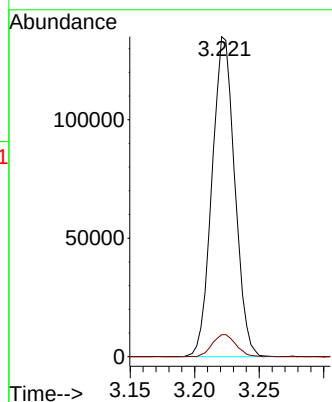
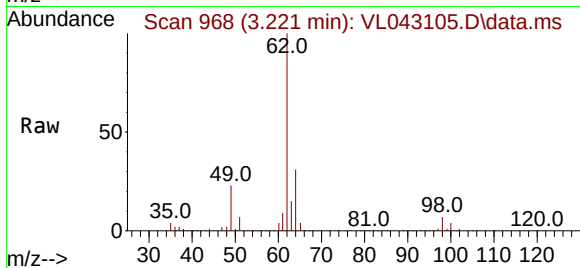




#37  
1,2-Dichloroethane  
Concen: 8.946 ppbv  
RT: 3.221 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

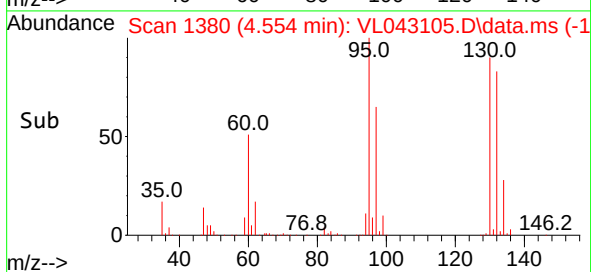
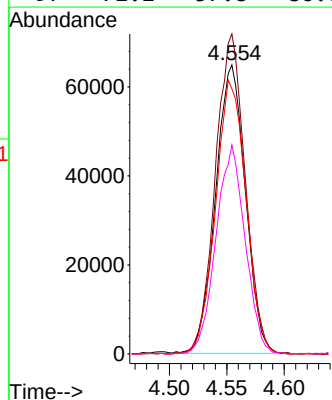
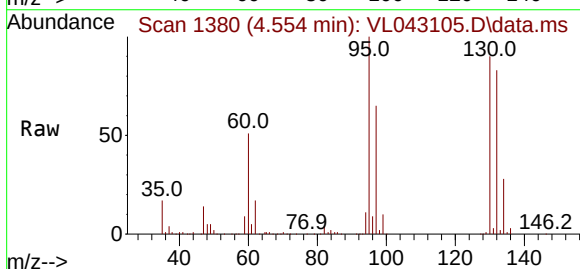
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

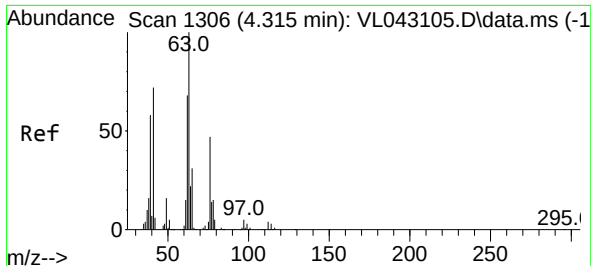
Tgt Ion: 62 Resp: 165898  
Ion Ratio Lower Upper  
62 100  
98 7.2 5.8 8.6



#38  
Trichloroethene  
Concen: 8.708 ppbv  
RT: 4.554 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:130 Resp: 116947  
Ion Ratio Lower Upper  
130 100  
95 110.8 88.6 133.0  
132 91.7 73.4 110.0  
97 72.2 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.207 ppbv

RT: 4.315 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

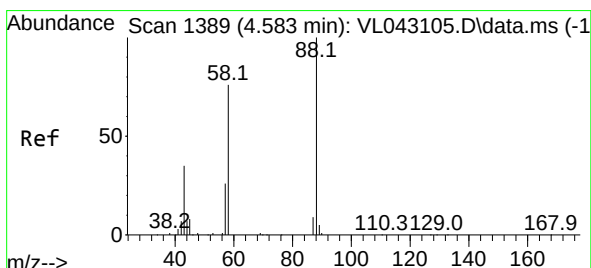
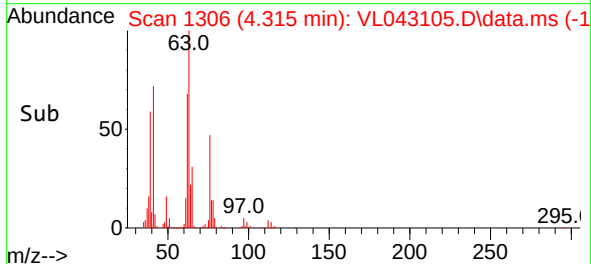
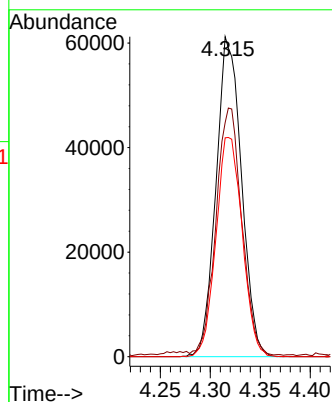
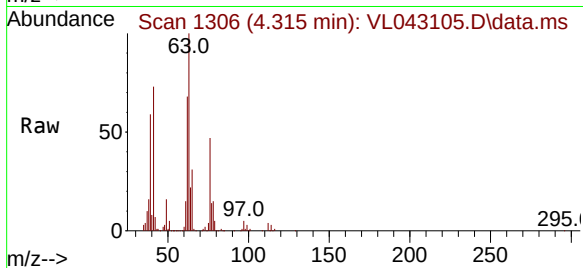
Tgt Ion: 63 Resp: 108446

Ion Ratio Lower Upper

63 100

41 72.5 58.0 87.0

62 68.4 54.7 82.1



#40

1,4-Dioxane

Concen: 9.153 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Tgt Ion: 88 Resp: 48201

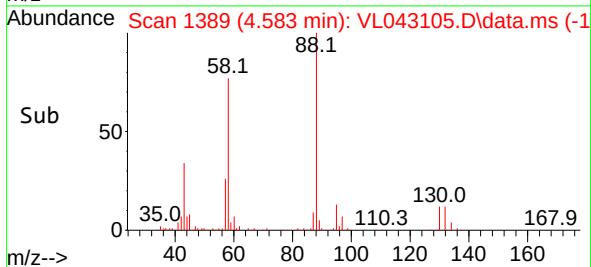
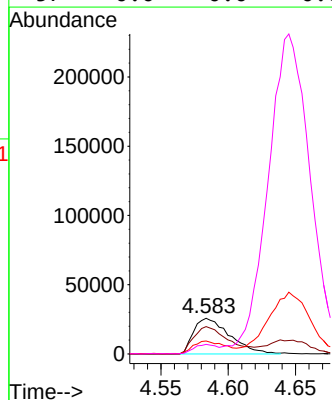
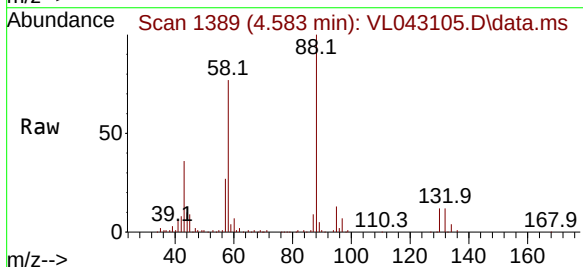
Ion Ratio Lower Upper

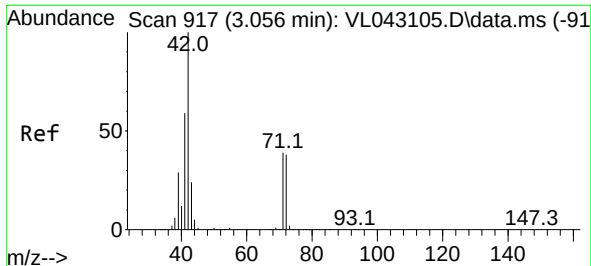
88 100

58 74.3 61.1 91.7

43 33.3 24.0 36.0

57 0.0 0.0 0.0

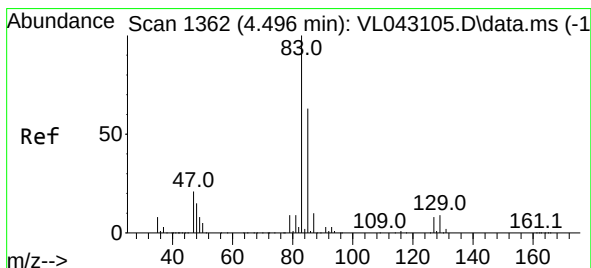
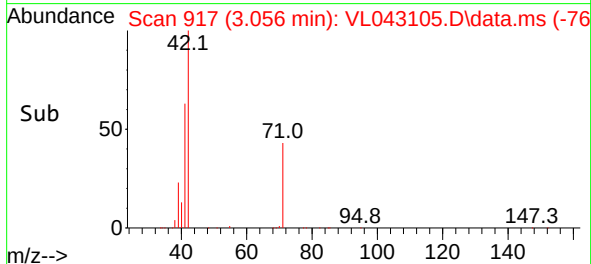
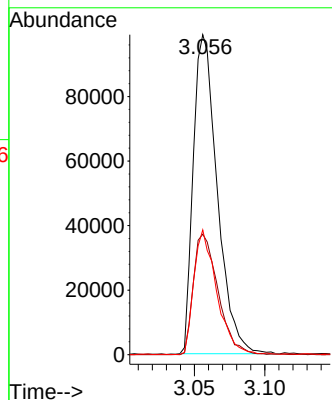
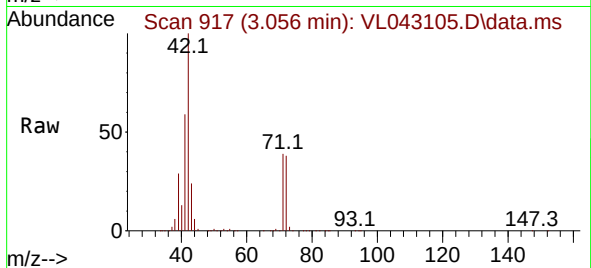




#41  
Tetrahydrofuran  
Concen: 9.076 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

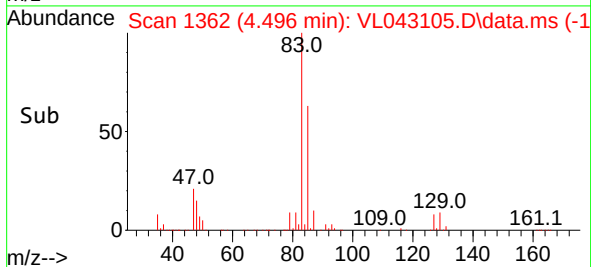
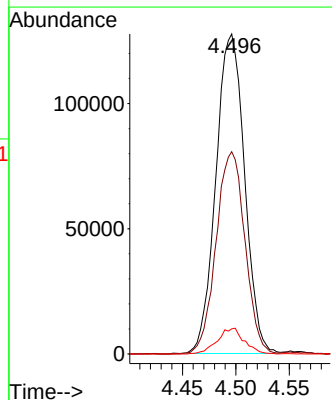
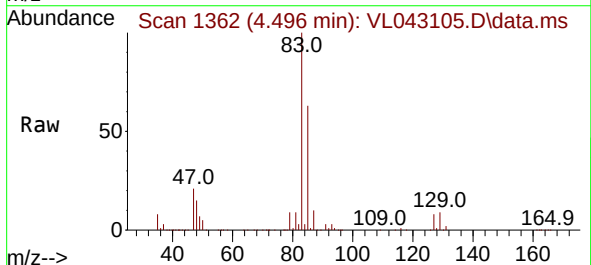
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

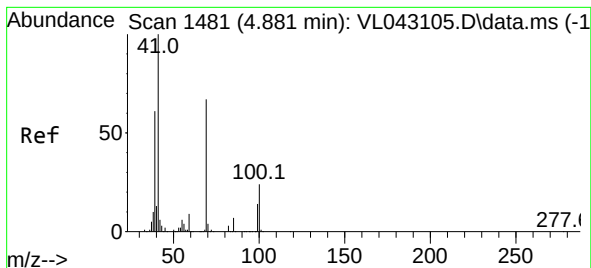
Tgt Ion: 42 Resp: 117069  
Ion Ratio Lower Upper  
42 100  
72 39.1 31.3 46.9  
71 37.8 30.4 45.6



#42  
Bromodichloromethane  
Concen: 9.286 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 83 Resp: 238353  
Ion Ratio Lower Upper  
83 100  
85 63.2 50.6 75.8  
127 7.9 6.3 9.5





#43

Methyl Methacrylate

Concen: 9.371 ppbv

RT: 4.881 min Scan# 1481

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

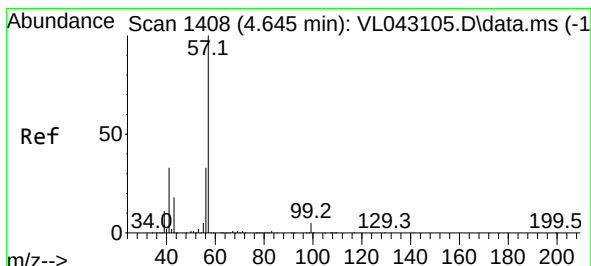
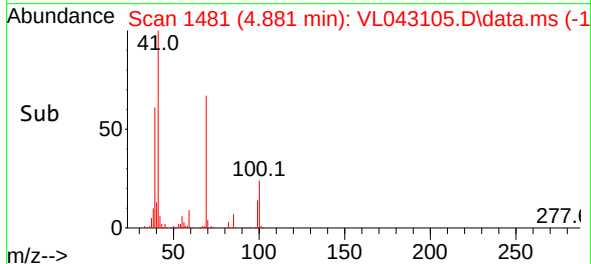
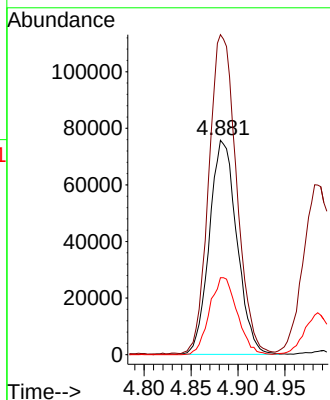
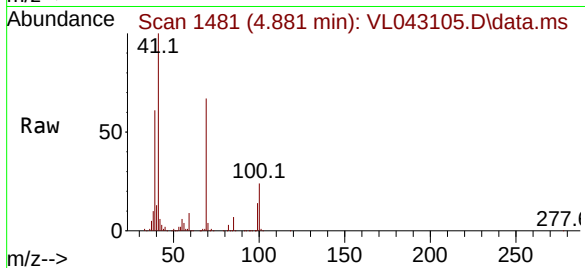
Tgt Ion: 69 Resp: 153927

Ion Ratio Lower Upper

69 100

41 149.8 120.5 180.7

100 36.2 29.0 43.4



#44

2,2,4-Trimethylpentane

Concen: 9.273 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

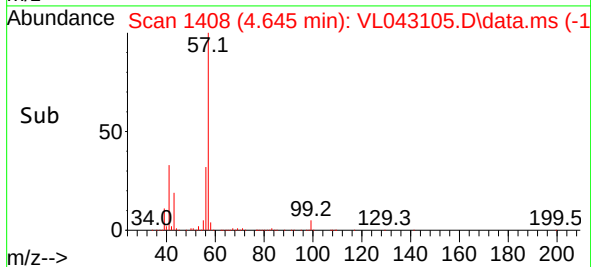
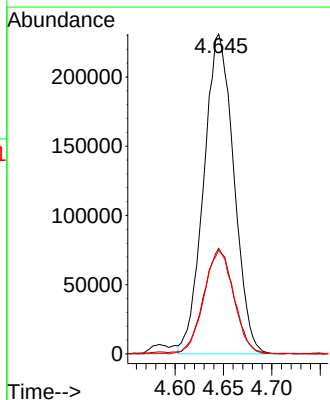
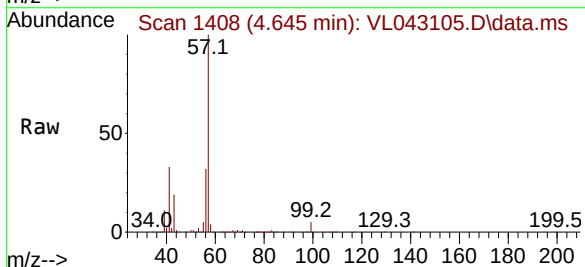
Tgt Ion: 57 Resp: 499148

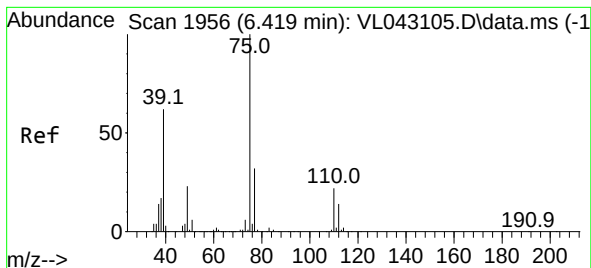
Ion Ratio Lower Upper

57 100

41 33.2 26.3 39.5

56 32.1 25.9 38.9

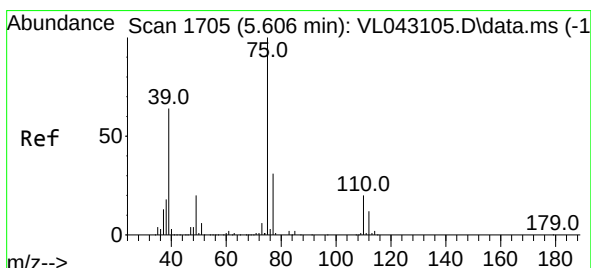
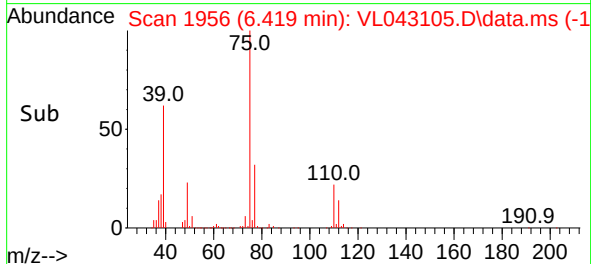
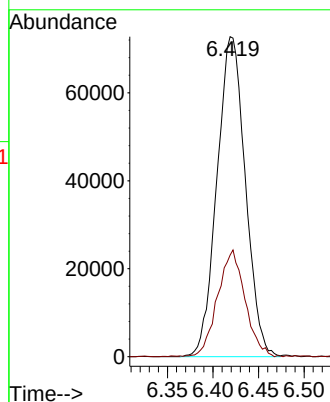
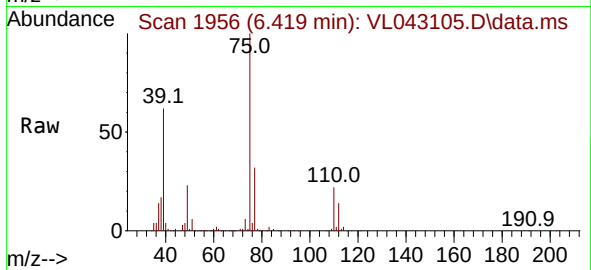




#45  
t-1,3-Dichloropropene  
Concen: 9.620 ppbv  
RT: 6.419 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

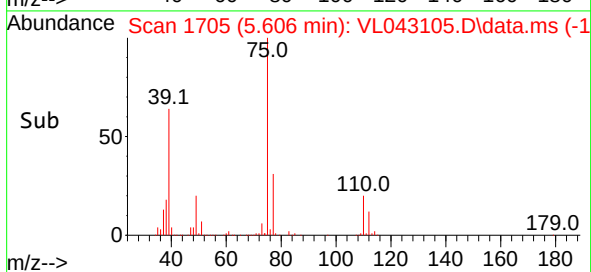
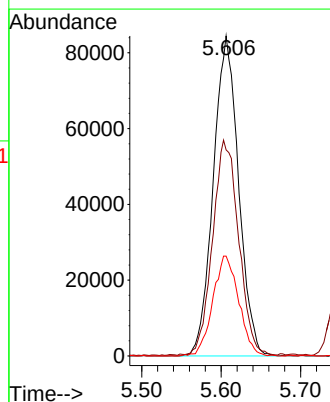
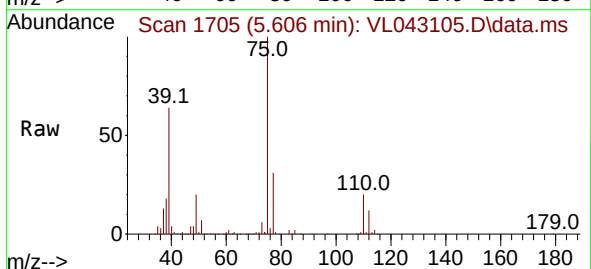
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

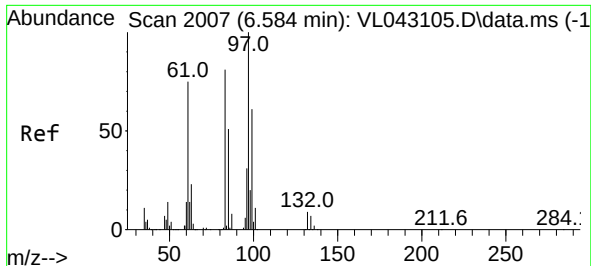
Tgt Ion: 75 Resp: 157856  
Ion Ratio Lower Upper  
75 100  
77 31.8 25.4 38.2



#46  
cis-1,3-Dichloropropene  
Concen: 9.525 ppbv  
RT: 5.606 min Scan# 1705  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 75 Resp: 186533  
Ion Ratio Lower Upper  
75 100  
39 63.8 51.0 76.6  
77 31.2 25.0 37.4

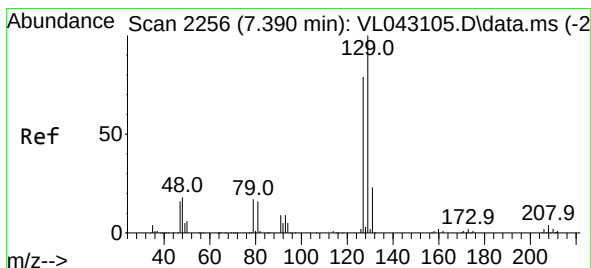
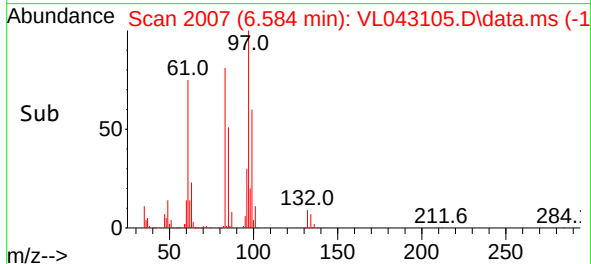
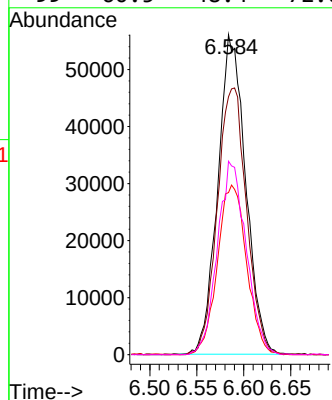
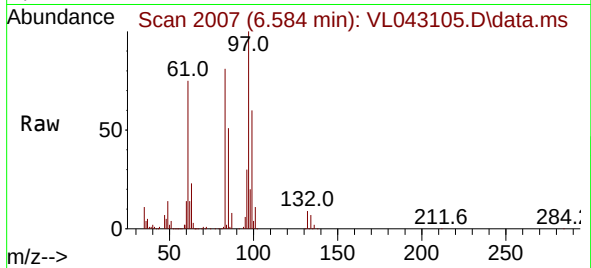




#47  
1,1,2-Trichloroethane  
Concen: 9.082 ppbv  
RT: 6.584 min Scan# 2007  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

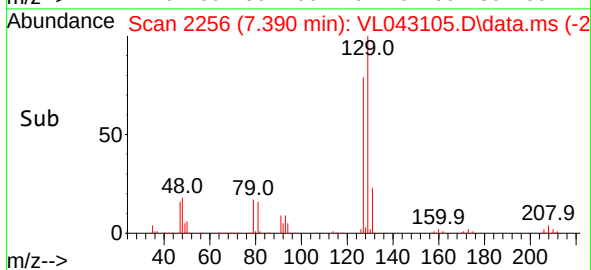
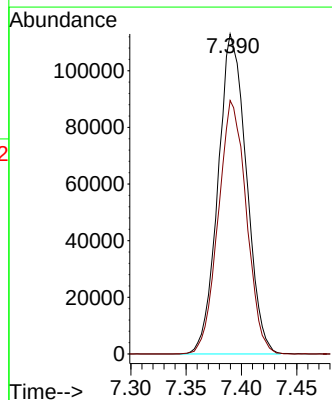
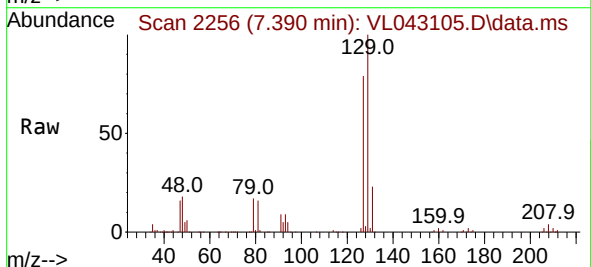
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

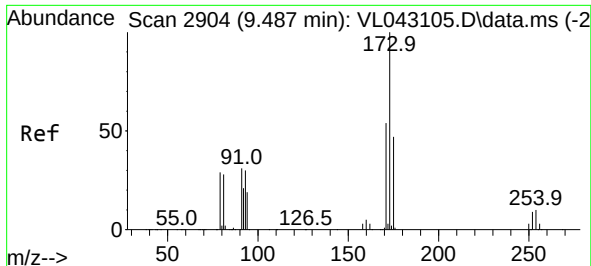
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 115419 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 80.7     | 64.6 96.8    |
| 85 50.7     | 40.6 60.8    |
| 99 60.5     | 48.4 72.6    |



#48  
Dibromochloromethane  
Concen: 9.476 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

|              |              |
|--------------|--------------|
| Tgt Ion: 129 | Resp: 201349 |
| Ion Ratio    | Lower Upper  |
| 129 100      |              |
| 127 78.6     | 39.3 117.9   |

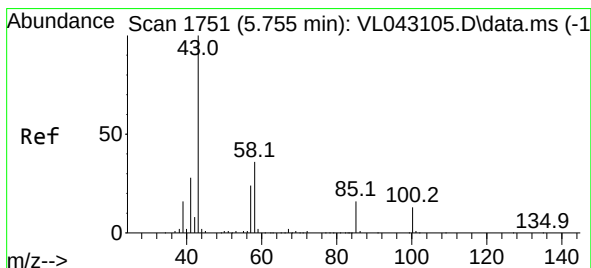
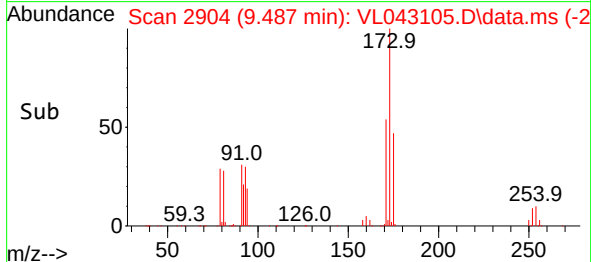
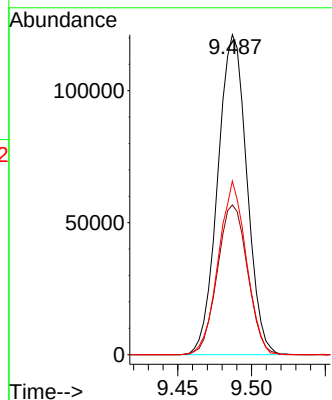
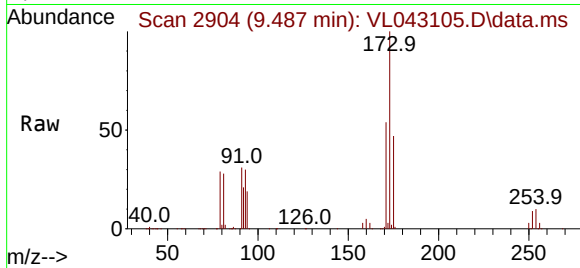




#49  
Bromoform  
Concen: 9.633 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

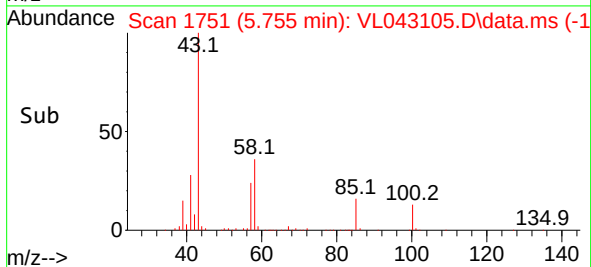
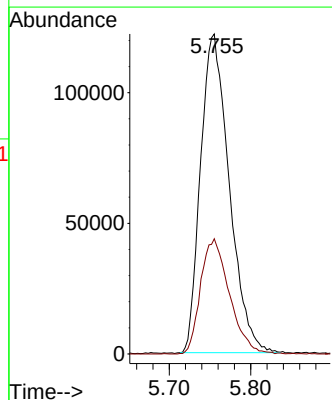
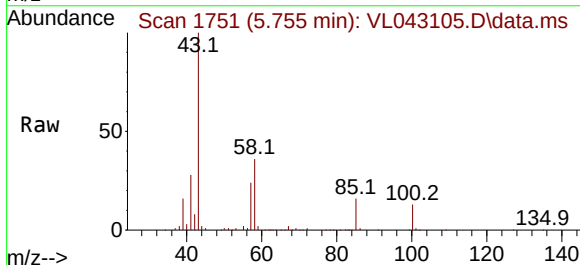
Instrument : MSVOA\_1  
ClientSampleId : VSTDICCC010

Tgt Ion:173 Resp: 166377  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
171 52.1 41.7 62.5

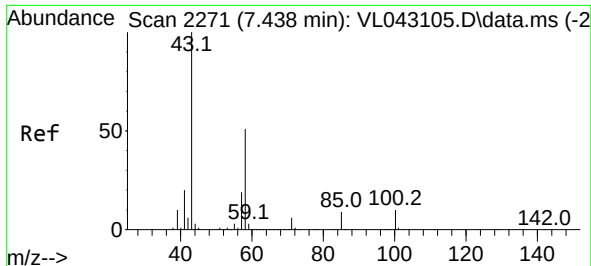


#50  
4-Methyl-2-Pentanone  
Concen: 9.362 ppbv  
RT: 5.755 min Scan# 1751  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 43 Resp: 298401  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.1 43.7



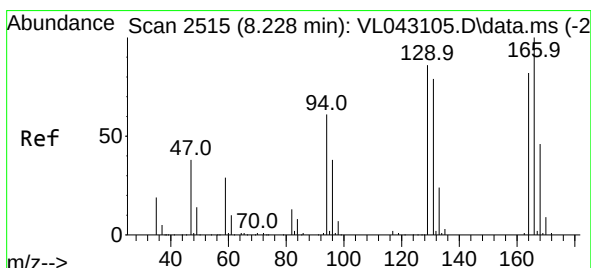
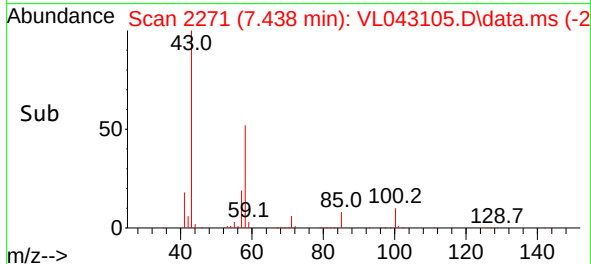
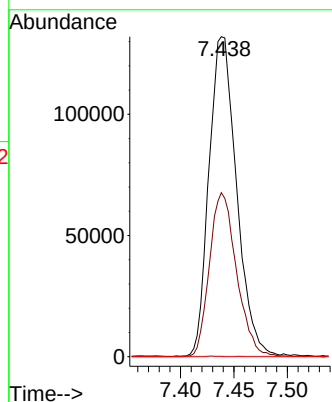
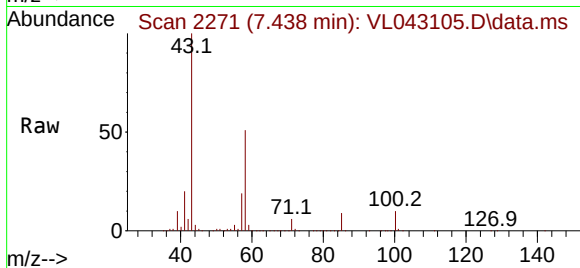




#51  
2-Hexanone  
Concen: 9.940 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

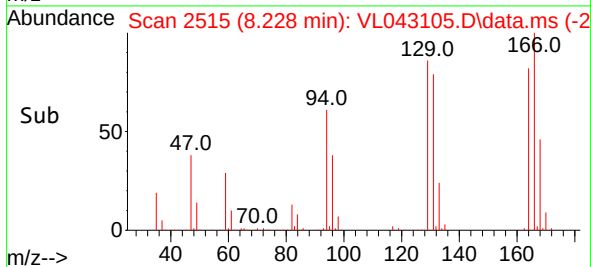
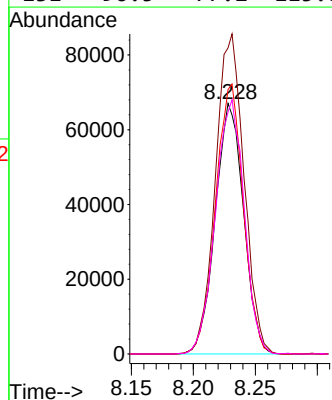
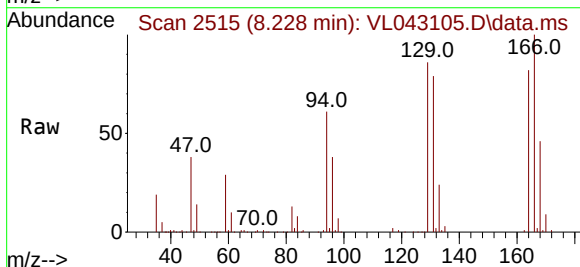
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

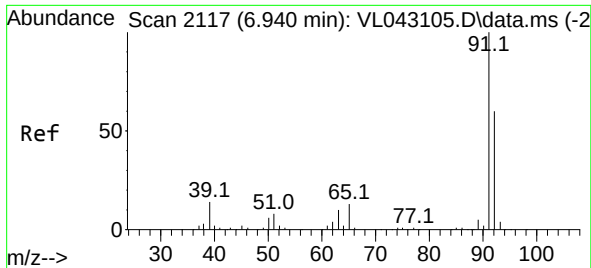
Tgt Ion: 43 Resp: 236391  
Ion Ratio Lower Upper  
43 100  
58 50.6 40.4 60.6  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 9.192 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 164 Resp: 106710  
Ion Ratio Lower Upper  
164 100  
166 122.0 97.6 146.4  
129 105.6 84.5 126.7  
131 96.5 77.2 115.8

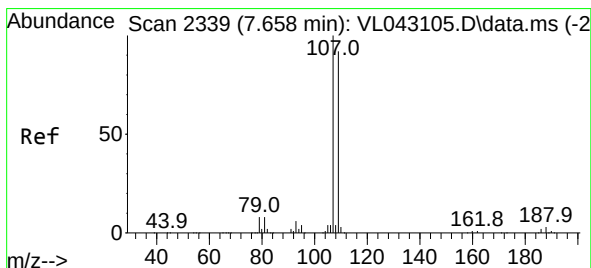
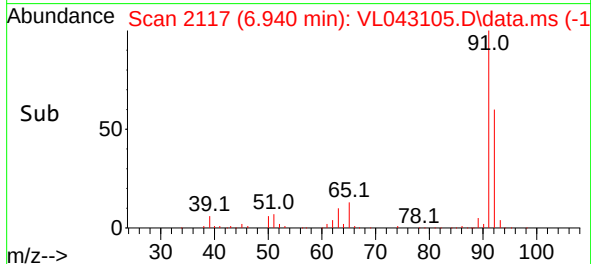
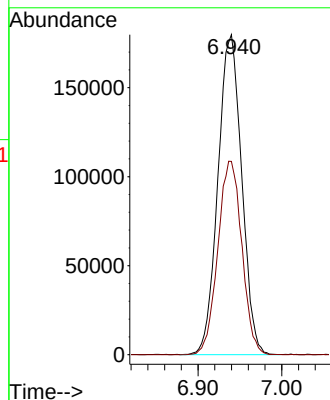
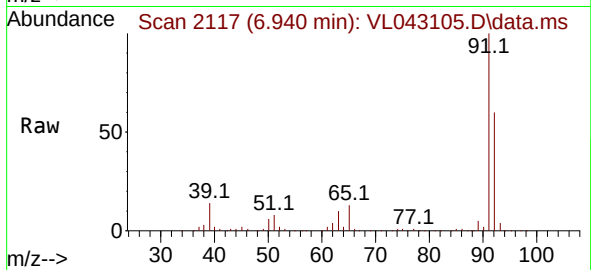




#53  
Toluene  
Concen: 9.266 ppbv  
RT: 6.940 min Scan# 2117  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

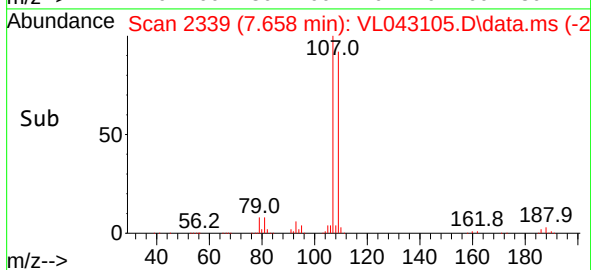
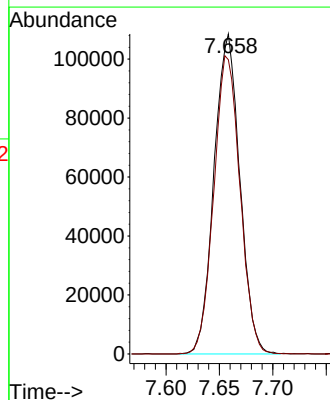
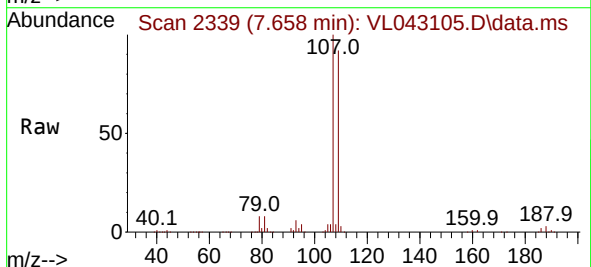
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

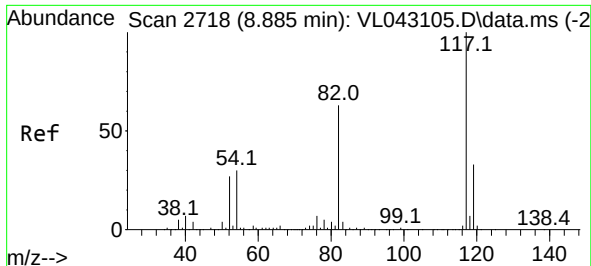
Tgt Ion: 91 Resp: 354007  
Ion Ratio Lower Upper  
91 100  
92 61.0 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 9.080 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 107 Resp: 182074  
Ion Ratio Lower Upper  
107 100  
109 91.8 73.4 110.2

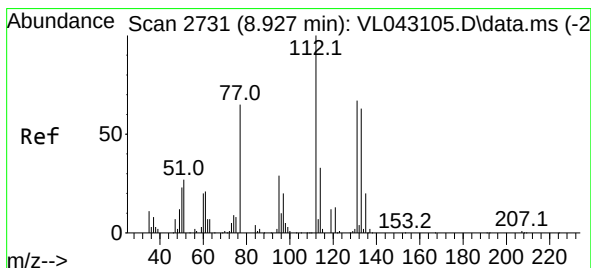
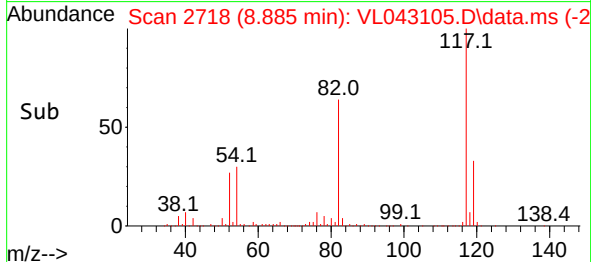
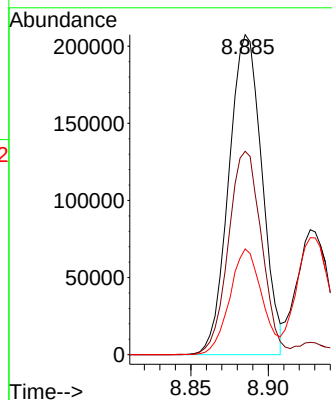
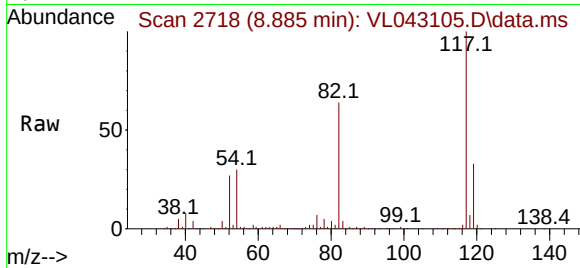




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

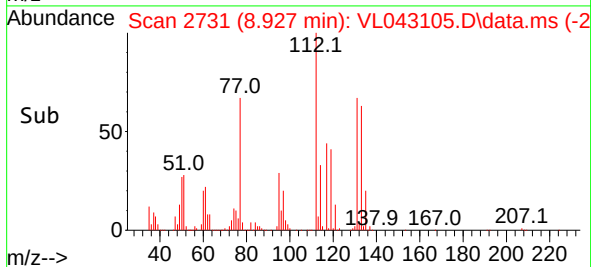
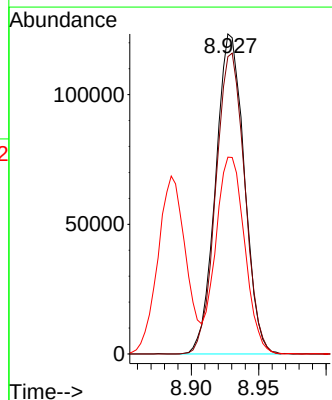
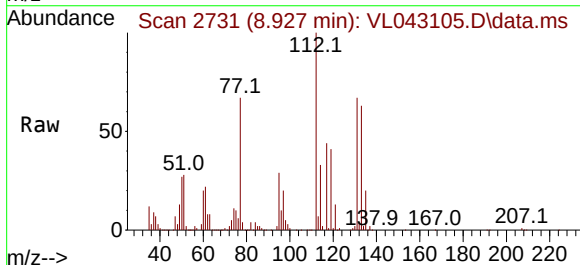
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

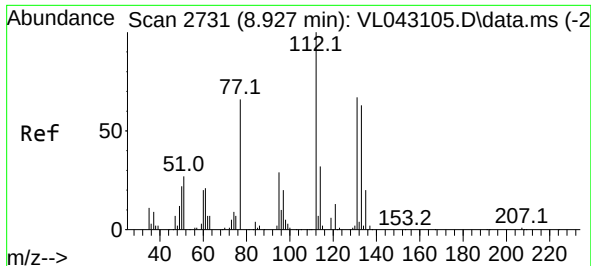
Tgt Ion:117 Resp: 309230  
Ion Ratio Lower Upper  
117 100  
82 67.3 53.8 80.8  
119 33.4 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.367 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:131 Resp: 182585  
Ion Ratio Lower Upper  
131 100  
133 94.6 75.7 113.5  
119 63.3 50.6 76.0

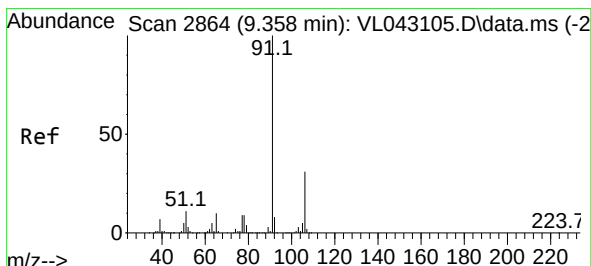
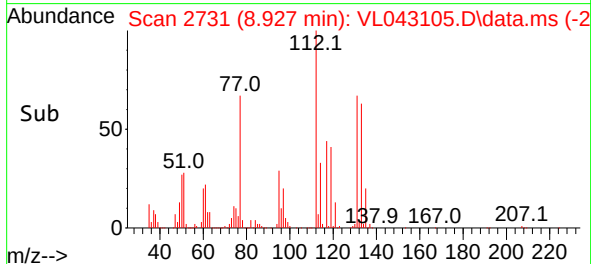
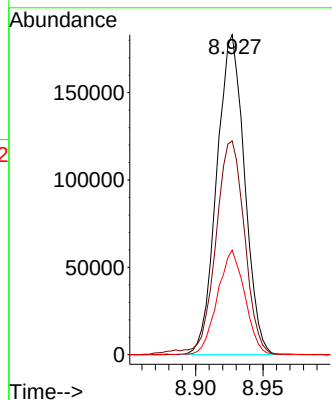
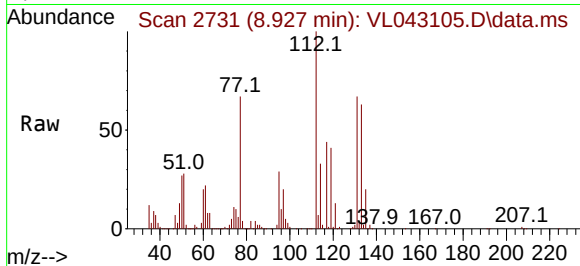




#57  
Chlorobenzene  
Concen: 9.076 ppbv  
RT: 8.927 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

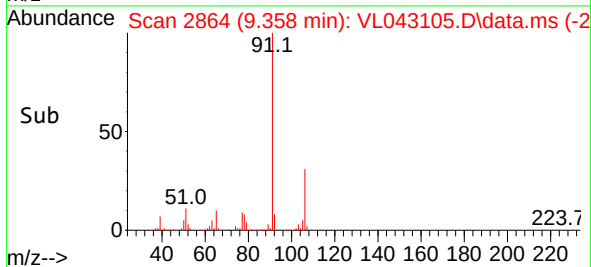
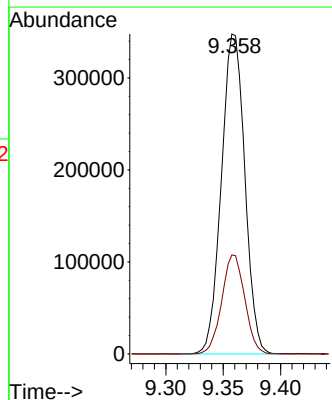
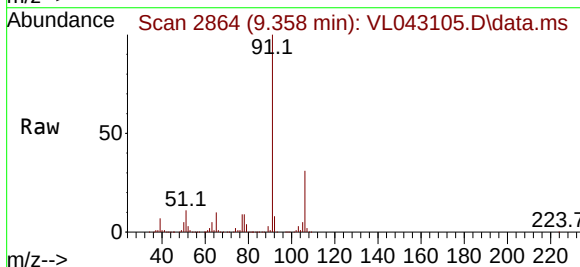
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

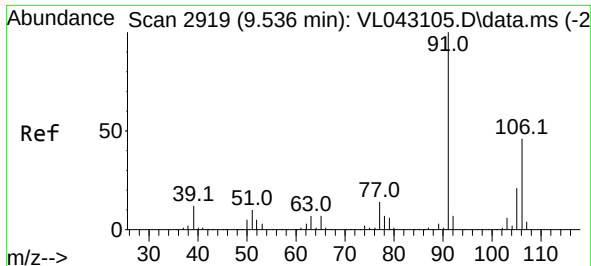
Tgt Ion:112 Resp: 262566  
Ion Ratio Lower Upper  
112 100  
77 66.6 53.3 79.9  
114 32.5 29.3 35.8



#58  
Ethyl Benzene  
Concen: 9.241 ppbv  
RT: 9.358 min Scan# 2864  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 494344  
Ion Ratio Lower Upper  
91 100  
106 31.0 24.8 37.2





#59

m/p-Xylene

Concen: 9.529 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_1

ClientSampleId :

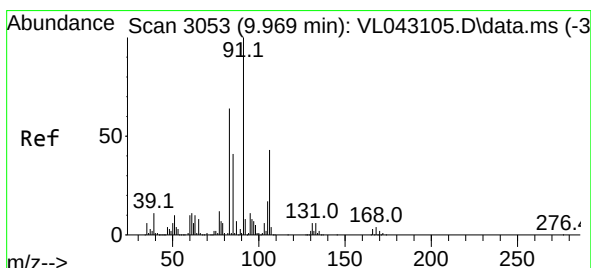
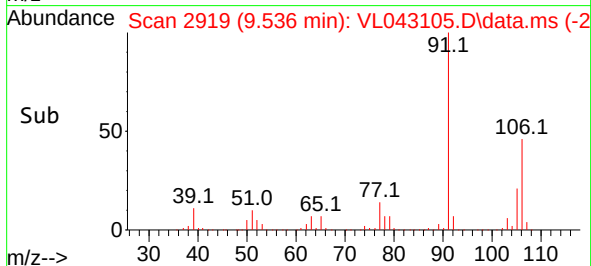
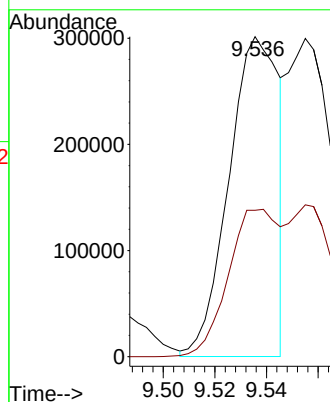
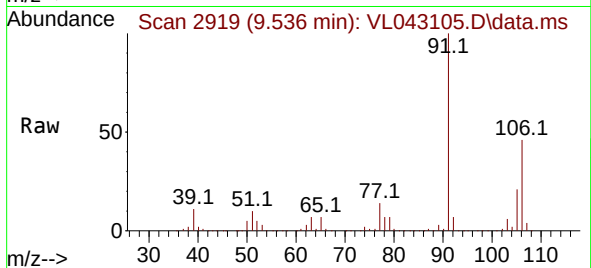
VSTDICCC010

Tgt Ion: 91 Resp: 403670

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 9.053 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL043105.D

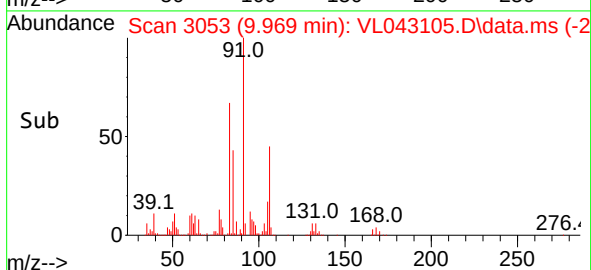
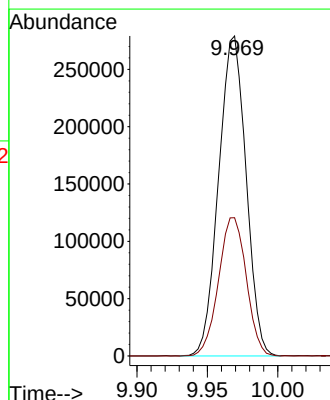
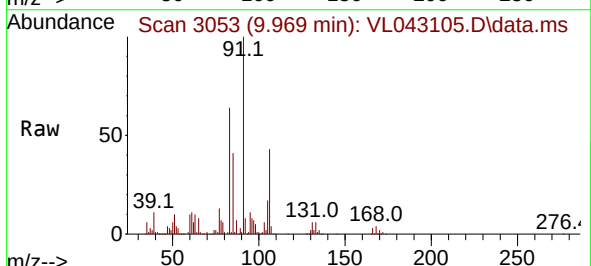
Acq: 14 Oct 2025 10:31

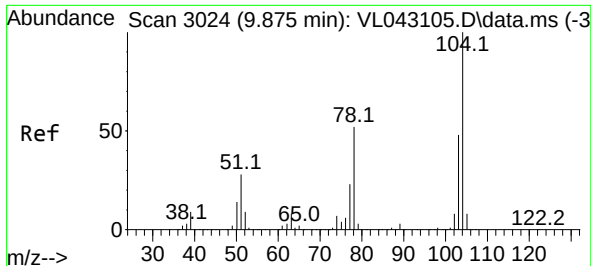
Tgt Ion: 91 Resp: 378462

Ion Ratio Lower Upper

91 100

106 43.9 21.9 65.8

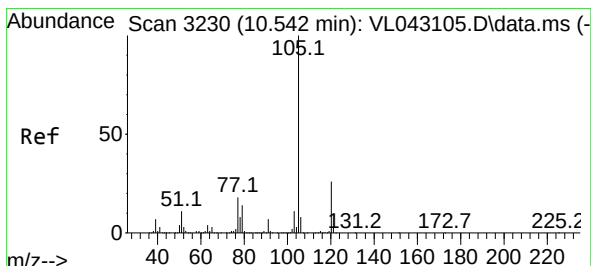
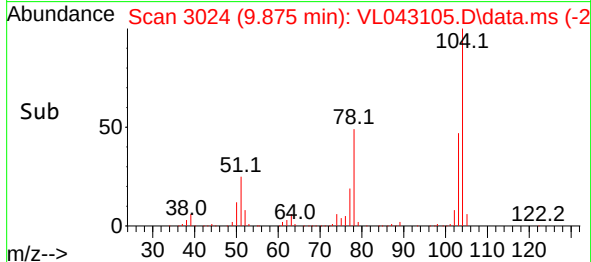
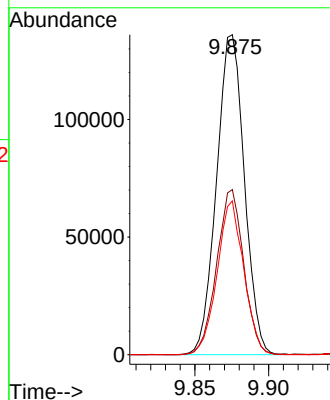
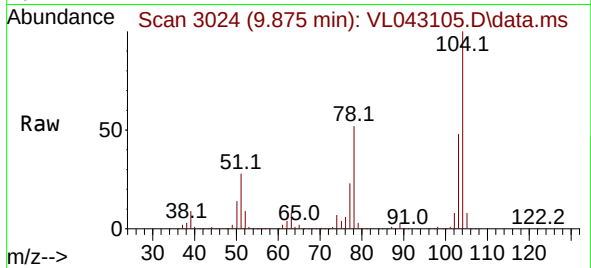




#61  
Styrene  
Concen: 9.477 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

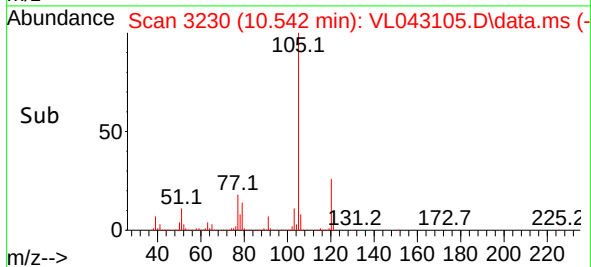
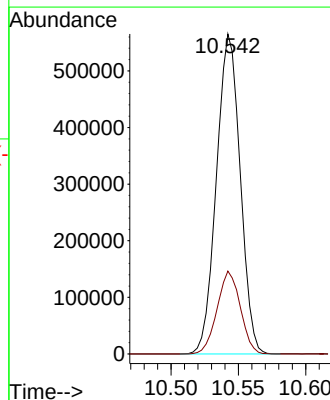
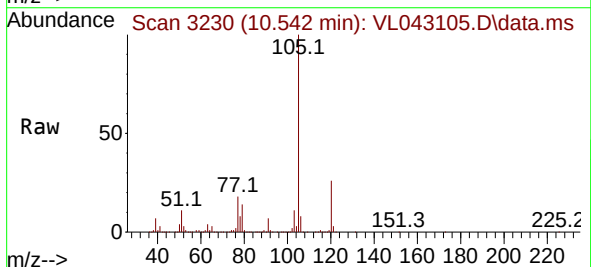
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

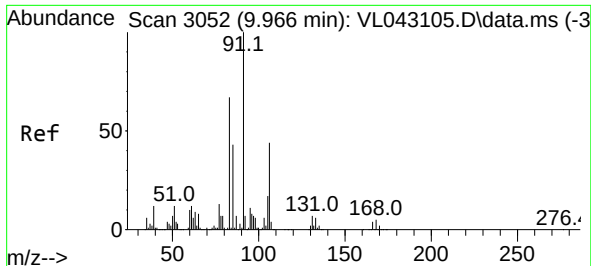
Tgt Ion:104 Resp: 178859  
Ion Ratio Lower Upper  
104 100  
78 50.2 40.2 60.2  
103 46.1 36.9 55.3



#62  
Isopropylbenzene  
Concen: 9.173 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 692992  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.2 30.4

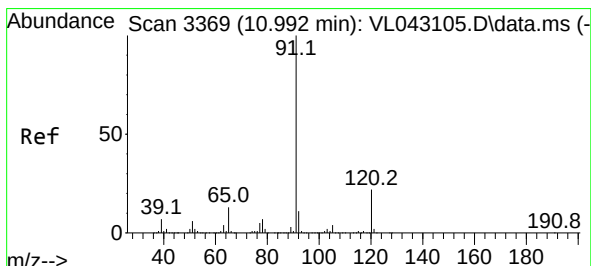
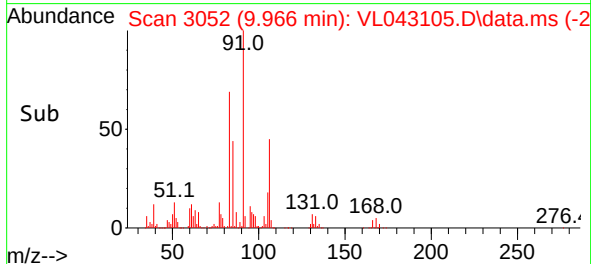
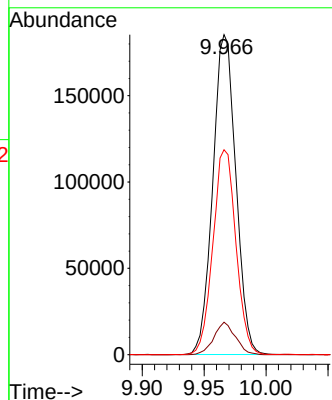
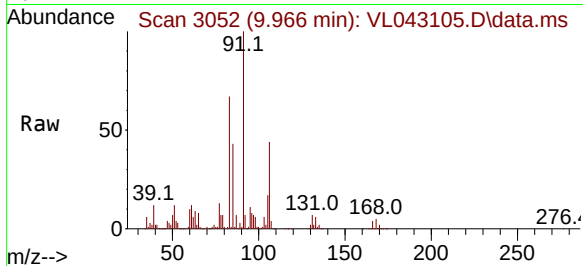




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.582 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

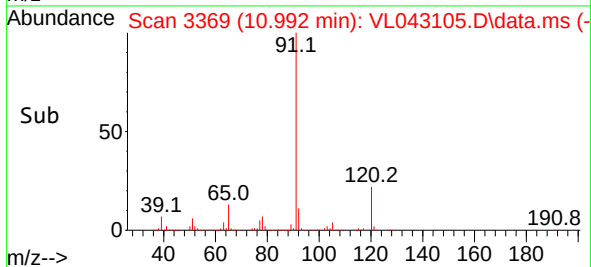
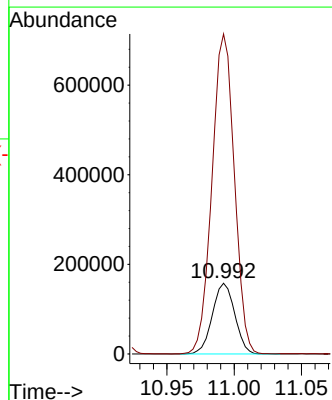
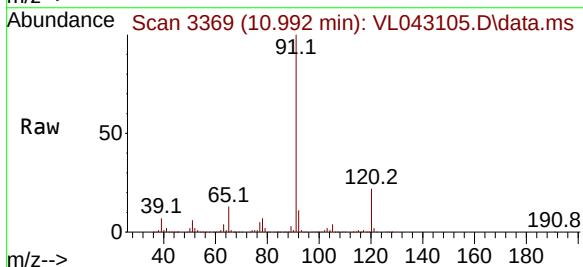
Instrument : MSVOA\_1  
ClientSampleId : VSTDICCC010

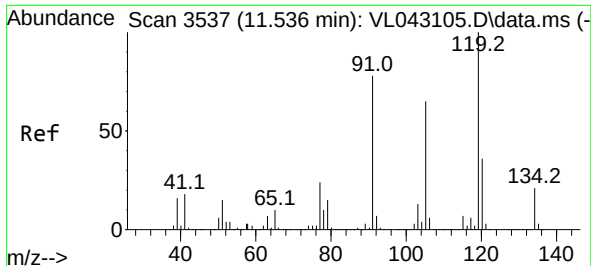
Tgt Ion: 83 Resp: 240245  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.0 32.0 96.0



#64  
n-propylbenzene  
Concen: 9.112 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 120 Resp: 182233  
Ion Ratio Lower Upper  
120 100  
91 452.0 361.6 542.4

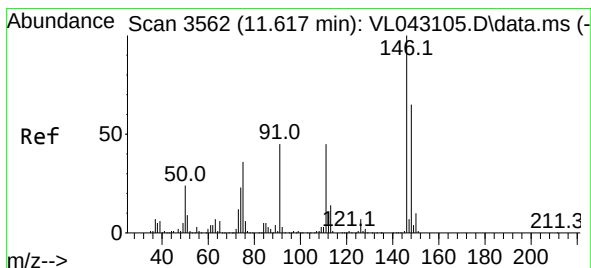
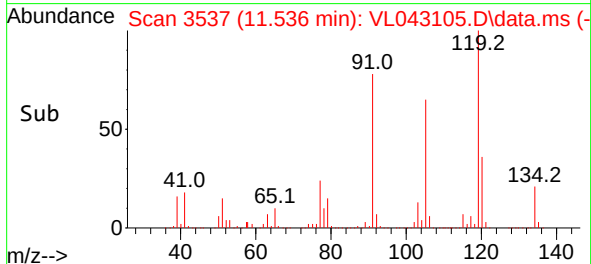
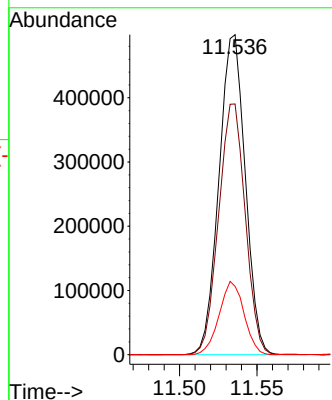
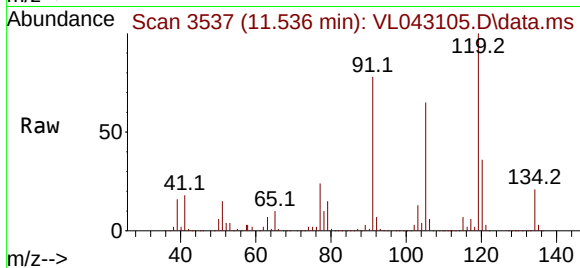




#65  
tert-Butylbenzene  
Concen: 8.810 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

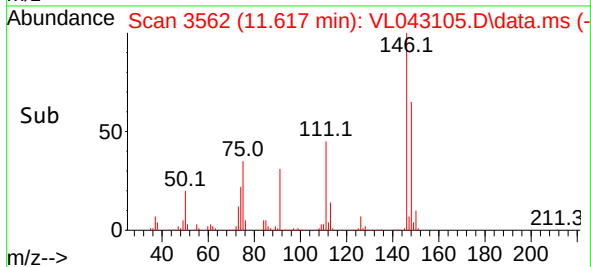
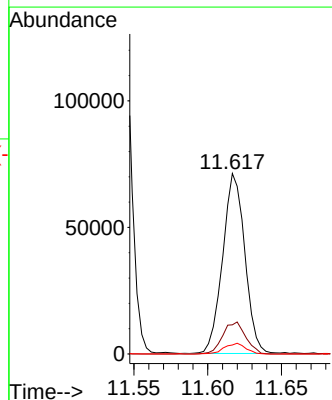
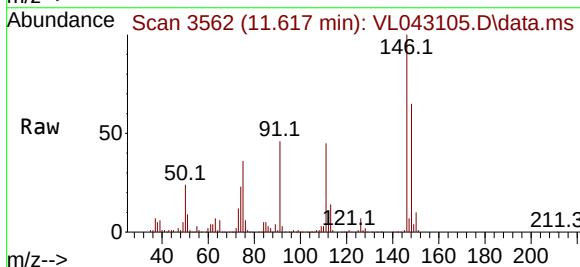
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion:119 Resp: 587750  
Ion Ratio Lower Upper  
119 100  
91 79.1 63.4 95.0  
134 21.6 17.3 25.9

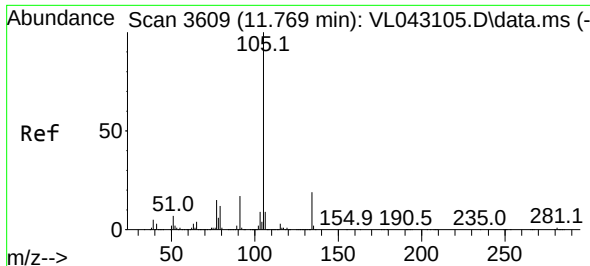


#66  
Benzyl Chloride  
Concen: 10.009 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 74574  
Ion Ratio Lower Upper  
91 100  
126 18.3 14.6 22.0  
128 5.7 4.6 6.8



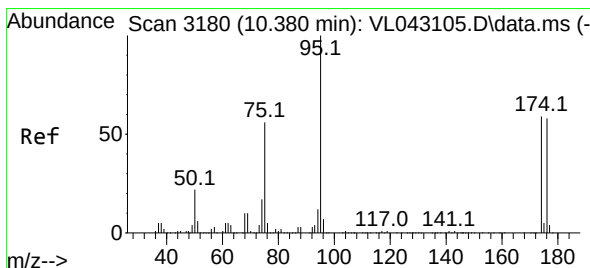
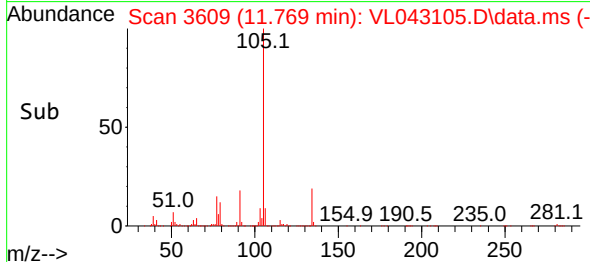
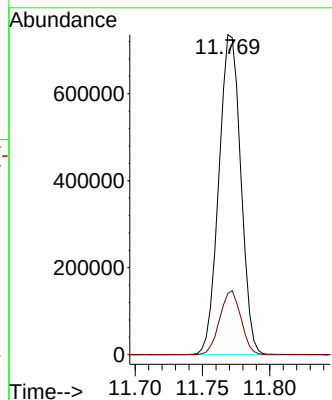
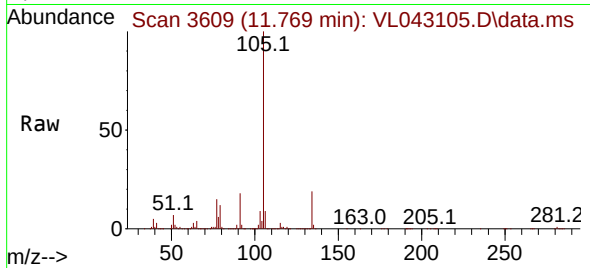




#67  
 sec-Butylbenzene  
 Concen: 8.809 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

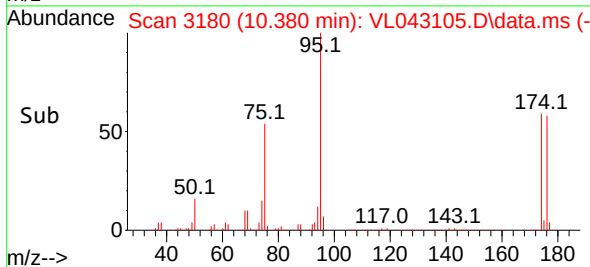
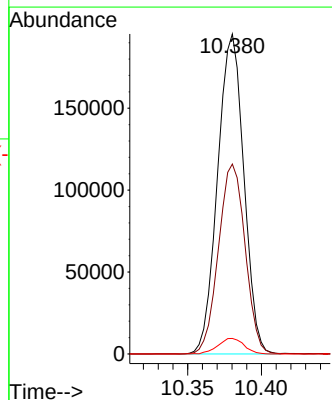
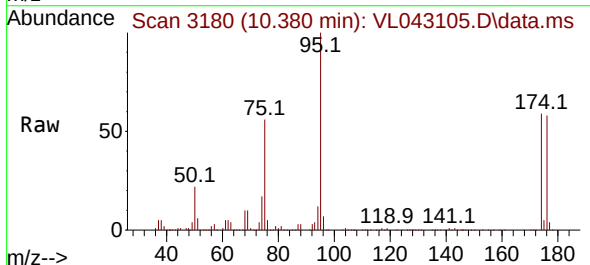
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

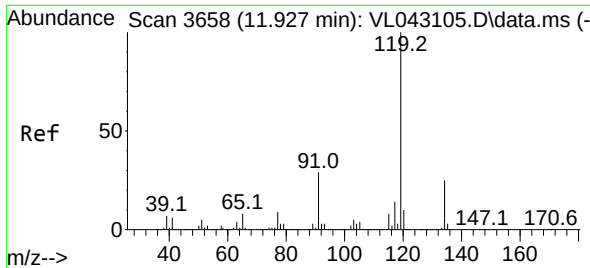
Tgt Ion:105 Resp: 834052  
 Ion Ratio Lower Upper  
 105 100  
 134 19.4 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.046 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion: 95 Resp: 241468  
 Ion Ratio Lower Upper  
 95 100  
 174 60.4 48.3 72.5  
 175 4.8 3.8 5.8

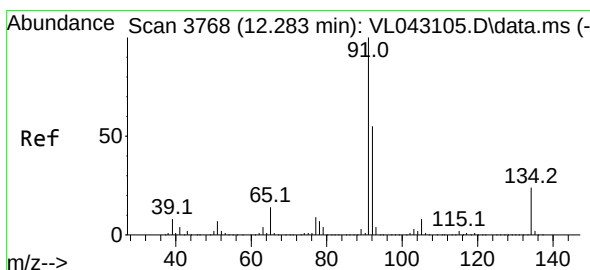
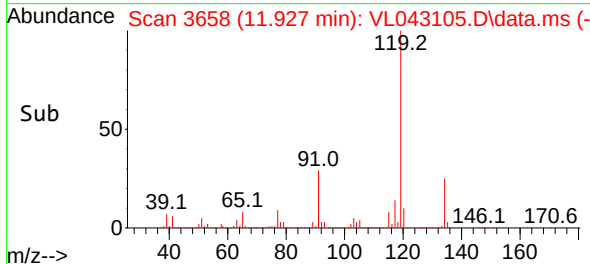
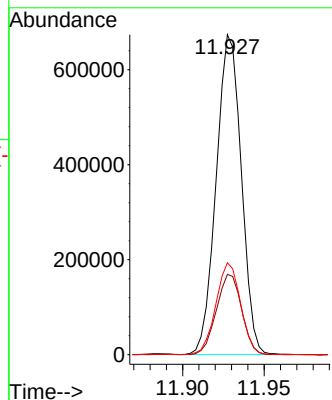
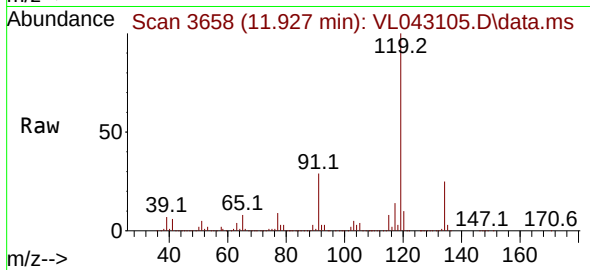




#69  
p-Isopropyltoluene  
Concen: 8.955 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

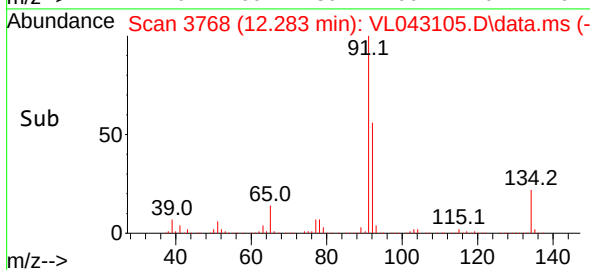
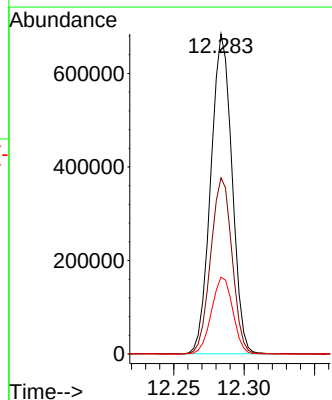
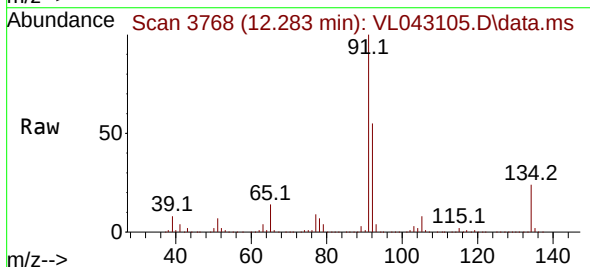
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

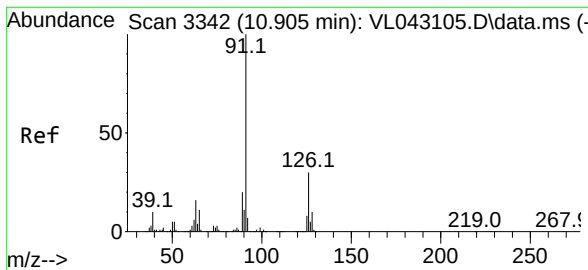
Tgt Ion:119 Resp: 720433  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 28.3 22.6 33.8



#70  
n-Butylbenzene  
Concen: 9.053 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion: 91 Resp: 717743  
Ion Ratio Lower Upper  
91 100  
92 55.6 44.5 66.7  
134 24.1 19.3 28.9

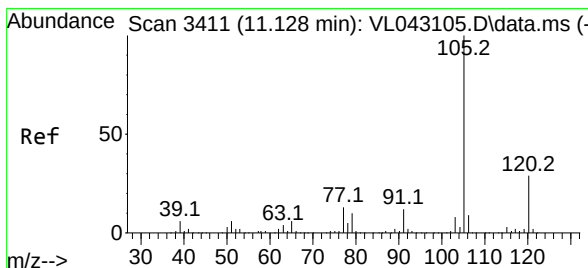
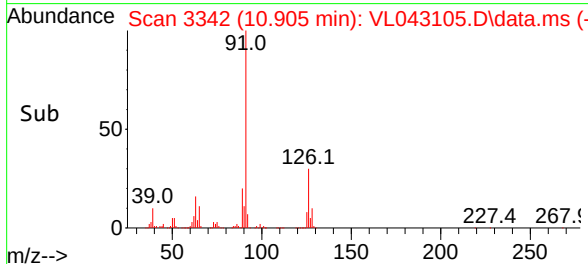
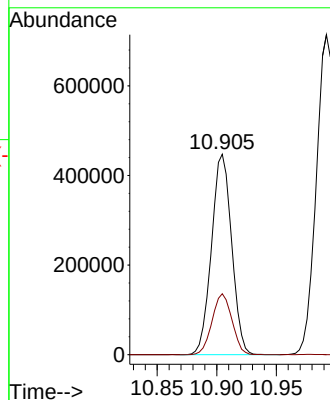
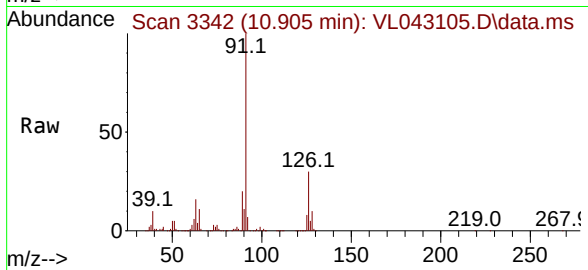




#71  
 2-Chlorotoluene  
 Concen: 9.111 ppbv  
 RT: 10.905 min Scan# 311  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

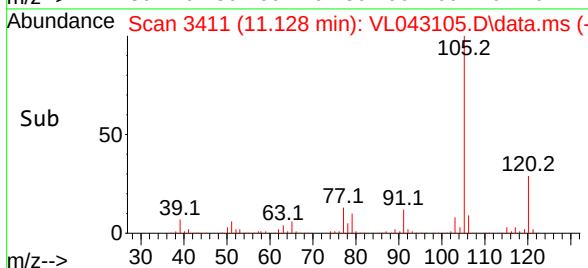
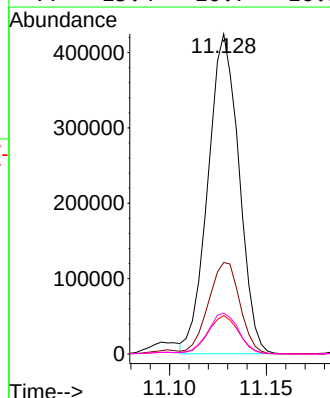
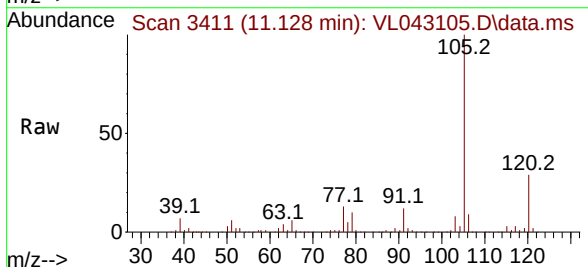
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

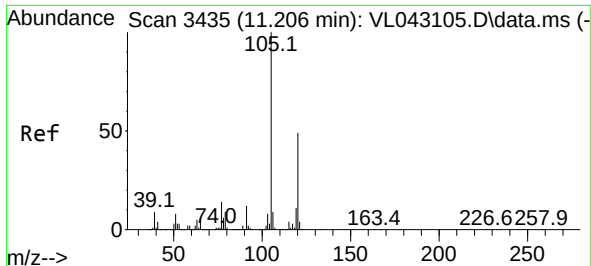
Tgt Ion: 91 Resp: 524961  
 Ion Ratio Lower Upper  
 91 100  
 126 30.0 12.0 48.0



#72  
 4-Ethyltoluene  
 Concen: 9.202 ppbv  
 RT: 11.128 min Scan# 3411  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Tgt Ion: 105 Resp: 473042  
 Ion Ratio Lower Upper  
 105 100  
 120 30.3 24.2 36.4  
 91 12.5 10.0 15.0  
 77 13.4 10.7 16.1

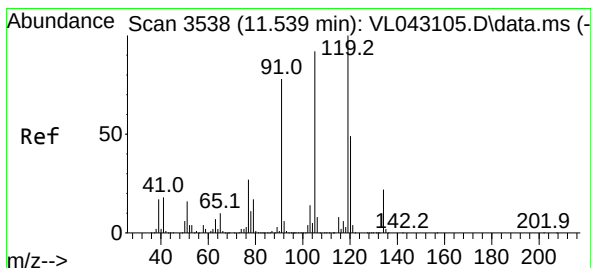
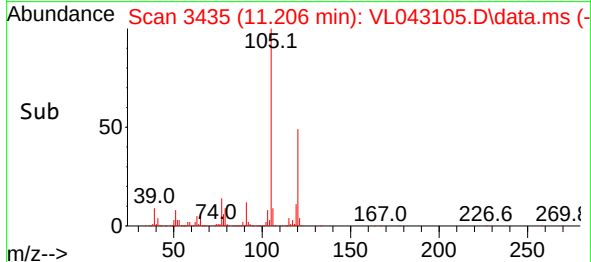
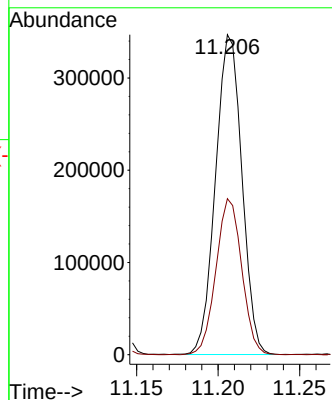
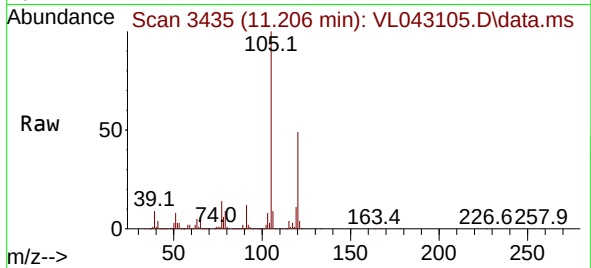




#73  
1,3,5-Trimethylbenzene  
Concen: 9.195 ppbv  
RT: 11.206 min Scan# 3435  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

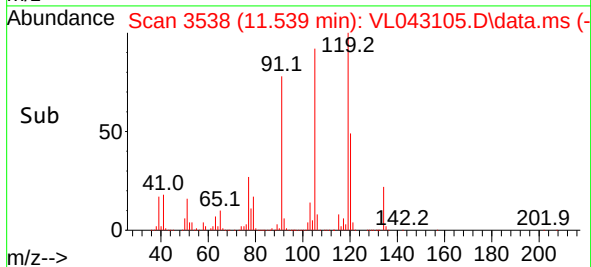
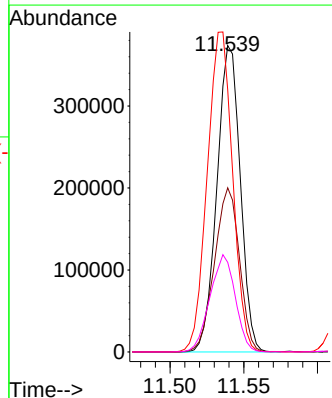
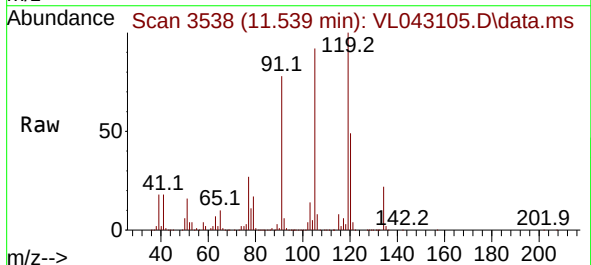
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

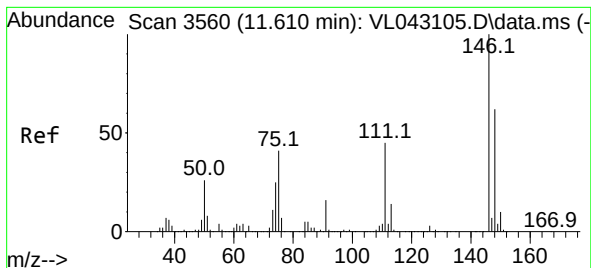
Tgt Ion:105 Resp: 389818  
Ion Ratio Lower Upper  
105 100  
120 48.8 39.0 58.6



#74  
1,2,4-Trimethylbenzene  
Concen: 8.676 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:105 Resp: 411619  
Ion Ratio Lower Upper  
105 100  
120 53.5 42.8 64.2  
91 85.4 68.3 102.5  
77 29.2 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 9.192 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

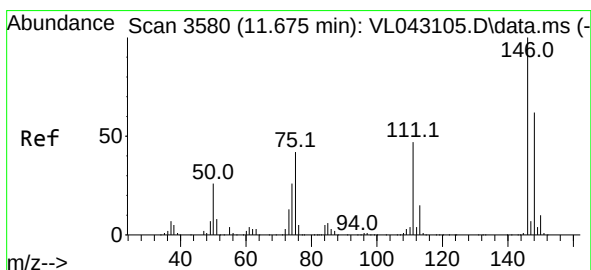
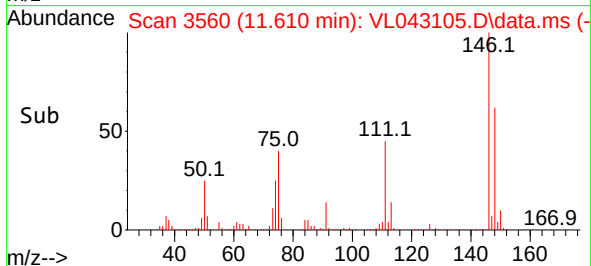
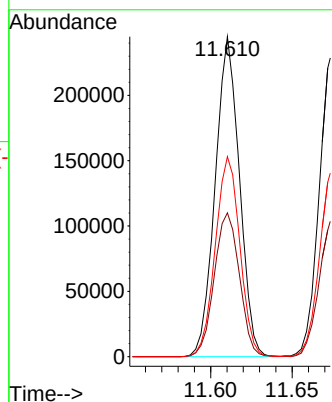
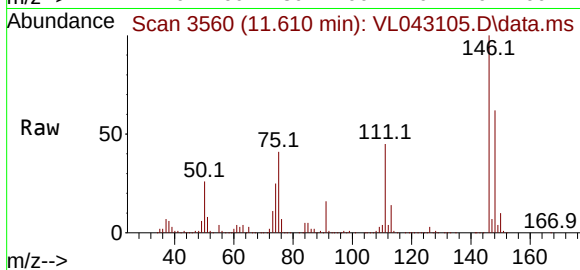
Tgt Ion:146 Resp: 252926

Ion Ratio Lower Upper

146 100

111 46.6 23.3 69.9

148 63.3 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 9.171 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.000 min

Lab File: VL043105.D

Acq: 14 Oct 2025 10:31

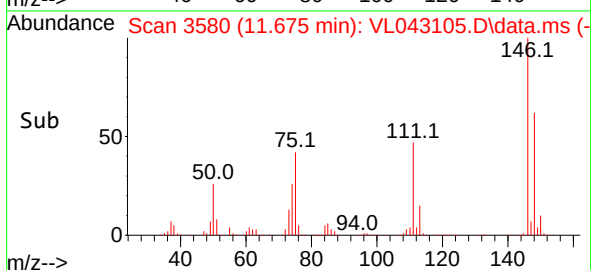
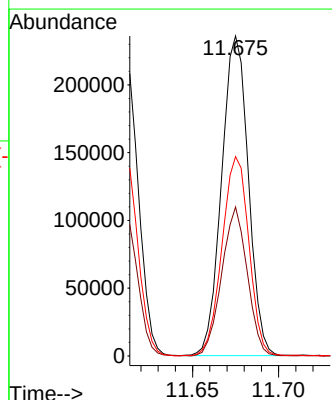
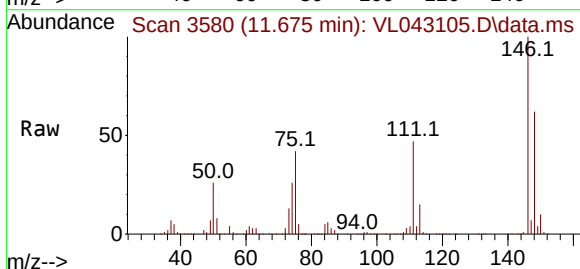
Tgt Ion:146 Resp: 254461

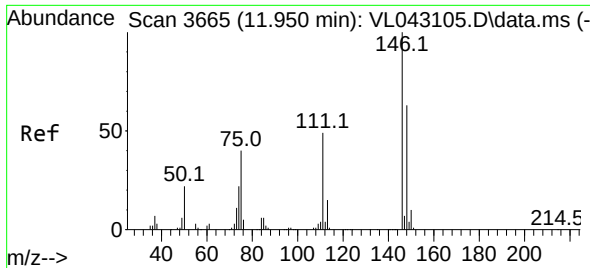
Ion Ratio Lower Upper

146 100

111 44.7 22.4 67.0

148 63.1 31.6 94.7

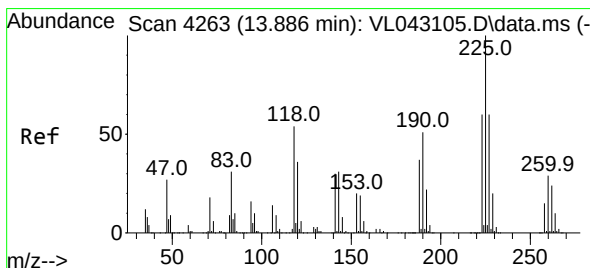
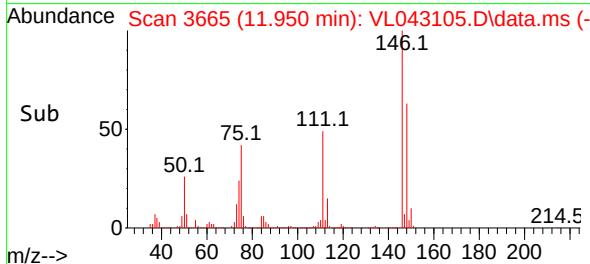
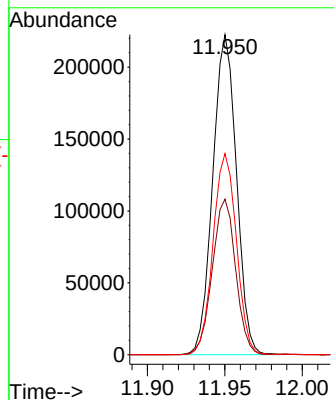
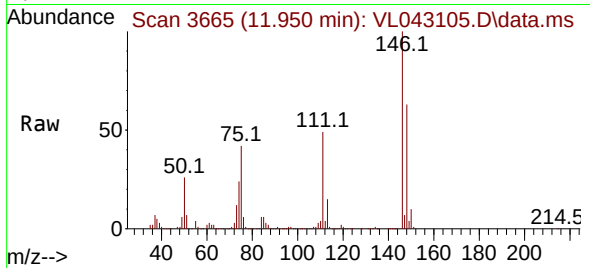




#77  
1,2-Dichlorobenzene  
Concen: 8.893 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

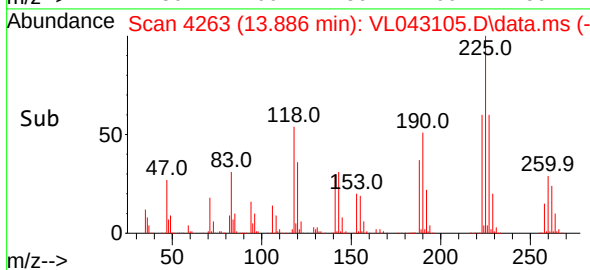
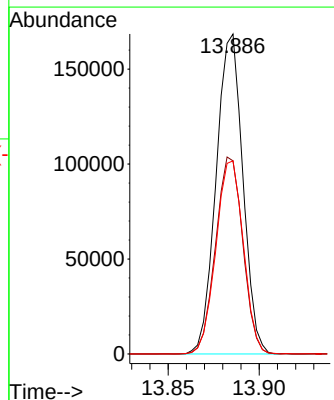
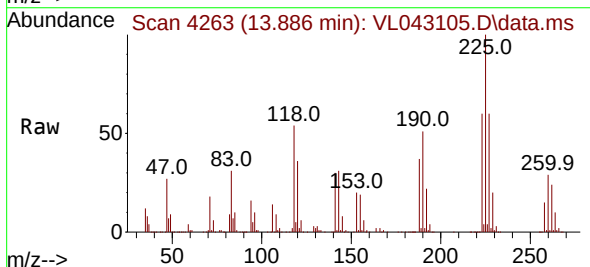
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

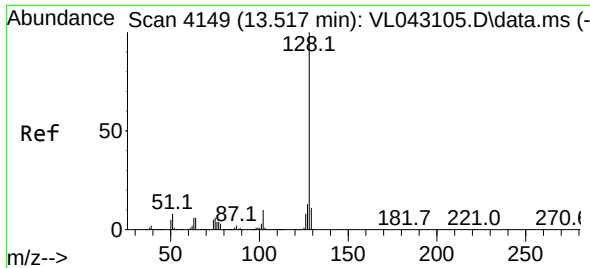
Tgt Ion:146 Resp: 236724  
Ion Ratio Lower Upper  
146 100  
111 48.0 24.0 72.0  
148 62.2 31.1 93.3



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.334 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:225 Resp: 171777  
Ion Ratio Lower Upper  
225 100  
223 62.8 50.2 75.4  
227 62.0 49.6 74.4

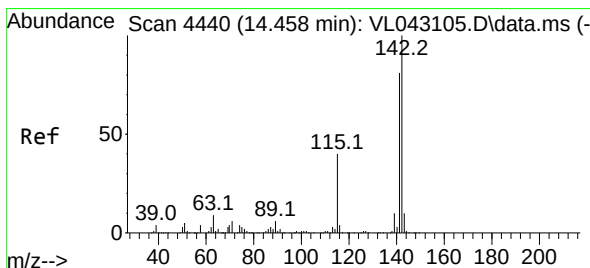
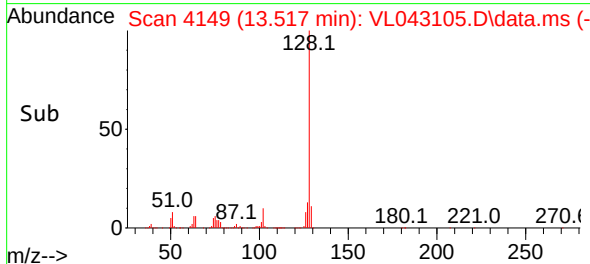
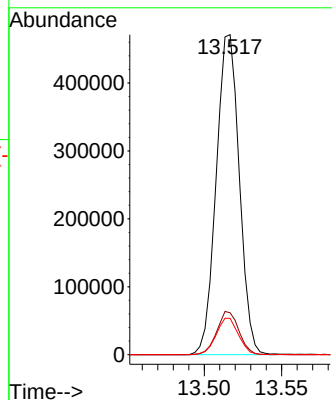
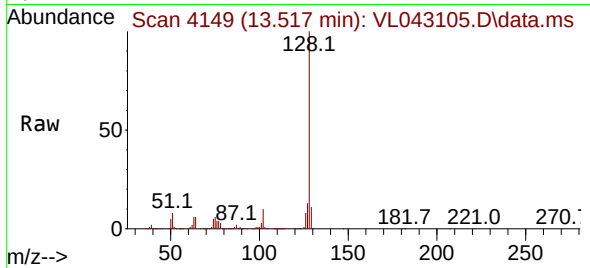




#79  
Naphthalene  
Concen: 9.972 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

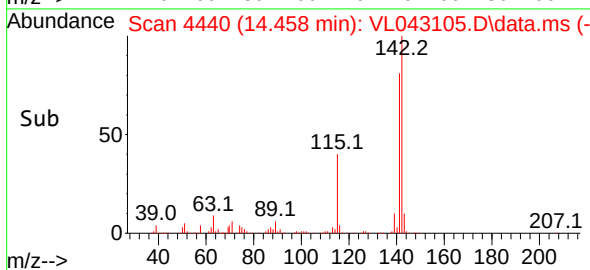
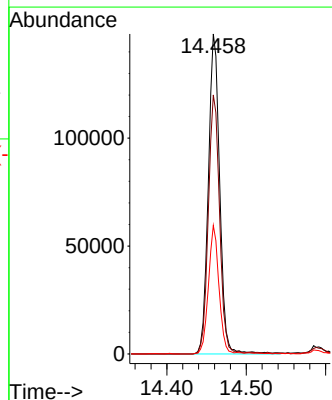
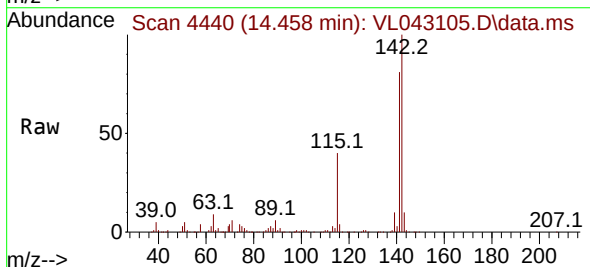
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

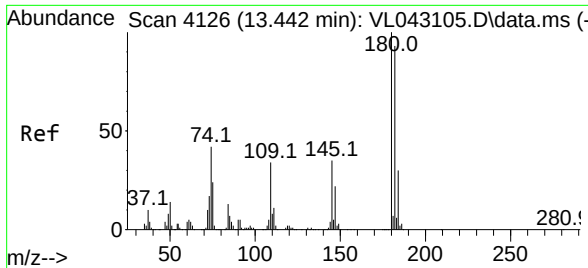
Tgt Ion:128 Resp: 488672  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 11.4 9.1 13.7



#80  
Naphthalene,2-methyl-  
Concen: 11.431 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL043105.D  
Acq: 14 Oct 2025 10:31

Tgt Ion:142 Resp: 147897  
Ion Ratio Lower Upper  
142 100  
141 80.8 64.6 97.0  
115 37.8 30.2 45.4

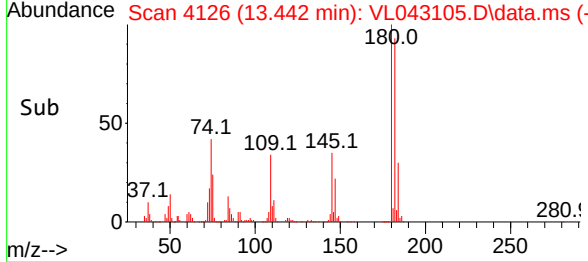
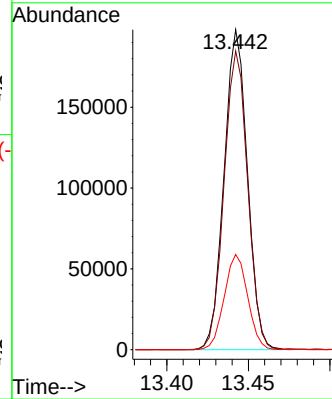
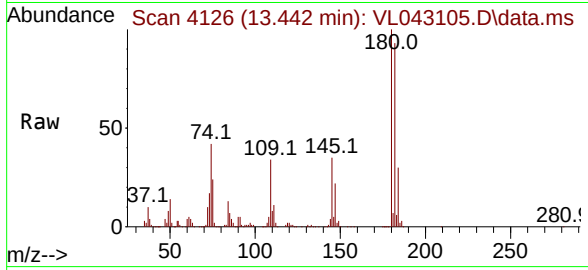




#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.582 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL043105.D  
 Acq: 14 Oct 2025 10:31

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 197210 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.4  | 75.5  | 113.3  |
| 184       | 29.9  | 23.9  | 35.9   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043106.D  
 Acq On : 14 Oct 2025 11:27  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Oct 15 01:51:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 105309   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 342939   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 313603   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 244329   | 10.024   | ppbv       | 0.00 |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | = 100.200% |      |

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 31189  | 2.083 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 33217  | 2.050 | ppbv   | 96     |
| 4) Chloromethane              | 1.535 | 50  | 12185  | 2.054 | ppbv   | 93     |
| 5) Vinyl Chloride             | 1.583 | 62  | 11114  | 1.911 | ppbv   | 92     |
| 6) Bromomethane               | 1.671 | 94  | 6672   | 2.092 | ppbv   | 95     |
| 7) Chloroethane               | 1.706 | 64  | 5008   | 2.106 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 25897  | 2.140 | ppbv   | 100    |
| 9) Propene                    | 1.486 | 41  | 15177  | 2.112 | ppbv   | 94     |
| 10) Heptane                   | 4.982 | 43  | 42790  | 2.078 | ppbv   | 97     |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 31114  | 2.125 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 25091  | 2.128 | ppbv   | 100    |
| 13) Ethanol                   | 1.722 | 45  | 6363   | 2.394 | ppbv   | 95     |
| 14) Bromoethene               | 1.784 | 108 | 9087   | 2.075 | ppbv   | 97     |
| 15) Acetone                   | 1.836 | 43  | 31756  | 2.225 | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 13668  | 2.021 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 40738  | 2.091 | ppbv   | 96     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 10794  | 2.100 | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 18326  | 2.073 | ppbv # | 40     |
| 20) Methylene Chloride        | 2.062 | 84  | 10694  | 1.906 | ppbv # | 82     |
| 21) Allyl Chloride            | 2.098 | 41  | 21902  | 2.090 | ppbv   | 93     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 12511  | 2.036 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.464 | 43  | 48282  | 2.322 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 25066  | 2.112 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.836 | 43  | 74929  | 2.129 | ppbv   | 99     |
| 26) Hexane                    | 2.829 | 57  | 32595  | 2.010 | ppbv   | 93     |
| 27) Carbon Disulfide          | 2.153 | 76  | 31705  | 2.134 | ppbv   | 95     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 16207  | 2.196 | ppbv   | 98     |
| 29) Chloroform                | 2.849 | 83  | 48367  | 2.058 | ppbv   | 99     |
| 30) Cyclohexane               | 3.859 | 84  | 29270  | 2.069 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 31925  | 2.061 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 51049  | 2.086 | ppbv   | 98     |
| 34) 2-Butanone                | 2.558 | 43  | 48458  | 2.090 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.765 | 117 | 51073  | 2.071 | ppbv   | 97     |
| 36) Benzene                   | 3.658 | 78  | 70156  | 2.172 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 38767  | 2.083 | ppbv   | 100    |
| 38) Trichloroethene           | 4.551 | 130 | 27272  | 2.024 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 25427  | 2.151 | ppbv   | 92     |
| 40) 1,4-Dioxane               | 4.584 | 88  | 4954   | 0.938 | ppbv # | 21     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 26362  | 2.037 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.496 | 83  | 54224  | 2.106 | ppbv # | 93     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 33805  | 2.051 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 115417 | 2.137 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.416 | 75  | 34728  | 2.109 | ppbv   | 90     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043106.D  
 Acq On : 14 Oct 2025 11:27  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

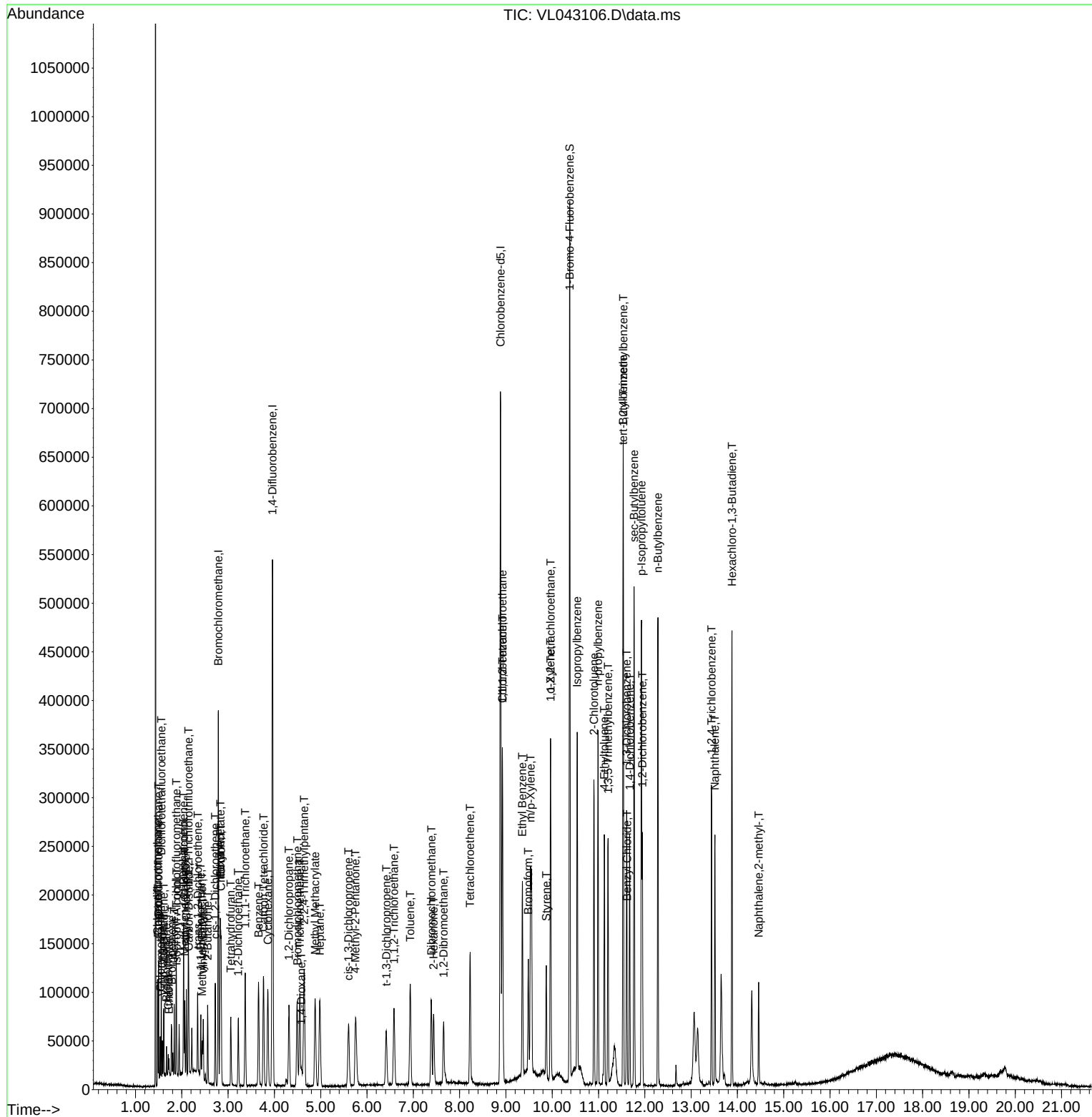
Quant Time: Oct 15 01:51:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

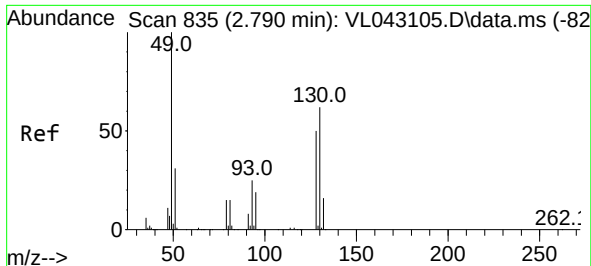
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 23612    | 1.202 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 26359    | 2.067 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.390  | 129  | 45751    | 2.146 | ppbv   | 99       |
| 49) Bromoform                 | 9.484  | 173  | 37314    | 2.153 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 66811    | 2.089 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.438  | 43   | 50642    | 2.122 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 24183    | 2.076 | ppbv   | 91       |
| 53) Toluene                   | 6.937  | 91   | 80660    | 2.104 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 42320    | 2.103 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 41712    | 2.110 | ppbv   | 94       |
| 57) Chlorobenzene             | 8.924  | 112  | 62714    | 2.138 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.354  | 91   | 114403   | 2.109 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.532  | 91   | 96158    | 2.238 | ppbv # | 29       |
| 60) o-Xylene                  | 9.963  | 91   | 91223    | 2.152 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 41631    | 2.175 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 164073   | 2.142 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 58510    | 2.061 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 43648    | 2.152 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 148300   | 2.192 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 15656    | 2.072 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 210525   | 2.193 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 180060   | 2.207 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 178676   | 2.222 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 126551   | 2.166 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 113233   | 2.172 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 92650    | 2.155 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 104352   | 2.169 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 62709    | 2.247 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 60877    | 2.164 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 57304    | 2.123 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 46796    | 2.239 | ppbv   | 98       |
| 79) Naphthalene               | 13.514 | 128  | 123642   | 2.488 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 32308    | 2.462 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 50394    | 2.414 | ppbv   | 99       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC002

Quant Time: Oct 15 01:51:55 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 01:49:43 2025  
Response via : Initial Calibration

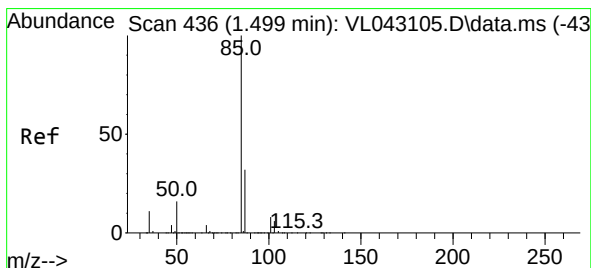
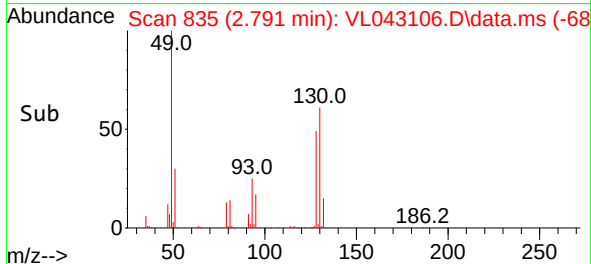
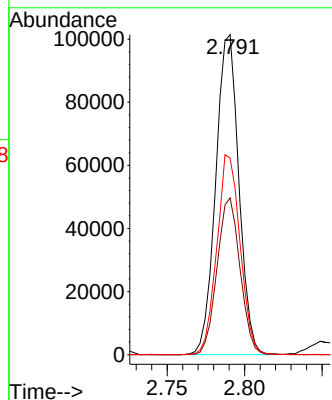
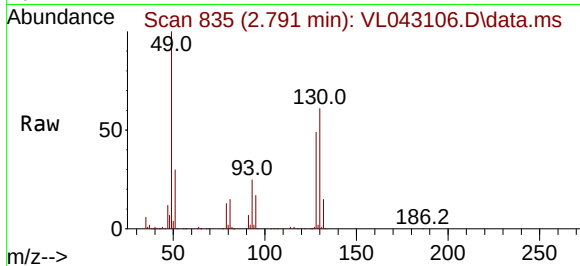




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 81  
Delta R.T. 0.001 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

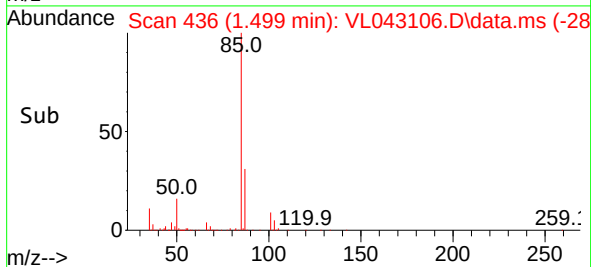
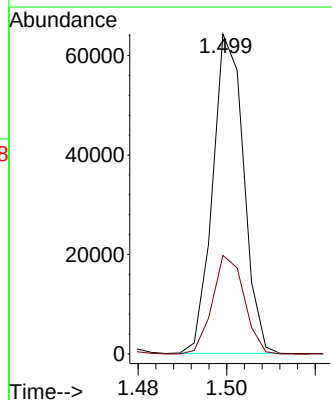
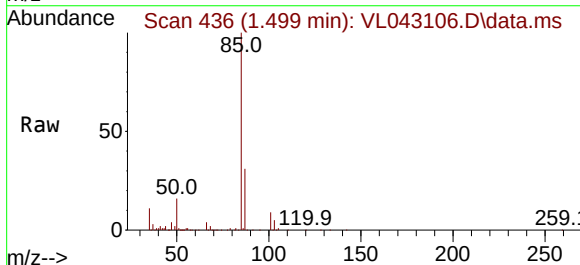
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

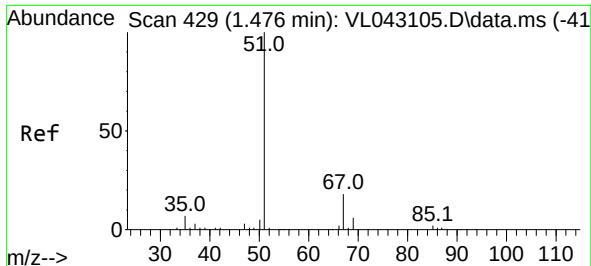
Tgt Ion: 49 Resp: 105309  
Ion Ratio Lower Upper  
49 100  
128 48.8 24.4 73.4  
130 62.8 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 2.083 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 31189  
Ion Ratio Lower Upper  
85 100  
87 30.9 25.3 37.9

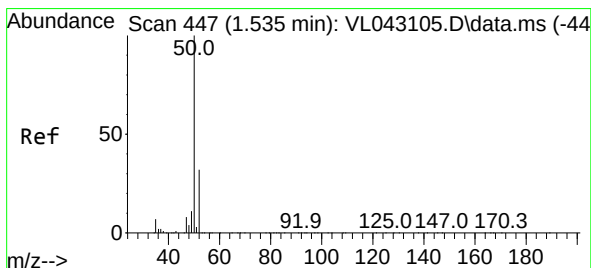
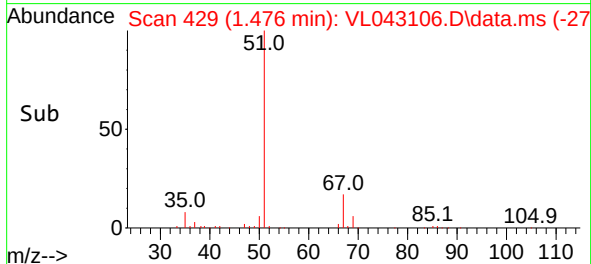
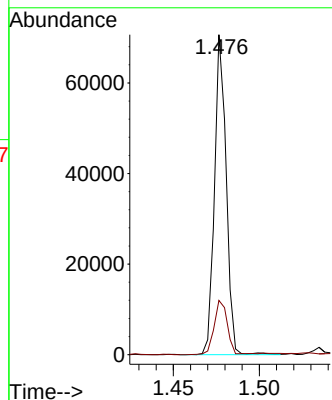
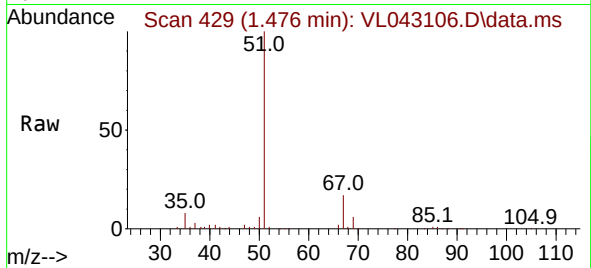




#3  
Chlorodifluoromethane  
Concen: 2.050 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

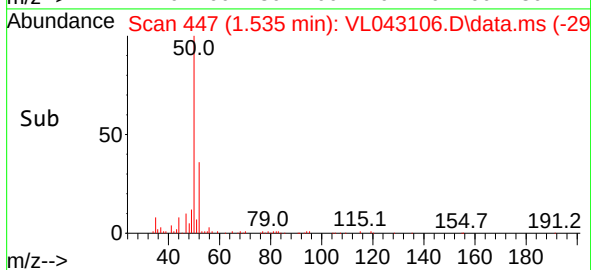
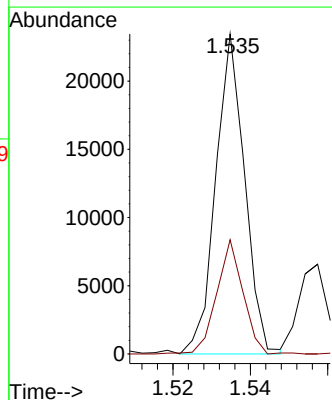
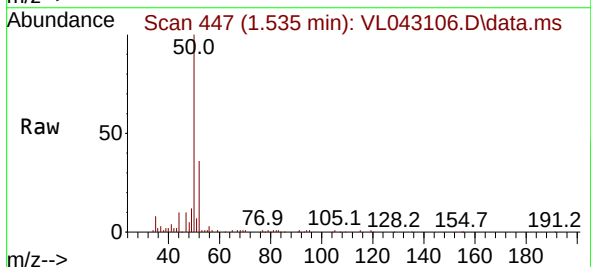
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

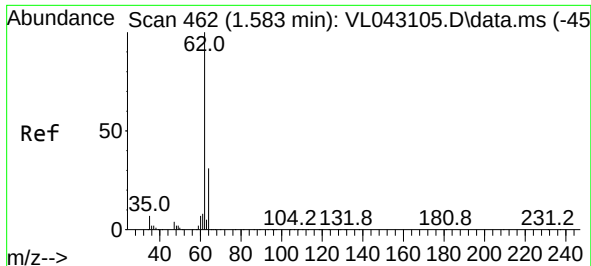
Tgt Ion: 51 Resp: 33217  
Ion Ratio Lower Upper  
51 100  
67 20.6 15.1 22.7



#4  
Chloromethane  
Concen: 2.054 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 50 Resp: 12185  
Ion Ratio Lower Upper  
50 100  
52 35.4 25.2 37.8

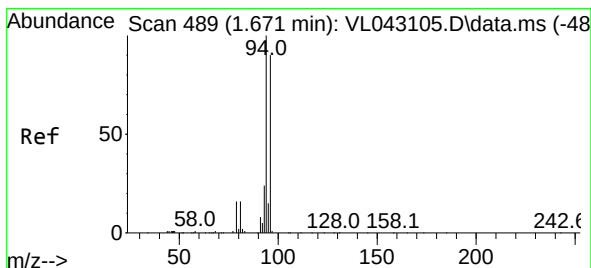
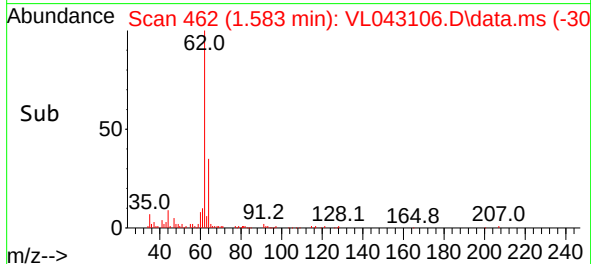
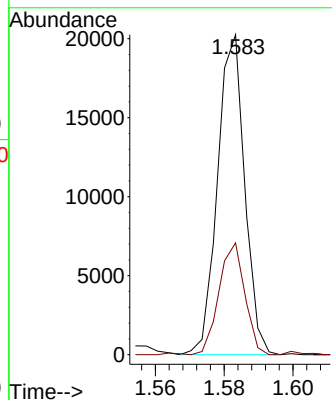
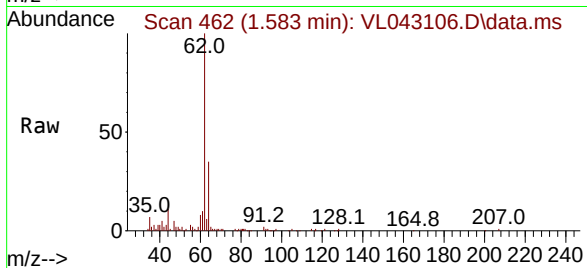




#5  
 Vinyl Chloride  
 Concen: 1.911 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

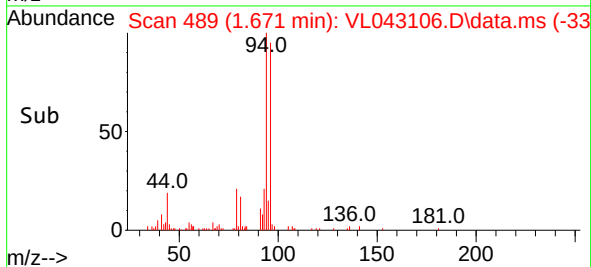
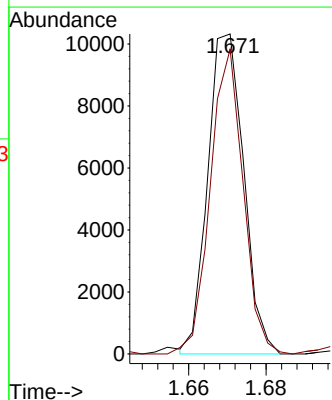
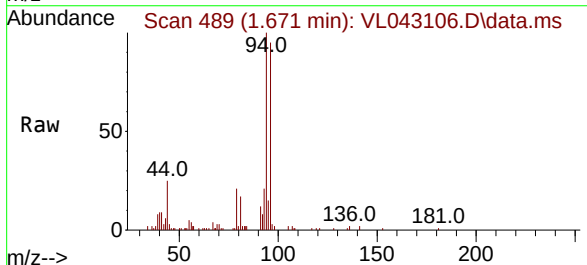
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

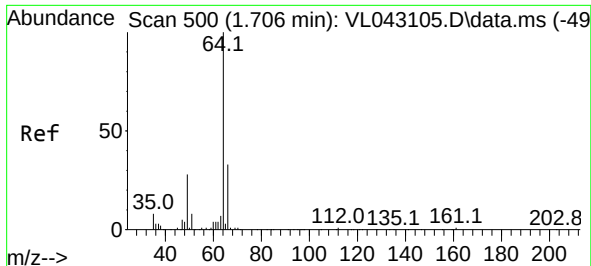
Tgt Ion: 62 Resp: 11114  
 Ion Ratio Lower Upper  
 62 100  
 64 35.0 24.6 36.8



#6  
 Bromomethane  
 Concen: 2.092 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Tgt Ion: 94 Resp: 6672  
 Ion Ratio Lower Upper  
 94 100  
 96 94.6 72.2 108.4

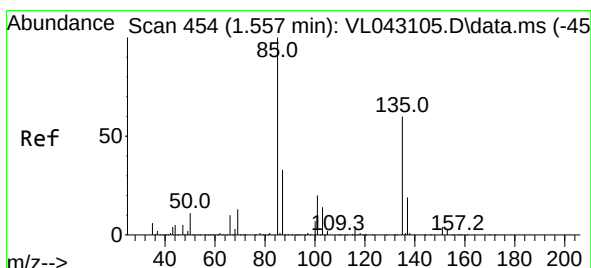
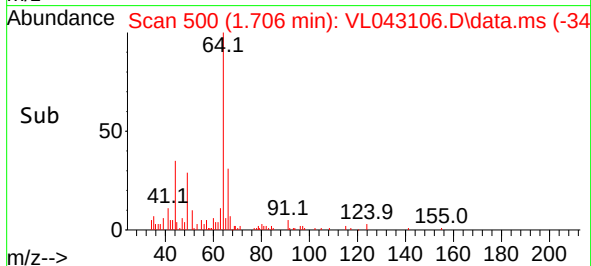
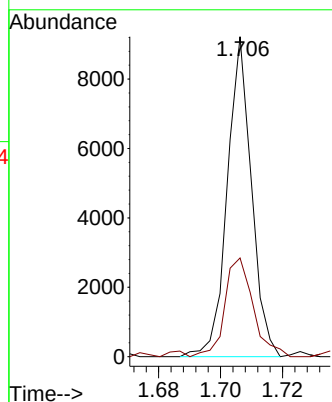
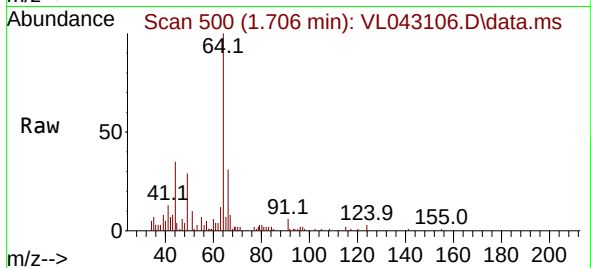




#7  
Chloroethane  
Concen: 2.106 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

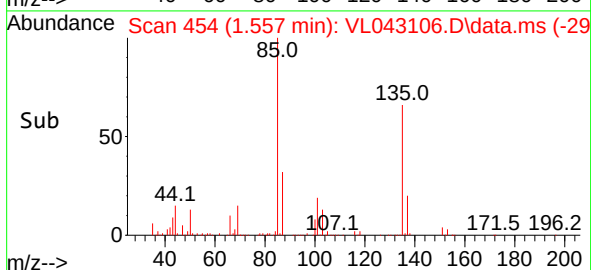
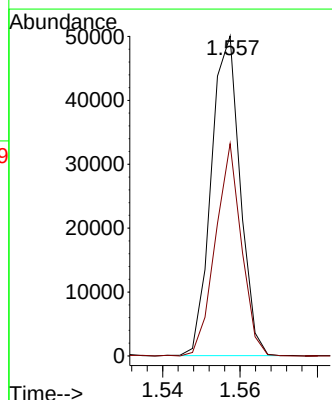
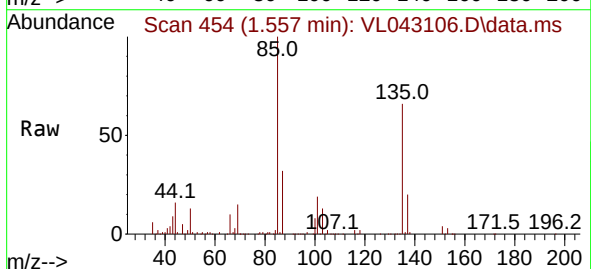
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

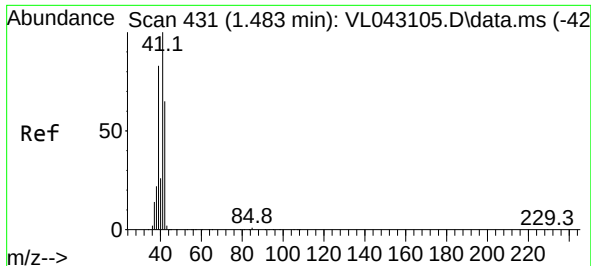
Tgt Ion: 64 Resp: 5008  
Ion Ratio Lower Upper  
64 100  
66 30.8 26.0 39.0



#8  
Dichlorotetrafluoroethane  
Concen: 2.140 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 85 Resp: 25897  
Ion Ratio Lower Upper  
85 100  
135 60.1 48.2 72.4

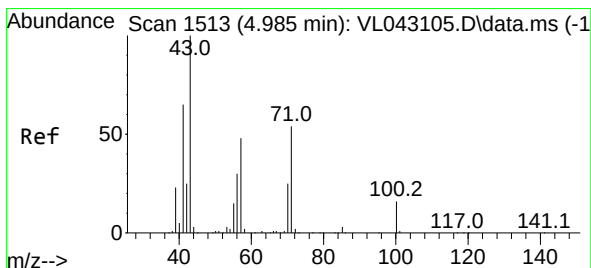
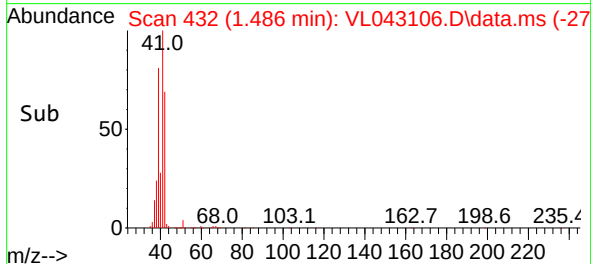
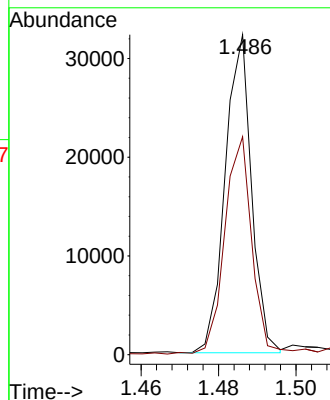
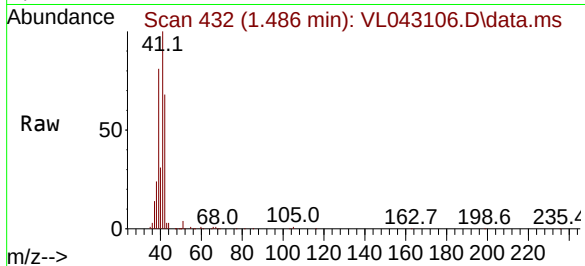




#9  
Propene  
Concen: 2.112 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

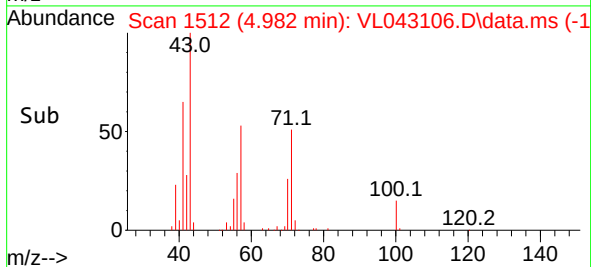
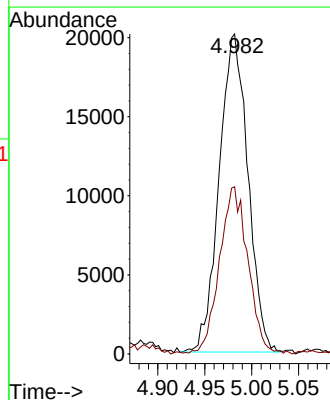
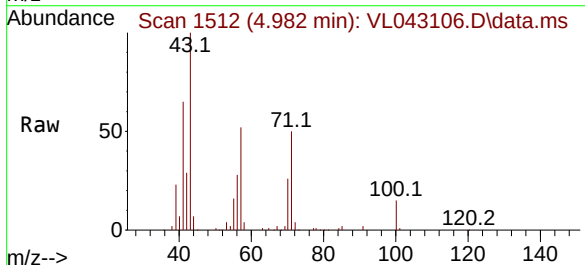
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

Tgt Ion: 41 Resp: 15177  
Ion Ratio Lower Upper  
41 100  
42 74.0 55.1 82.7

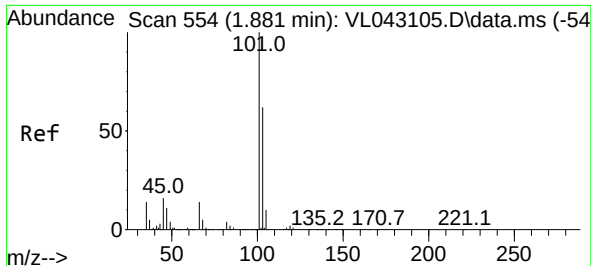


#10  
Heptane  
Concen: 2.078 ppbv  
RT: 4.982 min Scan# 1512  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 42790  
Ion Ratio Lower Upper  
43 100  
57 52.8 40.8 61.2



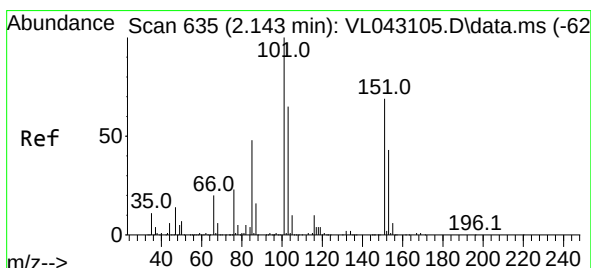
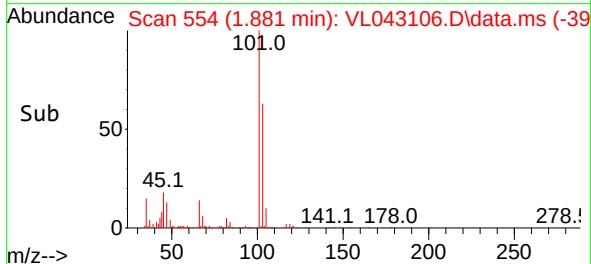
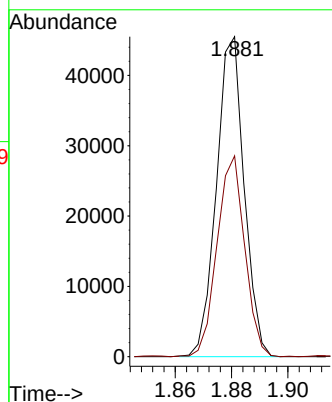
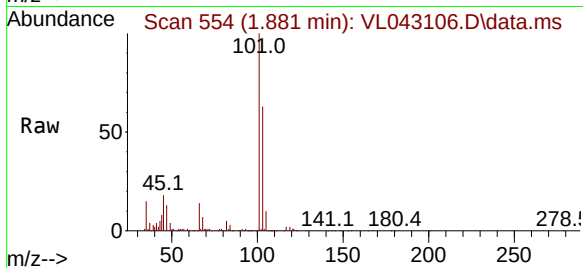




#11  
 Trichlorofluoromethane  
 Concen: 2.125 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

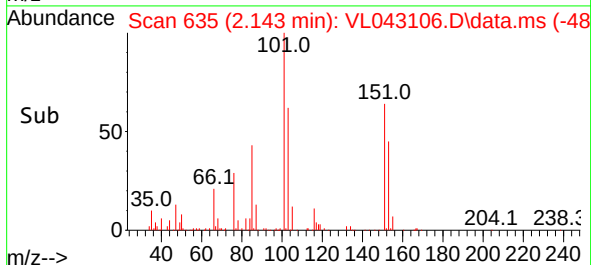
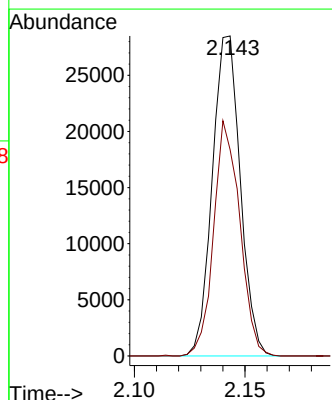
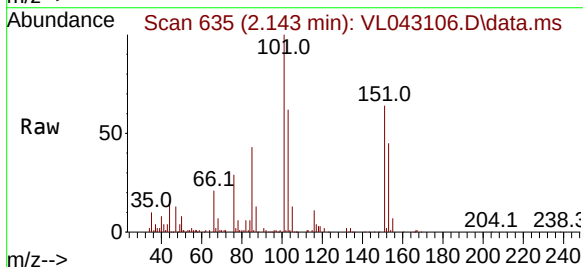
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

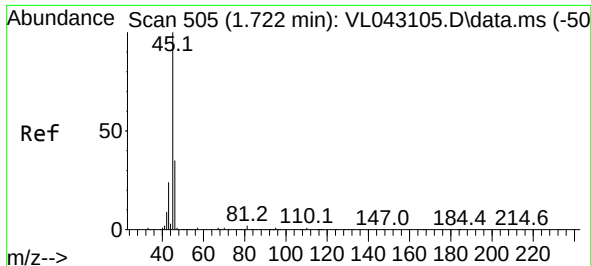
Tgt Ion:101 Resp: 31114  
 Ion Ratio Lower Upper  
 101 100  
 103 62.8 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 2.128 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Tgt Ion:101 Resp: 25091  
 Ion Ratio Lower Upper  
 101 100  
 151 68.5 54.7 82.1

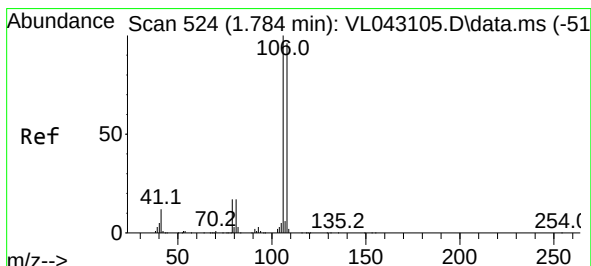
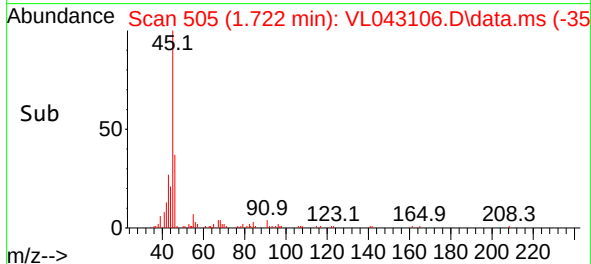
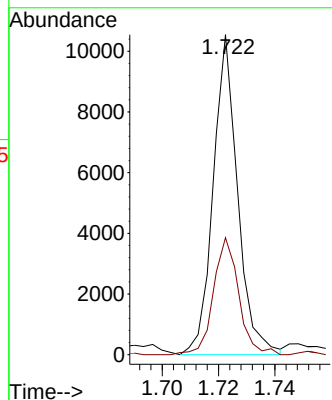
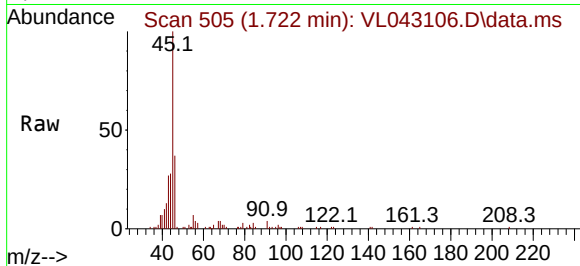




#13  
Ethanol  
Concen: 2.394 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

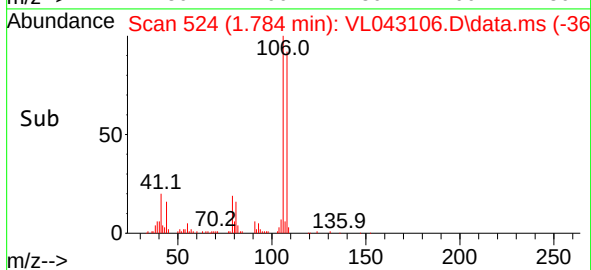
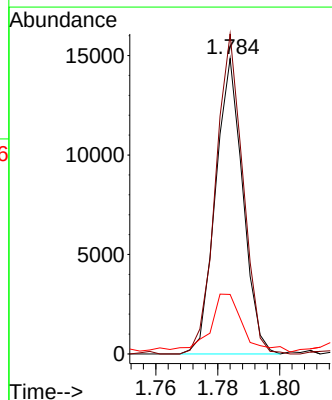
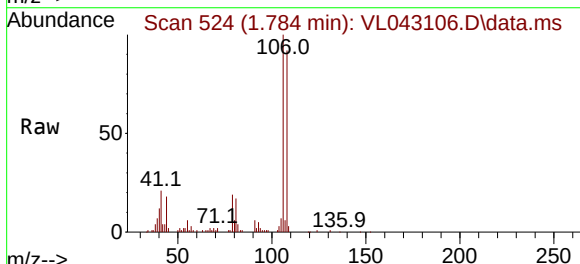
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

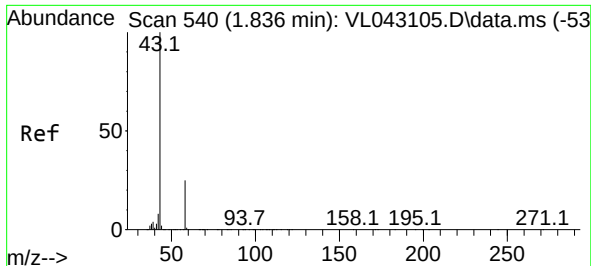
Tgt Ion: 45 Resp: 6363  
Ion Ratio Lower Upper  
45 100  
46 39.6 14.7 58.9



#14  
Bromoethene  
Concen: 2.075 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 108 Resp: 9087  
Ion Ratio Lower Upper  
108 100  
106 109.1 84.4 126.6  
79 19.1 15.3 22.9

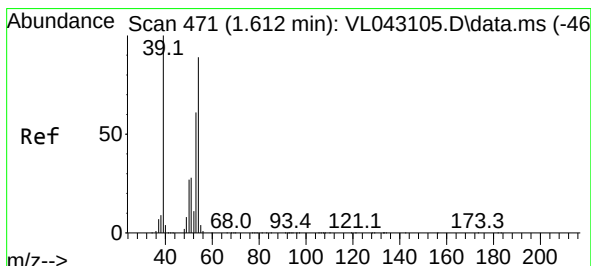
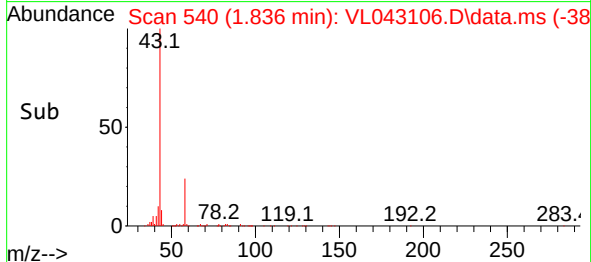
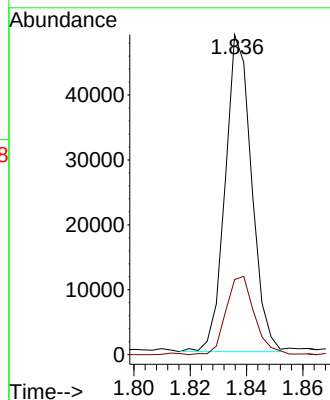
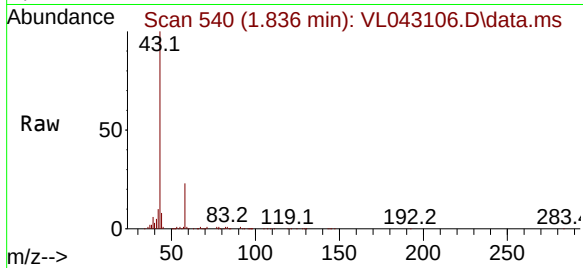




#15  
Acetone  
Concen: 2.225 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

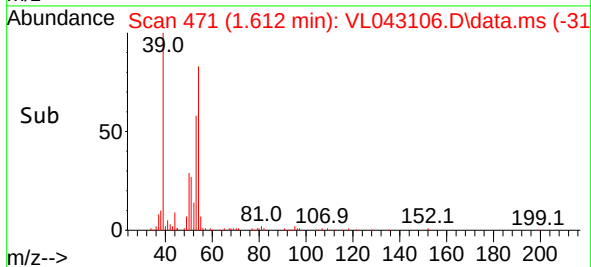
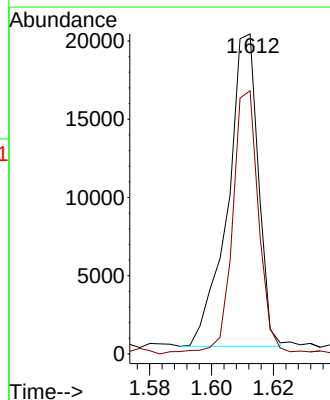
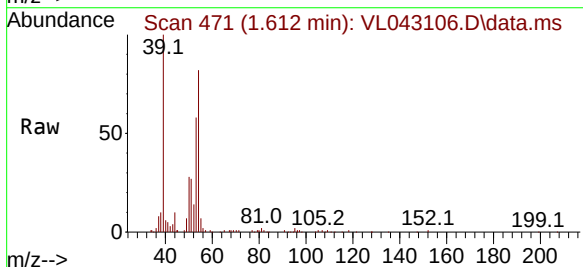
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

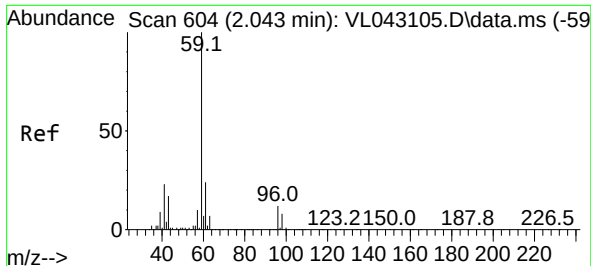
Tgt Ion: 43 Resp: 31756  
Ion Ratio Lower Upper  
43 100  
58 27.3 20.8 31.2



#16  
1,3-Butadiene  
Concen: 2.021 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 39 Resp: 13668  
Ion Ratio Lower Upper  
39 100  
54 74.3 59.0 88.4





#17

tert-Butyl alcohol

Concen: 2.091 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_1

ClientSampleId :

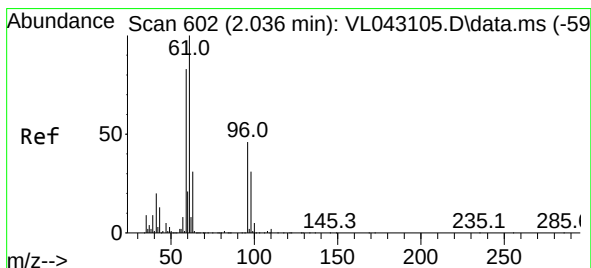
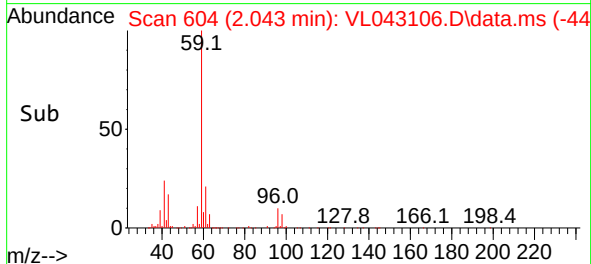
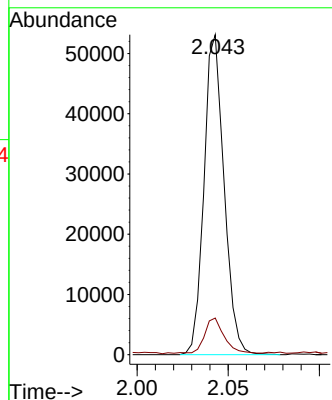
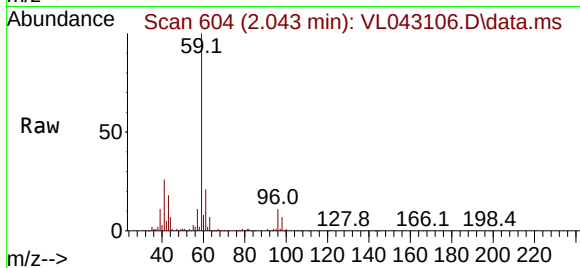
VSTDICC002

Tgt Ion: 59 Resp: 40738

Ion Ratio Lower Upper

59 100

57 11.9 8.2 12.4



#18

1,1-Dichloroethene

Concen: 2.100 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

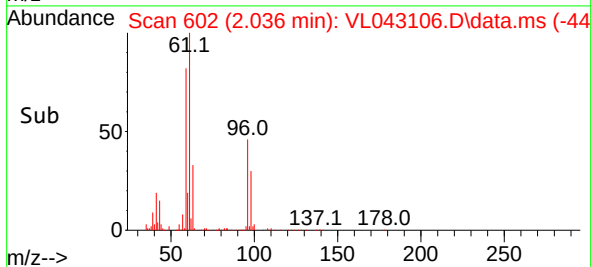
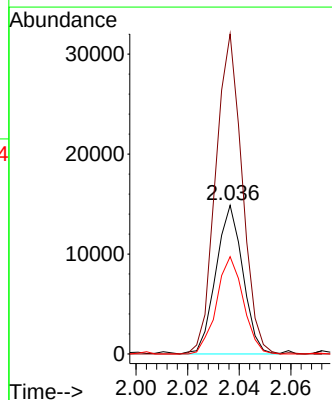
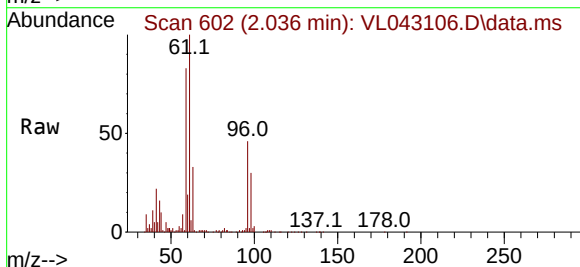
Tgt Ion: 96 Resp: 10794

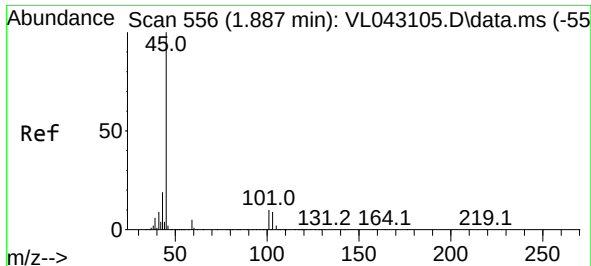
Ion Ratio Lower Upper

96 100

61 215.2 173.4 260.0

98 65.4 53.2 79.8

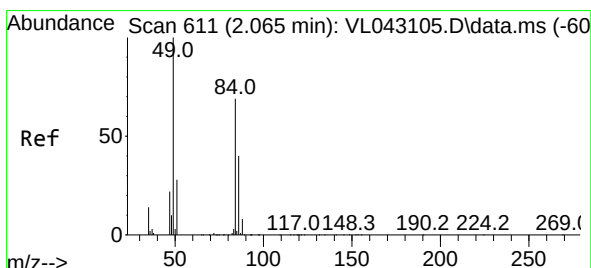
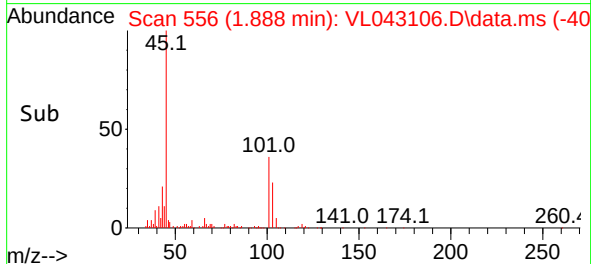
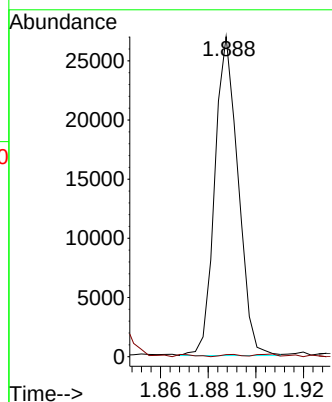
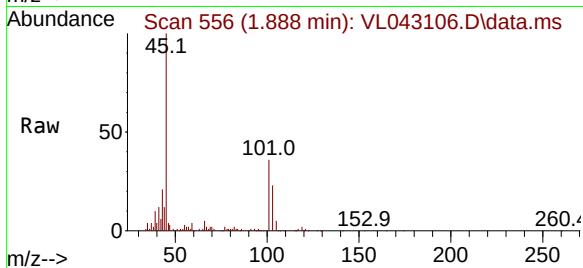




#19  
Isopropyl Alcohol  
Concen: 2.073 ppbv  
RT: 1.888 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

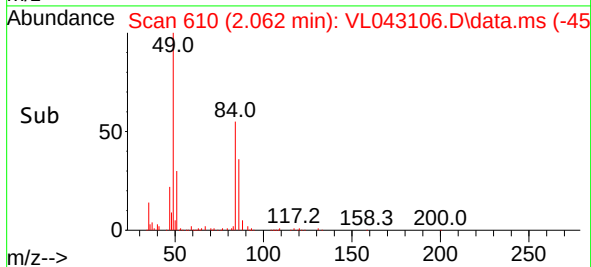
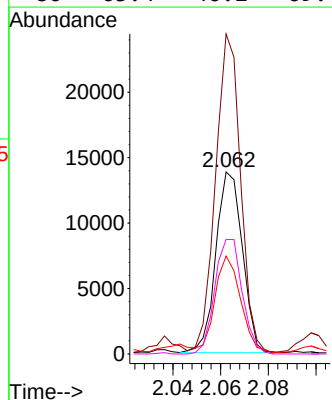
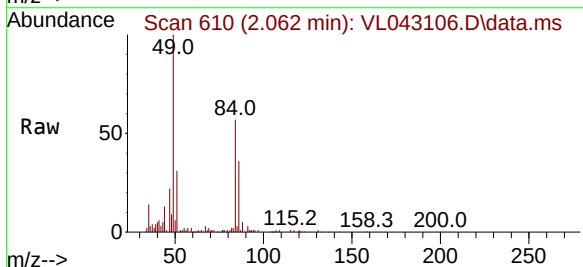
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

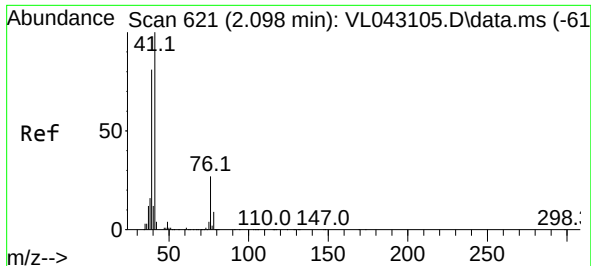
Tgt Ion: 45 Resp: 18326  
Ion Ratio Lower Upper  
45 100  
58 2.3 31.3 46.9#



#20  
Methylene Chloride  
Concen: 1.906 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 84 Resp: 10694  
Ion Ratio Lower Upper  
84 100  
49 175.6 116.6 175.0#  
51 53.2 34.8 52.2#  
86 63.4 46.2 69.4

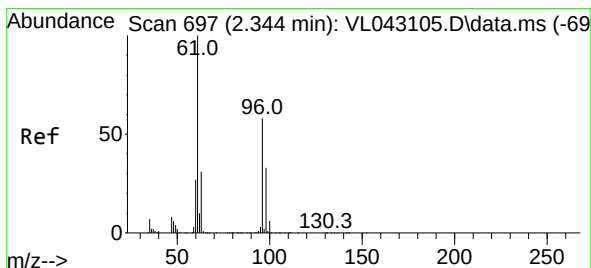
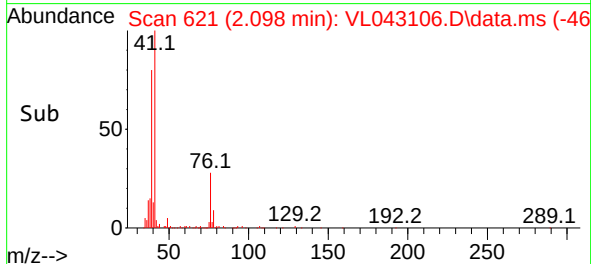
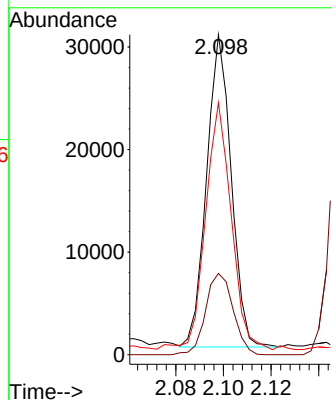
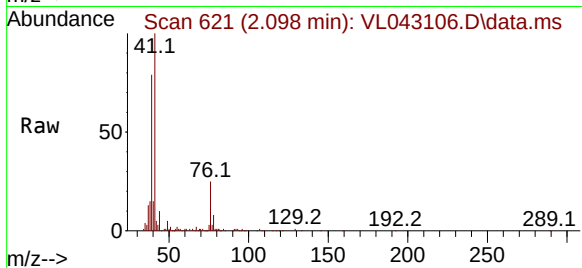




#21  
 Allyl Chloride  
 Concen: 2.090 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

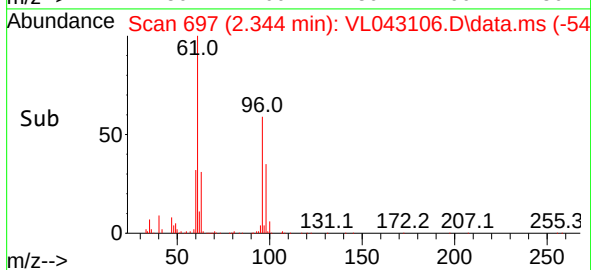
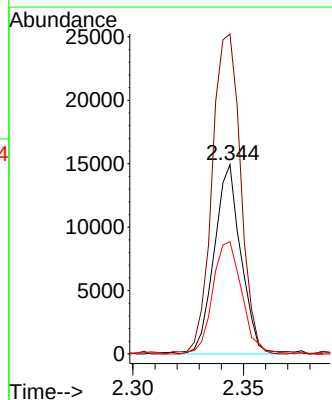
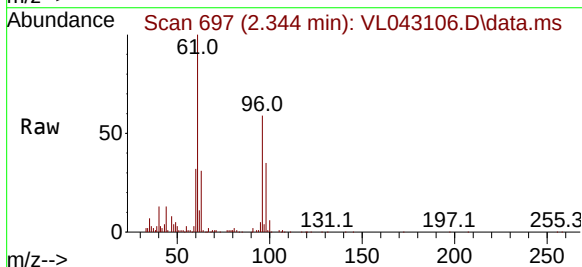
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

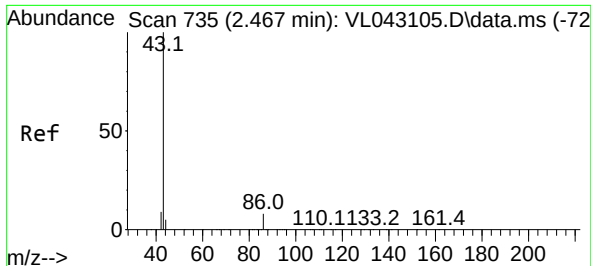
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 21902 |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 76 28.9     | 21.5 32.3   |
| 39 83.1     | 60.8 91.2   |



#22  
 trans-1,2-Dichloroethene  
 Concen: 2.036 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 12511 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 169.0    | 137.0 205.6 |
| 98 59.3     | 45.5 68.3   |

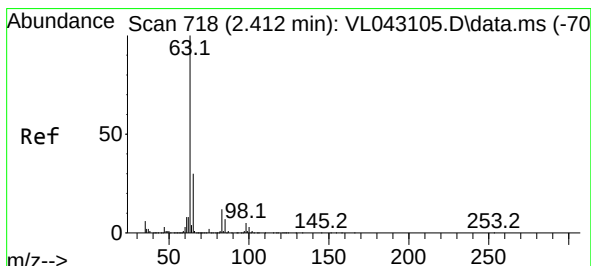
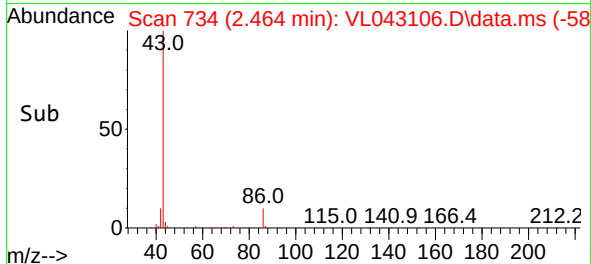
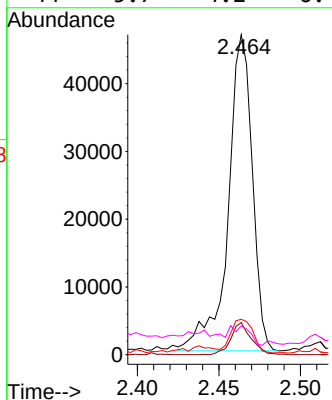
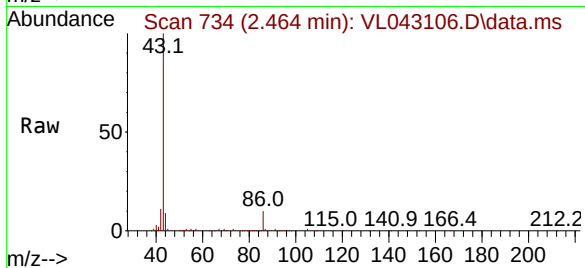




#23  
 Vinyl Acetate  
 Concen: 2.322 ppbv  
 RT: 2.464 min Scan# 718  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

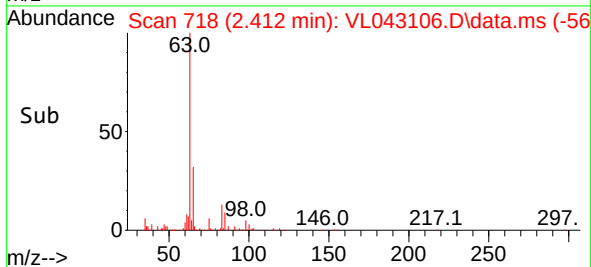
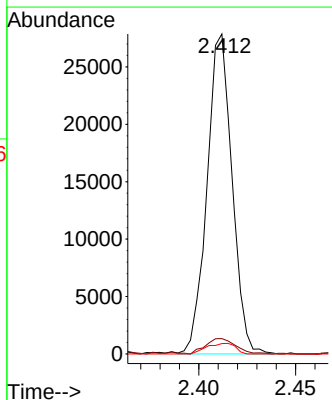
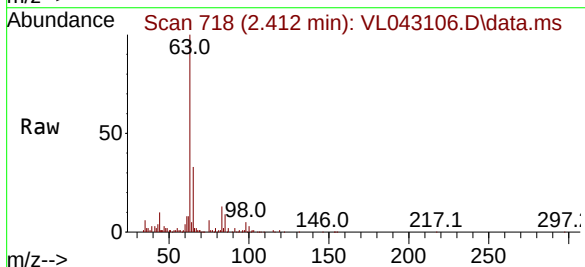
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

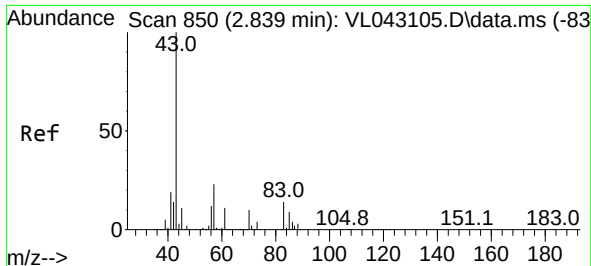
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 48282 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.1  | 6.2   | 9.2#  |
| 42       | 10.6  | 7.6   | 11.4  |
| 44       | 5.7   | 4.2   | 6.4   |



#24  
 1,1-Dichloroethane  
 Concen: 2.112 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 25066 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.9   | 2.6   | 7.8   |
| 100      | 3.2   | 1.5   | 4.4   |

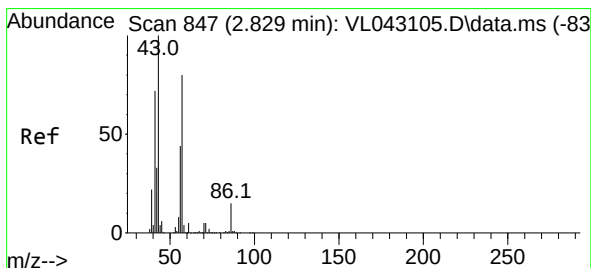
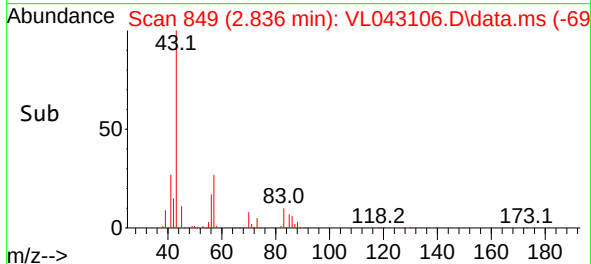
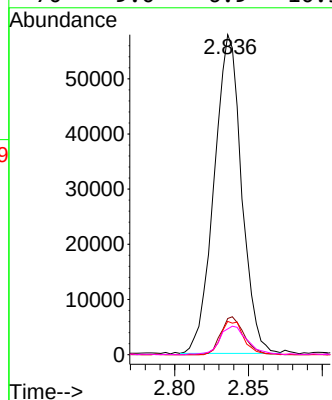
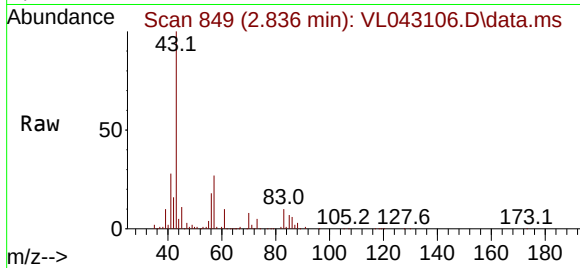




#25  
Ethyl Acetate  
Concen: 2.129 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

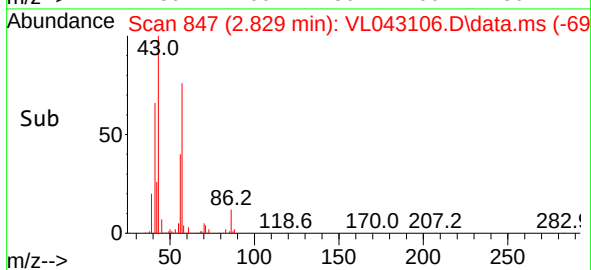
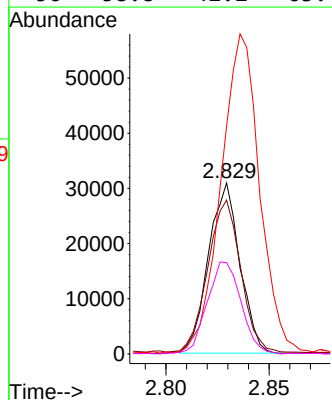
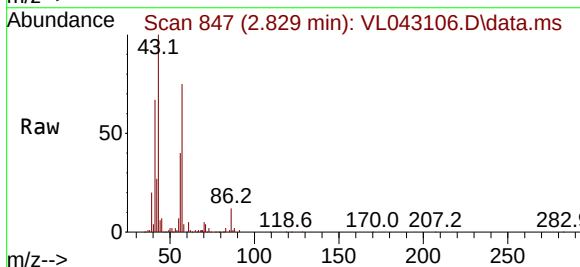
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 74929 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 10.1  | 7.8   | 11.8  |
| 61       | 8.9   | 7.0   | 10.6  |
| 70       | 9.0   | 6.9   | 10.3  |

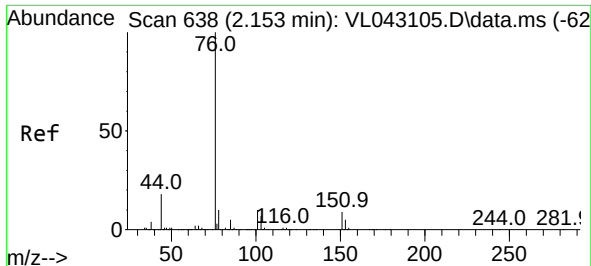


#26  
Hexane  
Concen: 2.010 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 32595 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 96.4  | 71.4  | 107.0 |
| 43       | 233.0 | 178.5 | 267.7 |
| 56       | 58.8  | 42.2  | 63.4  |



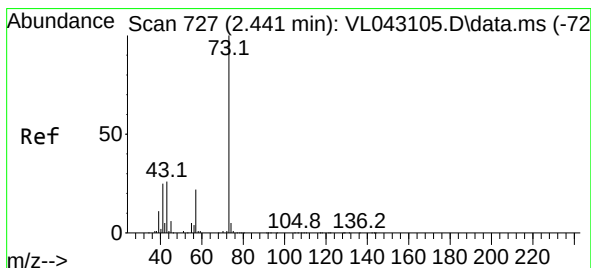
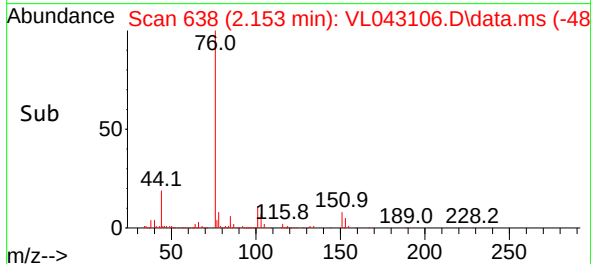
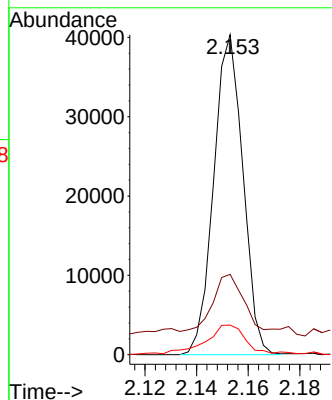
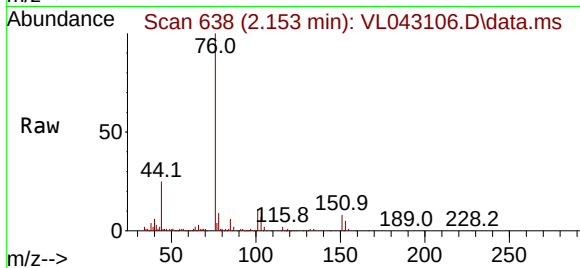




#27  
Carbon Disulfide  
Concen: 2.134 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

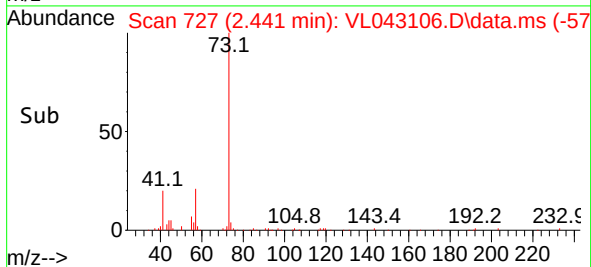
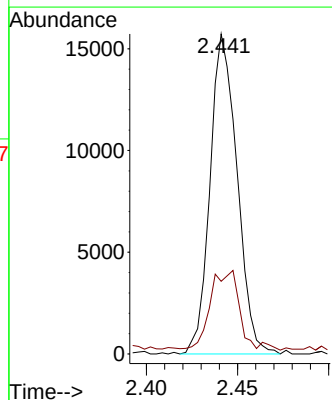
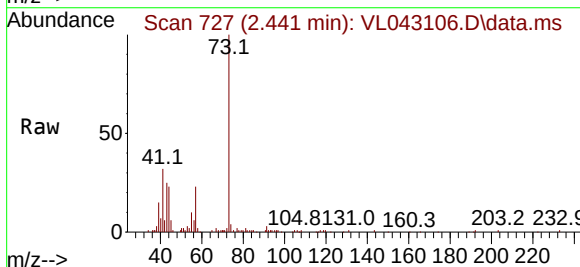
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

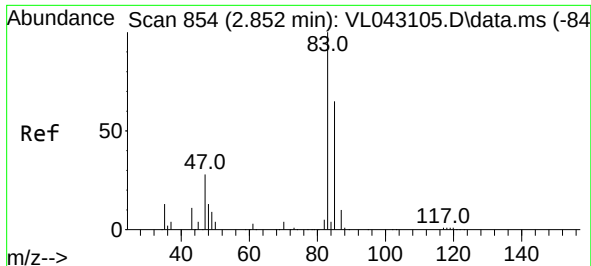
|             |             |
|-------------|-------------|
| Tgt Ion: 76 | Resp: 31705 |
| Ion Ratio   | Lower Upper |
| 76 100      |             |
| 44 23.1     | 16.7 25.1   |
| 78 13.6     | 9.3 13.9    |



#28  
Methyl tert-Butyl Ether  
Concen: 2.196 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

|             |             |
|-------------|-------------|
| Tgt Ion: 73 | Resp: 16207 |
| Ion Ratio   | Lower Upper |
| 73 100      |             |
| 57 26.6     | 20.5 30.7   |





#29

Chloroform

Concen: 2.058 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

ClientSampleId :

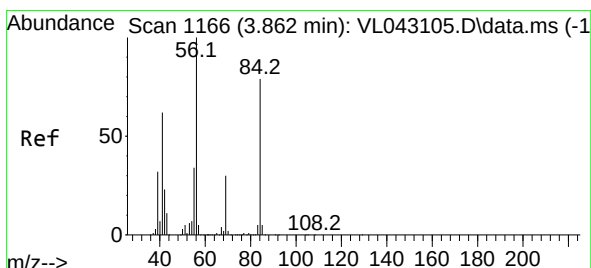
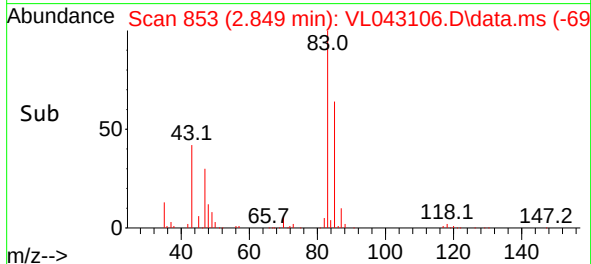
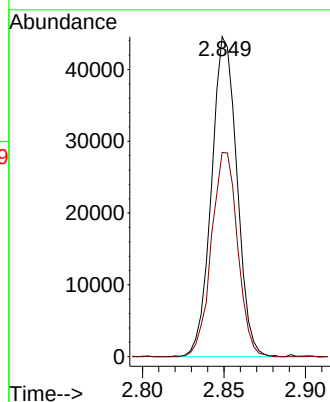
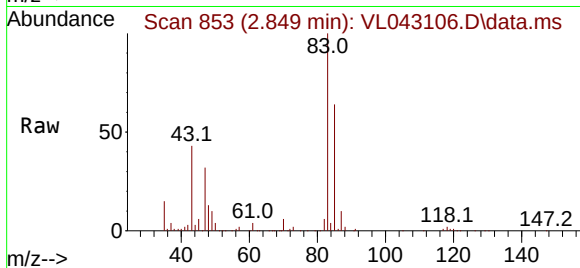
VSTDIC002

Tgt Ion: 83 Resp: 48367

Ion Ratio Lower Upper

83 100

85 63.9 51.8 77.6



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

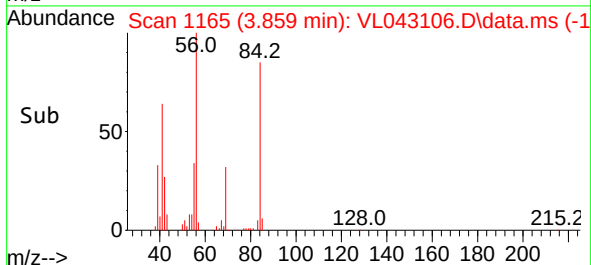
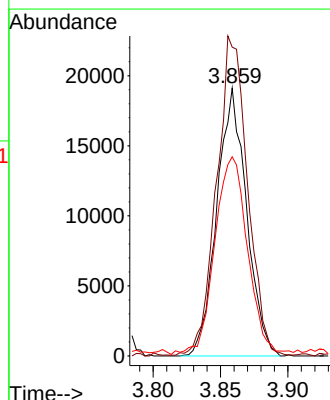
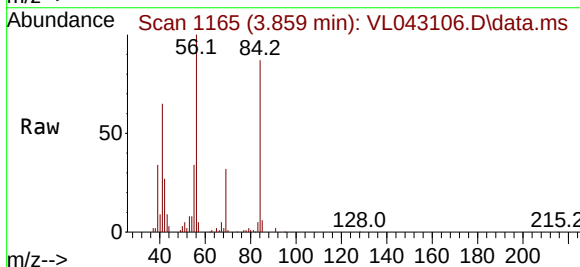
Tgt Ion: 84 Resp: 29270

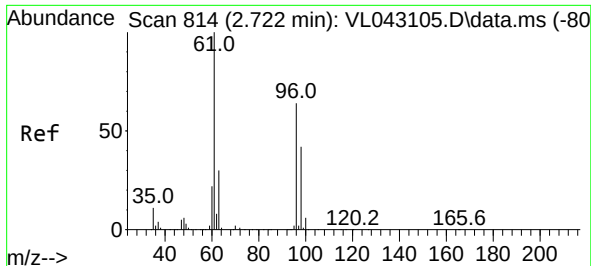
Ion Ratio Lower Upper

84 100

56 125.6 100.9 151.3

41 79.0 63.8 95.6

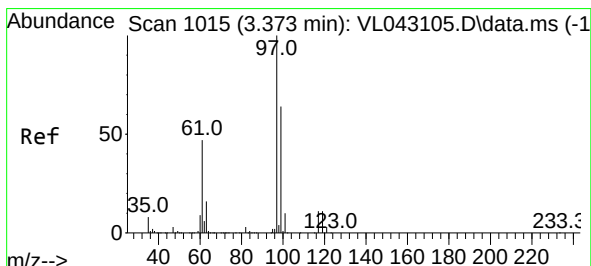
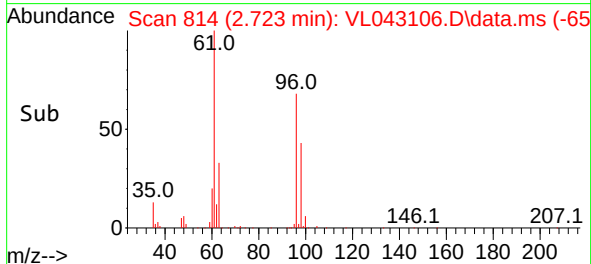
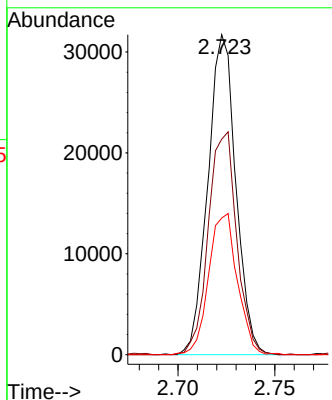
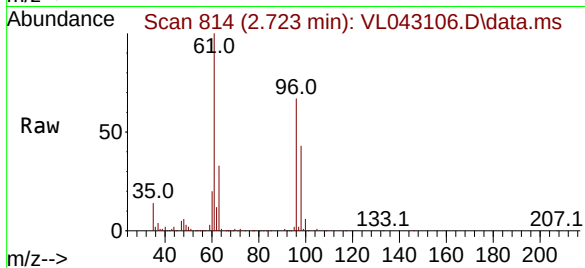




#31  
cis-1,2-Dichloroethene  
Concen: 2.061 ppbv  
RT: 2.723 min Scan# 814  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

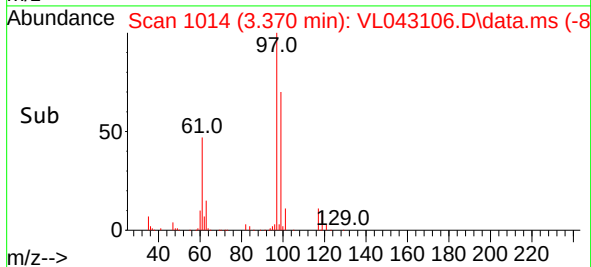
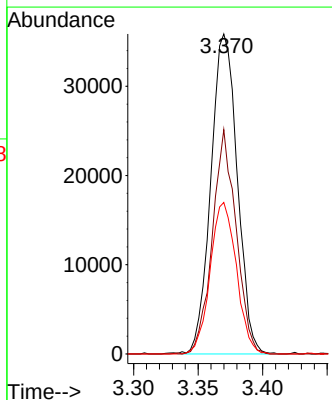
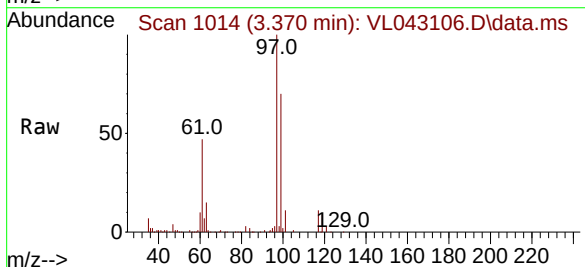
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

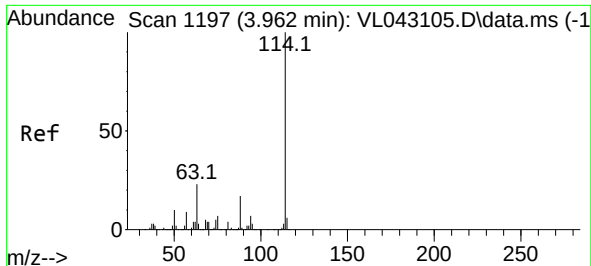
Tgt Ion: 61 Resp: 31925  
Ion Ratio Lower Upper  
61 100  
96 67.3 51.0 76.6  
98 42.3 33.5 50.3



#32  
1,1,1-Trichloroethane  
Concen: 2.086 ppbv  
RT: 3.370 min Scan# 1014  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 97 Resp: 51049  
Ion Ratio Lower Upper  
97 100  
99 62.8 51.3 76.9  
61 46.9 38.4 57.6

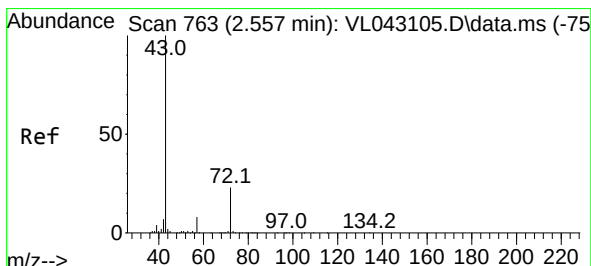
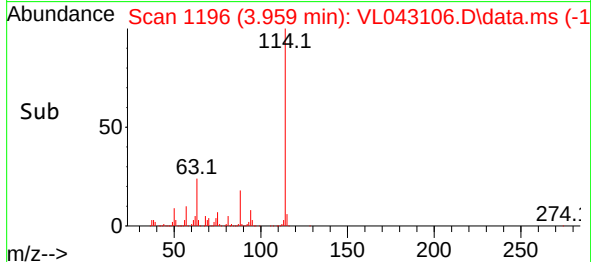
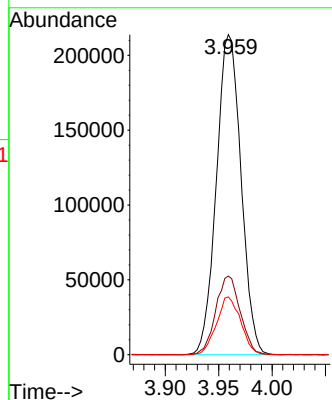
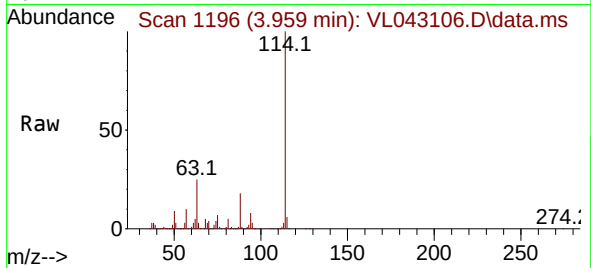




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

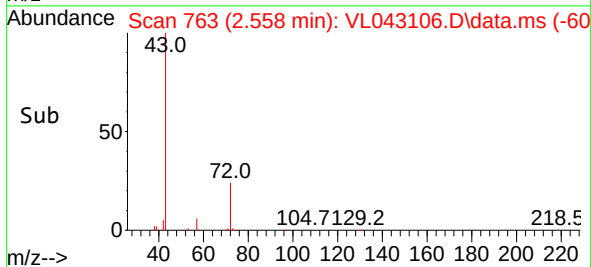
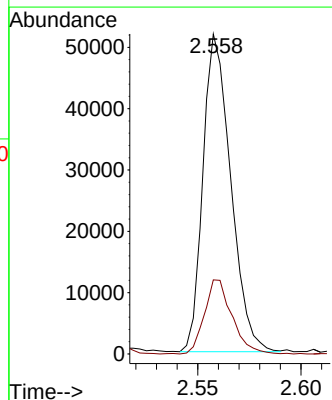
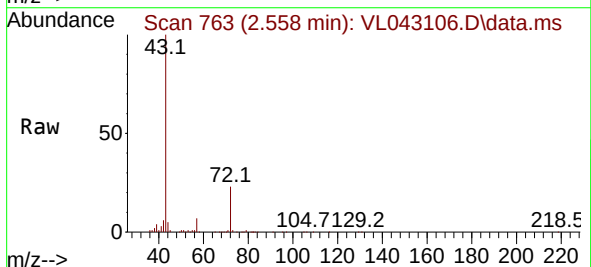
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

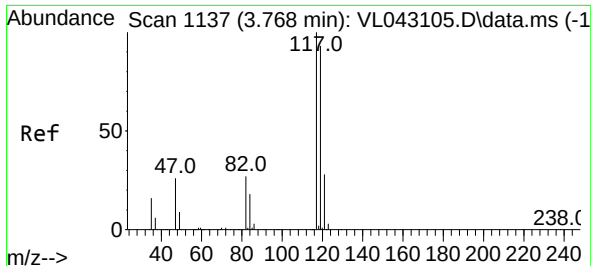
Tgt Ion:114 Resp: 342939  
Ion Ratio Lower Upper  
114 100  
63 24.5 19.3 28.9  
88 17.8 13.9 20.9



#34  
2-Butanone  
Concen: 2.090 ppbv  
RT: 2.558 min Scan# 763  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 48458  
Ion Ratio Lower Upper  
43 100  
72 23.3 18.4 27.6

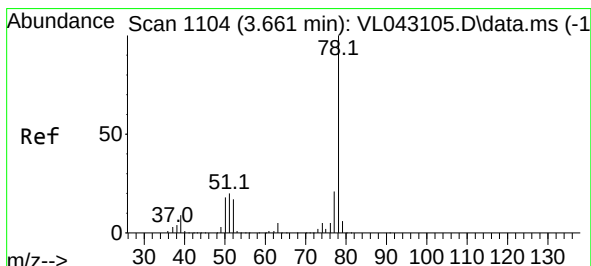
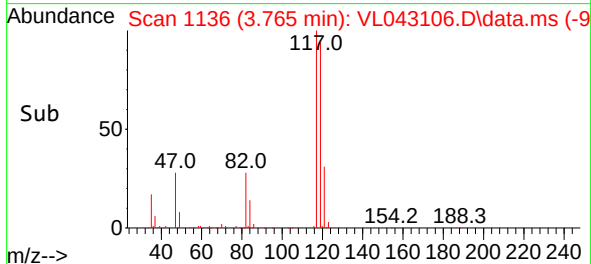
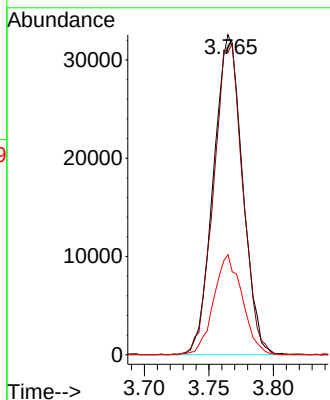
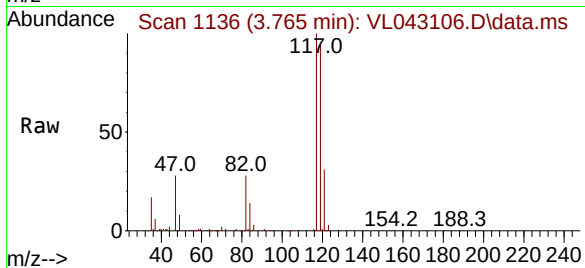




#35  
Carbon Tetrachloride  
Concen: 2.071 ppbv  
RT: 3.765 min Scan# 1137  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

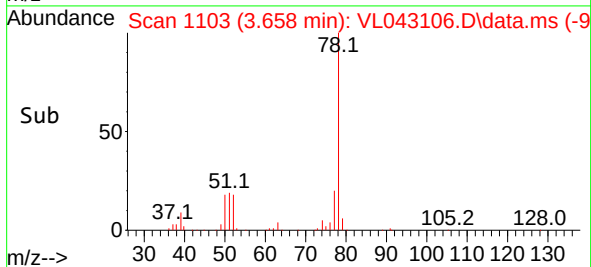
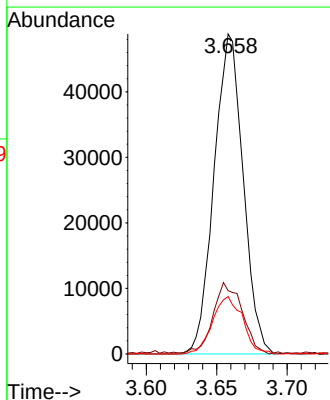
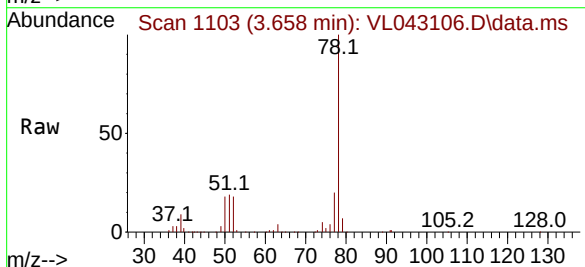
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

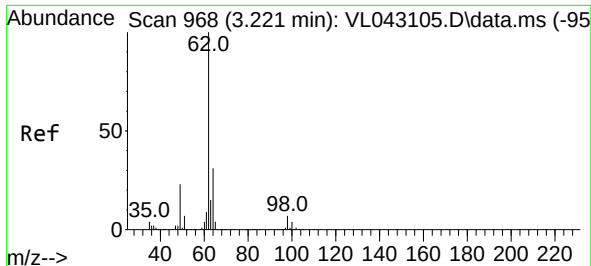
Tgt Ion:117 Resp: 51073  
Ion Ratio Lower Upper  
117 100  
119 94.2 74.1 111.1  
121 31.3 22.2 33.2



#36  
Benzene  
Concen: 2.172 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 78 Resp: 70156  
Ion Ratio Lower Upper  
78 100  
77 19.5 17.0 25.6  
50 18.0 14.6 22.0

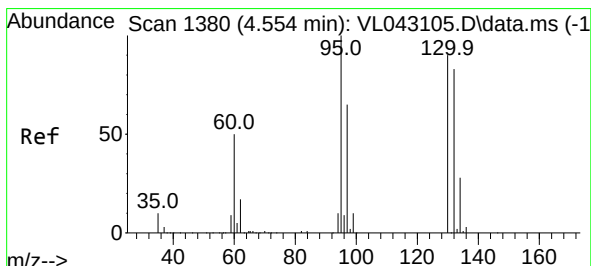
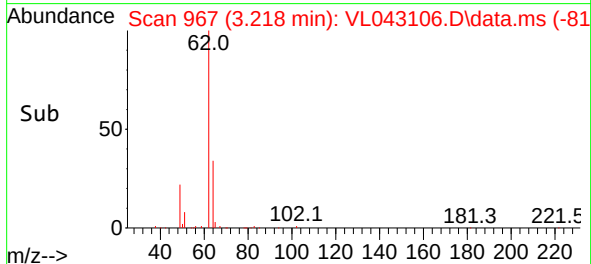
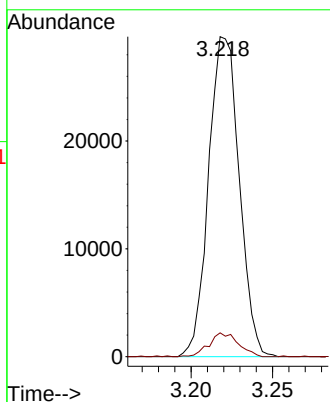
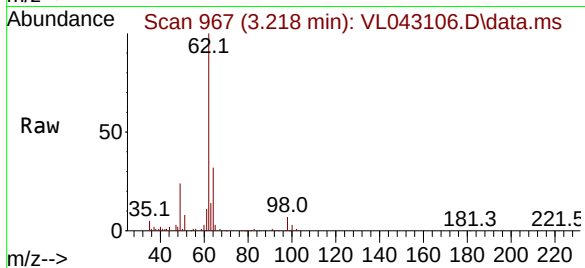




#37  
1,2-Dichloroethane  
Concen: 2.083 ppbv  
RT: 3.218 min Scan# 90  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

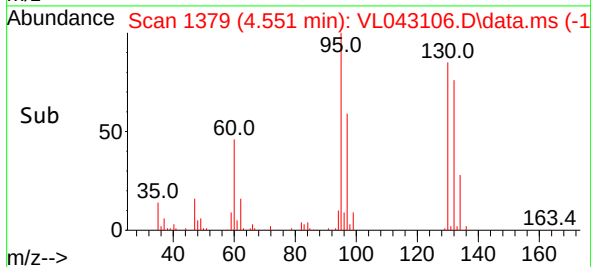
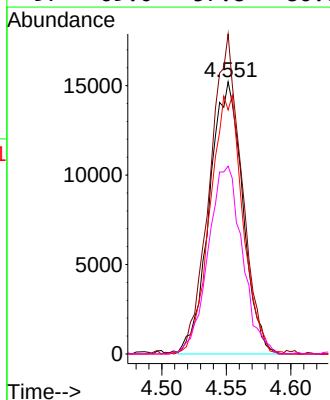
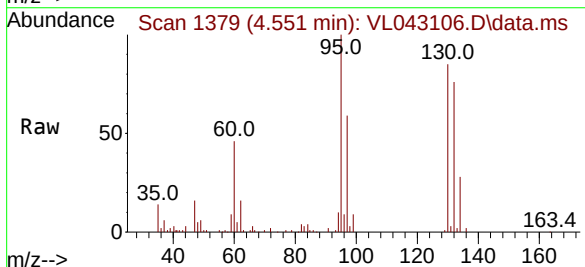
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

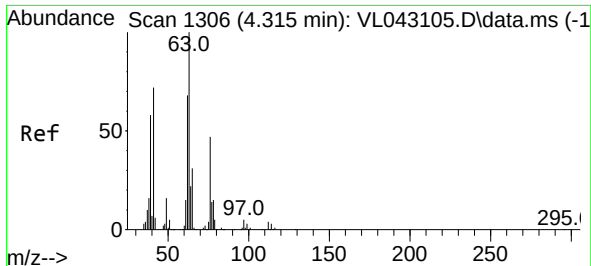
Tgt Ion: 62 Resp: 38767  
Ion Ratio Lower Upper  
62 100  
98 7.3 5.8 8.6



#38  
Trichloroethene  
Concen: 2.024 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:130 Resp: 27272  
Ion Ratio Lower Upper  
130 100  
95 117.1 88.6 133.0  
132 89.0 73.4 110.0  
97 69.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 2.151 ppbv

RT: 4.315 min Scan# 1306

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

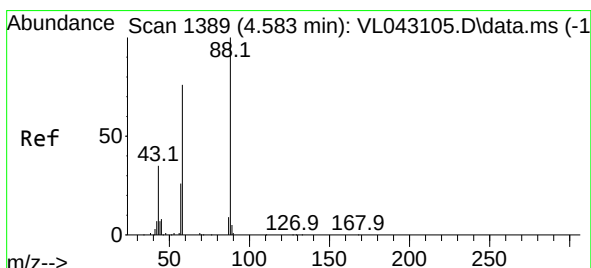
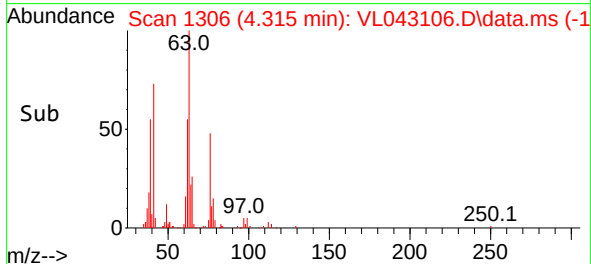
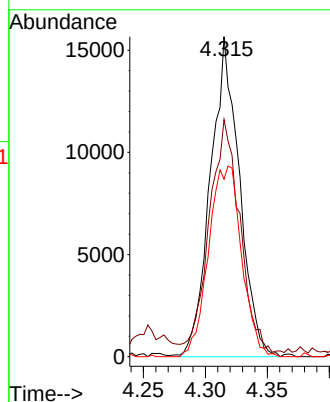
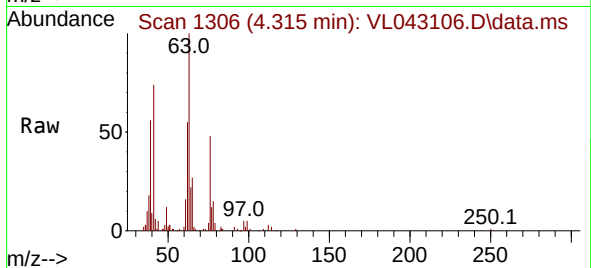
Tgt Ion: 63 Resp: 25427

Ion Ratio Lower Upper

63 100

41 72.3 58.0 87.0

62 55.5 54.7 82.1



#40

1,4-Dioxane

Concen: 0.938 ppbv

RT: 4.584 min Scan# 1389

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Tgt Ion: 88 Resp: 4954

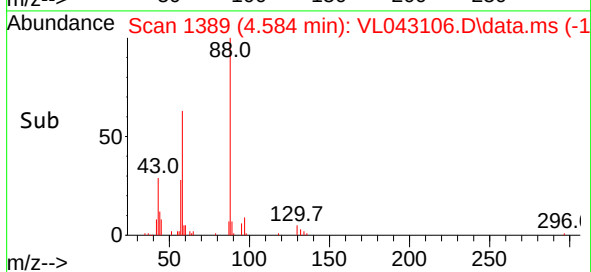
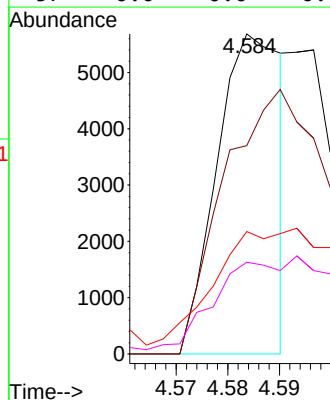
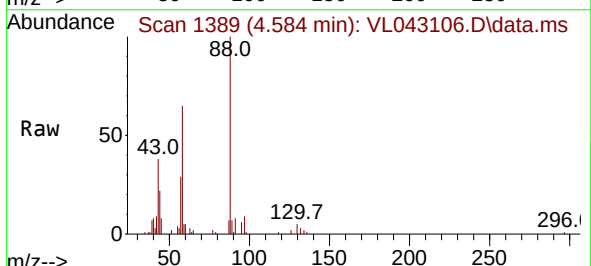
Ion Ratio Lower Upper

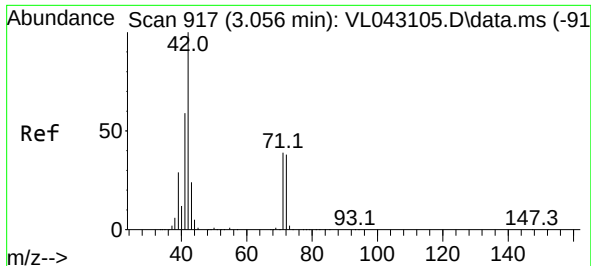
88 100

58 0.0 61.1 91.7#

43 0.0 24.0 36.0#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 2.037 ppbv

RT: 3.059 min Scan# 917

Delta R.T. 0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

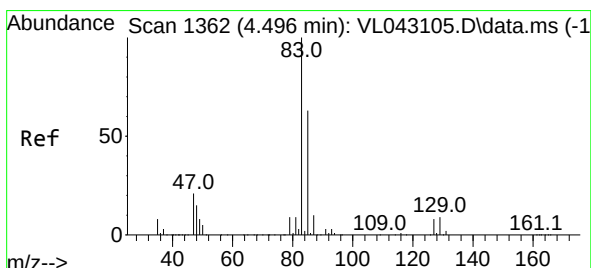
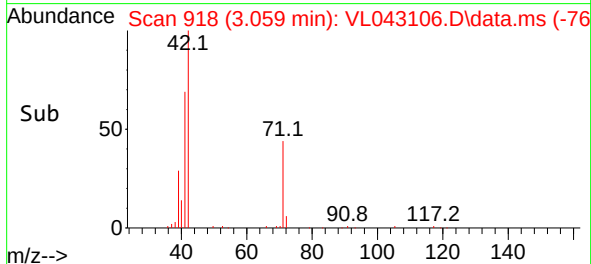
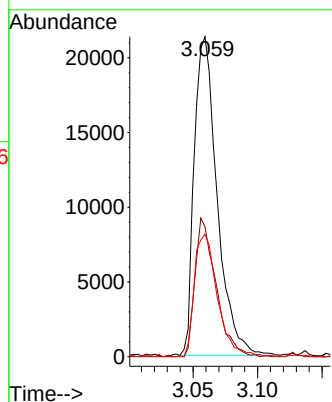
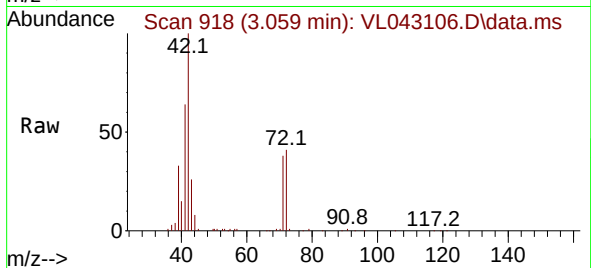
Tgt Ion: 42 Resp: 26362

Ion Ratio Lower Upper

42 100

72 39.7 31.3 46.9

71 39.4 30.4 45.6



#42

Bromodichloromethane

Concen: 2.106 ppbv

RT: 4.496 min Scan# 1362

Delta R.T. 0.000 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

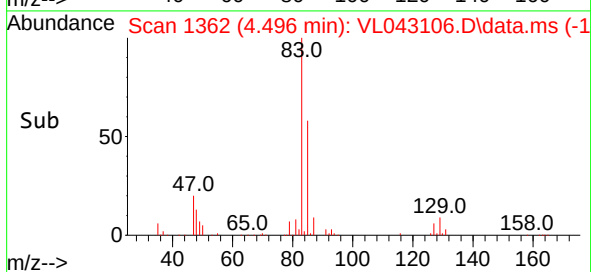
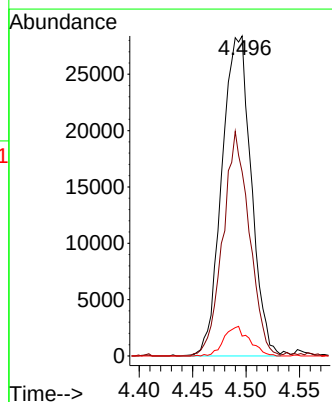
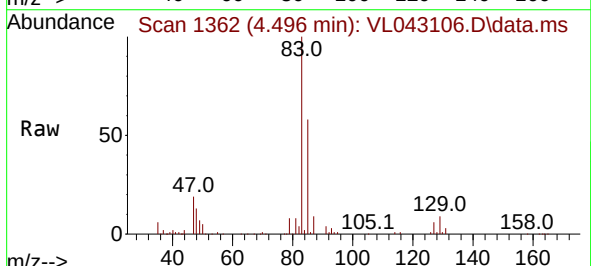
Tgt Ion: 83 Resp: 54224

Ion Ratio Lower Upper

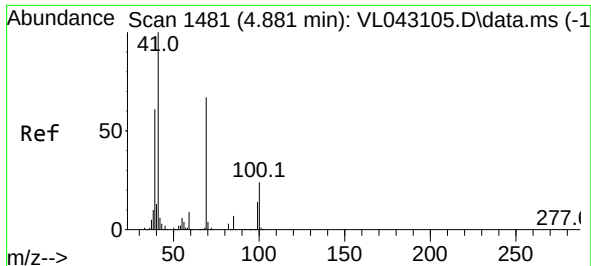
83 100

85 57.6 50.6 75.8

127 6.2 6.3 9.5



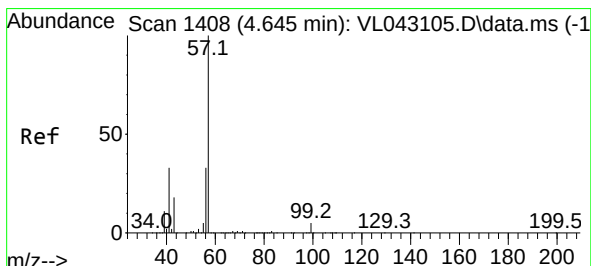
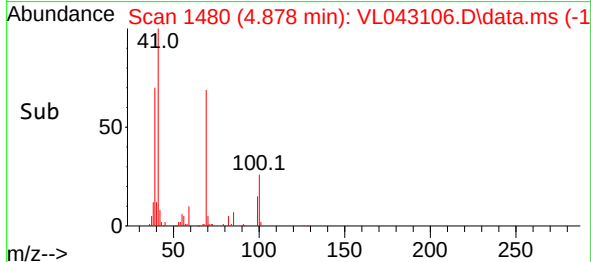
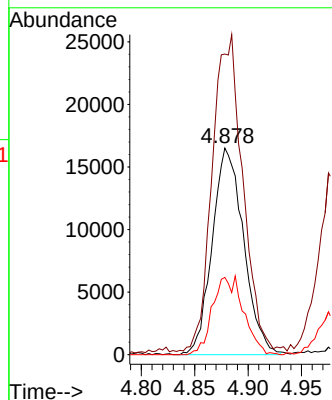
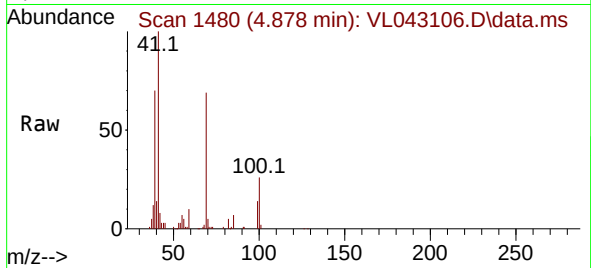




#43  
Methyl Methacrylate  
Concen: 2.051 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

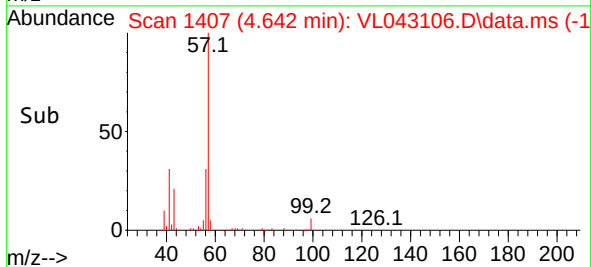
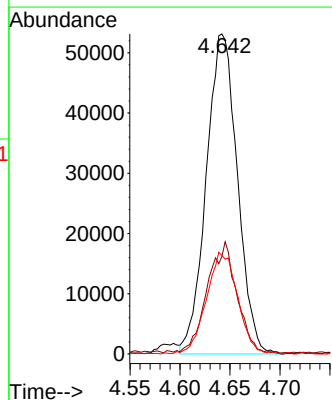
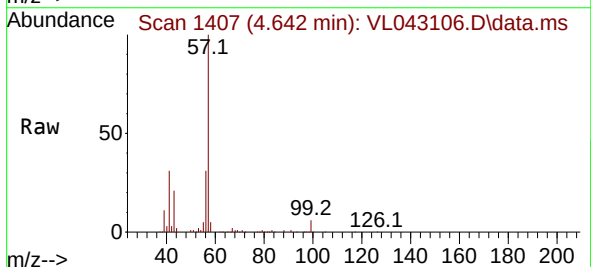
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC002

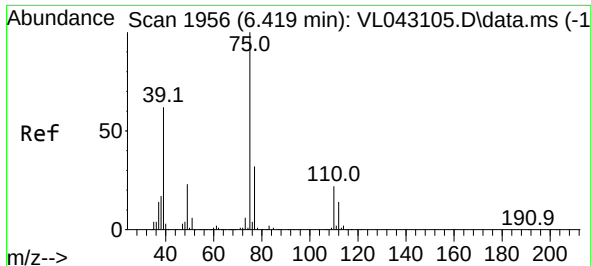
Tgt Ion: 69 Resp: 33805  
Ion Ratio Lower Upper  
69 100  
41 151.4 120.5 180.7  
100 37.3 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 2.137 ppbv  
RT: 4.642 min Scan# 1407  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 57 Resp: 115417  
Ion Ratio Lower Upper  
57 100  
41 34.0 26.3 39.5  
56 31.9 25.9 38.9

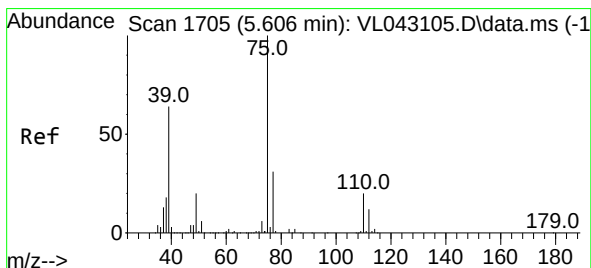
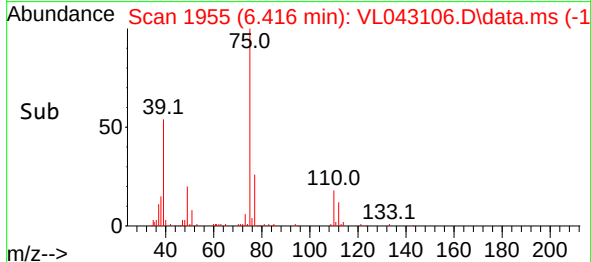
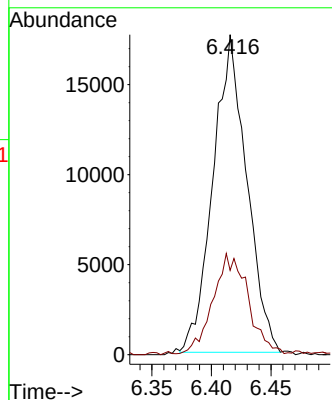
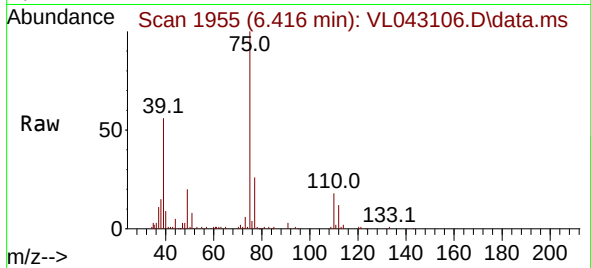




#45  
 t-1,3-Dichloropropene  
 Concen: 2.109 ppbv  
 RT: 6.416 min Scan# 1956  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

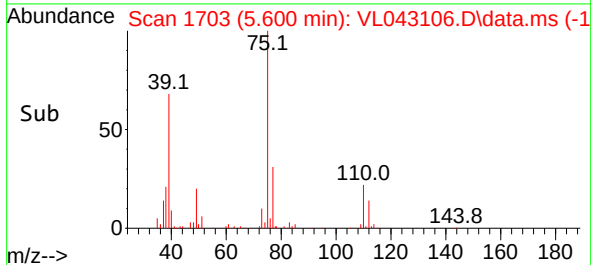
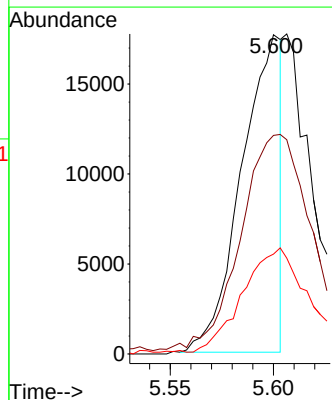
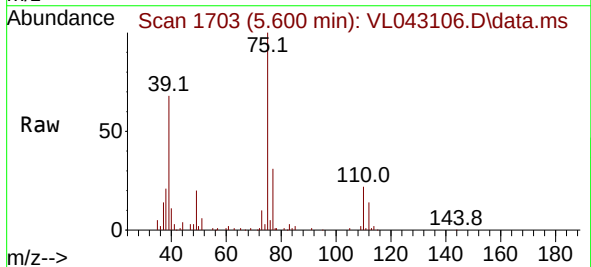
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

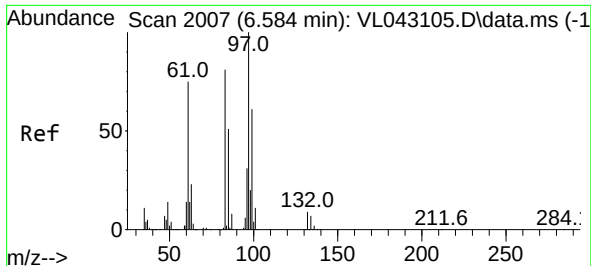
Tgt Ion: 75 Resp: 34728  
 Ion Ratio Lower Upper  
 75 100  
 77 26.3 25.4 38.2



#46  
 cis-1,3-Dichloropropene  
 Concen: 1.202 ppbv  
 RT: 5.600 min Scan# 1703  
 Delta R.T. -0.006 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Tgt Ion: 75 Resp: 23612  
 Ion Ratio Lower Upper  
 75 100  
 39 65.4 51.0 76.6  
 77 30.3 25.0 37.4

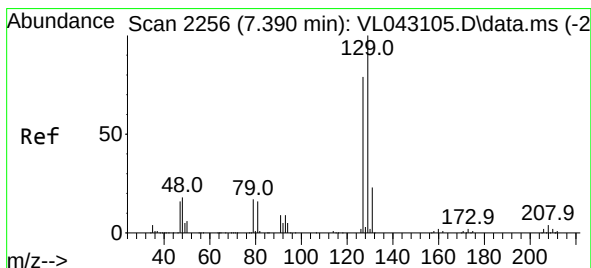
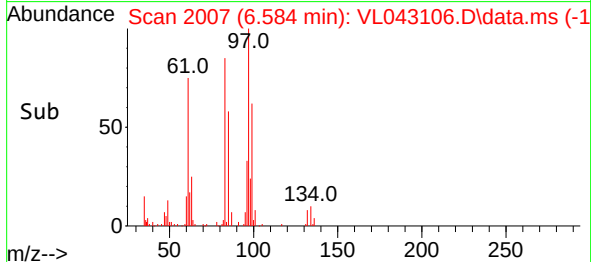
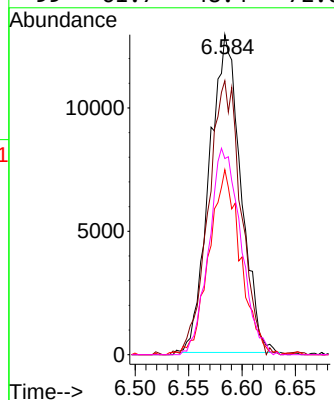
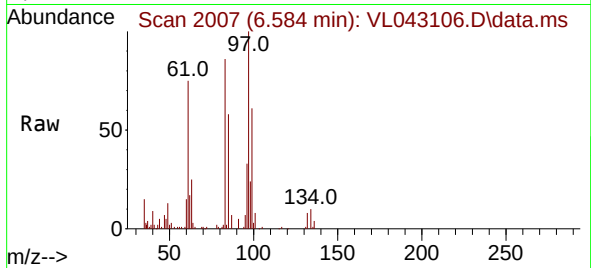




#47  
1,1,2-Trichloroethane  
Concen: 2.067 ppbv  
RT: 6.584 min Scan# 2007  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

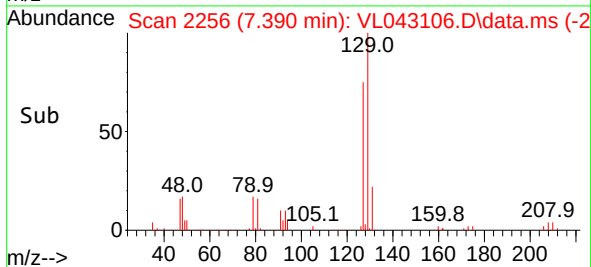
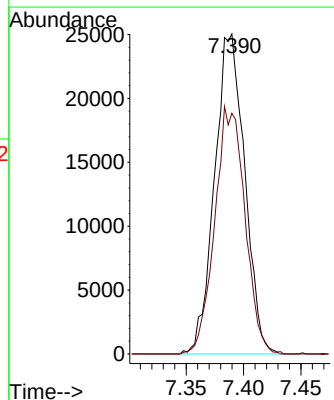
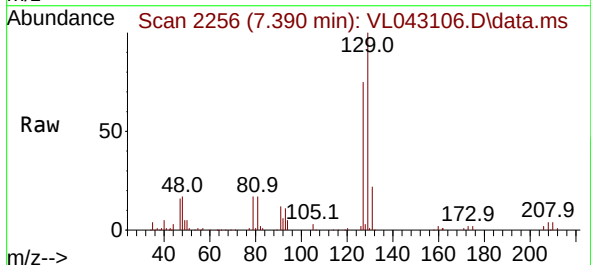
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

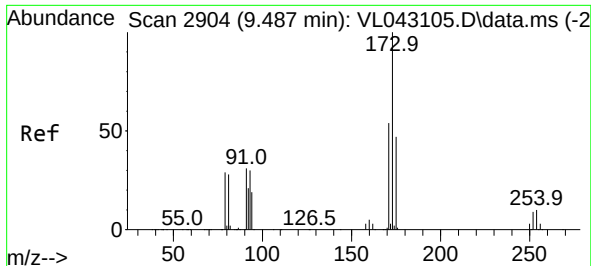
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 26359 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 86.2     | 64.6 96.8   |
| 85 58.2     | 40.6 60.8   |
| 99 61.7     | 48.4 72.6   |



#48  
Dibromochloromethane  
Concen: 2.146 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

|              |             |
|--------------|-------------|
| Tgt Ion: 129 | Resp: 45751 |
| Ion Ratio    | Lower Upper |
| 129 100      |             |
| 127 77.3     | 39.3 117.9  |

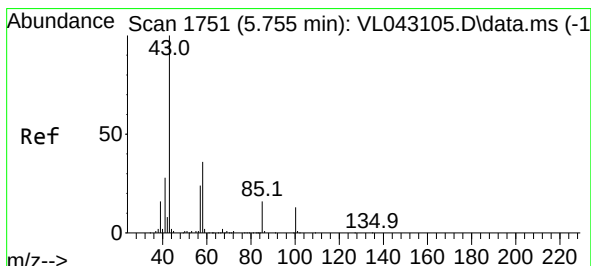
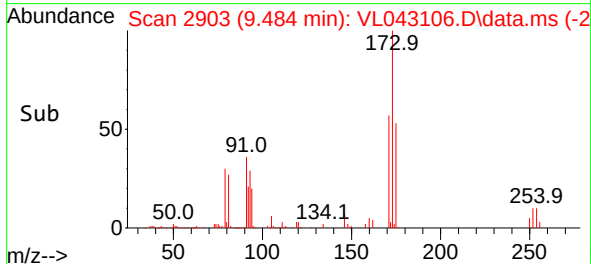
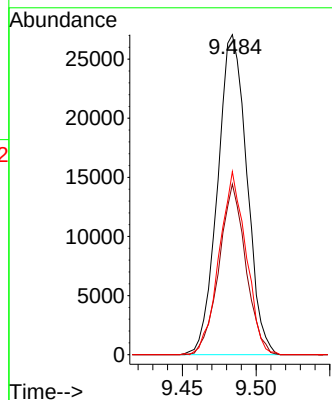
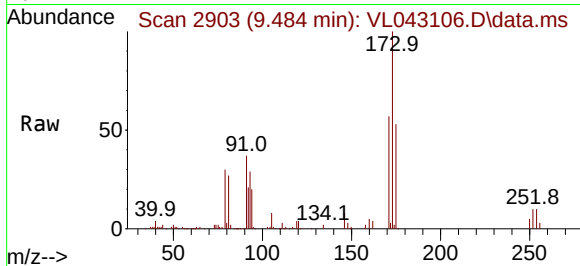




#49  
Bromoform  
Concen: 2.153 ppbv  
RT: 9.484 min Scan# 2904  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

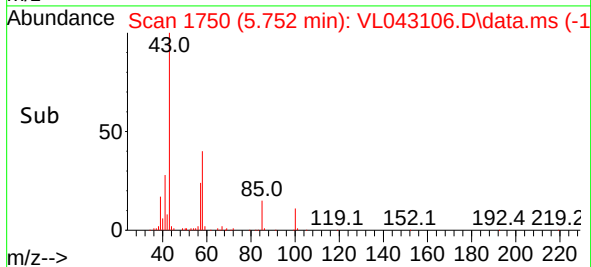
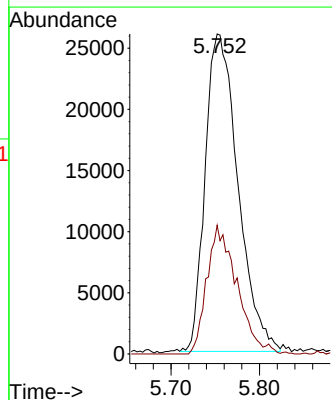
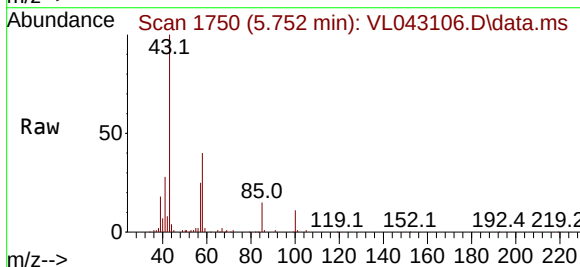
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

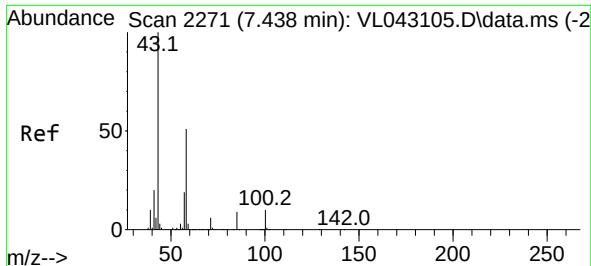
Tgt Ion:173 Resp: 37314  
Ion Ratio Lower Upper  
173 100  
175 48.7 38.8 58.2  
171 52.7 41.7 62.5



#50  
4-Methyl-2-Pentanone  
Concen: 2.089 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 43 Resp: 66811  
Ion Ratio Lower Upper  
43 100  
58 37.2 29.1 43.7

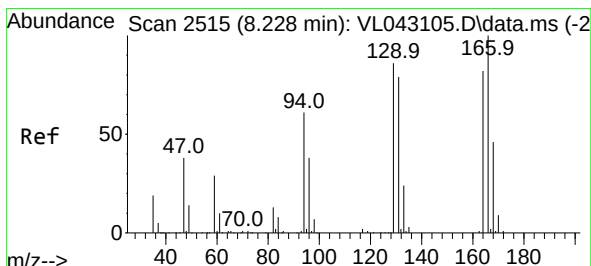
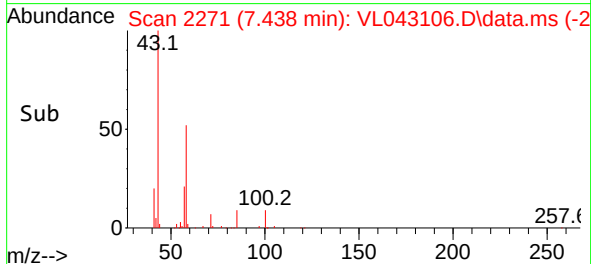
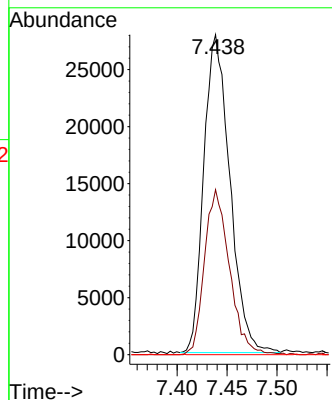
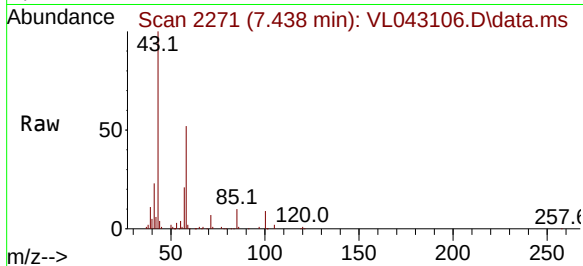




#51  
2-Hexanone  
Concen: 2.122 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

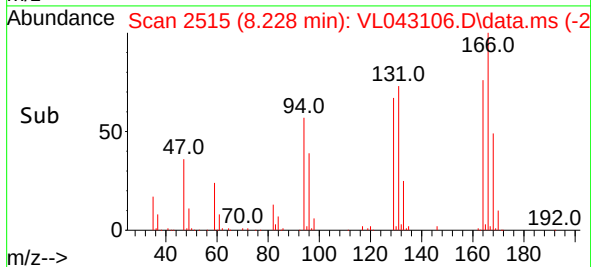
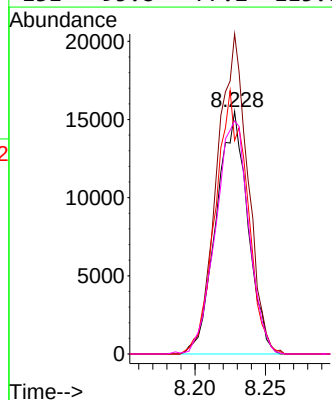
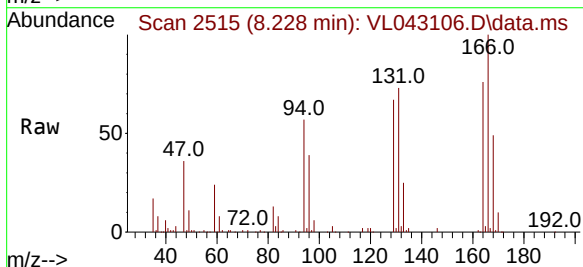
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

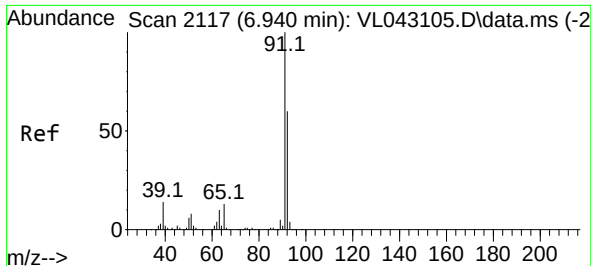
Tgt Ion: 43 Resp: 50642  
Ion Ratio Lower Upper  
43 100  
58 49.8 40.4 60.6  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 2.076 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 164 Resp: 24183  
Ion Ratio Lower Upper  
164 100  
166 132.0 97.6 146.4  
129 88.0 84.5 126.7  
131 95.8 77.2 115.8

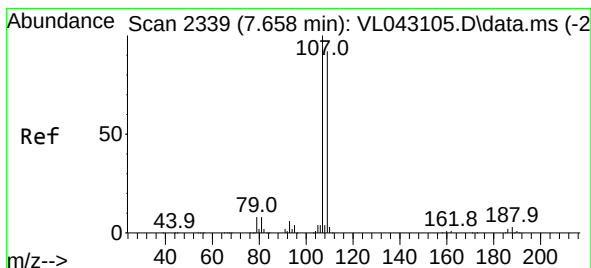
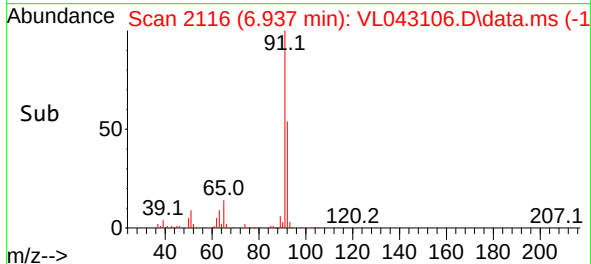
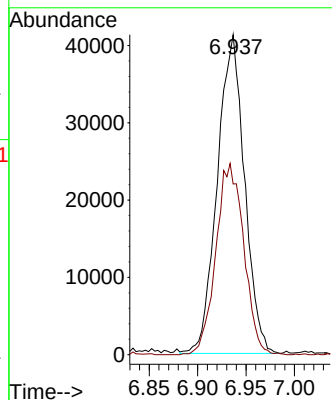
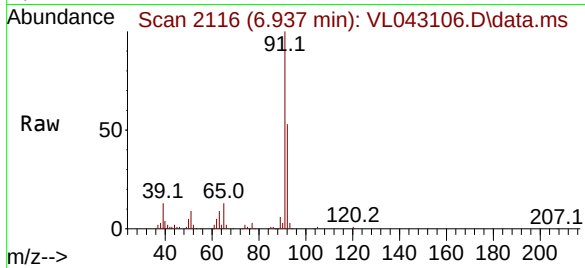




#53  
Toluene  
Concen: 2.104 ppbv  
RT: 6.937 min Scan# 2116  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

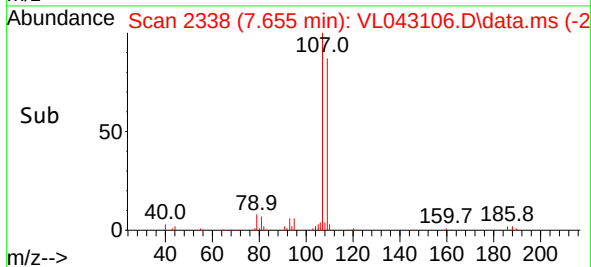
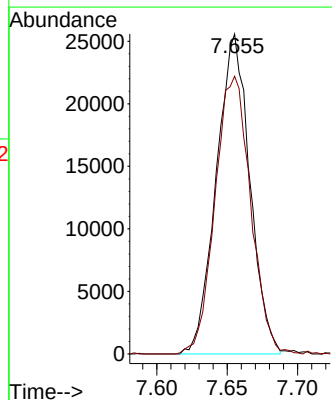
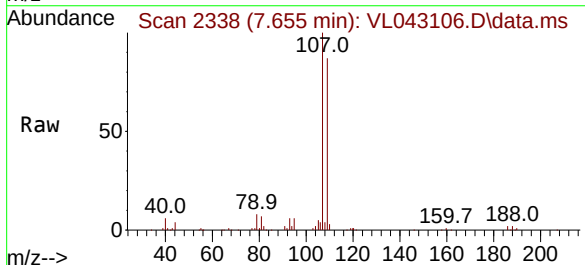
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

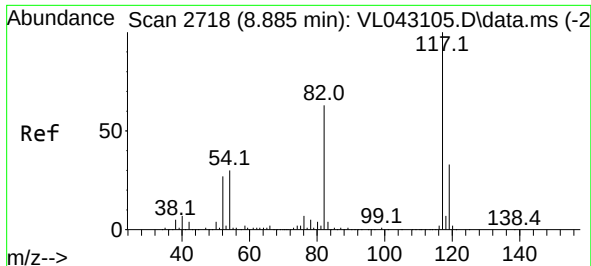
Tgt Ion: 91 Resp: 80660  
Ion Ratio Lower Upper  
91 100  
92 61.5 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 2.103 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 107 Resp: 42320  
Ion Ratio Lower Upper  
107 100  
109 86.5 73.4 110.2

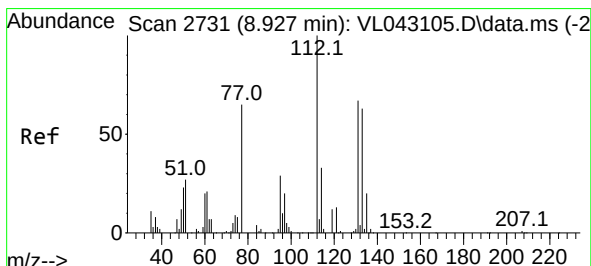
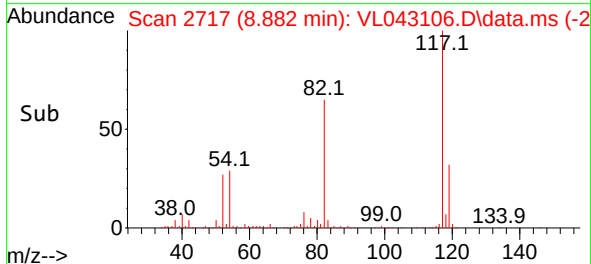
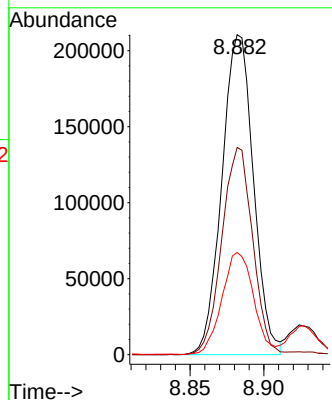
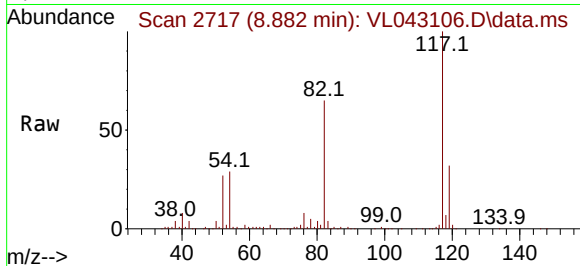




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

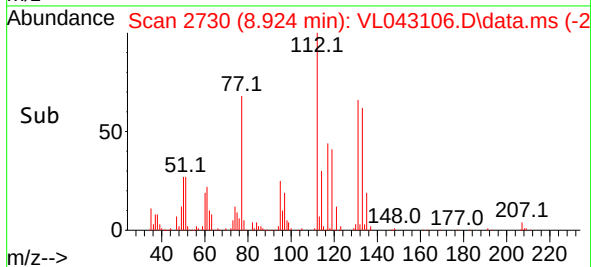
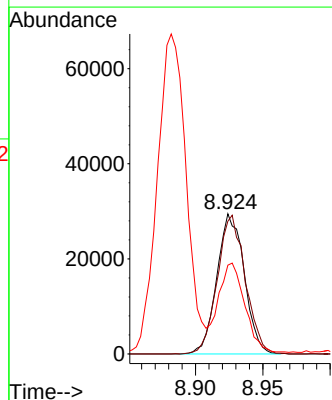
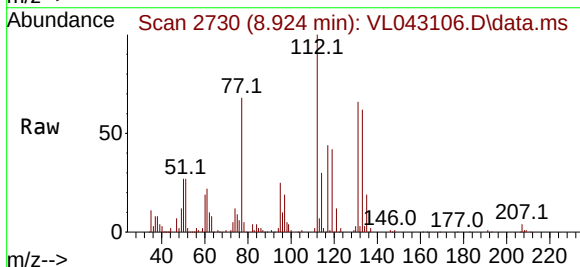
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

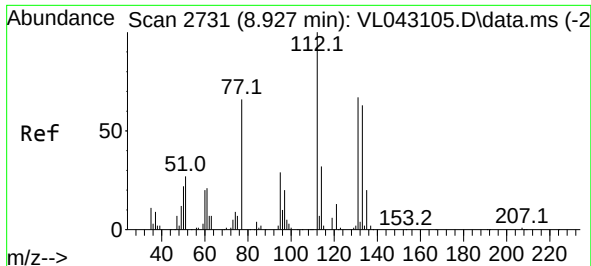
Tgt Ion:117 Resp: 313603  
Ion Ratio Lower Upper  
117 100  
82 63.9 53.8 80.8  
119 32.3 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.110 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:131 Resp: 41712  
Ion Ratio Lower Upper  
131 100  
133 101.2 75.7 113.5  
119 59.2 50.6 76.0





#57

Chlorobenzene

Concen: 2.138 ppbv

RT: 8.924 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

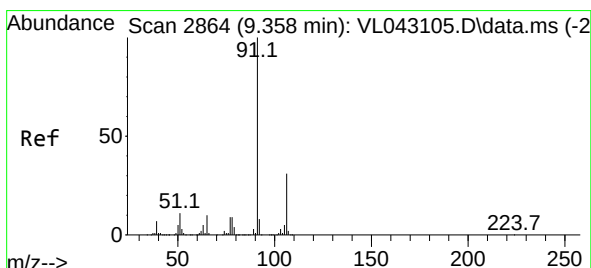
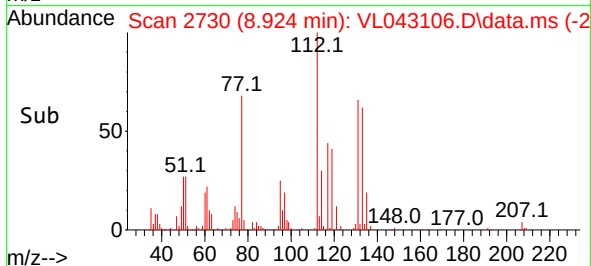
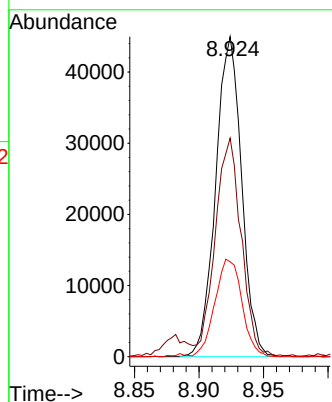
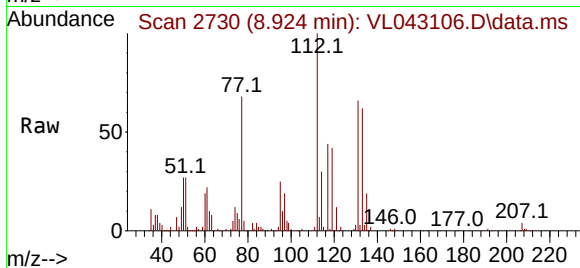
Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 62714 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 77        | 67.8  | 53.3  | 79.9  |
| 114       | 29.6  | 29.3  | 35.8  |



#58

Ethyl Benzene

Concen: 2.109 ppbv

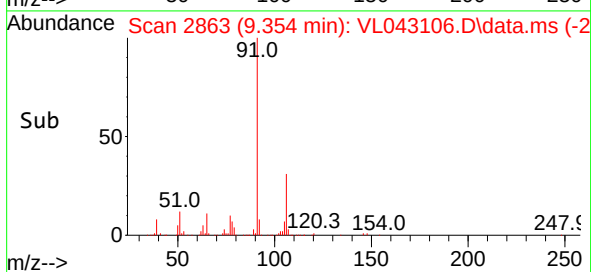
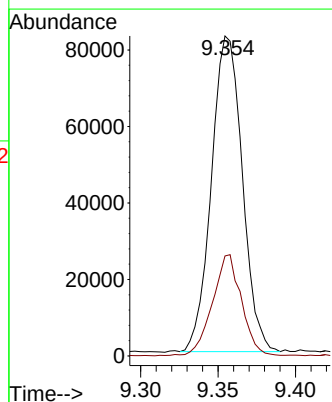
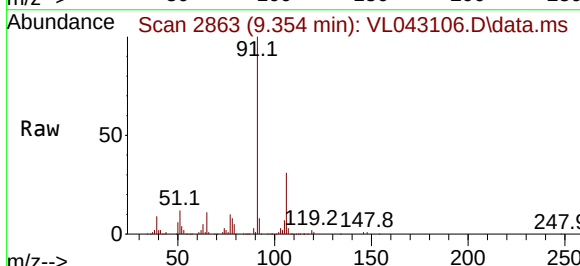
RT: 9.354 min Scan# 2863

Delta R.T. -0.003 min

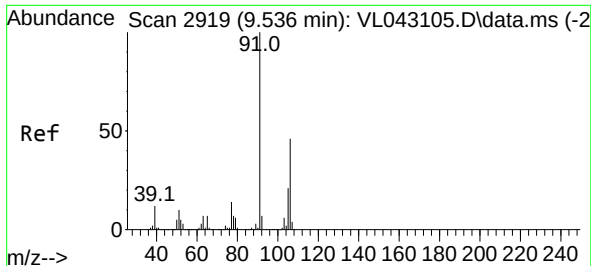
Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 114403 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 31.5  | 24.8  | 37.2   |







#59

m/p-Xylene

Concen: 2.238 ppbv

RT: 9.532 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_1

ClientSampleId :

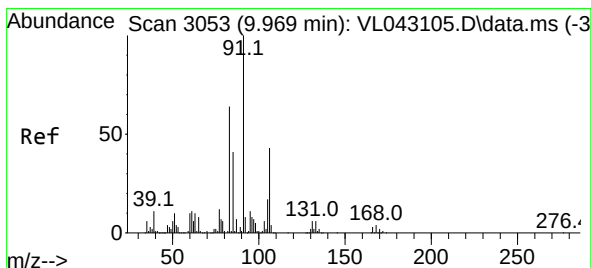
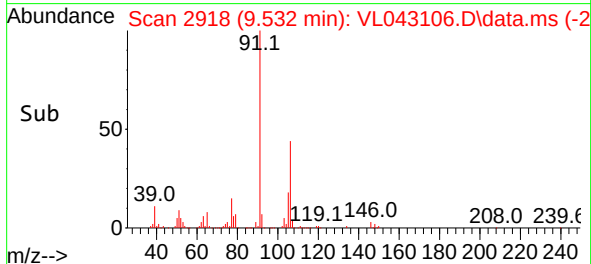
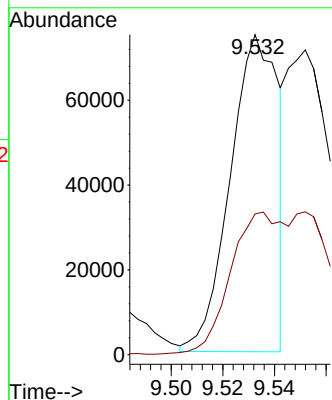
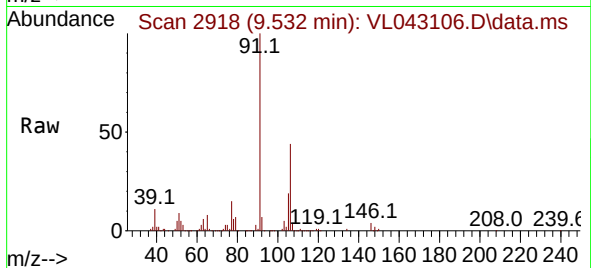
VSTDIC002

Tgt Ion: 91 Resp: 96158

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 2.152 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.006 min

Lab File: VL043106.D

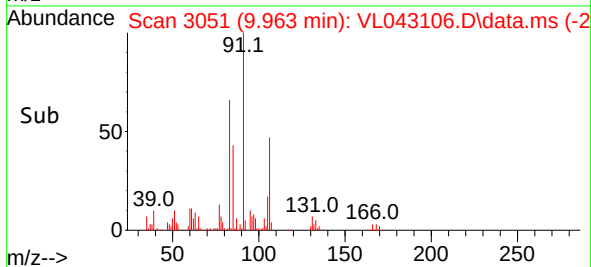
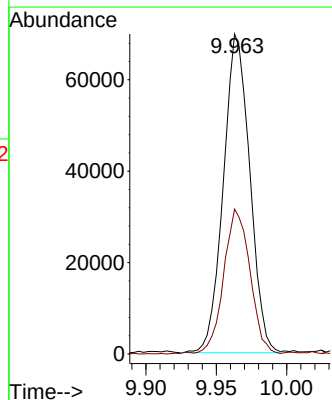
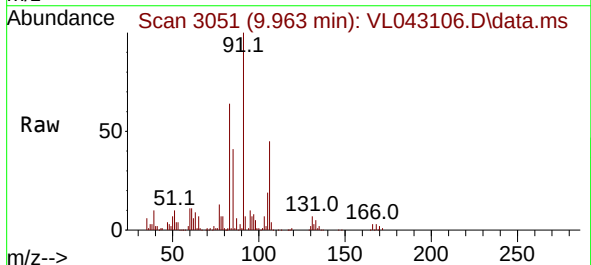
Acq: 14 Oct 2025 11:27

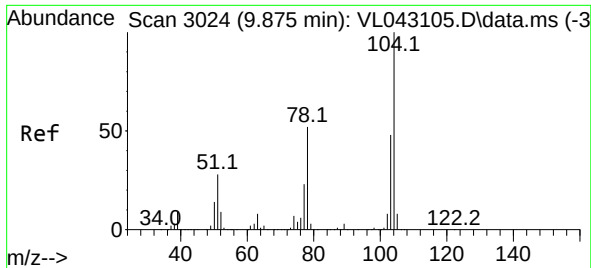
Tgt Ion: 91 Resp: 91223

Ion Ratio Lower Upper

91 100

106 45.2 21.9 65.8





#61

Styrene

Concen: 2.175 ppbv

RT: 9.872 min Scan# 3024

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

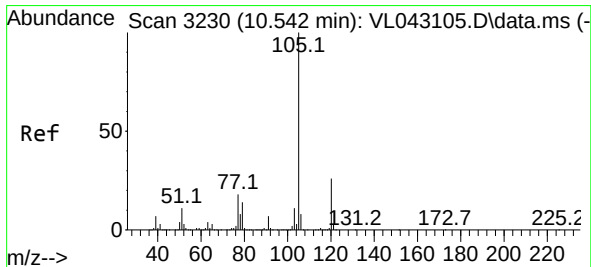
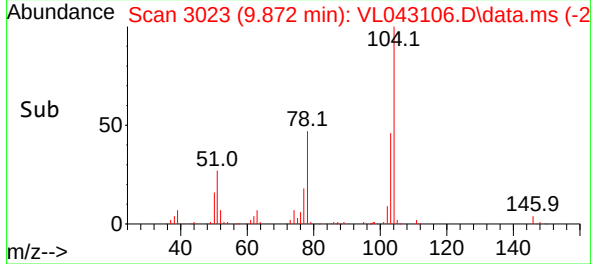
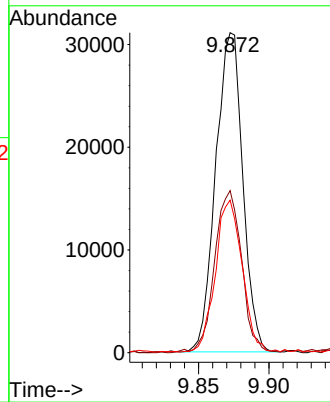
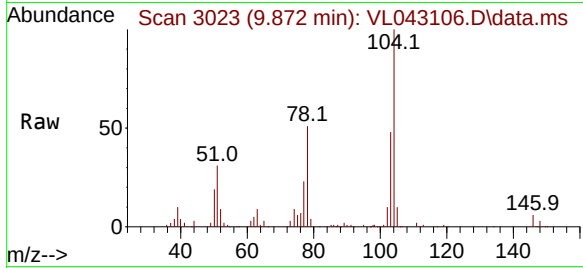
Tgt Ion:104 Resp: 41631

Ion Ratio Lower Upper

104 100

78 51.1 40.2 60.2

103 47.4 36.9 55.3



#62

Isopropylbenzene

Concen: 2.142 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. -0.003 min

Lab File: VL043106.D

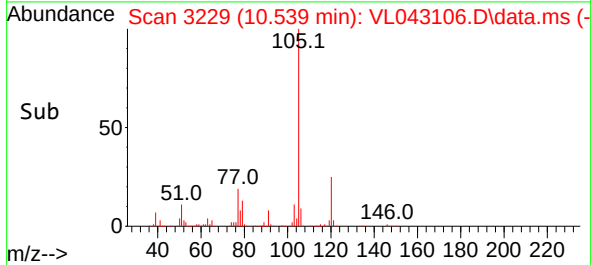
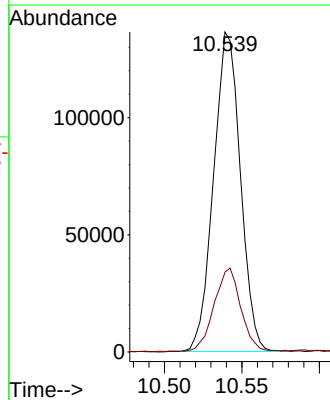
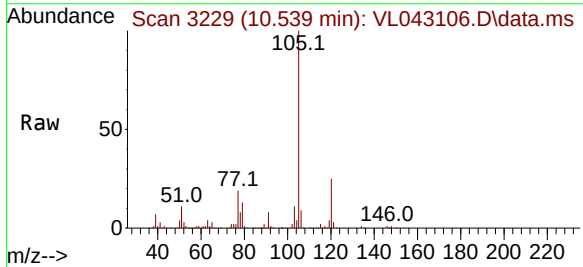
Acq: 14 Oct 2025 11:27

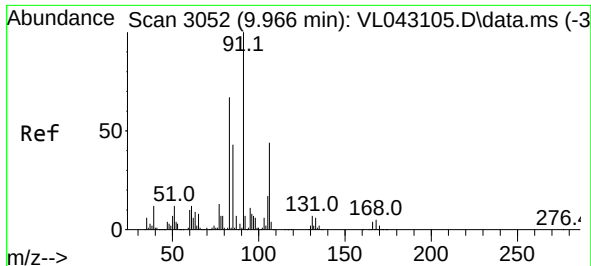
Tgt Ion:105 Resp: 164073

Ion Ratio Lower Upper

105 100

120 26.1 20.2 30.4

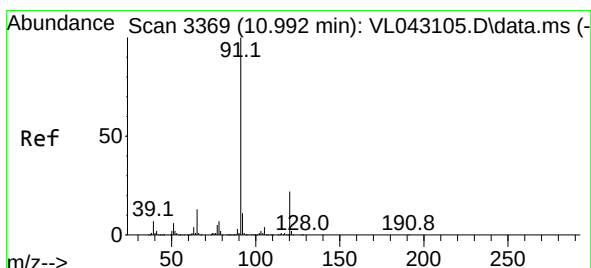
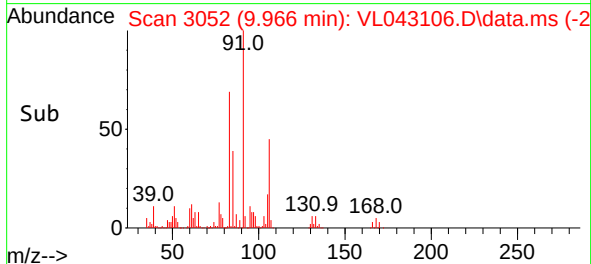
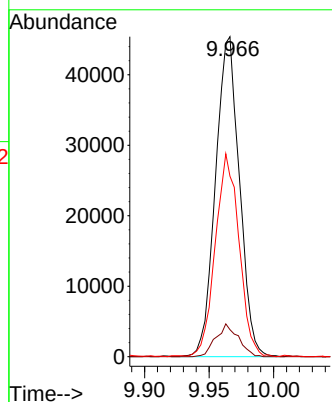
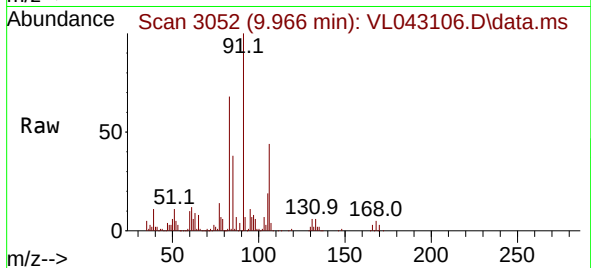




#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.061 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

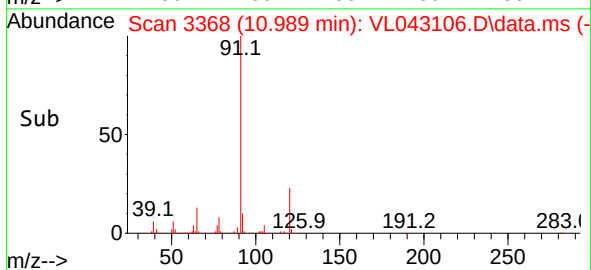
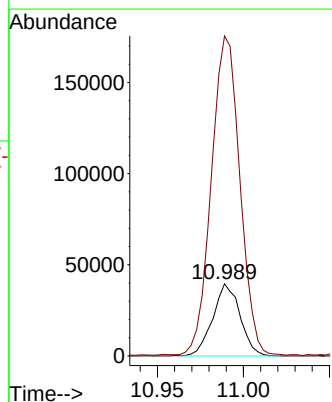
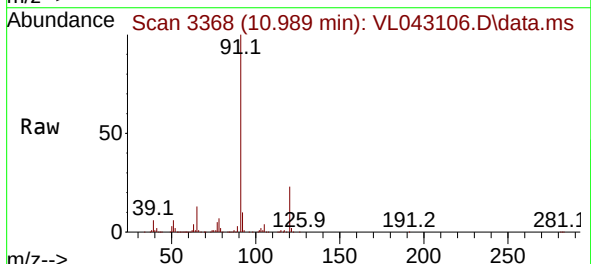
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC002

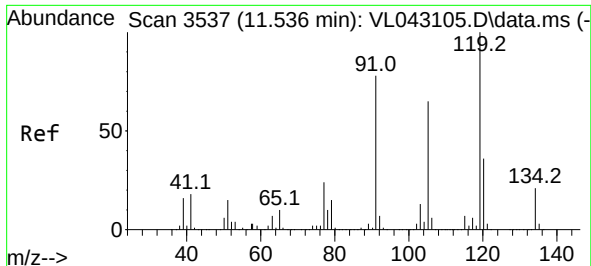
Tgt Ion: 83 Resp: 58510  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.3  
85 63.2 32.0 96.0



#64  
n-propylbenzene  
Concen: 2.152 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 120 Resp: 43648  
Ion Ratio Lower Upper  
120 100  
91 462.4 361.6 542.4

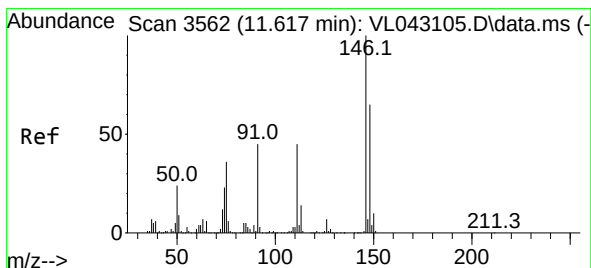
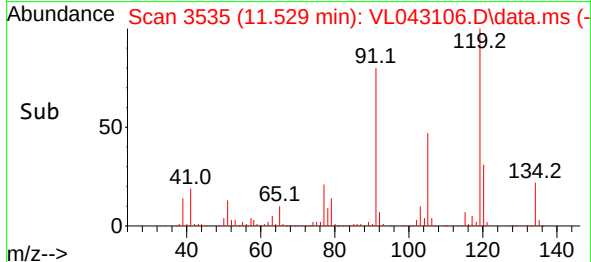
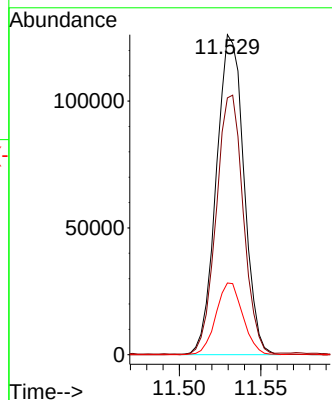
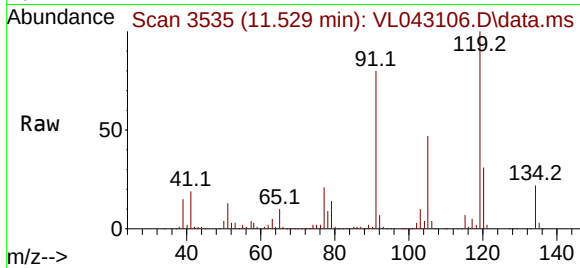




#65  
tert-Butylbenzene  
Concen: 2.192 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.006 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

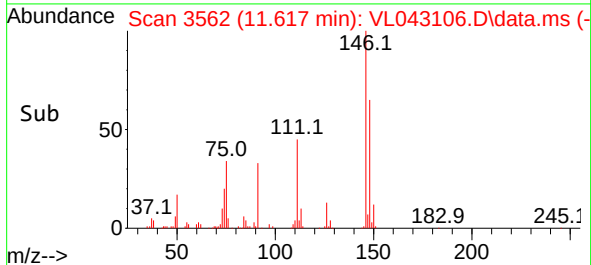
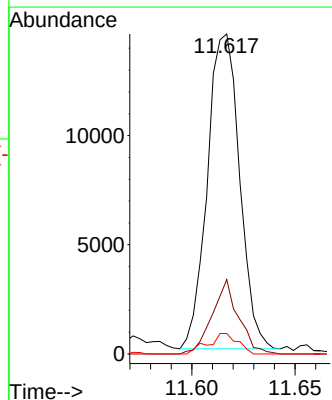
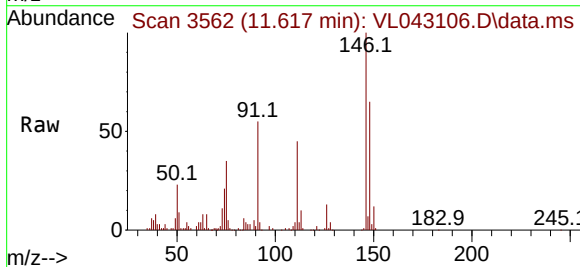
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

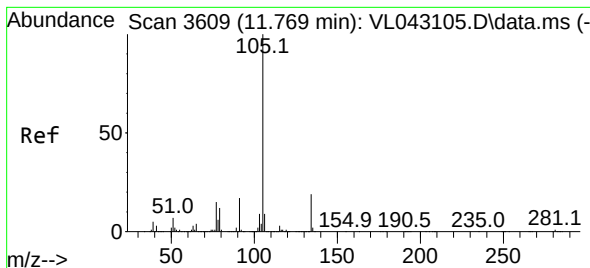
Tgt Ion:119 Resp: 148300  
Ion Ratio Lower Upper  
119 100  
91 80.2 63.4 95.0  
134 22.0 17.3 25.9



#66  
Benzyl Chloride  
Concen: 2.072 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 15656  
Ion Ratio Lower Upper  
91 100  
126 19.2 14.6 22.0  
128 5.9 4.6 6.8

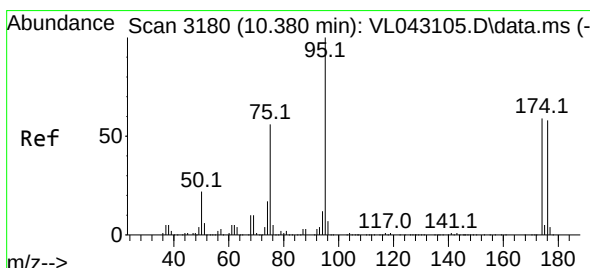
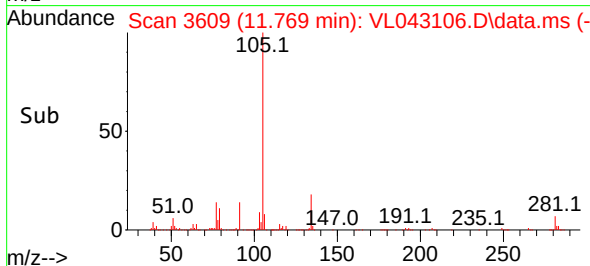
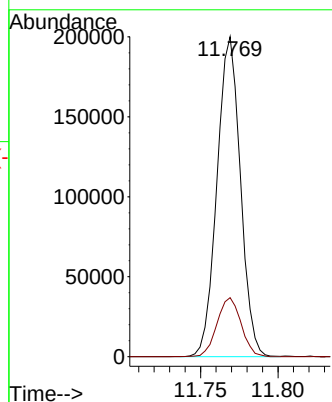
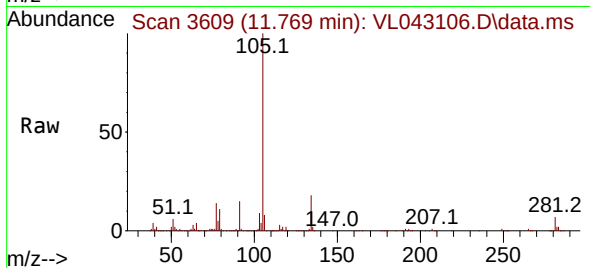




#67  
 sec-Butylbenzene  
 Concen: 2.193 ppbv  
 RT: 11.769 min Scan# 3179  
 Delta R.T. 0.000 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

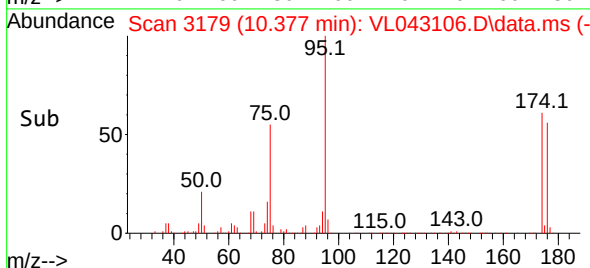
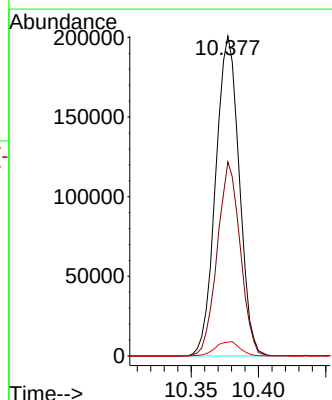
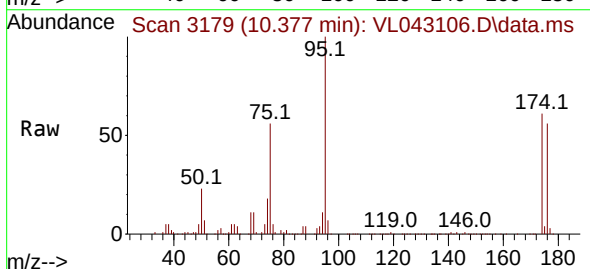
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

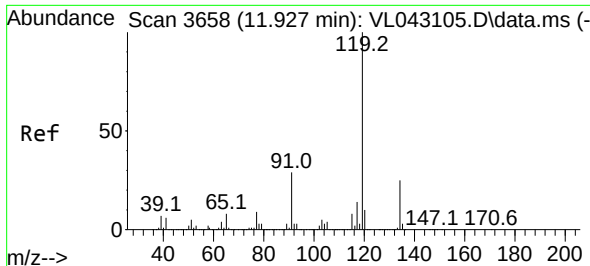
Tgt Ion:105 Resp: 210525  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.024 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.003 min  
 Lab File: VL043106.D  
 Acq: 14 Oct 2025 11:27

Tgt Ion: 95 Resp: 244329  
 Ion Ratio Lower Upper  
 95 100  
 174 59.2 48.3 72.5  
 175 4.7 3.8 5.8

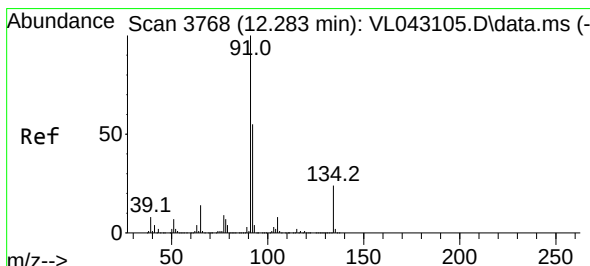
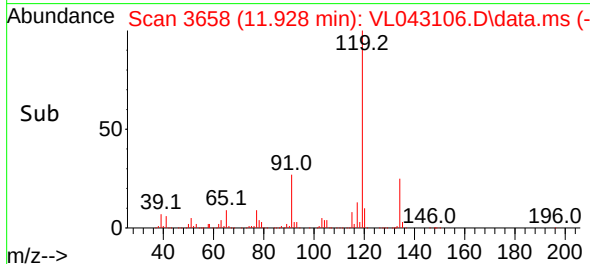
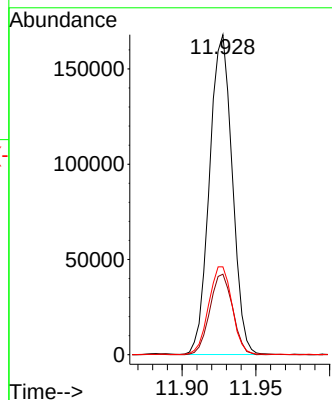
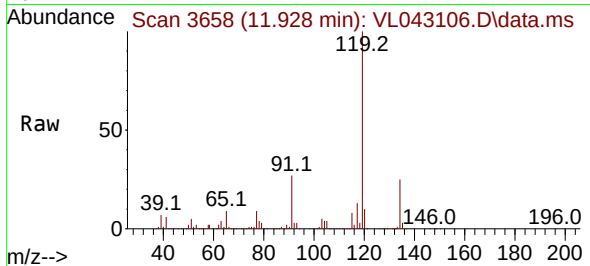




#69  
p-Isopropyltoluene  
Concen: 2.207 ppbv  
RT: 11.928 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

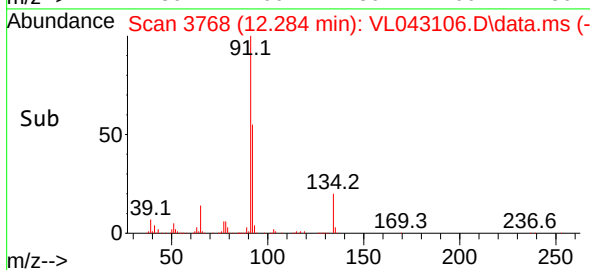
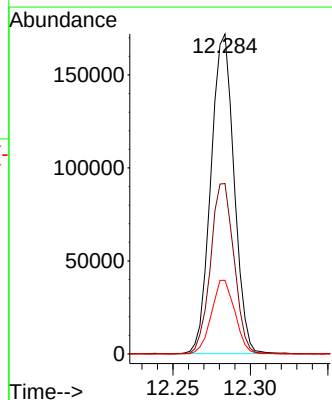
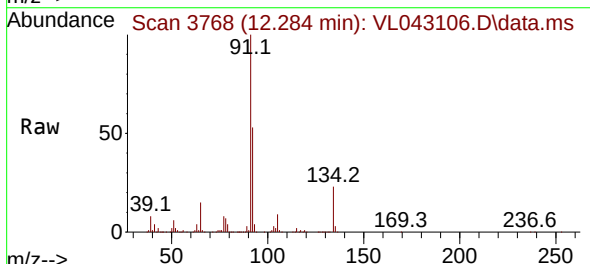
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

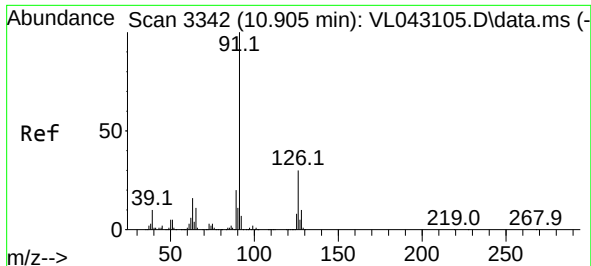
Tgt Ion: 119 Resp: 180060  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 29.0 22.6 33.8



#70  
n-Butylbenzene  
Concen: 2.222 ppbv  
RT: 12.284 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 91 Resp: 178676  
Ion Ratio Lower Upper  
91 100  
92 54.2 44.5 66.7  
134 23.4 19.3 28.9

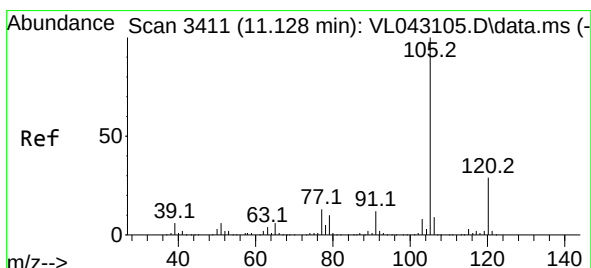
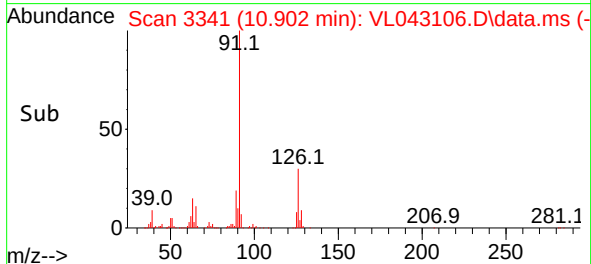
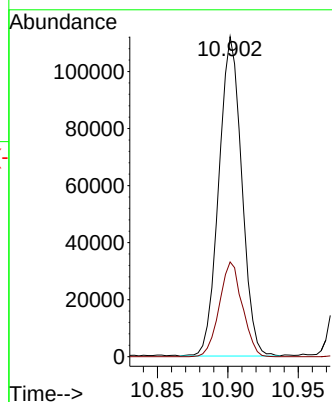
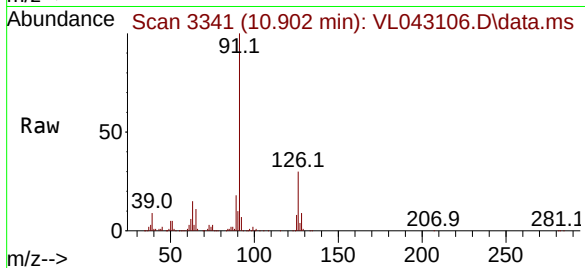




#71  
2-Chlorotoluene  
Concen: 2.166 ppbv  
RT: 10.902 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

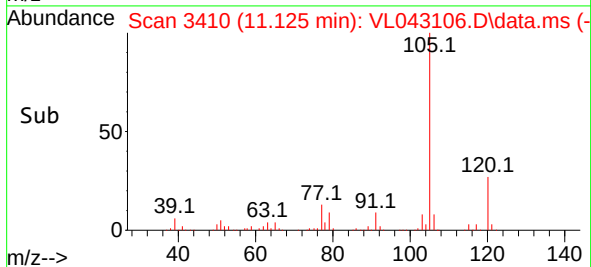
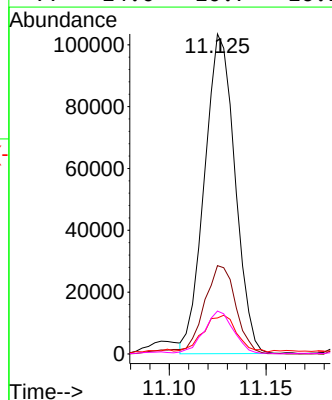
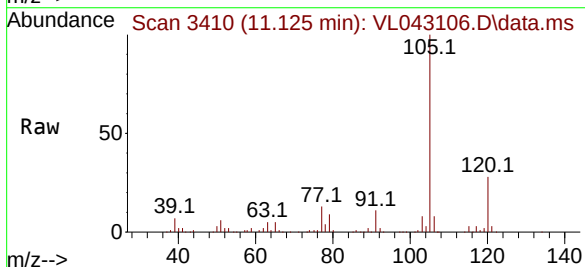
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

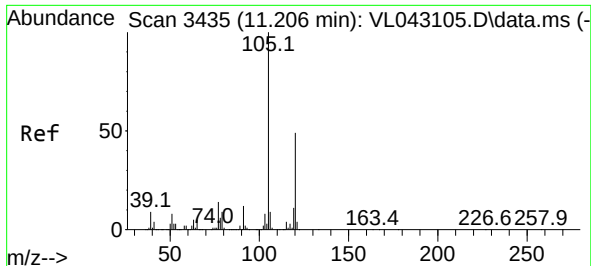
Tgt Ion: 91 Resp: 126551  
Ion Ratio Lower Upper  
91 100  
126 29.7 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 2.172 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion: 105 Resp: 113233  
Ion Ratio Lower Upper  
105 100  
120 29.8 24.2 36.4  
91 14.8 10.0 15.0  
77 14.0 10.7 16.1

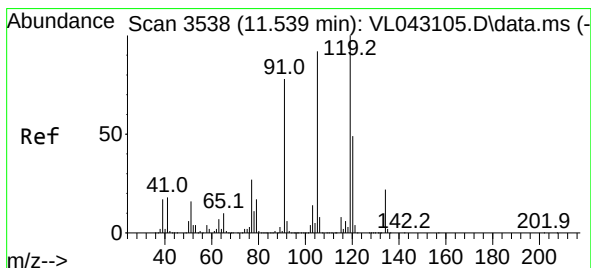
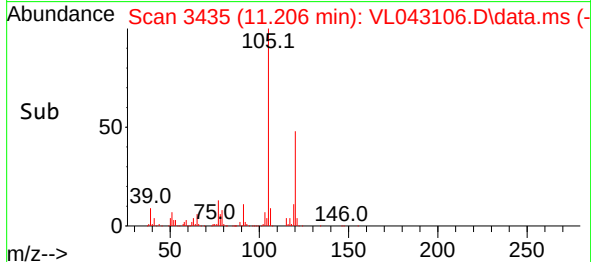
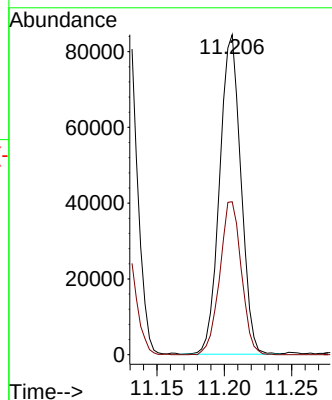
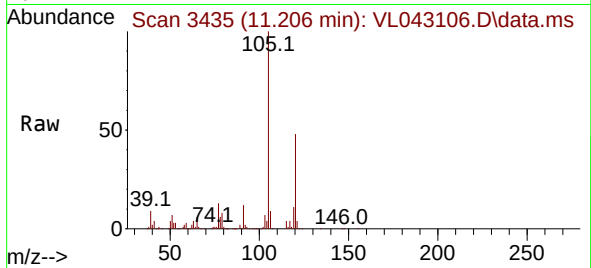




#73  
1,3,5-Trimethylbenzene  
Concen: 2.155 ppbv  
RT: 11.206 min Scan# 3435  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

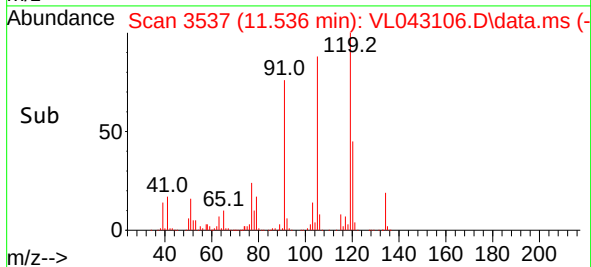
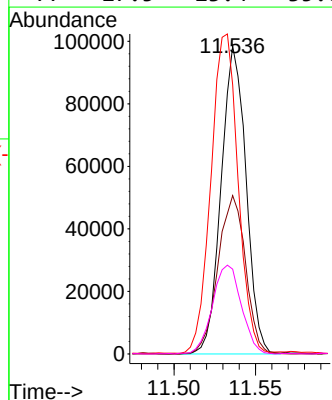
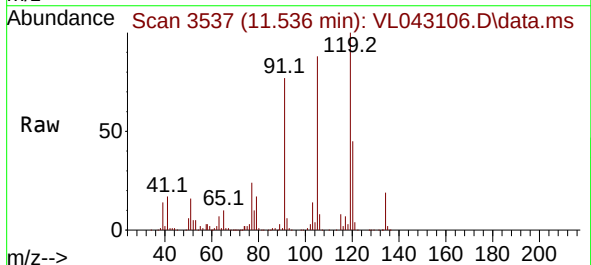
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:105 Resp: 92650  
Ion Ratio Lower Upper  
105 100  
120 47.9 39.0 58.6

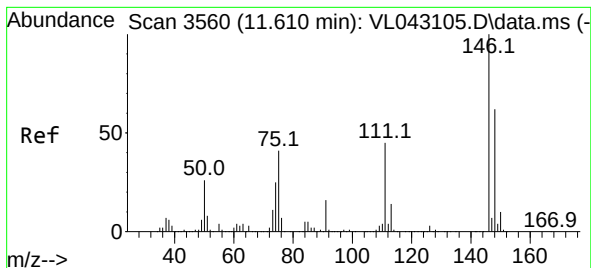


#74  
1,2,4-Trimethylbenzene  
Concen: 2.169 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:105 Resp: 104352  
Ion Ratio Lower Upper  
105 100  
120 51.4 42.8 64.2  
91 87.0 68.3 102.5  
77 27.5 23.4 35.0







#75

1,3-Dichlorobenzene

Concen: 2.247 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

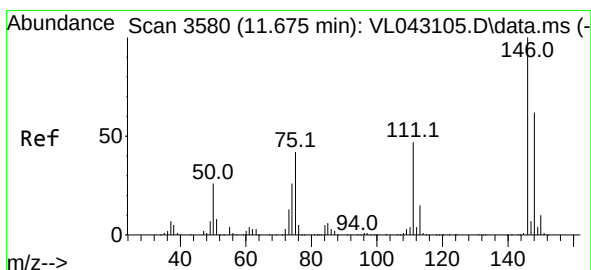
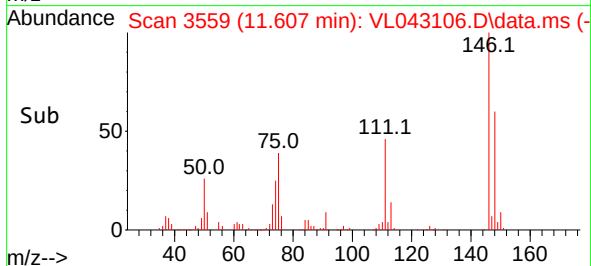
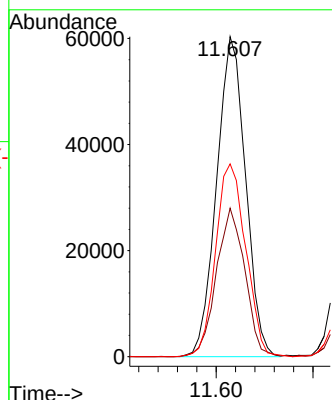
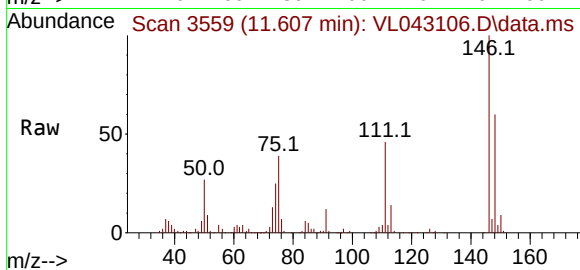
Tgt Ion:146 Resp: 62709

Ion Ratio Lower Upper

146 100

111 45.8 23.3 69.9

148 62.6 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 2.164 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL043106.D

Acq: 14 Oct 2025 11:27

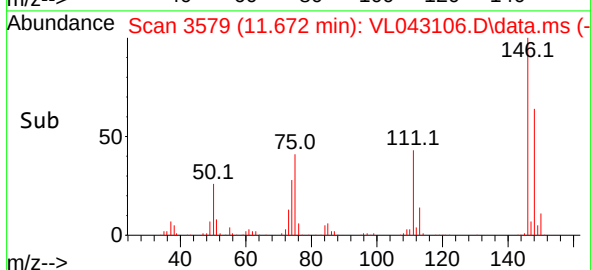
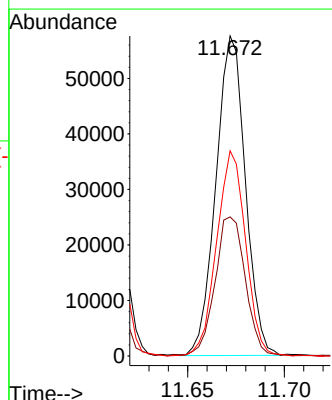
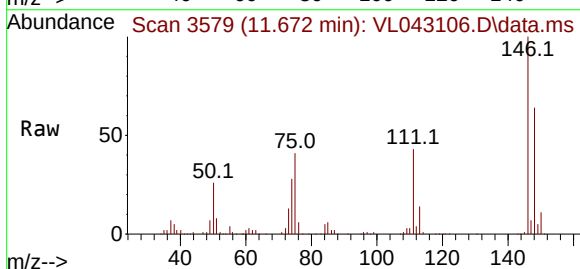
Tgt Ion:146 Resp: 60877

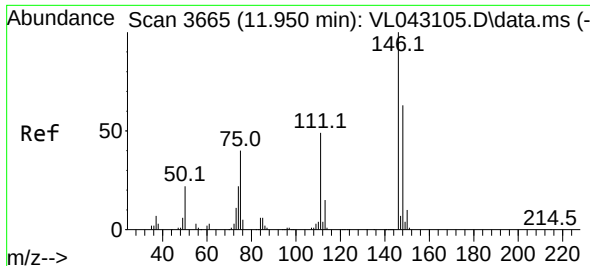
Ion Ratio Lower Upper

146 100

111 44.9 22.4 67.0

148 63.3 31.6 94.7

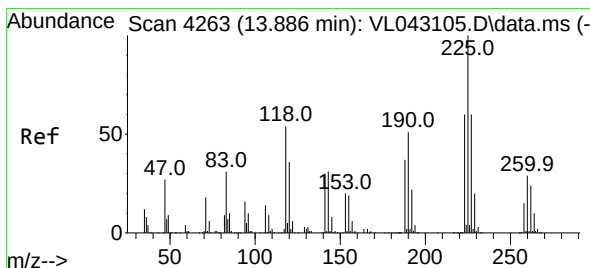
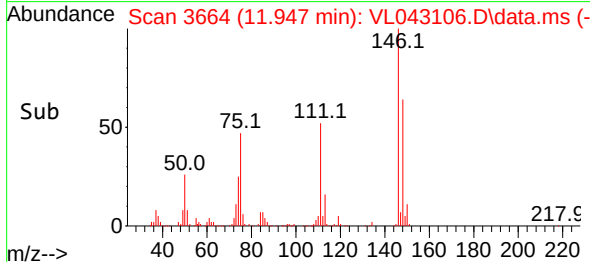
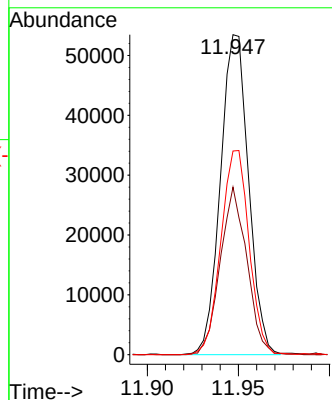
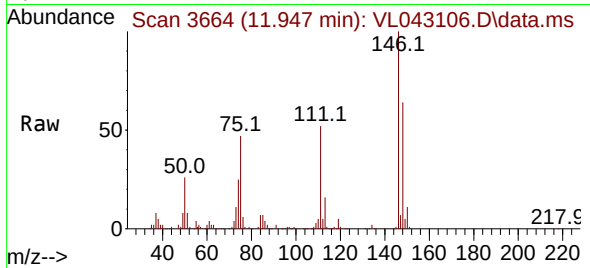




#77  
1,2-Dichlorobenzene  
Concen: 2.123 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

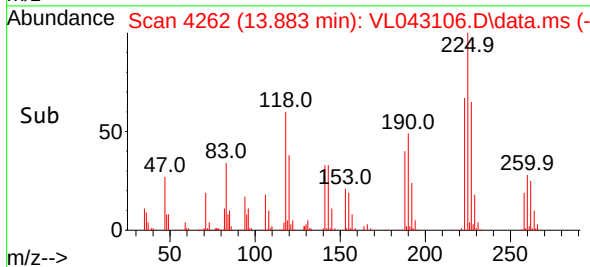
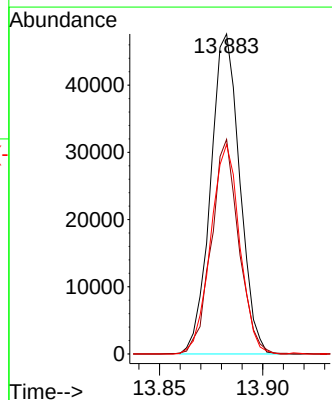
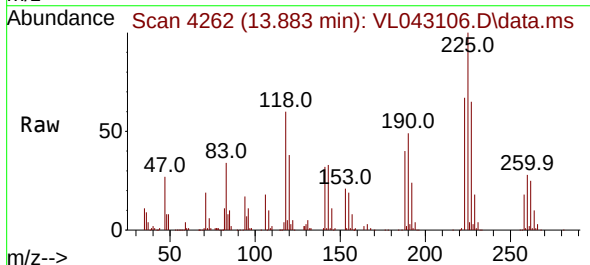
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

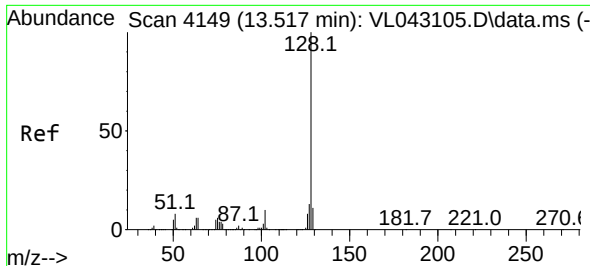
Tgt Ion:146 Resp: 57304  
Ion Ratio Lower Upper  
146 100  
111 49.7 24.0 72.0  
148 64.3 31.1 93.3



#78  
Hexachloro-1,3-Butadiene  
Concen: 2.239 ppbv  
RT: 13.883 min Scan# 4262  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:225 Resp: 46796  
Ion Ratio Lower Upper  
225 100  
223 63.2 50.2 75.4  
227 65.2 49.6 74.4

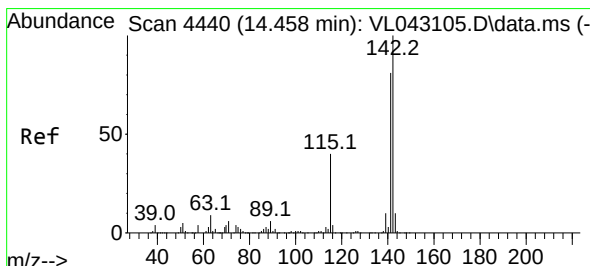
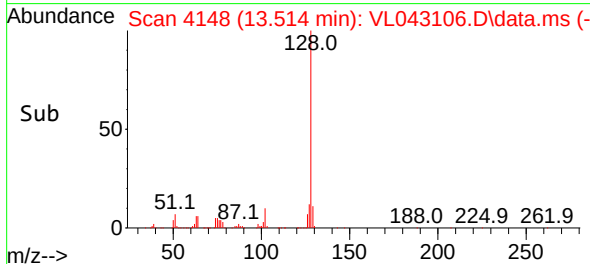
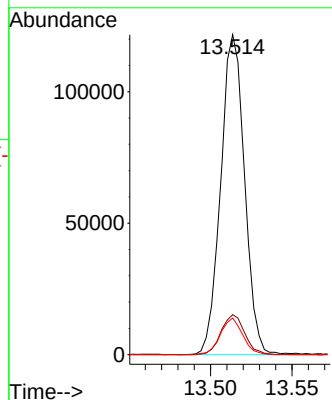
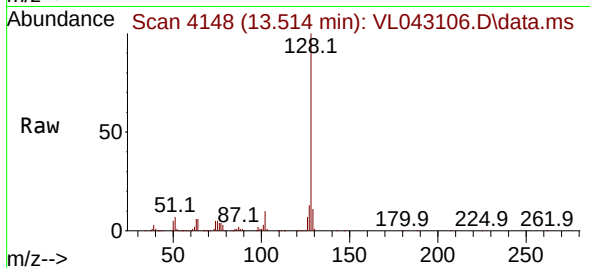




#79  
Naphthalene  
Concen: 2.488 ppbv  
RT: 13.514 min Scan# 4149  
Delta R.T. -0.003 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

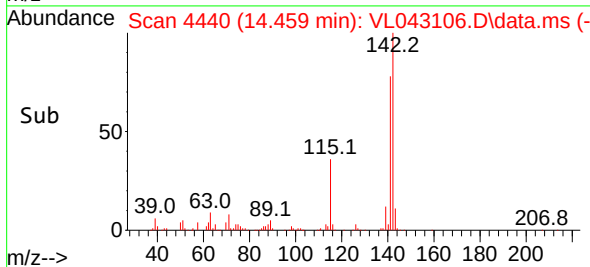
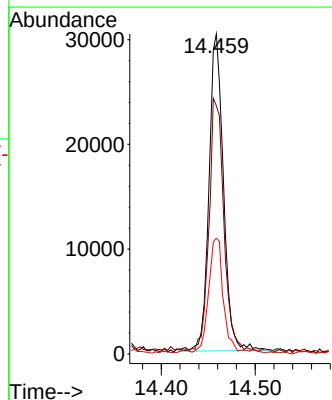
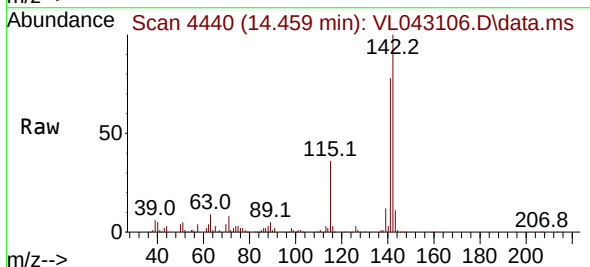
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

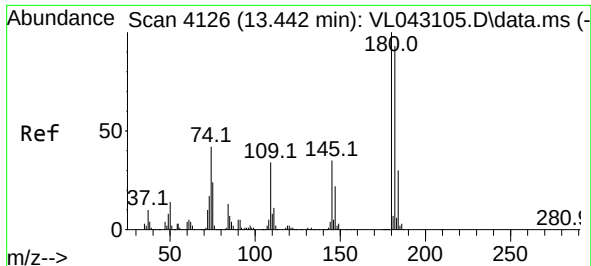
Tgt Ion:128 Resp: 123642  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 11.4 9.1 13.7



#80  
Naphthalene,2-methyl-  
Concen: 2.462 ppbv  
RT: 14.459 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL043106.D  
Acq: 14 Oct 2025 11:27

Tgt Ion:142 Resp: 32308  
Ion Ratio Lower Upper  
142 100  
141 82.6 64.6 97.0  
115 39.7 30.2 45.4





#81

1,2,4-Trichlorobenzene

Concen: 2.414 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL043106.D

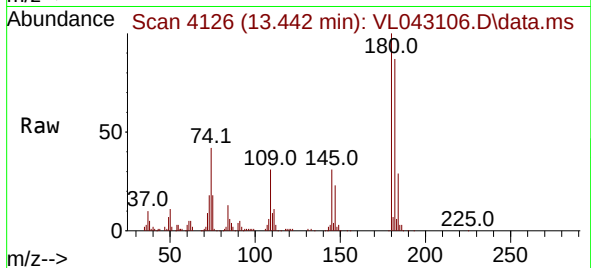
Acq: 14 Oct 2025 11:27

Instrument :

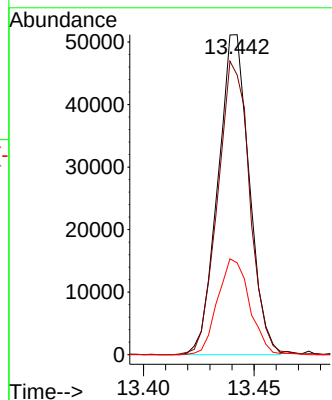
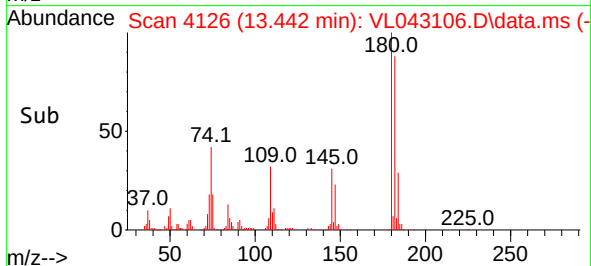
MSVOA\_L

ClientSampleId :

VSTDICC002



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 50394 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.9  | 75.5  | 113.3 |
| 184       | 30.6  | 23.9  | 35.9  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043107.D  
 Acq On : 14 Oct 2025 12:01  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Oct 15 01:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 102307   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 336268   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 305409   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 235307 9.912 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.100%

#### Target Compounds

|                               |       |     |       |       | Qvalue |     |
|-------------------------------|-------|-----|-------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 15620 | 1.074 | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 16692 | 1.061 | ppbv # | 91  |
| 4) Chloromethane              | 1.534 | 50  | 6353  | 1.103 | ppbv   | 93  |
| 5) Vinyl Chloride             | 1.580 | 62  | 5694  | 1.008 | ppbv   | 96  |
| 6) Bromomethane               | 1.667 | 94  | 3462  | 1.117 | ppbv   | 98  |
| 7) Chloroethane               | 1.706 | 64  | 2615  | 1.132 | ppbv # | 82  |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 12940 | 1.101 | ppbv   | 98  |
| 9) Propene                    | 1.483 | 41  | 7291  | 1.045 | ppbv   | 100 |
| 10) Heptane                   | 4.978 | 43  | 22011 | 1.100 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 14927 | 1.049 | ppbv   | 85  |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 12484 | 1.090 | ppbv   | 99  |
| 13) Ethanol                   | 1.722 | 45  | 3143  | 1.217 | ppbv   | 83  |
| 14) Bromoethene               | 1.780 | 108 | 4440  | 1.043 | ppbv # | 90  |
| 15) Acetone                   | 1.835 | 43  | 15572 | 1.123 | ppbv   | 90  |
| 16) 1,3-Butadiene             | 1.609 | 39  | 7157  | 1.089 | ppbv   | 97  |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 20941 | 1.106 | ppbv # | 90  |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 5510  | 1.103 | ppbv   | 88  |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 9796  | 1.141 | ppbv # | 85  |
| 20) Methylene Chloride        | 2.062 | 84  | 6261  | 1.149 | ppbv   | 96  |
| 21) Allyl Chloride            | 2.094 | 41  | 10737 | 1.055 | ppbv # | 82  |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 7119  | 1.193 | ppbv   | 92  |
| 23) Vinyl Acetate             | 2.463 | 43  | 19477 | 0.964 | ppbv   | 99  |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 12656 | 1.097 | ppbv # | 94  |
| 25) Ethyl Acetate             | 2.832 | 43  | 37093 | 1.085 | ppbv   | 98  |
| 26) Hexane                    | 2.826 | 57  | 17152 | 1.089 | ppbv   | 98  |
| 27) Carbon Disulfide          | 2.149 | 76  | 15760 | 1.092 | ppbv # | 60  |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 7847  | 1.095 | ppbv # | 87  |
| 29) Chloroform                | 2.845 | 83  | 24527 | 1.074 | ppbv   | 90  |
| 30) Cyclohexane               | 3.855 | 84  | 14819 | 1.078 | ppbv   | 97  |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 16311 | 1.084 | ppbv   | 93  |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 24948 | 1.049 | ppbv   | 98  |
| 34) 2-Butanone                | 2.557 | 43  | 23811 | 1.047 | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 24969 | 1.033 | ppbv   | 93  |
| 36) Benzene                   | 3.651 | 78  | 32940 | 1.040 | ppbv   | 99  |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 19213 | 1.053 | ppbv   | 100 |
| 38) Trichloroethene           | 4.544 | 130 | 13512 | 1.023 | ppbv   | 96  |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 12435 | 1.073 | ppbv   | 92  |
| 40) 1,4-Dioxane               | 4.593 | 88  | 3225  | 0.622 | ppbv # | 21  |
| 41) Tetrahydrofuran           | 3.056 | 42  | 13251 | 1.044 | ppbv   | 99  |
| 42) Bromodichloromethane      | 4.486 | 83  | 26069 | 1.032 | ppbv # | 94  |
| 43) Methyl Methacrylate       | 4.878 | 69  | 17195 | 1.064 | ppbv   | 97  |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 57382 | 1.084 | ppbv   | 96  |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 7304  | 0.452 | ppbv   | 97  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043107.D  
 Acq On : 14 Oct 2025 12:01  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

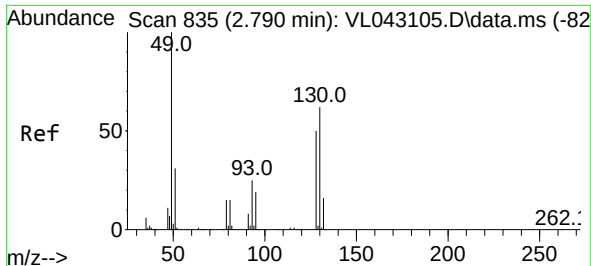
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Oct 15 01:52:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 19830    | 1.029 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 12876    | 1.030 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.383  | 129  | 21874    | 1.046 | ppbv   | 97       |
| 49) Bromoform                 | 9.480  | 173  | 17320    | 1.019 | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 5.745  | 43   | 11642    | 0.371 | ppbv # | 38       |
| 51) 2-Hexanone                | 7.441  | 43   | 23817    | 1.018 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.224  | 164  | 12319    | 1.079 | ppbv   | 91       |
| 53) Toluene                   | 6.930  | 91   | 39079    | 1.040 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 19711    | 0.999 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 20279    | 1.053 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.920  | 112  | 30824    | 1.079 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.351  | 91   | 55420    | 1.049 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.532  | 91   | 45483    | 1.087 | ppbv # | 29       |
| 60) o-Xylene                  | 9.963  | 91   | 44925    | 1.088 | ppbv   | 100      |
| 61) Styrene                   | 9.869  | 104  | 19809    | 1.063 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105  | 81579    | 1.093 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 28230    | 1.021 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.985 | 120  | 21685    | 1.098 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 72781    | 1.105 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.613 | 91   | 7918     | 1.076 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 103152   | 1.103 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 88443    | 1.113 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 86120    | 1.100 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 60994    | 1.072 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 53788    | 1.059 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 44786    | 1.070 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 52118    | 1.112 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 29186    | 1.074 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 29225    | 1.066 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 29146    | 1.109 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 23330    | 1.146 | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 53930    | 1.114 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 10851    | 0.849 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 22161    | 1.090 | ppbv   | 98       |

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

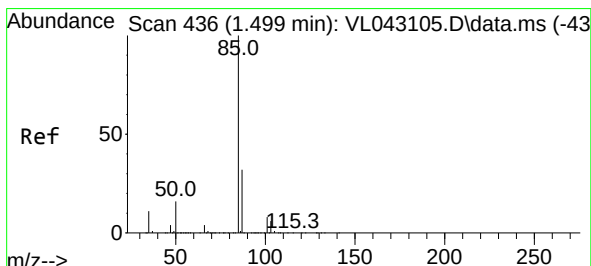
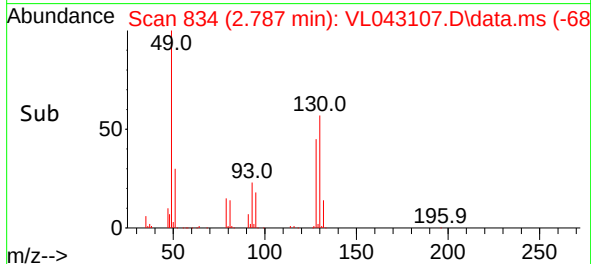
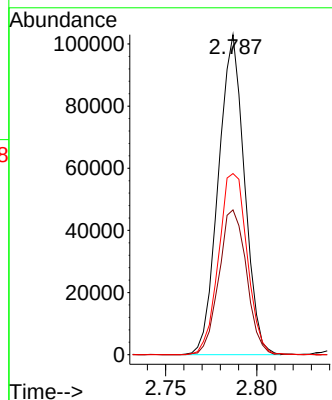
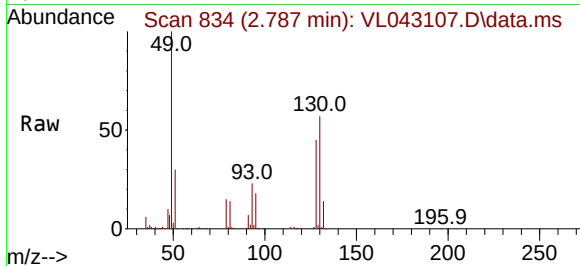




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

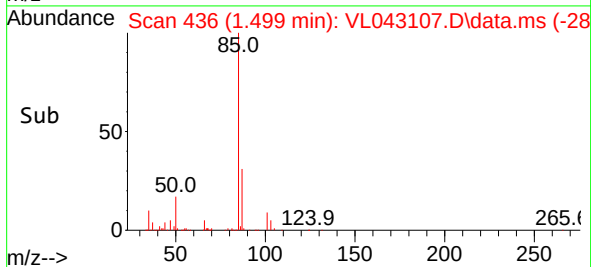
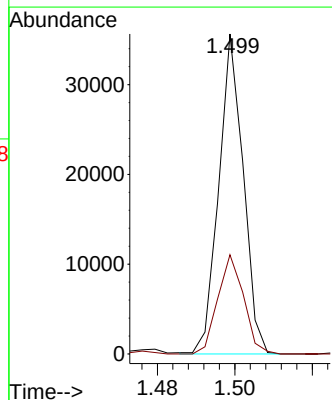
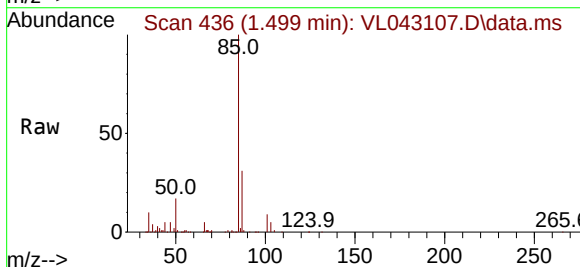
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 49 Resp: 102307  
Ion Ratio Lower Upper  
49 100  
128 48.0 24.4 73.4  
130 62.0 31.0 93.0

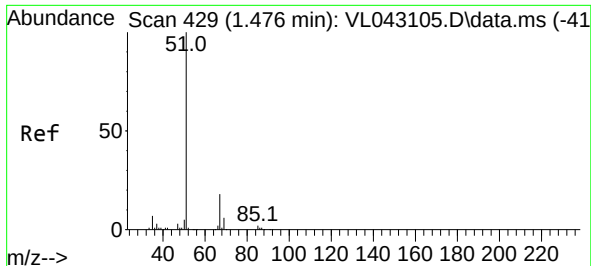


#2  
Dichlorodifluoromethane  
Concen: 1.074 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 15620  
Ion Ratio Lower Upper  
85 100  
87 31.0 25.3 37.9



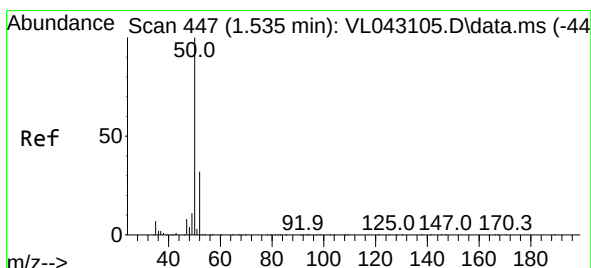
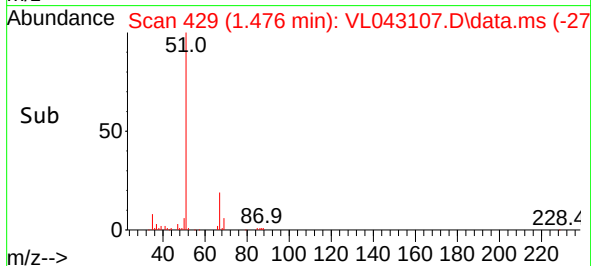
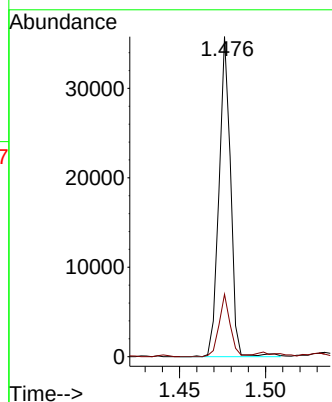
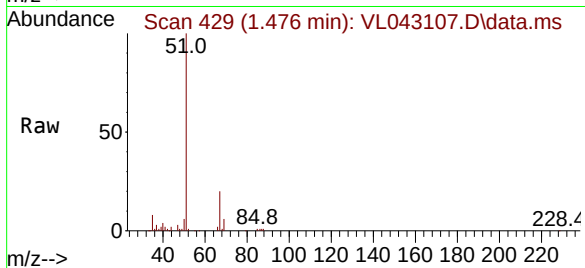




#3  
Chlorodifluoromethane  
Concen: 1.061 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

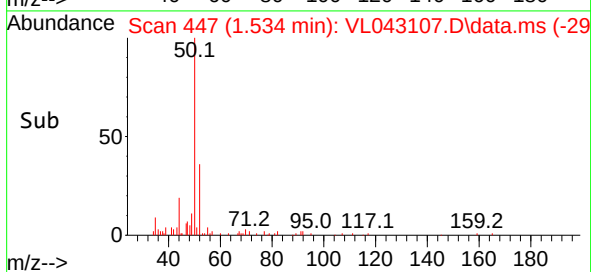
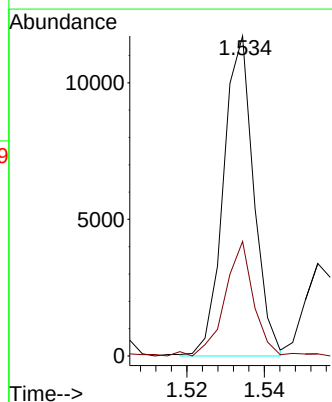
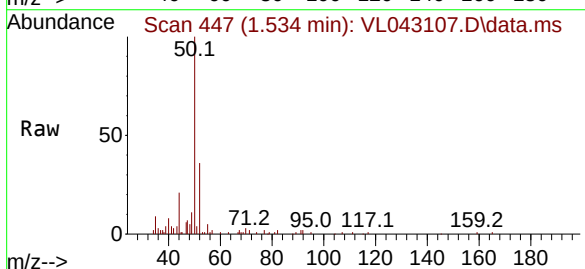
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

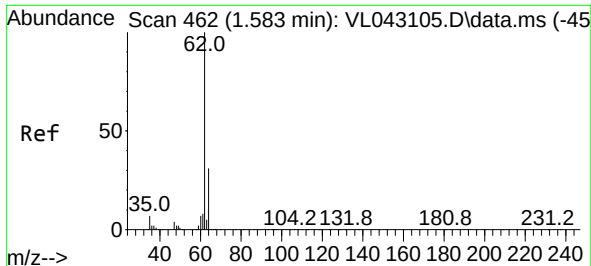
Tgt Ion: 51 Resp: 16692  
Ion Ratio Lower Upper  
51 100  
67 22.8 15.1 22.7#



#4  
Chloromethane  
Concen: 1.103 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 50 Resp: 6353  
Ion Ratio Lower Upper  
50 100  
52 35.6 25.2 37.8

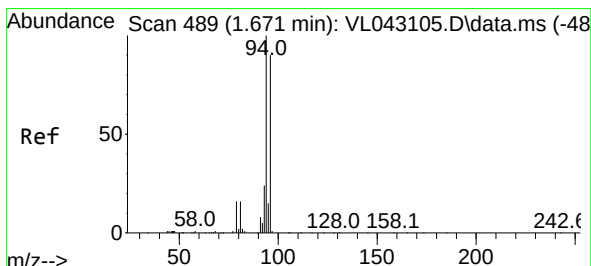
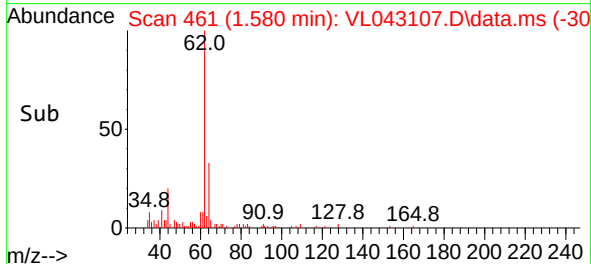
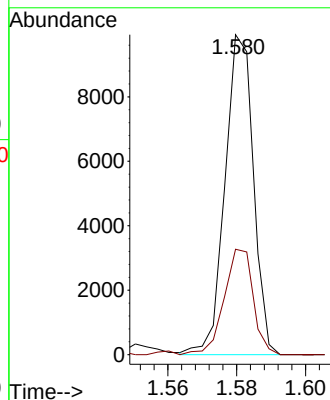
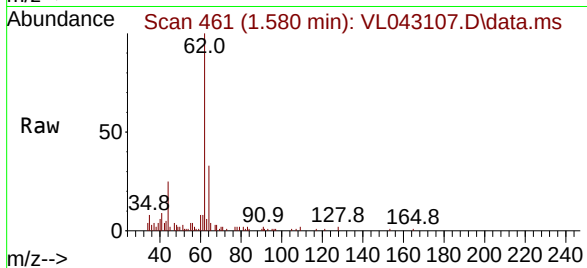




#5  
 Vinyl Chloride  
 Concen: 1.008 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

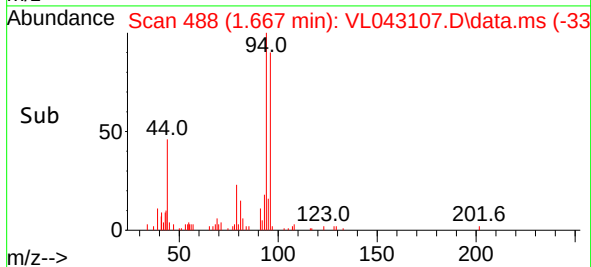
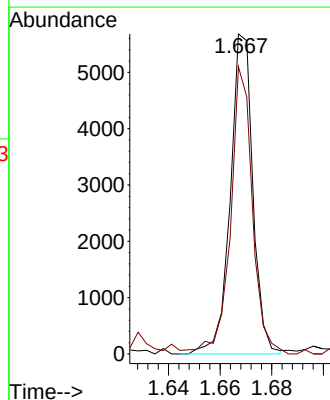
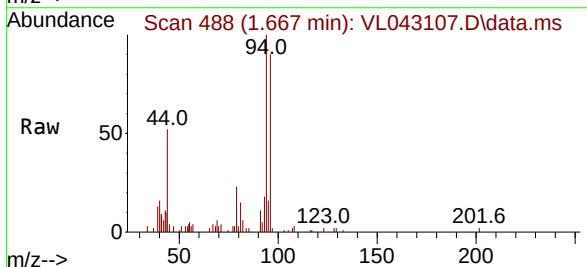
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

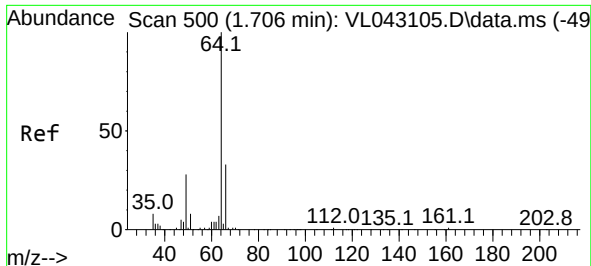
Tgt Ion: 62 Resp: 5694  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 24.6 36.8



#6  
 Bromomethane  
 Concen: 1.117 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Tgt Ion: 94 Resp: 3462  
 Ion Ratio Lower Upper  
 94 100  
 96 88.6 72.2 108.4

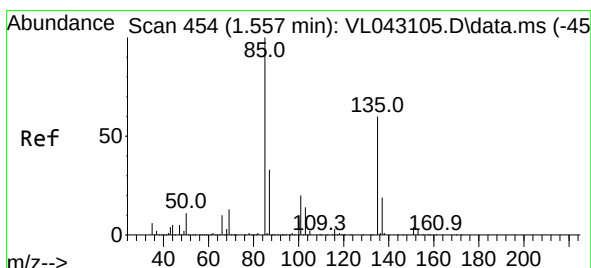
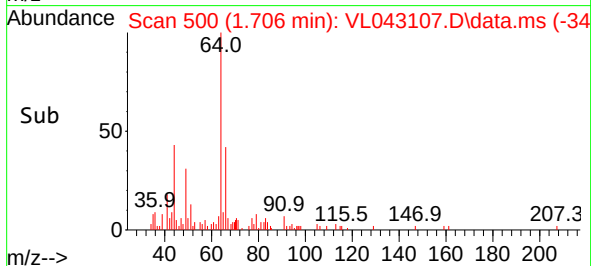
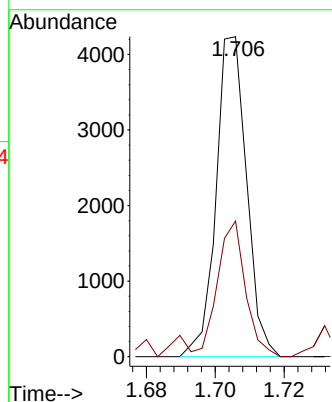
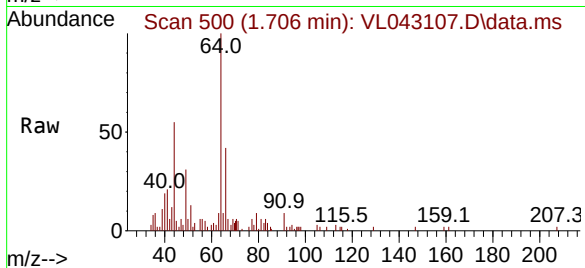




#7  
Chloroethane  
Concen: 1.132 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

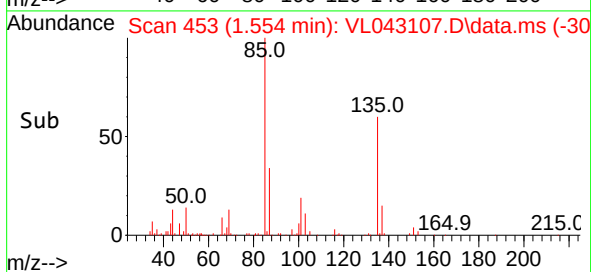
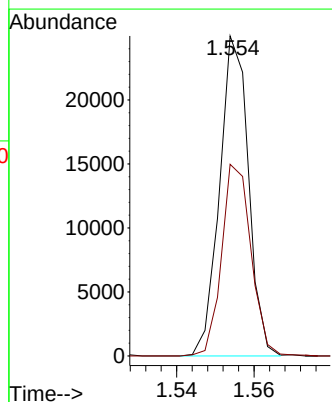
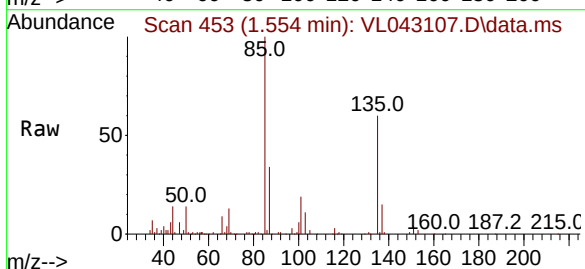
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

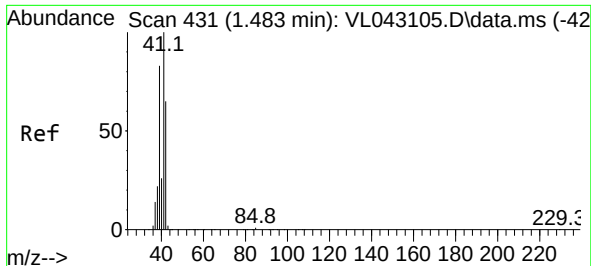
Tgt Ion: 64 Resp: 2615  
Ion Ratio Lower Upper  
64 100  
66 42.4 26.0 39.0#



#8  
Dichlorotetrafluoroethane  
Concen: 1.101 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 85 Resp: 12940  
Ion Ratio Lower Upper  
85 100  
135 61.5 48.2 72.4





#9

Propene

Concen: 1.045 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

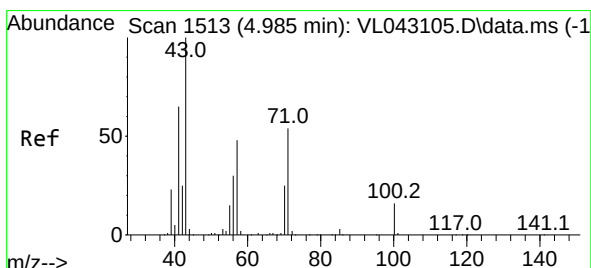
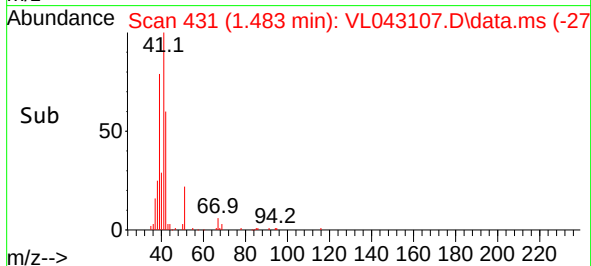
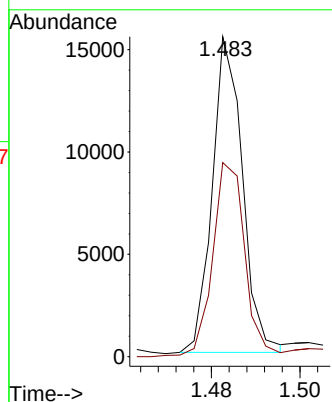
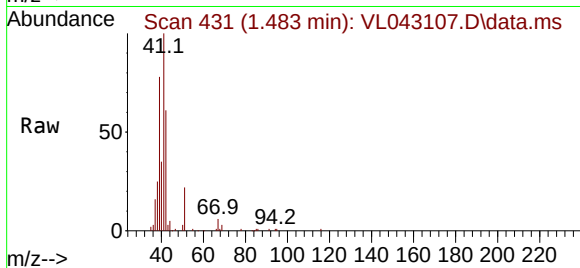
VSTDIC001

Tgt Ion: 41 Resp: 7291

Ion Ratio Lower Upper

41 100

42 68.5 55.1 82.7



#10

Heptane

Concen: 1.100 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043107.D

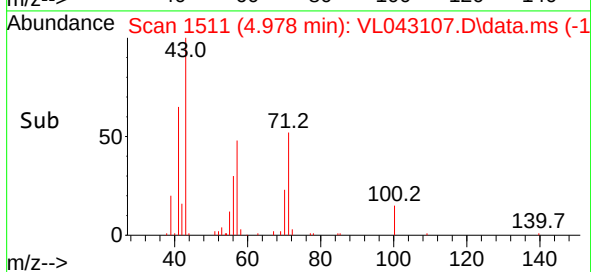
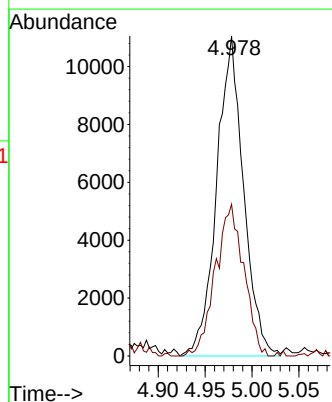
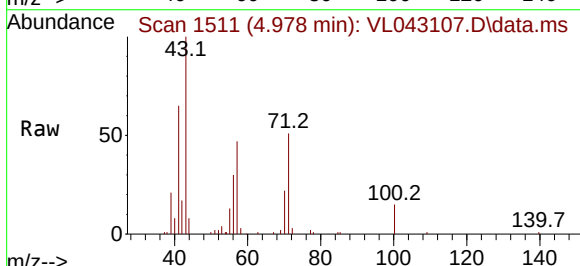
Acq: 14 Oct 2025 12:01

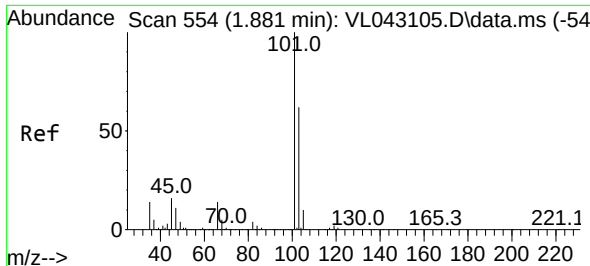
Tgt Ion: 43 Resp: 22011

Ion Ratio Lower Upper

43 100

57 50.4 40.8 61.2

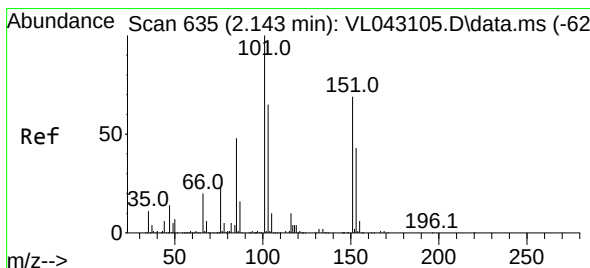
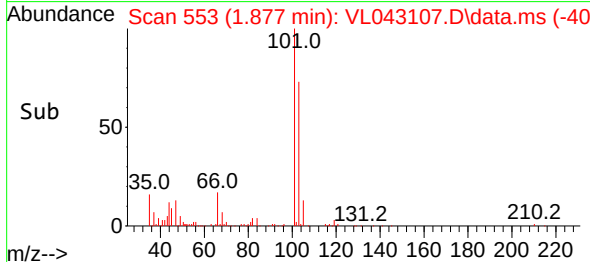
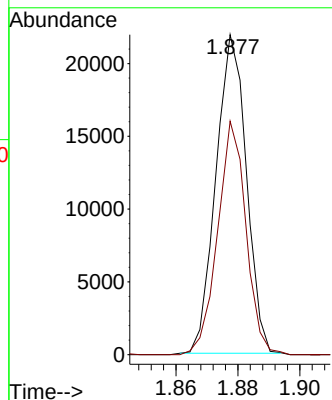
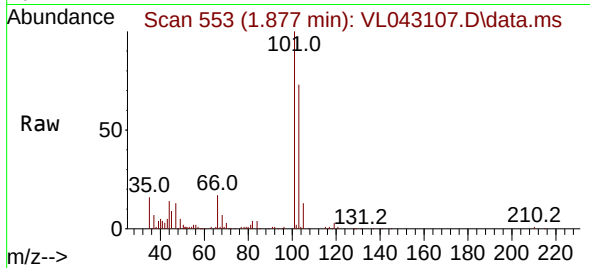




#11  
Trichlorofluoromethane  
Concen: 1.049 ppbv  
RT: 1.877 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

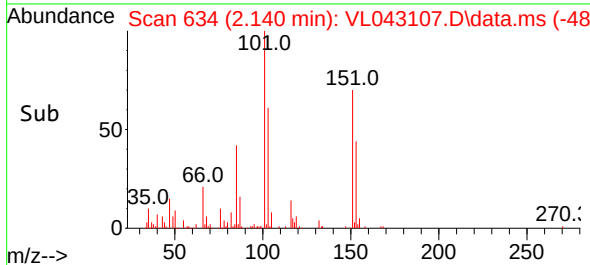
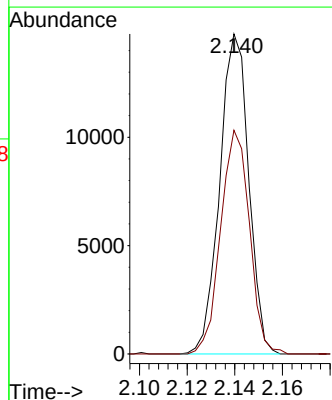
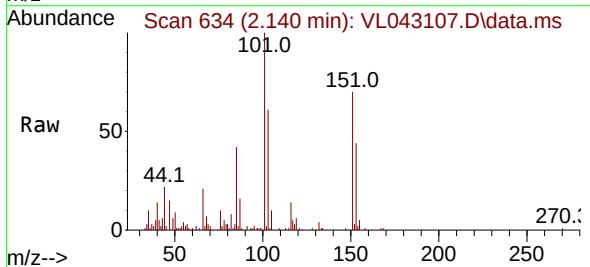
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

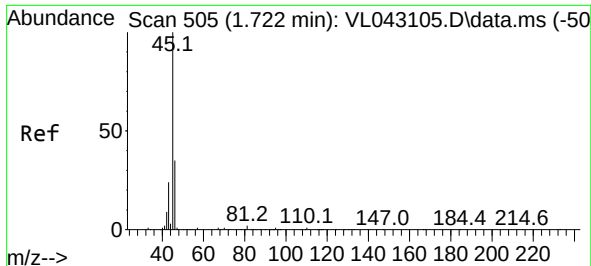
Tgt Ion:101 Resp: 14927  
Ion Ratio Lower Upper  
101 100  
103 73.3 49.3 73.9



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.090 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion:101 Resp: 12484  
Ion Ratio Lower Upper  
101 100  
151 69.5 54.7 82.1

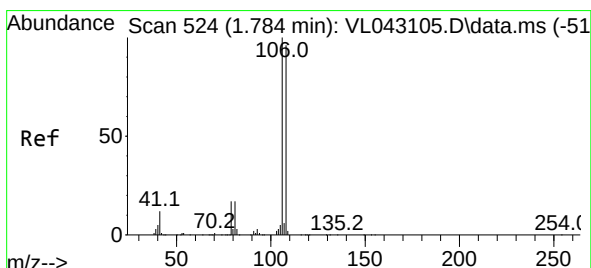
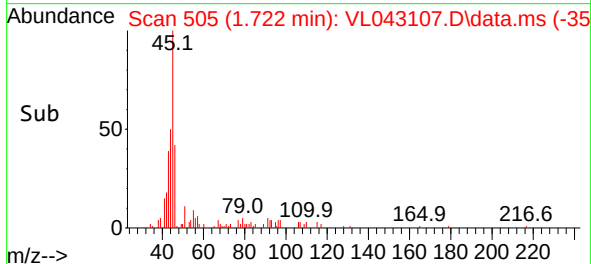
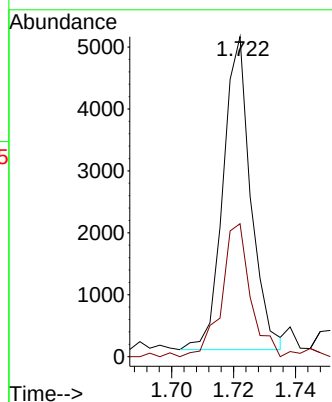
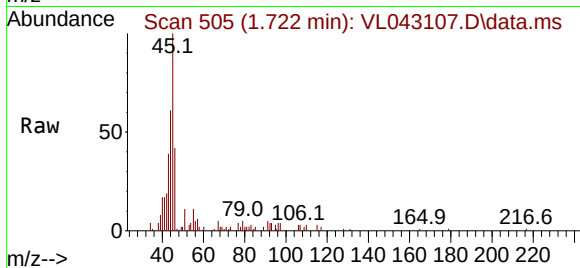




#13  
Ethanol  
Concen: 1.217 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

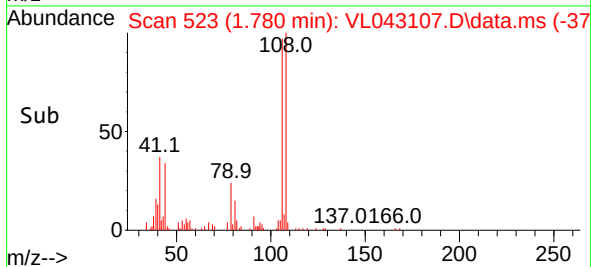
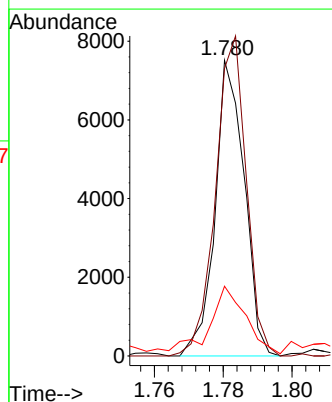
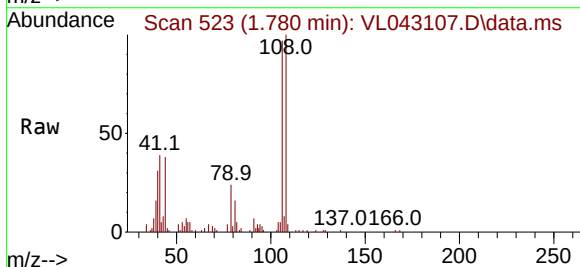
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

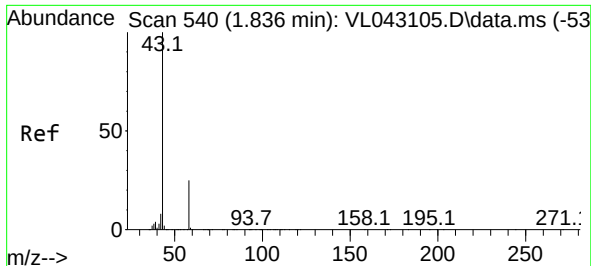
Tgt Ion: 45 Resp: 3143  
Ion Ratio Lower Upper  
45 100  
46 46.7 14.7 58.9



#14  
Bromoethene  
Concen: 1.043 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 108 Resp: 4440  
Ion Ratio Lower Upper  
108 100  
106 113.7 84.4 126.6  
79 28.9 15.3 22.9

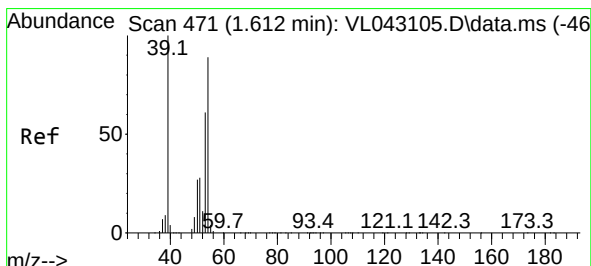
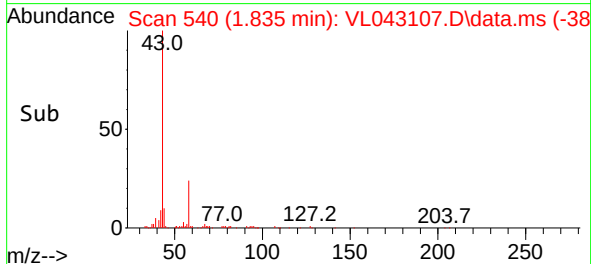
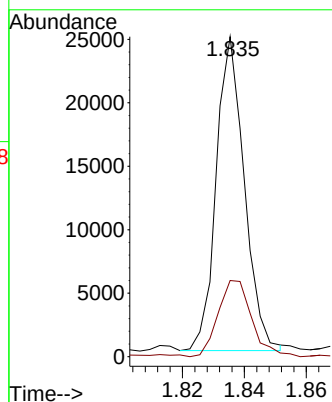
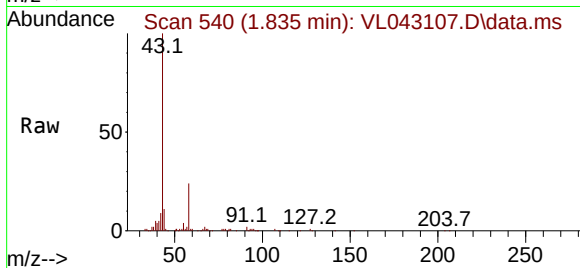




#15  
Acetone  
Concen: 1.123 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

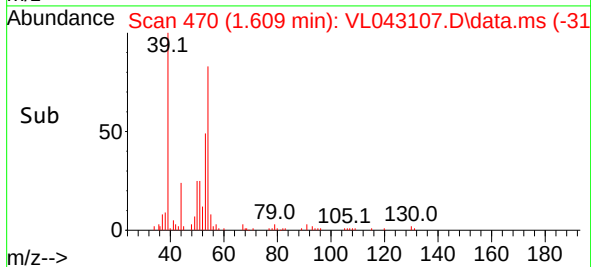
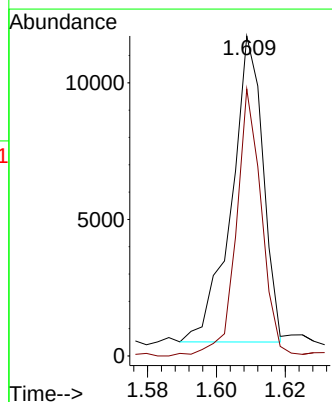
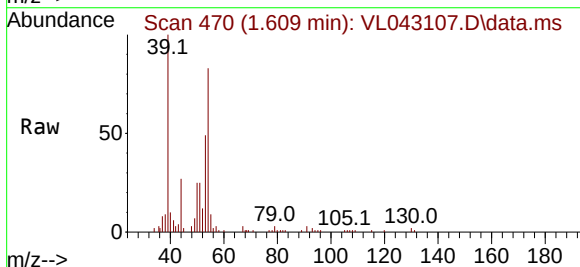
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

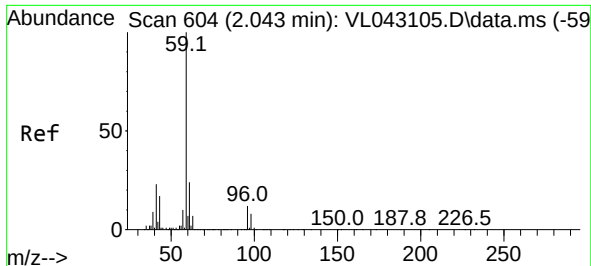
Tgt Ion: 43 Resp: 15572  
Ion Ratio Lower Upper  
43 100  
58 31.0 20.8 31.2



#16  
1,3-Butadiene  
Concen: 1.089 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 39 Resp: 7157  
Ion Ratio Lower Upper  
39 100  
54 70.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 1.106 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

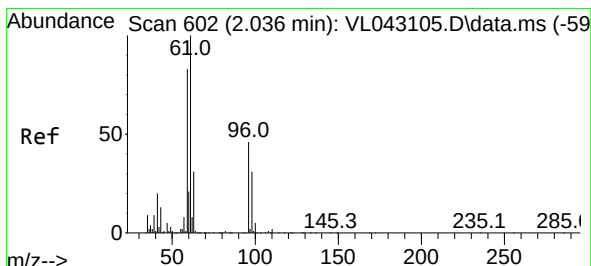
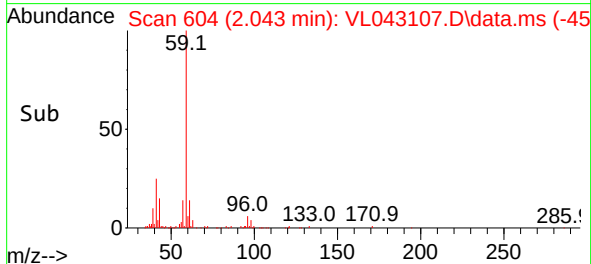
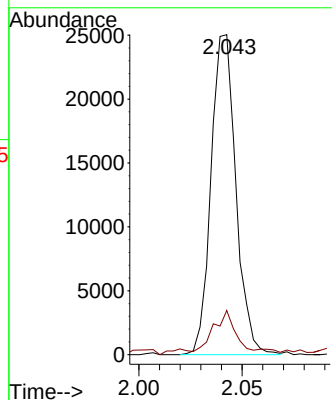
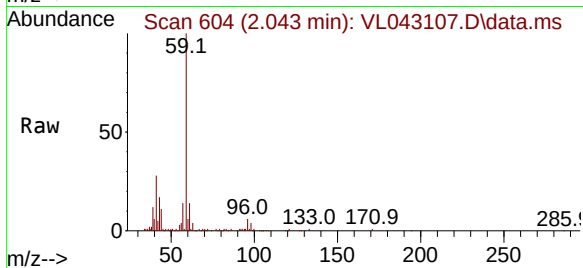
VSTDIC001

Tgt Ion: 59 Resp: 20941

Ion Ratio Lower Upper

59 100

57 14.0 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 1.103 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

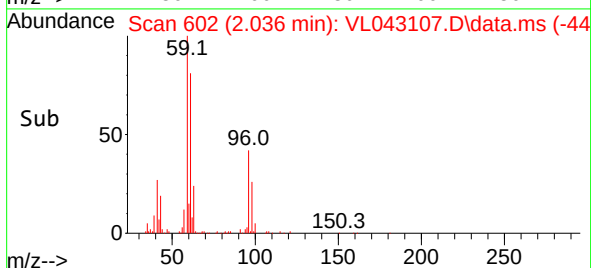
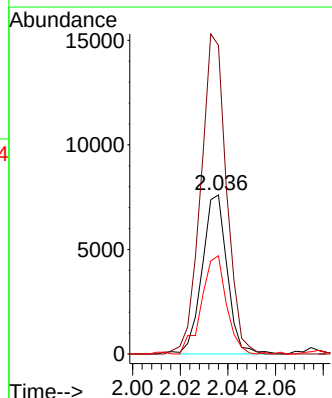
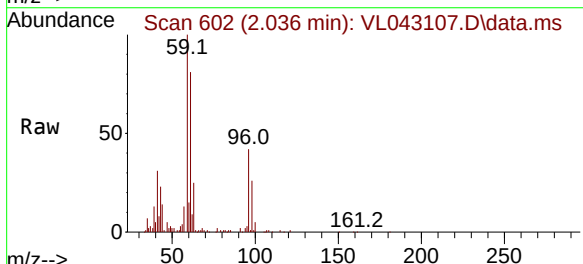
Tgt Ion: 96 Resp: 5510

Ion Ratio Lower Upper

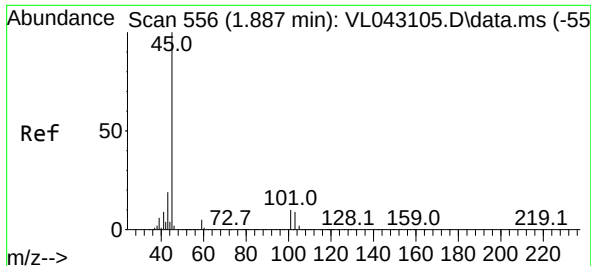
96 100

61 194.0 173.4 260.0

98 61.7 53.2 79.8



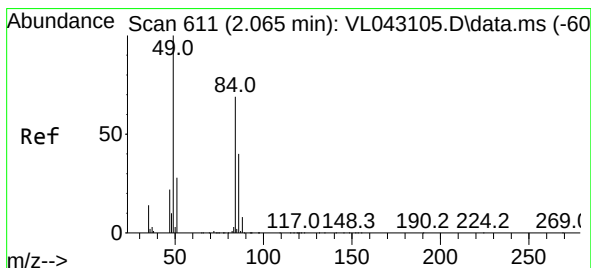
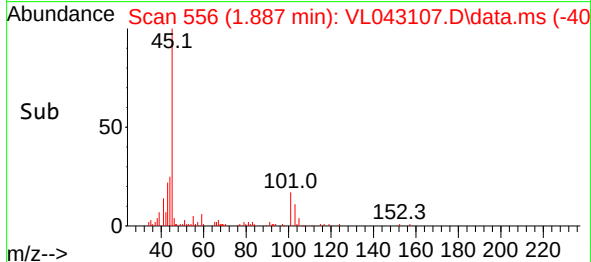
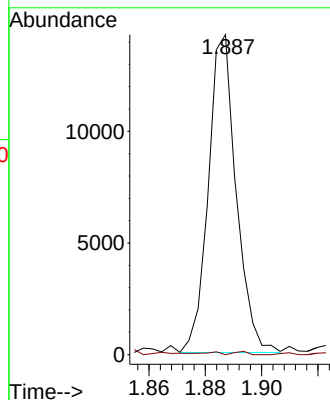
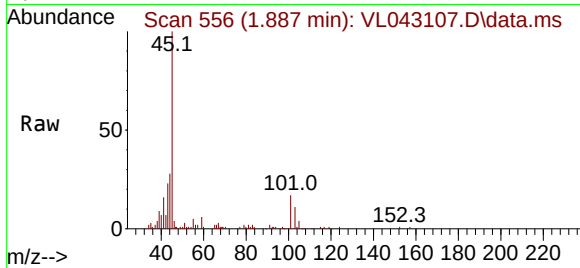




#19  
Isopropyl Alcohol  
Concen: 1.141 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

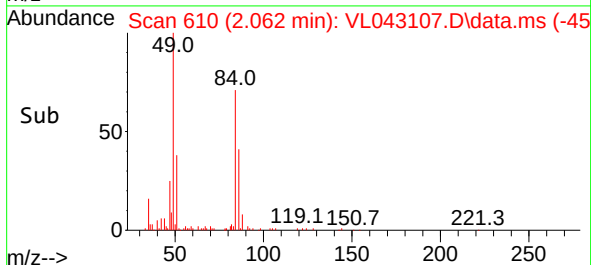
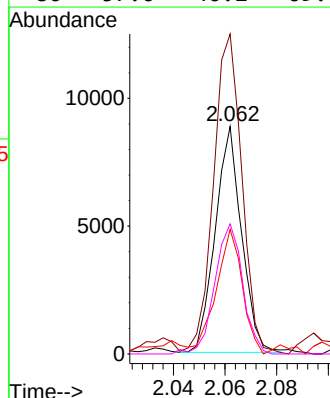
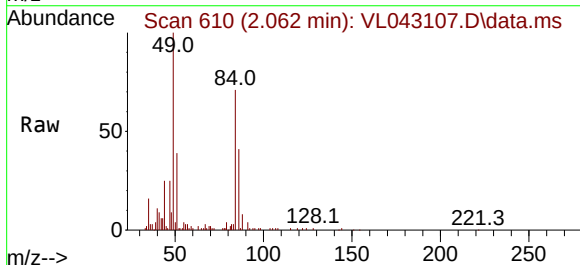
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

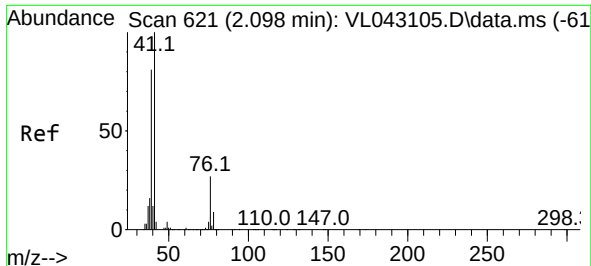
Tgt Ion: 45 Resp: 9796  
Ion Ratio Lower Upper  
45 100  
58 48.1 31.3 46.9#



#20  
Methylene Chloride  
Concen: 1.149 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 84 Resp: 6261  
Ion Ratio Lower Upper  
84 100  
49 140.9 116.6 175.0  
51 51.2 34.8 52.2  
86 57.6 46.2 69.4

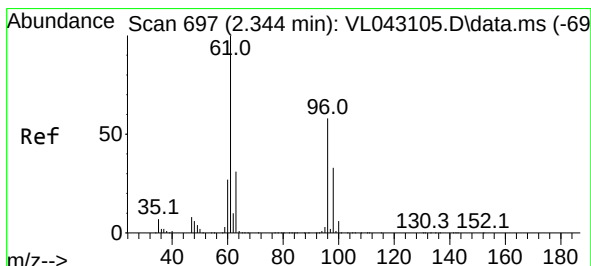
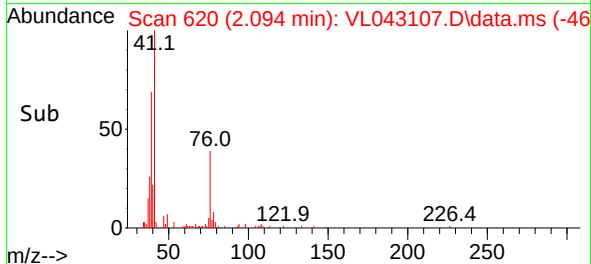
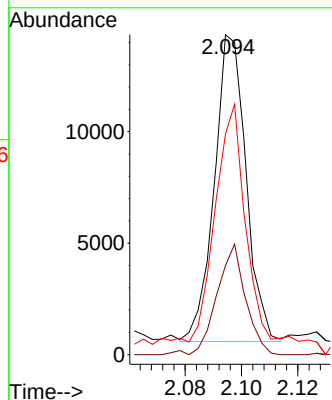
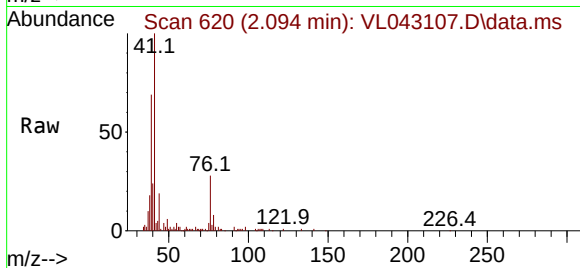




#21  
 Allyl Chloride  
 Concen: 1.055 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

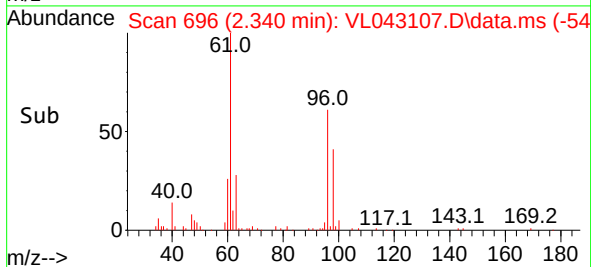
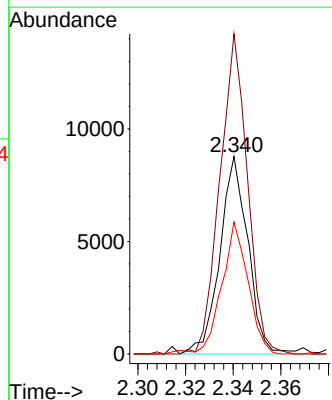
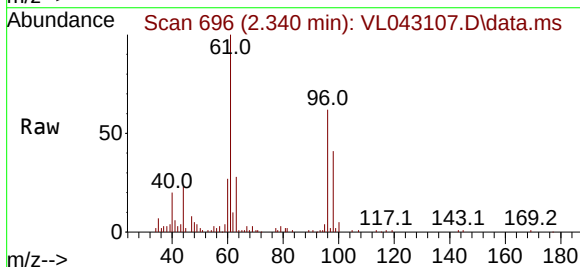
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

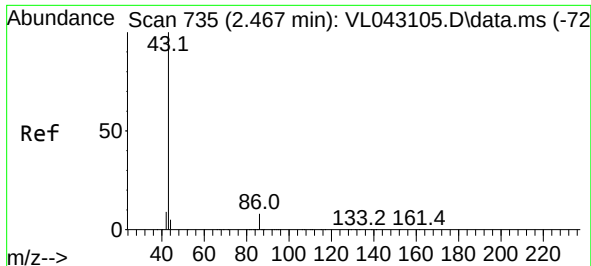
Tgt Ion: 41 Resp: 10737  
 Ion Ratio Lower Upper  
 41 100  
 76 32.6 21.5 32.3#  
 39 94.1 60.8 91.2#



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.193 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Tgt Ion: 96 Resp: 7119  
 Ion Ratio Lower Upper  
 96 100  
 61 162.1 137.0 205.6  
 98 66.9 45.5 68.3



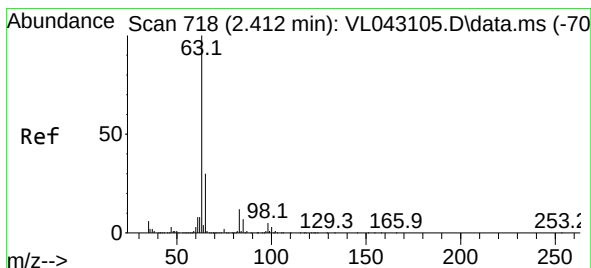
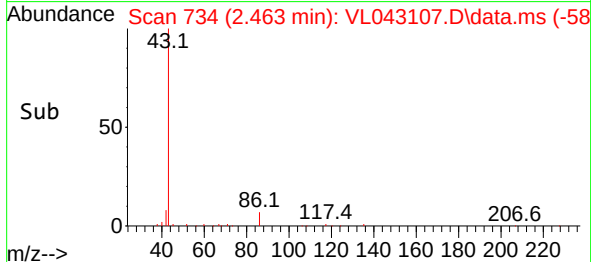
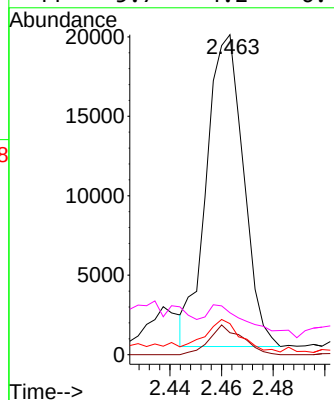
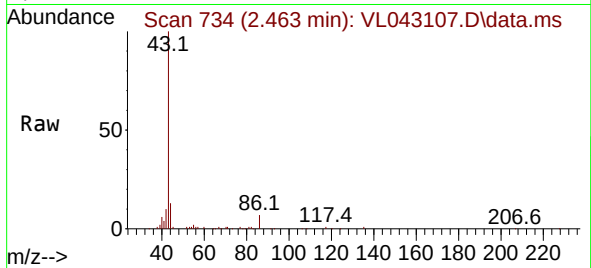


#23  
 Vinyl Acetate  
 Concen: 0.964 ppbv  
 RT: 2.463 min Scan# 716  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 43 Resp: 19477

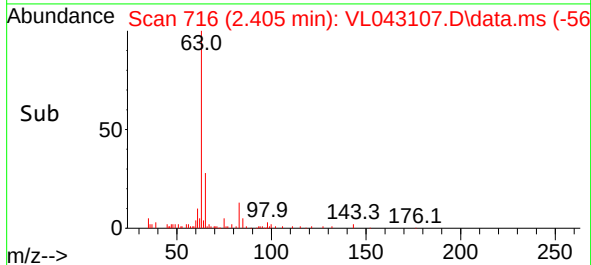
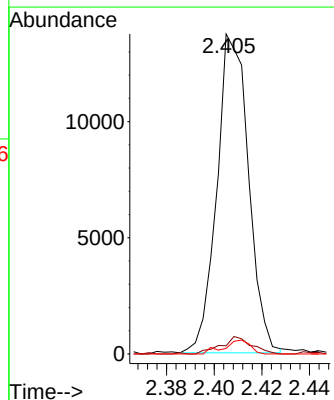
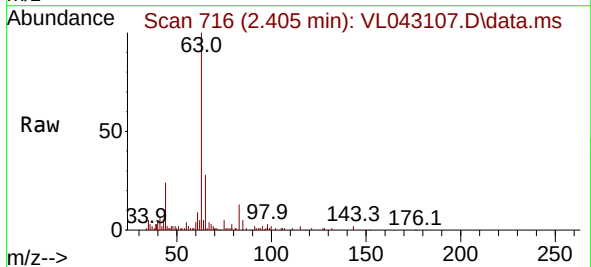
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.0   | 6.2   | 9.2   |
| 42  | 9.1   | 7.6   | 11.4  |
| 44  | 5.7   | 4.2   | 6.4   |

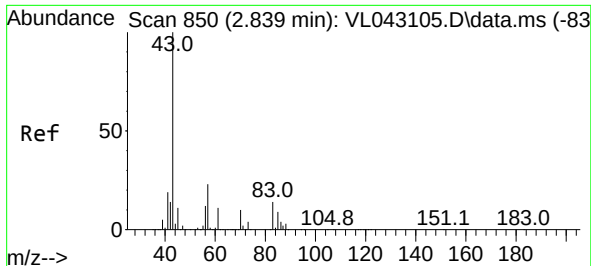


#24  
 1,1-Dichloroethane  
 Concen: 1.097 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.007 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Tgt Ion: 63 Resp: 12656

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 2.6   | 2.6   | 7.8#  |
| 100 | 1.7   | 1.5   | 4.4   |





#25

Ethyl Acetate

Concen: 1.085 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 37093

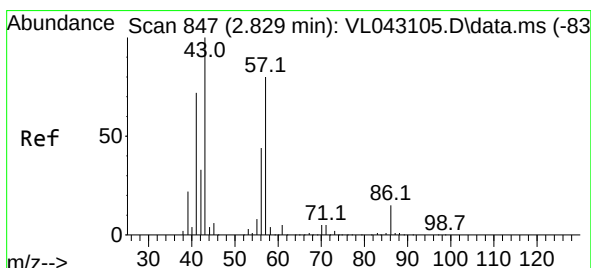
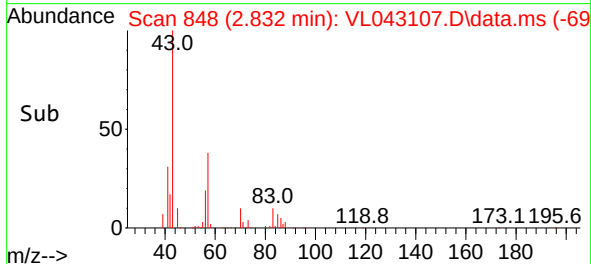
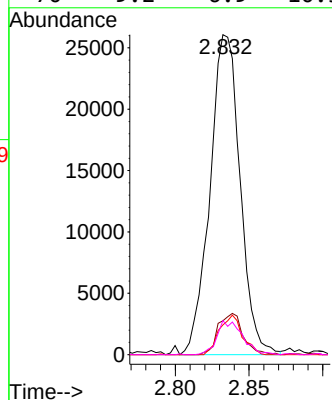
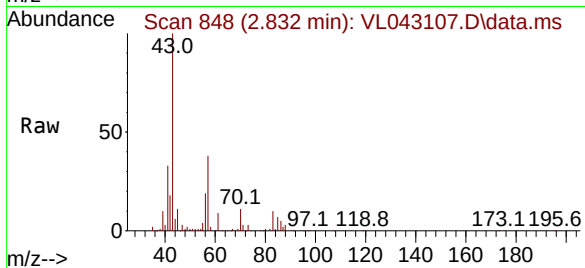
Ion Ratio Lower Upper

43 100

45 10.8 7.8 11.8

61 9.4 7.0 10.6

70 9.2 6.9 10.3



#26

Hexane

Concen: 1.089 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 17152

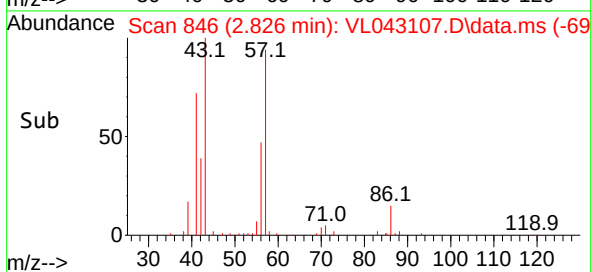
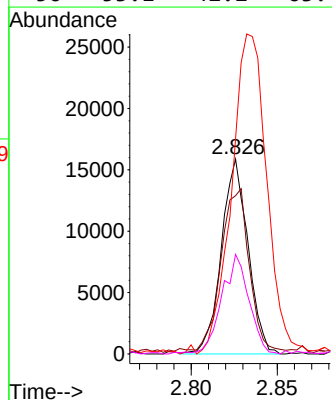
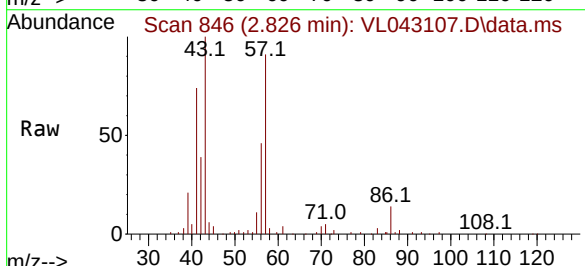
Ion Ratio Lower Upper

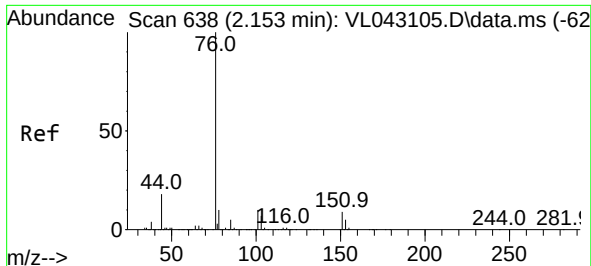
57 100

41 91.8 71.4 107.0

43 219.3 178.5 267.7

56 53.1 42.2 63.4

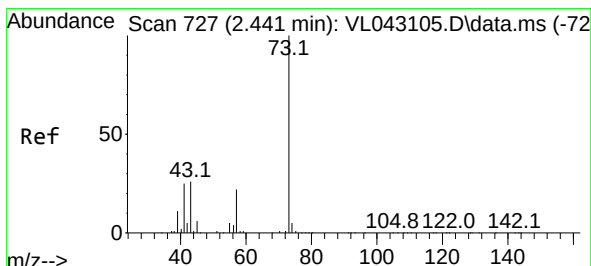
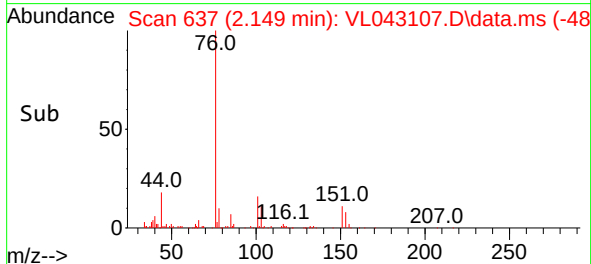
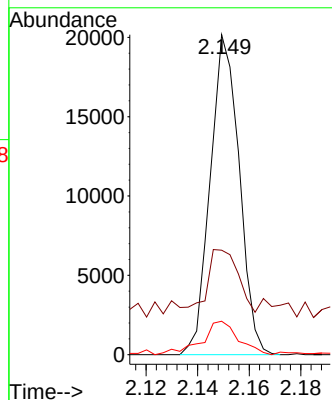
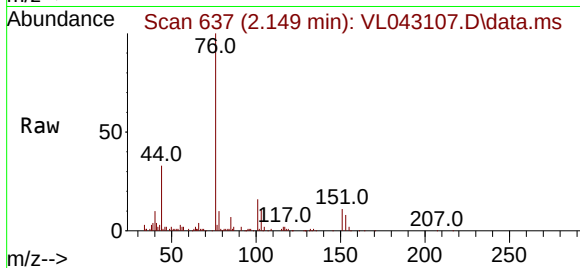




#27  
Carbon Disulfide  
Concen: 1.092 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

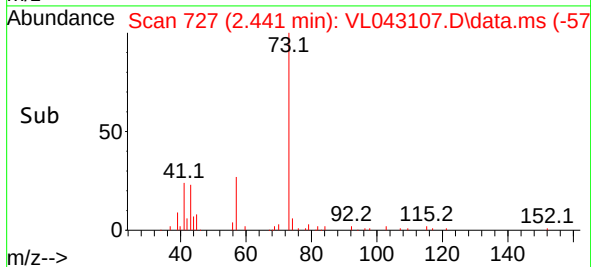
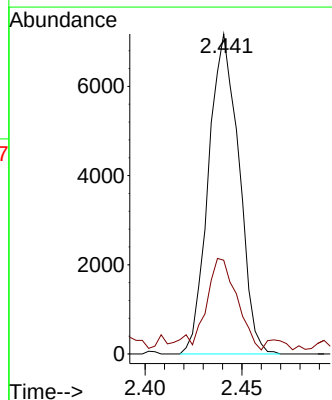
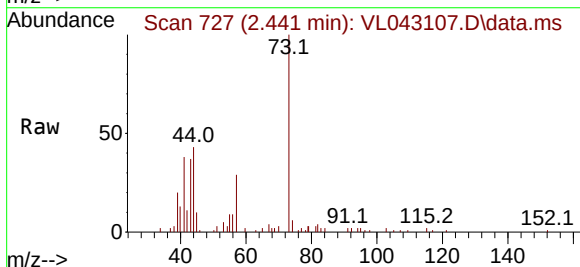
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

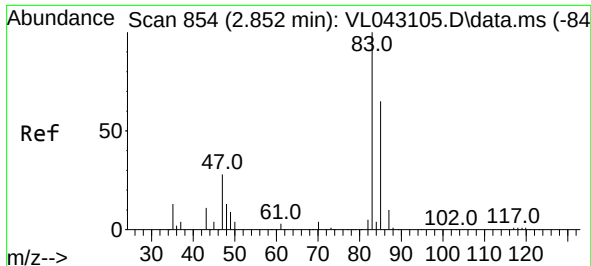
Tgt Ion: 76 Resp: 15760  
Ion Ratio Lower Upper  
76 100  
44 47.9 16.7 25.1#  
78 14.2 9.3 13.9#



#28  
Methyl tert-Butyl Ether  
Concen: 1.095 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 73 Resp: 7847  
Ion Ratio Lower Upper  
73 100  
57 32.3 20.5 30.7#





#29

Chloroform

Concen: 1.074 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

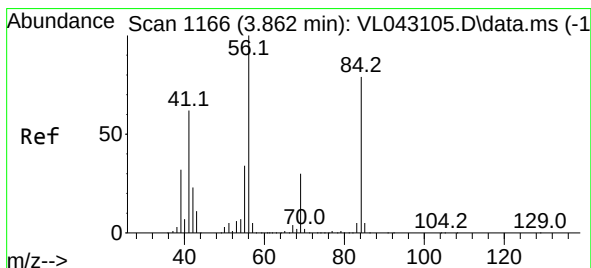
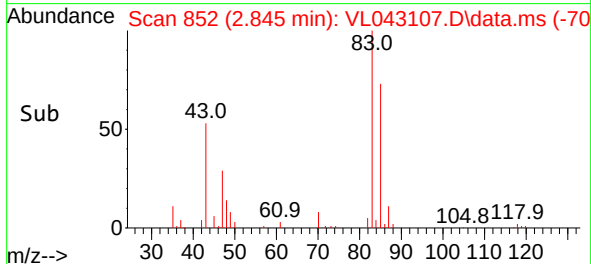
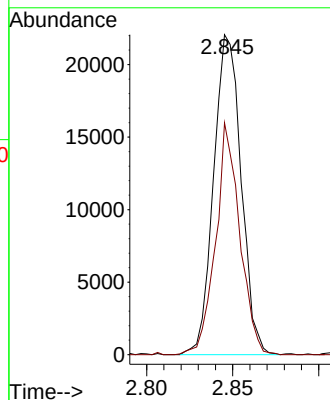
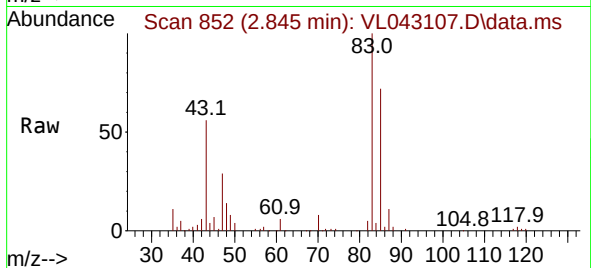
VSTDIC001

Tgt Ion: 83 Resp: 24527

Ion Ratio Lower Upper

83 100

85 72.4 51.8 77.6



#30

Cyclohexane

Concen: 1.078 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

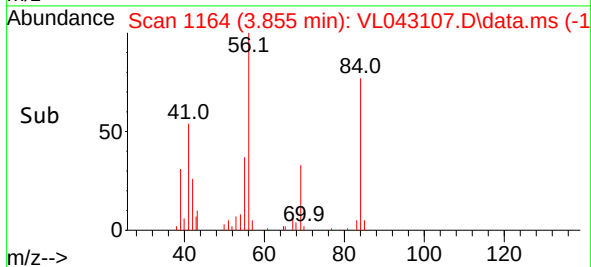
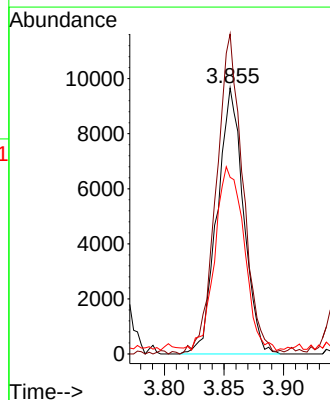
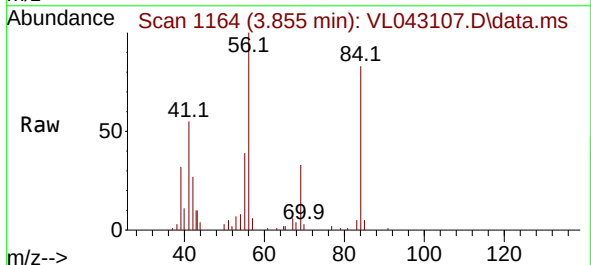
Tgt Ion: 84 Resp: 14819

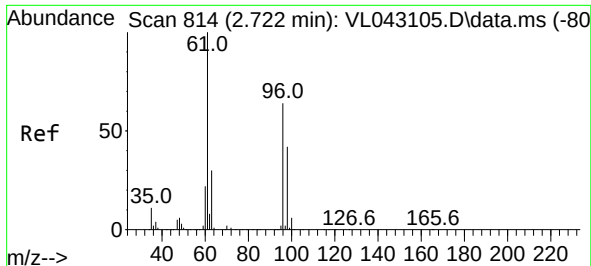
Ion Ratio Lower Upper

84 100

56 122.3 100.9 151.3

41 78.1 63.8 95.6

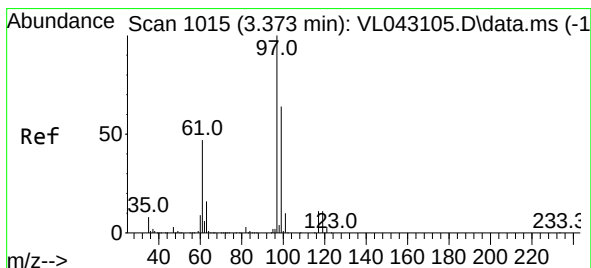
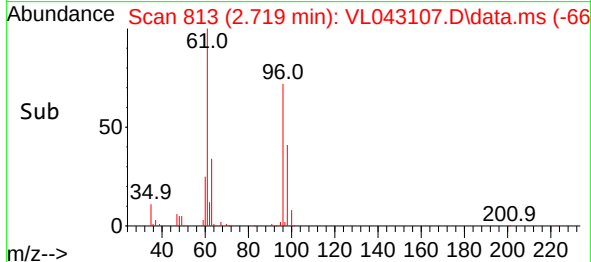
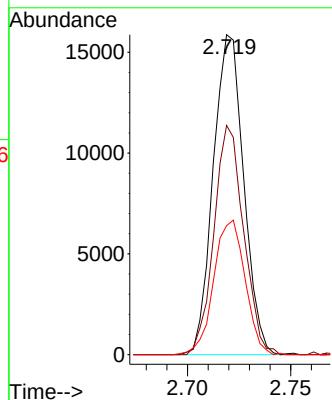
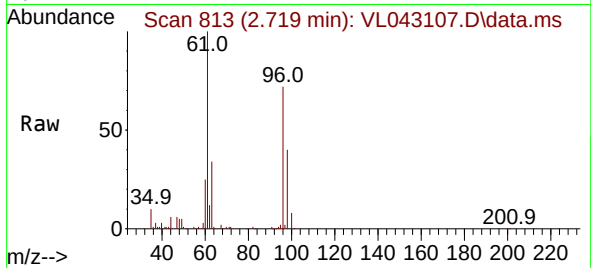




#31  
cis-1,2-Dichloroethene  
Concen: 1.084 ppbv  
RT: 2.719 min Scan# 814  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

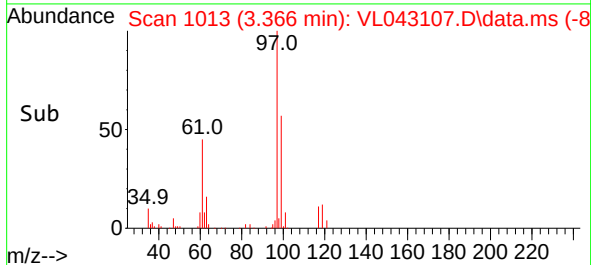
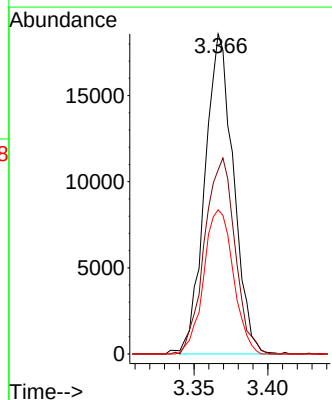
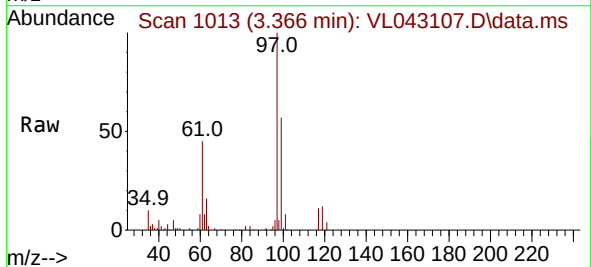
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

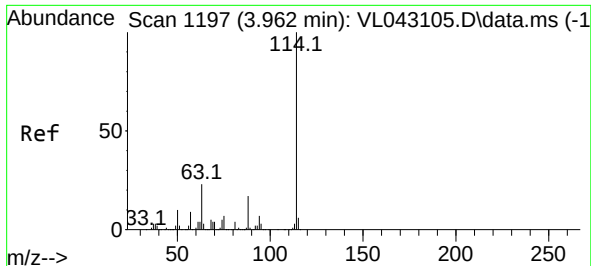
Tgt Ion: 61 Resp: 16311  
Ion Ratio Lower Upper  
61 100  
96 71.6 51.0 76.6  
98 39.9 33.5 50.3



#32  
1,1,1-Trichloroethane  
Concen: 1.049 ppbv  
RT: 3.366 min Scan# 1013  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 97 Resp: 24948  
Ion Ratio Lower Upper  
97 100  
99 65.4 51.3 76.9  
61 46.8 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC001

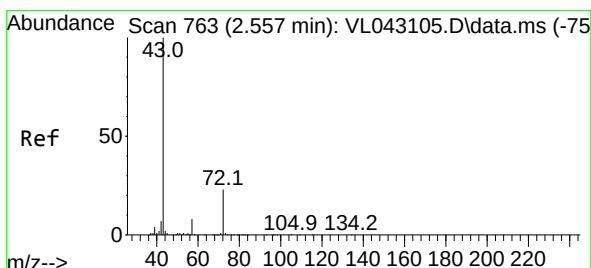
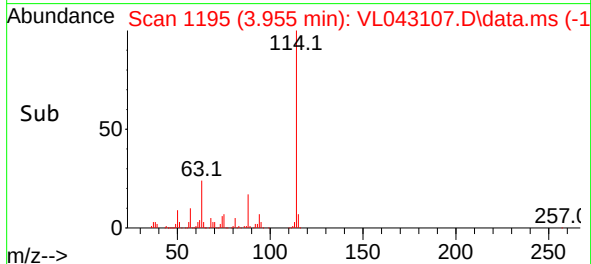
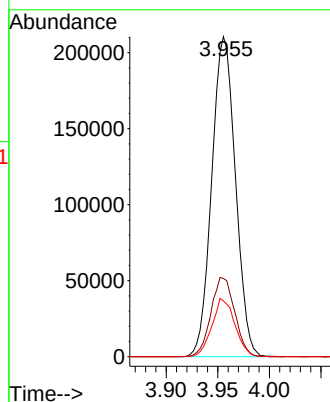
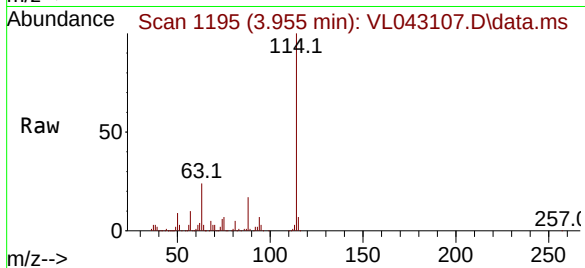
Tgt Ion:114 Resp: 336268

Ion Ratio Lower Upper

114 100

63 24.8 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 1.047 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043107.D

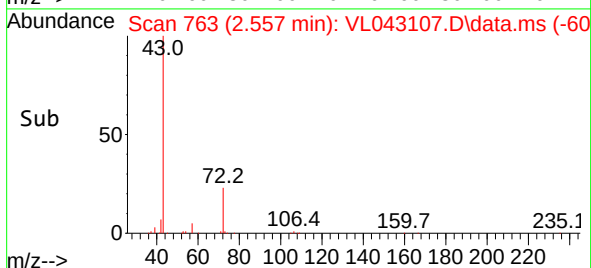
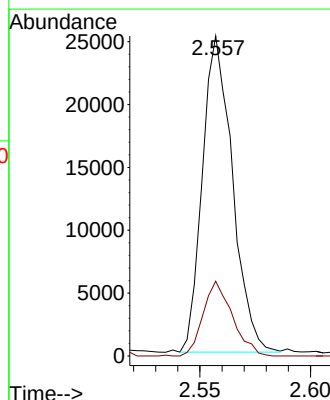
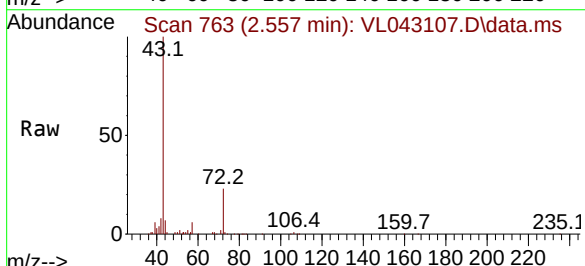
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 23811

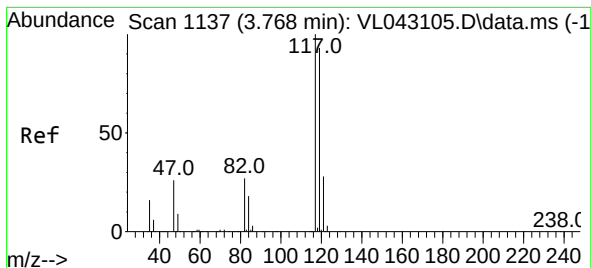
Ion Ratio Lower Upper

43 100

72 23.0 18.4 27.6







#35

Carbon Tetrachloride

Concen: 1.033 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

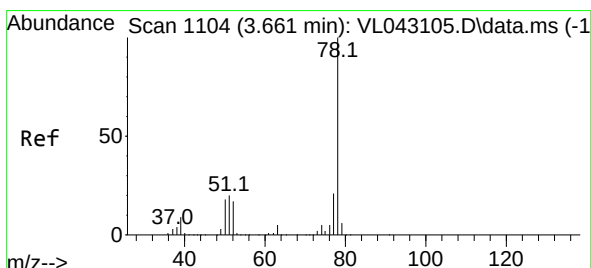
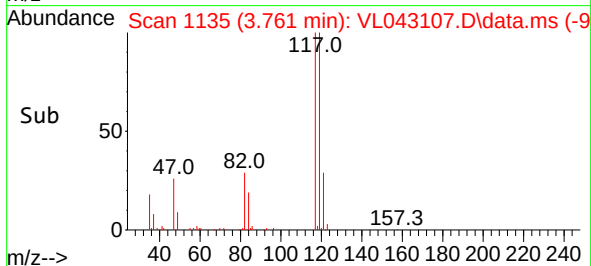
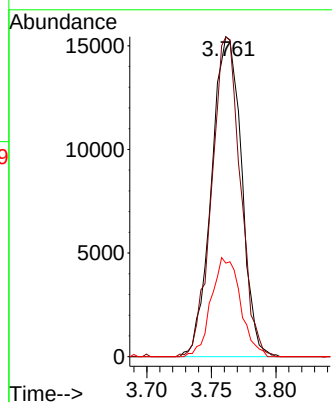
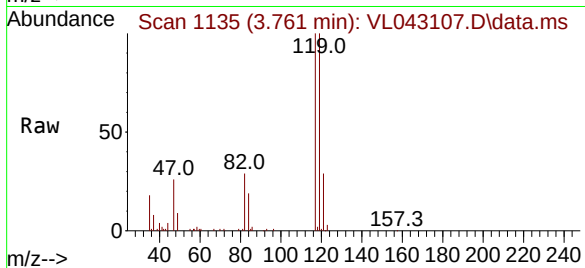
Tgt Ion: 117 Resp: 24969

Ion Ratio Lower Upper

117 100

119 99.8 74.1 111.1

121 29.3 22.2 33.2



#36

Benzene

Concen: 1.040 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

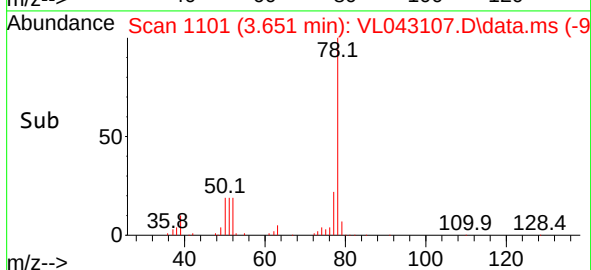
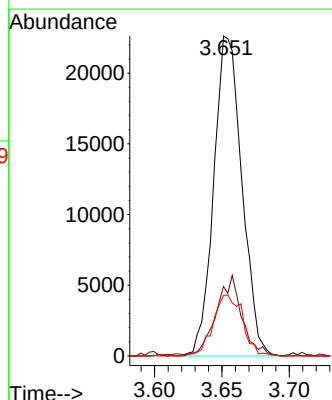
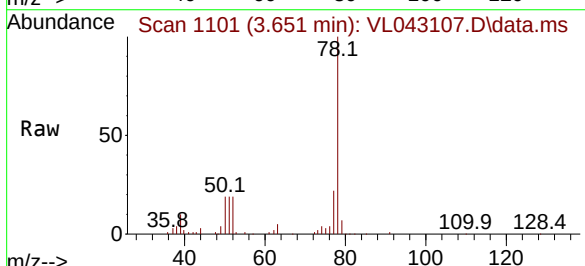
Tgt Ion: 78 Resp: 32940

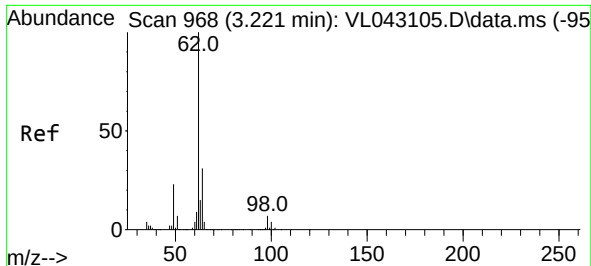
Ion Ratio Lower Upper

78 100

77 21.7 17.0 25.6

50 18.9 14.6 22.0

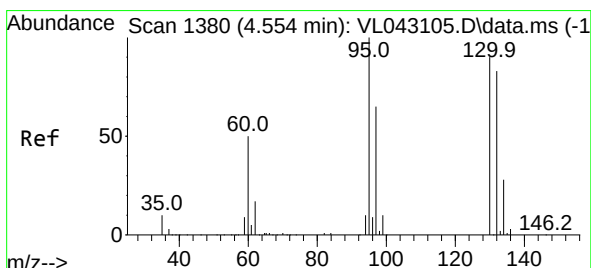
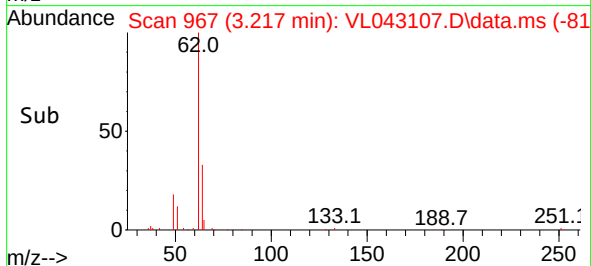
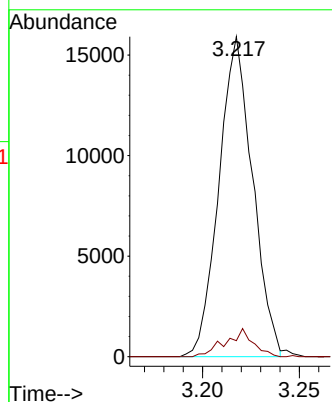
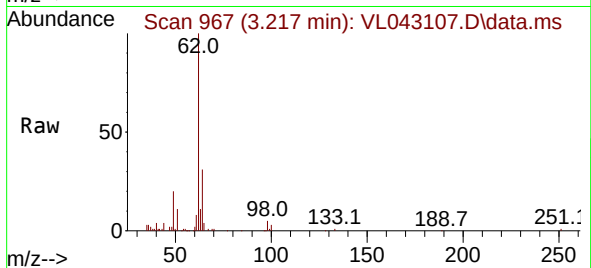




#37  
1,2-Dichloroethane  
Concen: 1.053 ppbv  
RT: 3.217 min Scan# 91  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

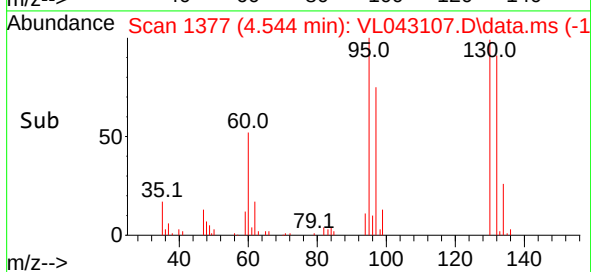
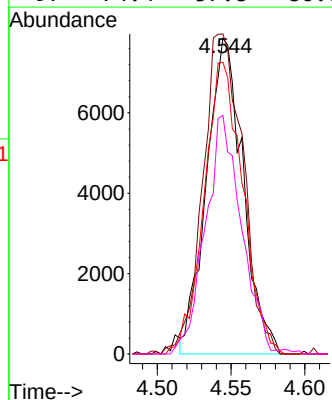
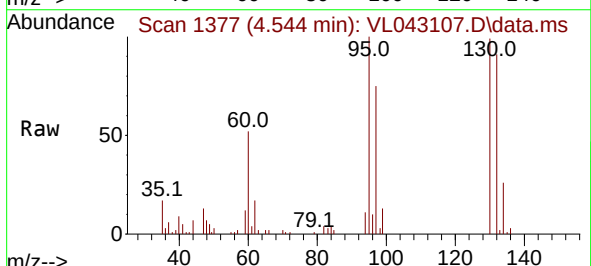
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

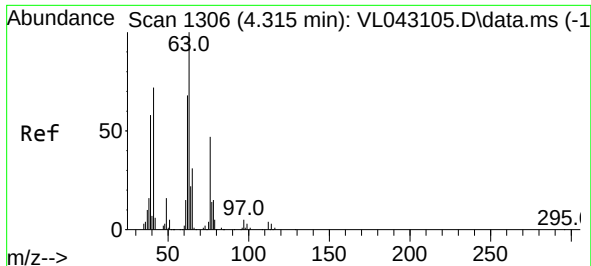
Tgt Ion: 62 Resp: 19213  
Ion Ratio Lower Upper  
62 100  
98 7.2 5.8 8.6



#38  
Trichloroethene  
Concen: 1.023 ppbv  
RT: 4.544 min Scan# 1377  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion:130 Resp: 13512  
Ion Ratio Lower Upper  
130 100  
95 101.4 88.6 133.0  
132 91.5 73.4 110.0  
97 74.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 1.073 ppbv

RT: 4.311 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

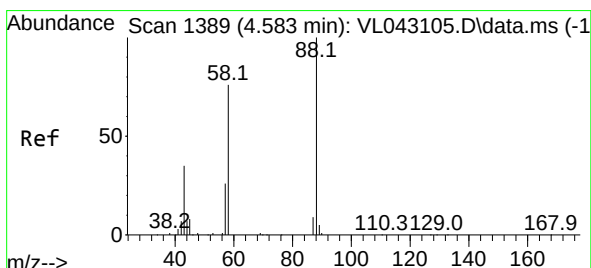
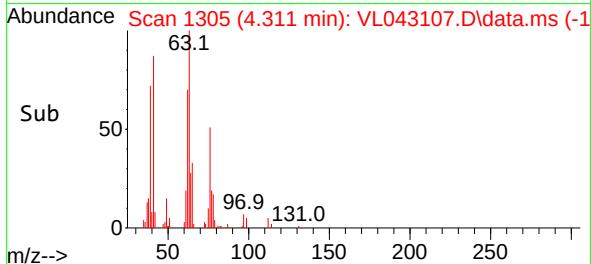
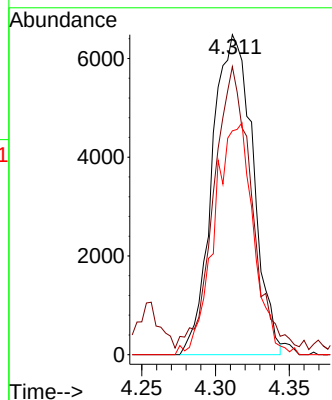
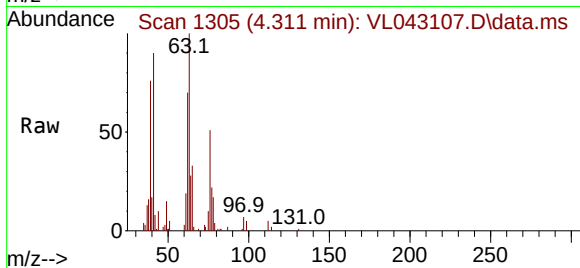
Tgt Ion: 63 Resp: 12435

Ion Ratio Lower Upper

63 100

41 84.3 58.0 87.0

62 67.2 54.7 82.1



#40

1,4-Dioxane

Concen: 0.622 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.009 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Tgt Ion: 88 Resp: 3225

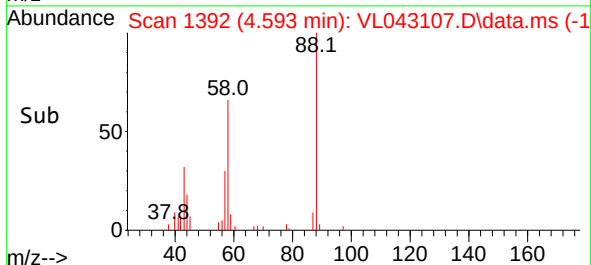
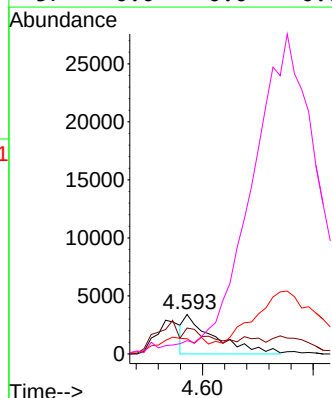
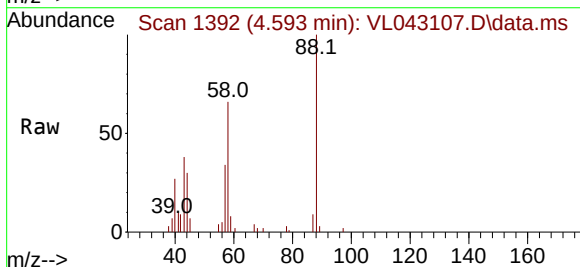
Ion Ratio Lower Upper

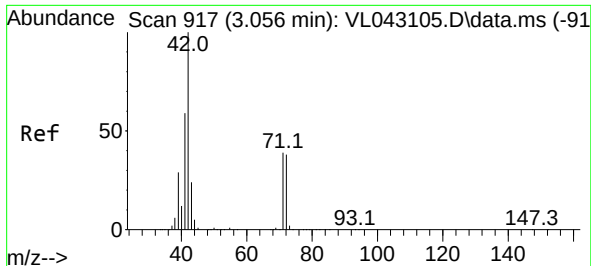
88 100

58 0.0 61.1 91.7#

43 0.0 24.0 36.0#

57 0.0 0.0 0.0

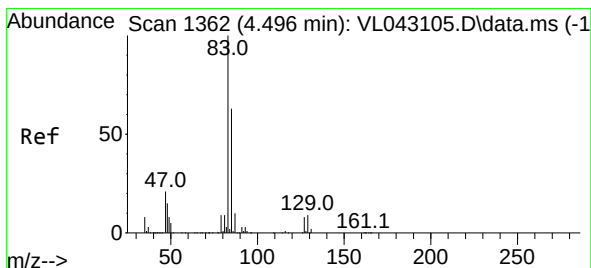
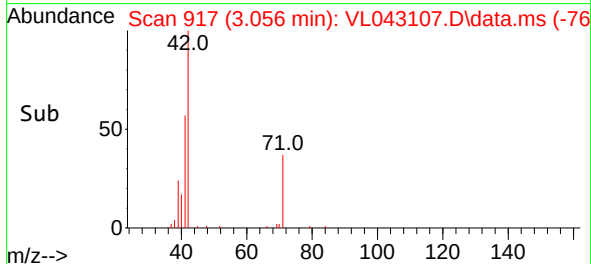
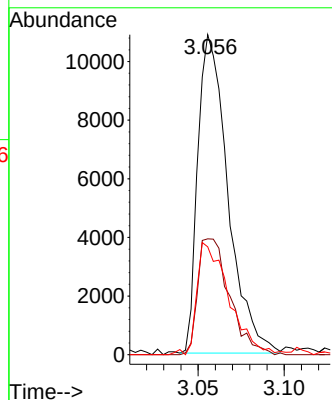
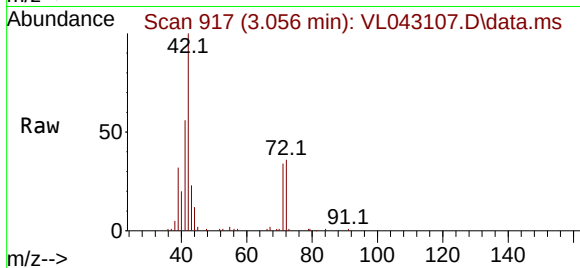




#41  
Tetrahydrofuran  
Concen: 1.044 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. -0.000 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

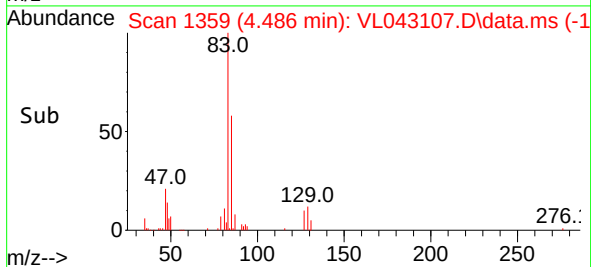
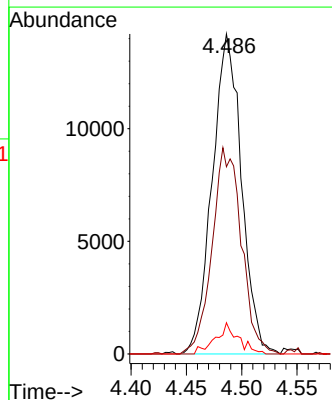
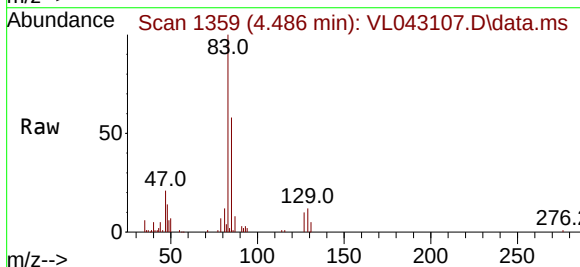
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

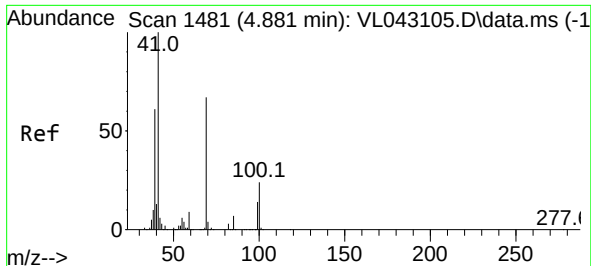
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 13251 |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 38.1  | 31.3  | 46.9  |
| 71       | 38.6  | 30.4  | 45.6  |



#42  
Bromodichloromethane  
Concen: 1.032 ppbv  
RT: 4.486 min Scan# 1359  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 26069 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 58.5  | 50.6  | 75.8  |
| 127      | 9.8   | 6.3   | 9.5   |

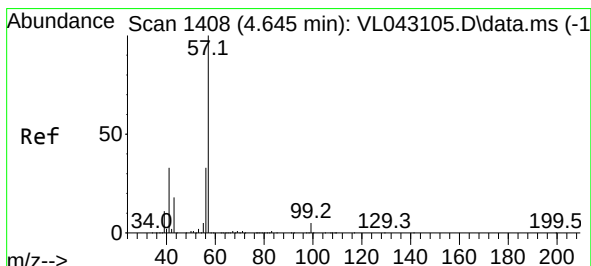
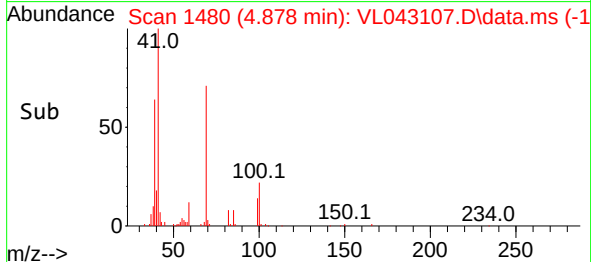
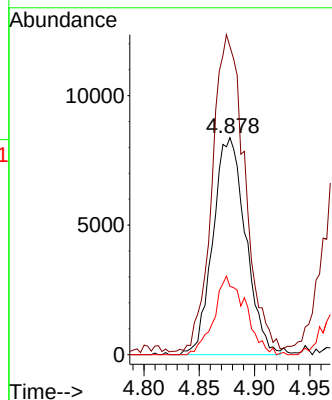
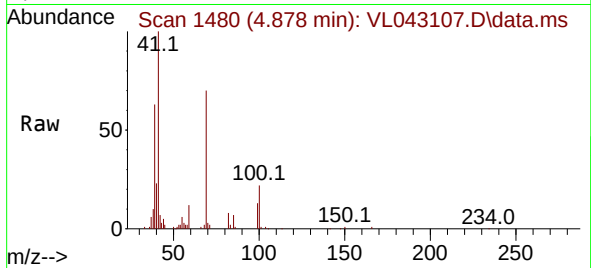




#43  
Methyl Methacrylate  
Concen: 1.064 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

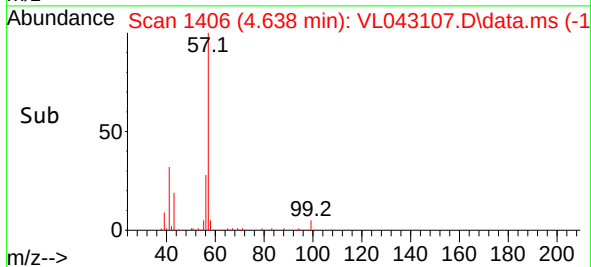
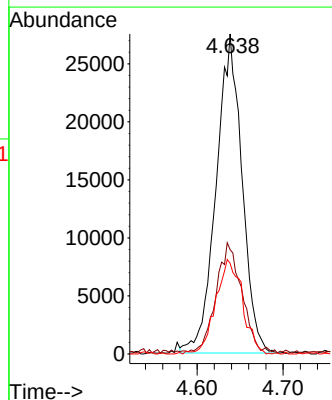
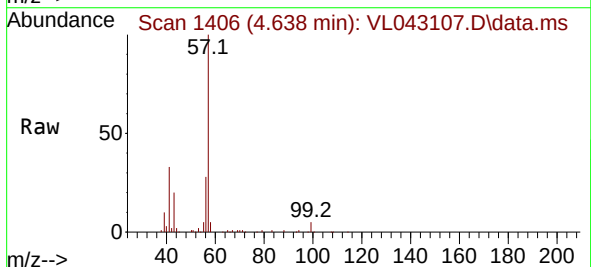
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC001

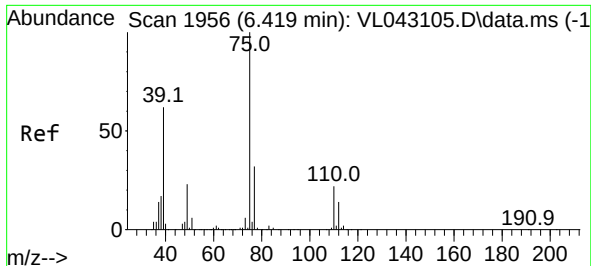
Tgt Ion: 69 Resp: 17195  
Ion Ratio Lower Upper  
69 100  
41 145.9 120.5 180.7  
100 35.0 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 1.084 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 57 Resp: 57382  
Ion Ratio Lower Upper  
57 100  
41 35.4 26.3 39.5  
56 30.7 25.9 38.9

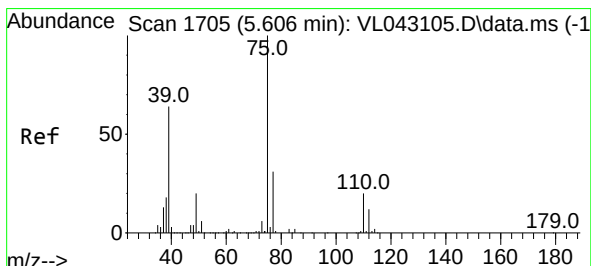
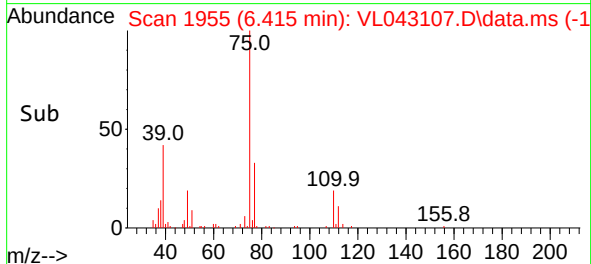
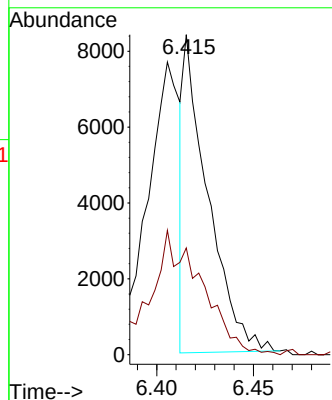
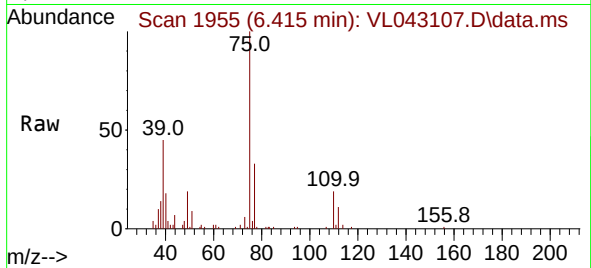




#45  
t-1,3-Dichloropropene  
Concen: 0.452 ppbv  
RT: 6.415 min Scan# 1956  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

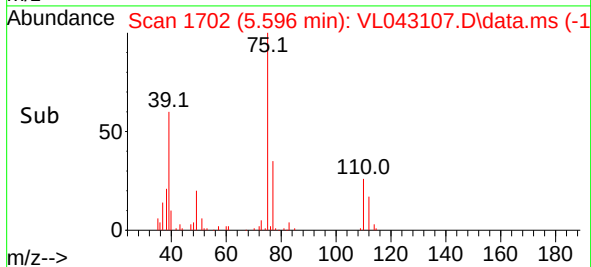
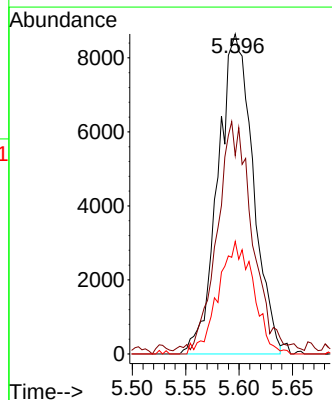
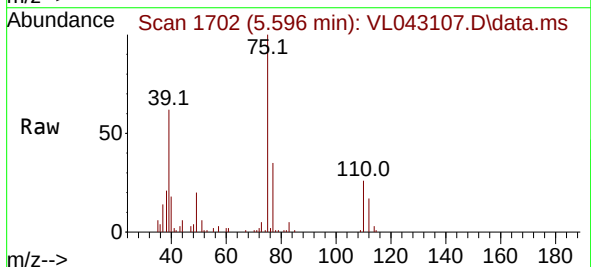
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

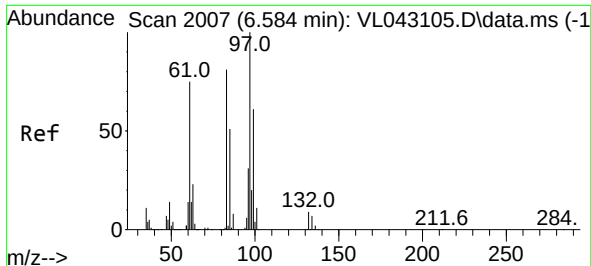
Tgt Ion: 75 Resp: 7304  
Ion Ratio Lower Upper  
75 100  
77 33.4 25.4 38.2



#46  
cis-1,3-Dichloropropene  
Concen: 1.029 ppbv  
RT: 5.596 min Scan# 1702  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 75 Resp: 19830  
Ion Ratio Lower Upper  
75 100  
39 59.6 51.0 76.6  
77 35.1 25.0 37.4

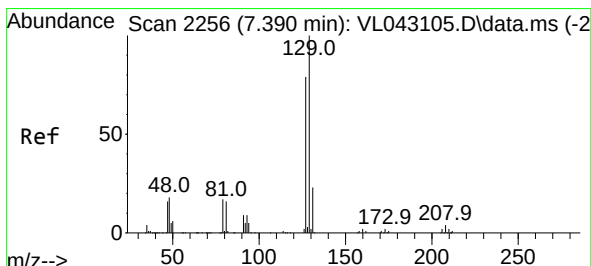
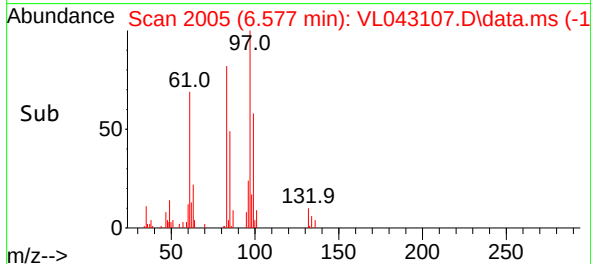
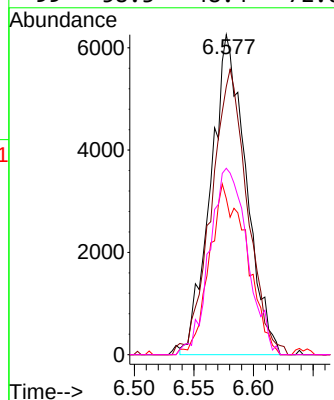
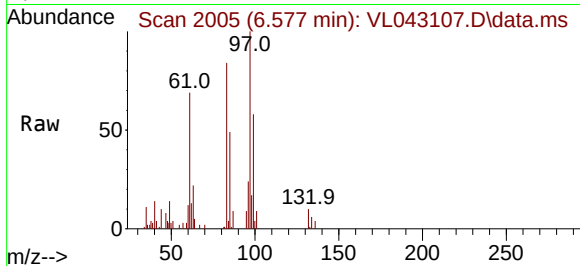




#47  
1,1,2-Trichloroethane  
Concen: 1.030 ppbv  
RT: 6.577 min Scan# 2005  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

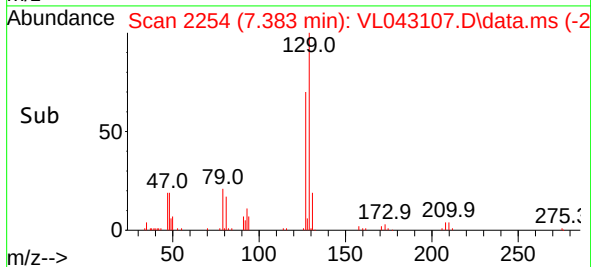
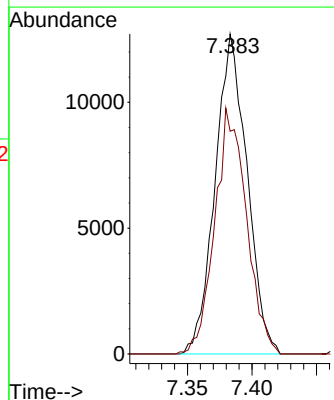
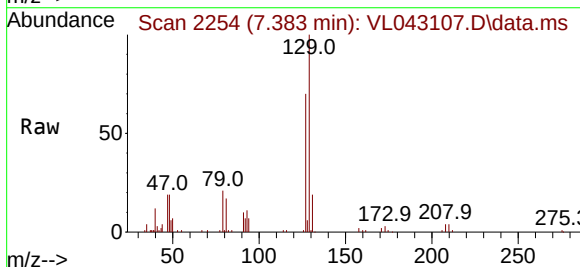
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

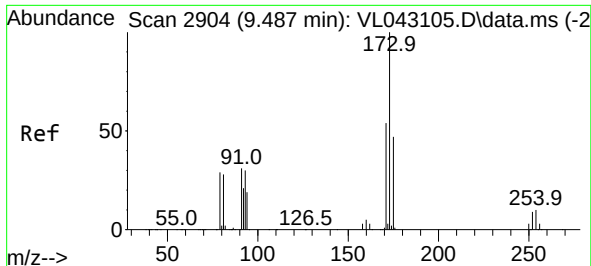
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 97 | Resp: | 12876 |       |
| Ion         | Ratio | Lower | Upper |
| 97          | 100   |       |       |
| 83          | 80.9  | 64.6  | 96.8  |
| 85          | 48.8  | 40.6  | 60.8  |
| 99          | 58.3  | 48.4  | 72.6  |



#48  
Dibromochloromethane  
Concen: 1.046 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 21874 |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 76.1  | 39.3  | 117.9 |

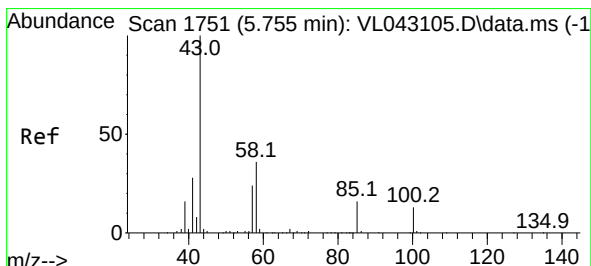
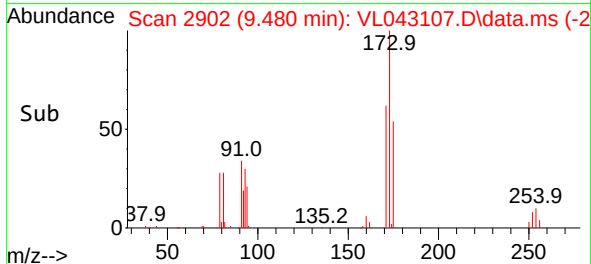
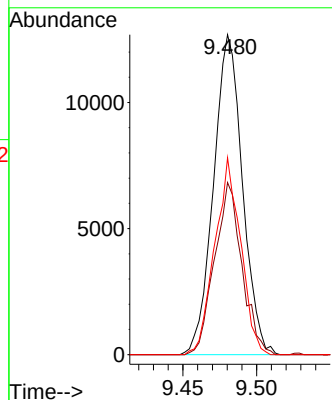
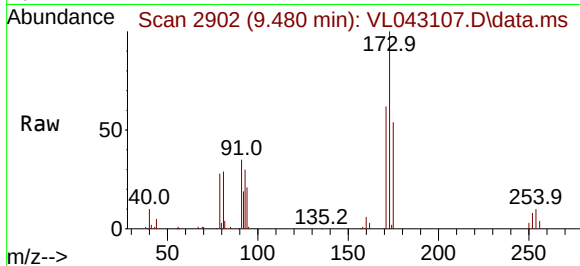




#49  
Bromoform  
Concen: 1.019 ppbv  
RT: 9.480 min Scan# 2904  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

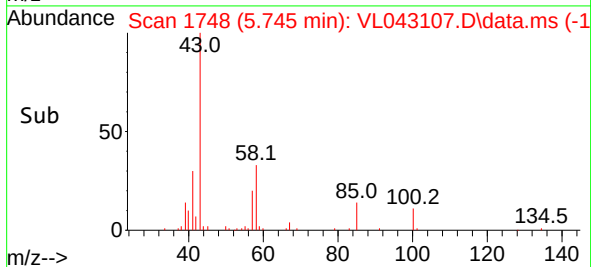
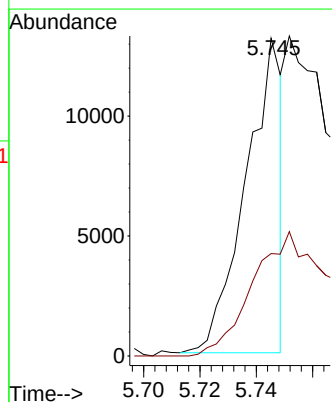
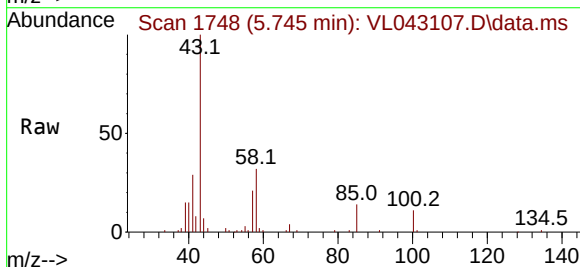
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:173 Resp: 17320  
Ion Ratio Lower Upper  
173 100  
175 50.9 38.8 58.2  
171 55.0 41.7 62.5

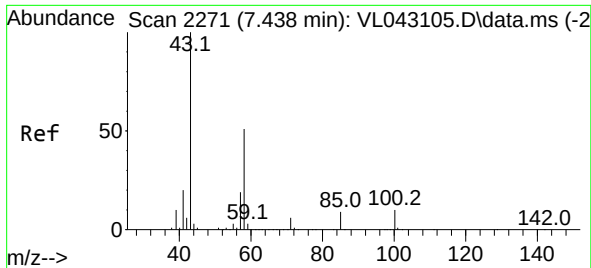


#50  
4-Methyl-2-Pentanone  
Concen: 0.371 ppbv  
RT: 5.745 min Scan# 1748  
Delta R.T. -0.010 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 43 Resp: 11642  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7#



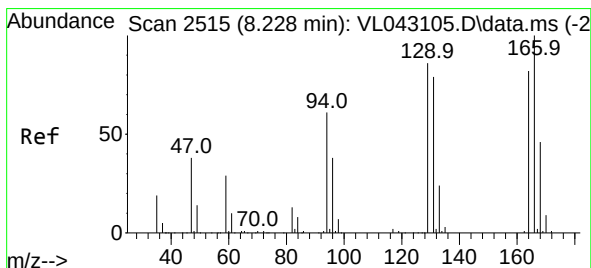
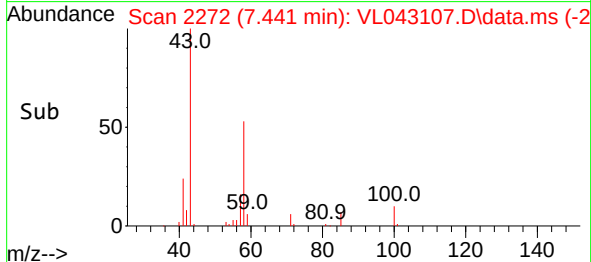
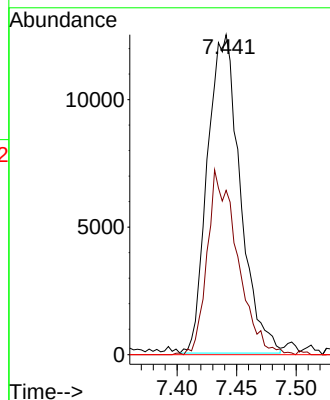
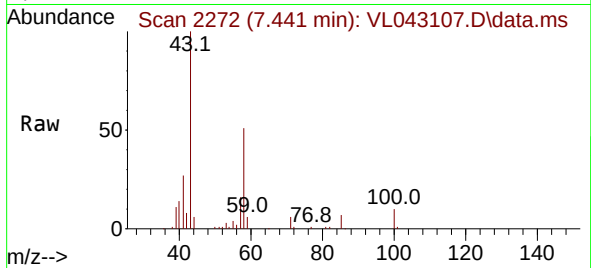




#51  
2-Hexanone  
Concen: 1.018 ppbv  
RT: 7.441 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

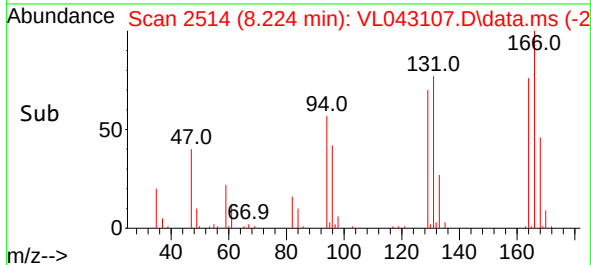
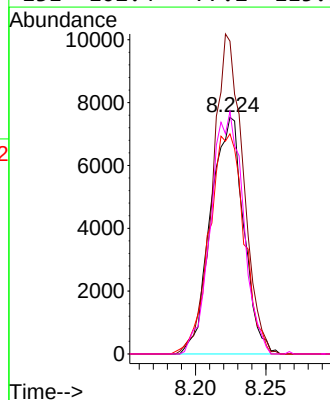
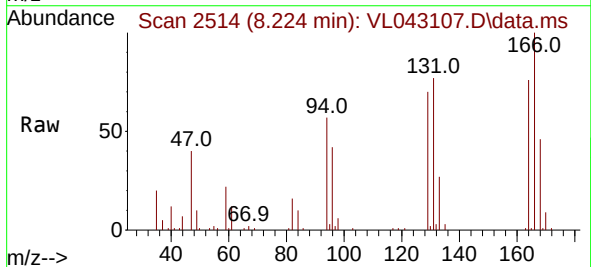
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

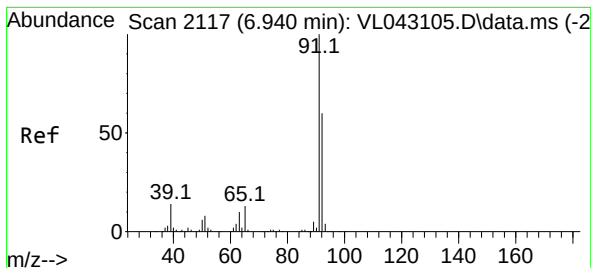
Tgt Ion: 43 Resp: 23817  
Ion Ratio Lower Upper  
43 100  
58 53.7 40.4 60.6  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 1.079 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 164 Resp: 12319  
Ion Ratio Lower Upper  
164 100  
166 132.1 97.6 146.4  
129 93.0 84.5 126.7  
131 102.4 77.2 115.8





#53

Toluene

Concen: 1.040 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.010 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

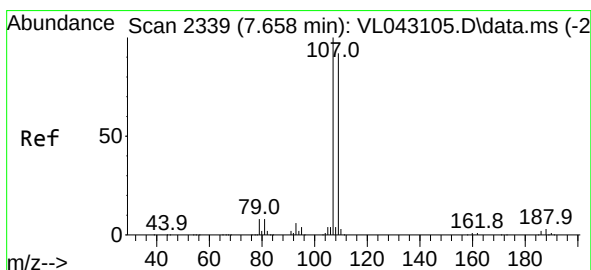
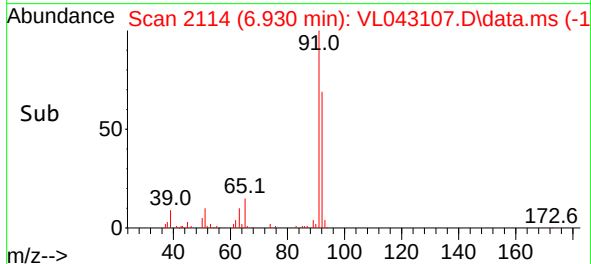
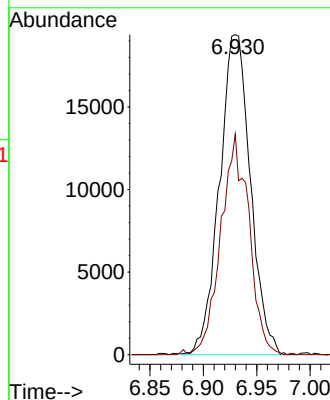
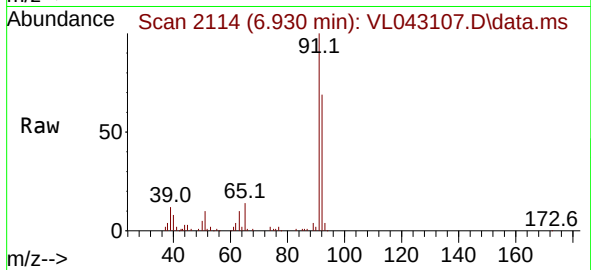
VSTDIC001

Tgt Ion: 91 Resp: 39079

Ion Ratio Lower Upper

91 100

92 62.8 48.8 73.2



#54

1,2-Dibromoethane

Concen: 0.999 ppbv

RT: 7.652 min Scan# 2337

Delta R.T. -0.007 min

Lab File: VL043107.D

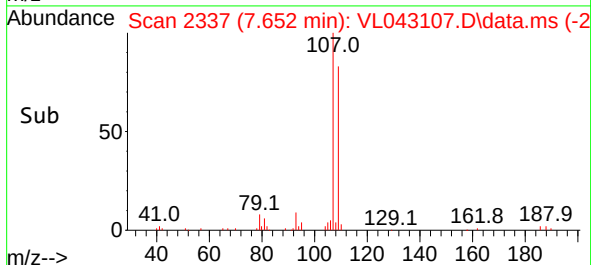
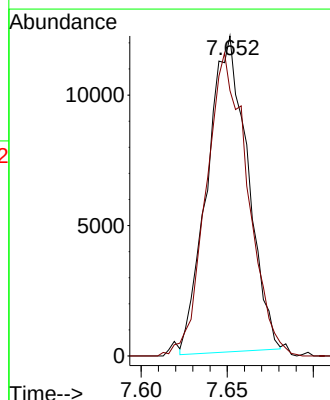
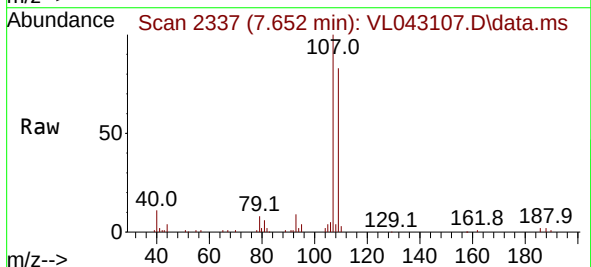
Acq: 14 Oct 2025 12:01

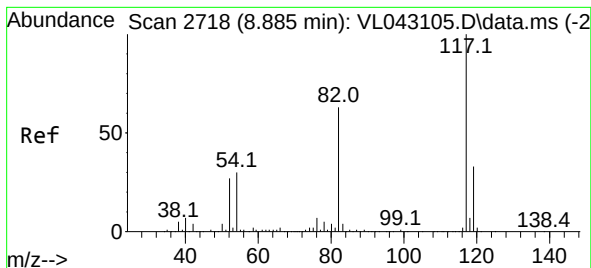
Tgt Ion: 107 Resp: 19711

Ion Ratio Lower Upper

107 100

109 80.7 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

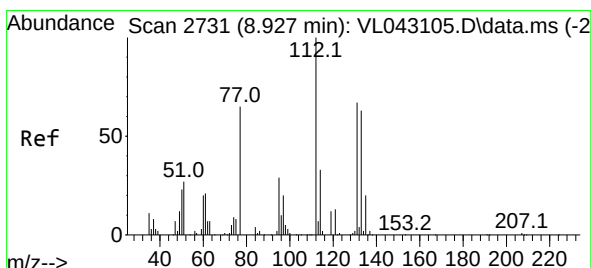
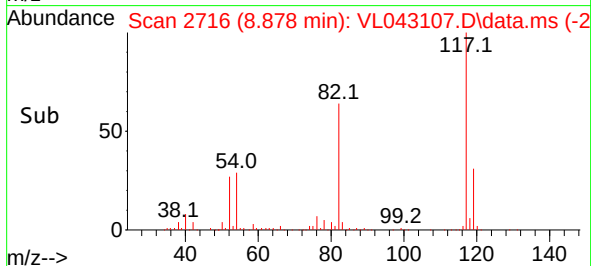
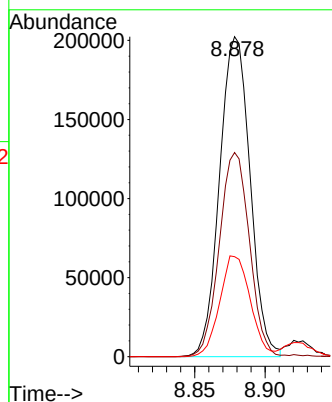
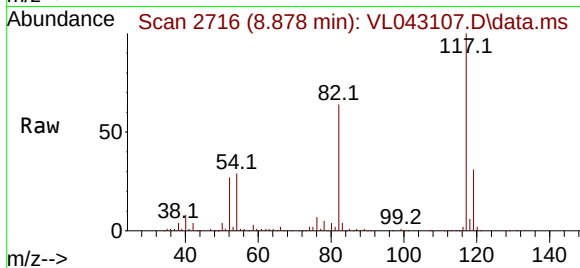
Tgt Ion:117 Resp: 305409

Ion Ratio Lower Upper

117 100

82 63.4 53.8 80.8

119 32.3 25.4 38.0



#56

1,1,1,2-Tetrachloroethane

Concen: 1.053 ppbv

RT: 8.920 min Scan# 2729

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

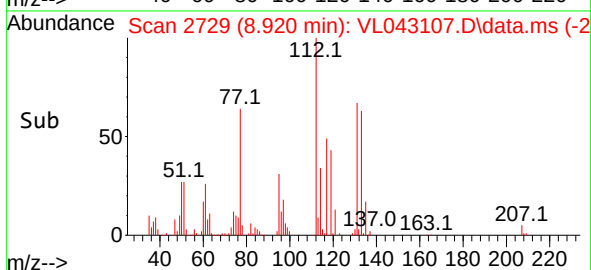
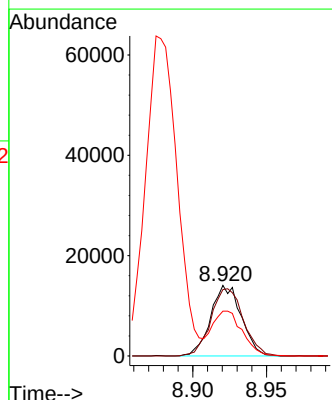
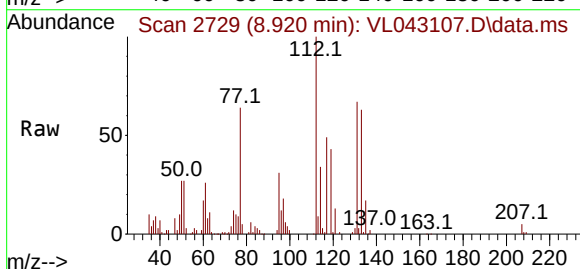
Tgt Ion:131 Resp: 20279

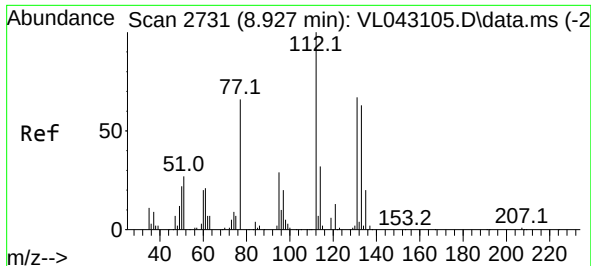
Ion Ratio Lower Upper

131 100

133 100.9 75.7 113.5

119 62.1 50.6 76.0

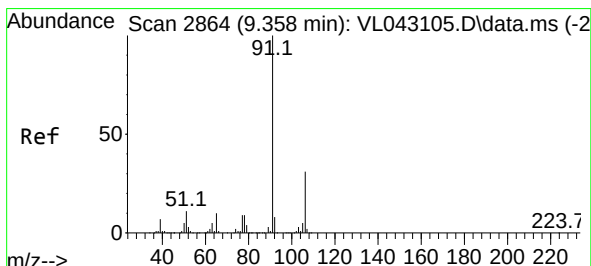
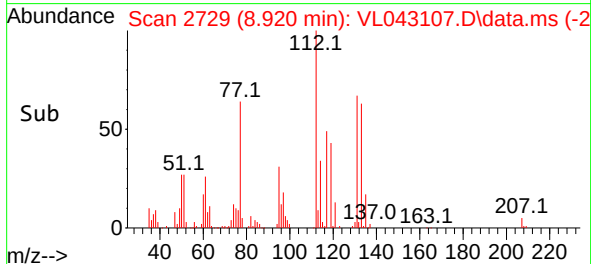
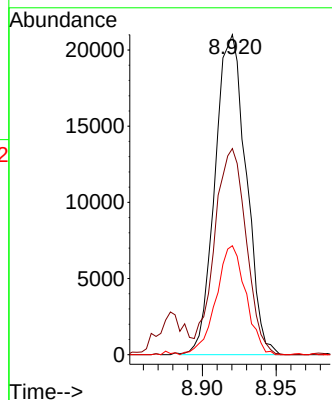
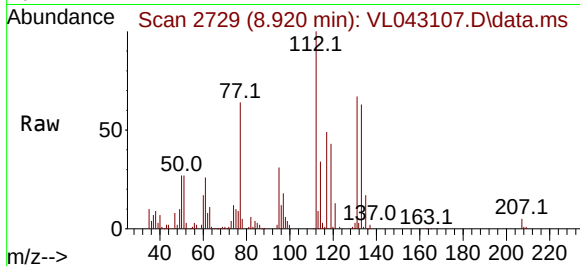




#57  
Chlorobenzene  
Concen: 1.079 ppbv  
RT: 8.920 min Scan# 211  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

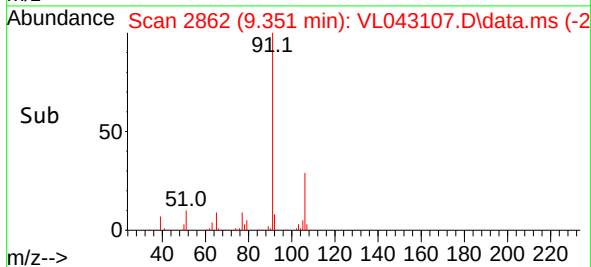
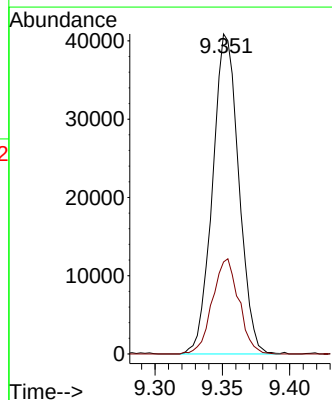
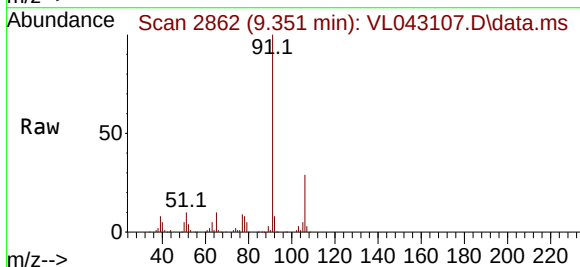
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

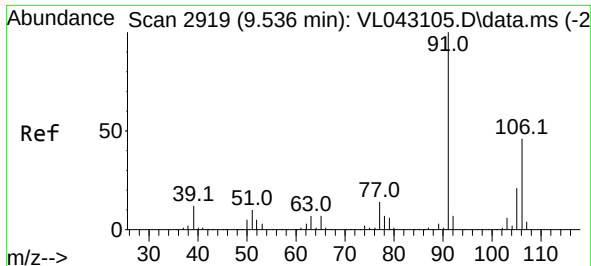
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 30824 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 77        | 64.2  | 53.3  | 79.9  |
| 114       | 34.1  | 29.3  | 35.8  |



#58  
Ethyl Benzene  
Concen: 1.049 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 55420 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 28.7  | 24.8  | 37.2  |





#59

m/p-Xylene

Concen: 1.087 ppbv

RT: 9.532 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_1

ClientSampleId :

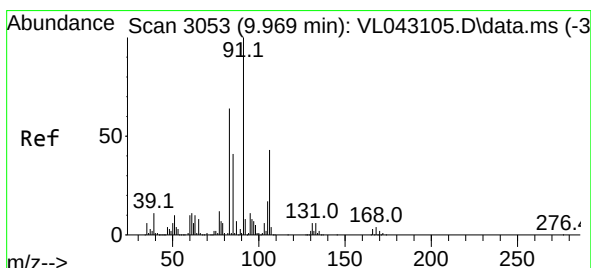
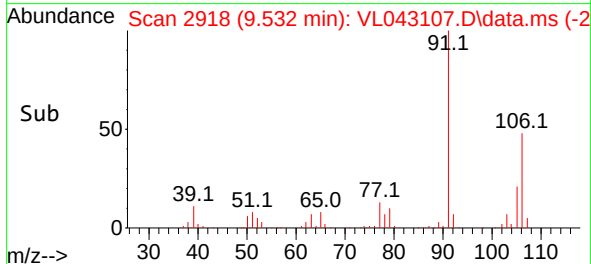
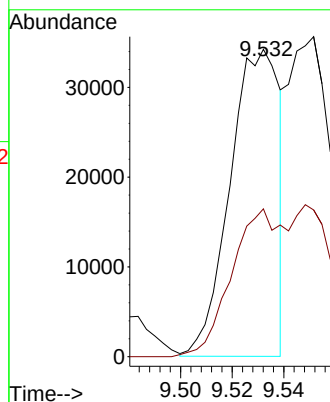
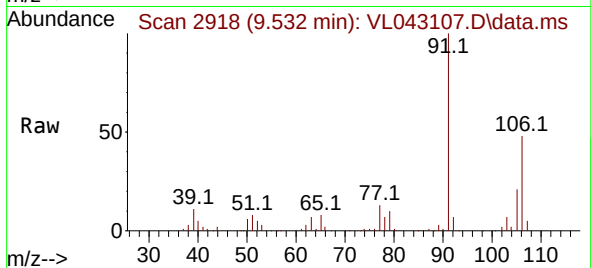
VSTDIC001

Tgt Ion: 91 Resp: 45483

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 1.088 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL043107.D

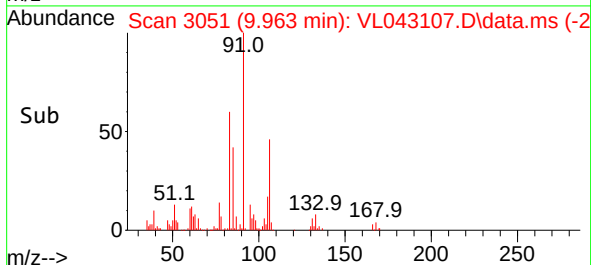
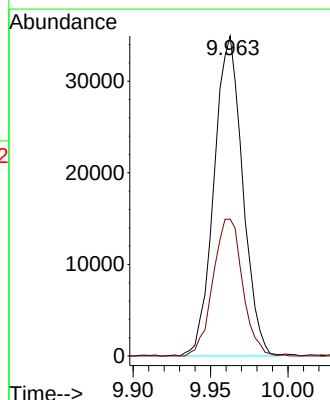
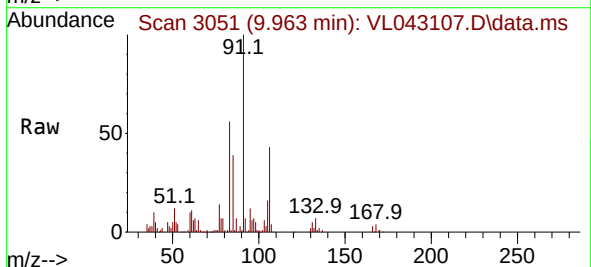
Acq: 14 Oct 2025 12:01

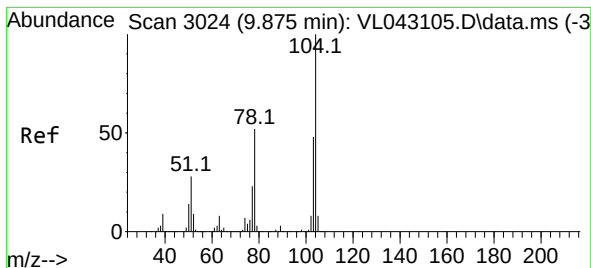
Tgt Ion: 91 Resp: 44925

Ion Ratio Lower Upper

91 100

106 44.1 21.9 65.8





#61

Styrene

Concen: 1.063 ppbv

RT: 9.869 min Scan# 3024

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

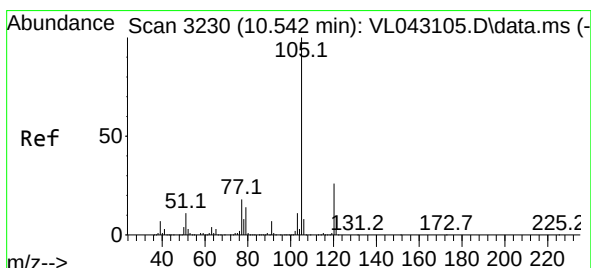
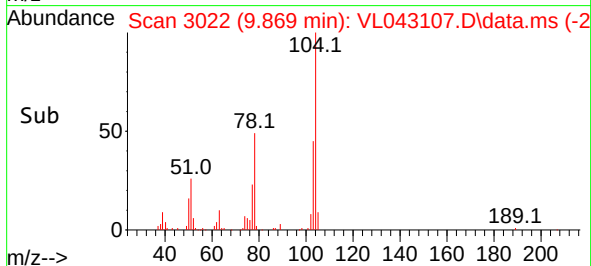
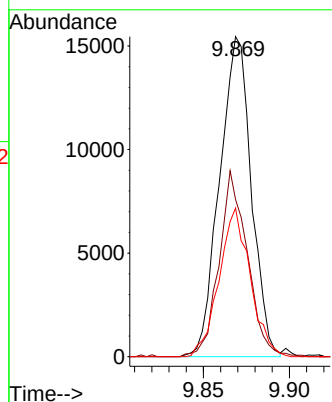
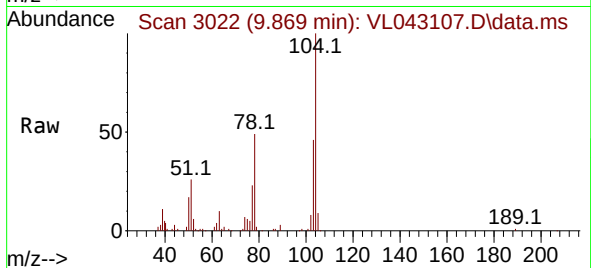
Tgt Ion:104 Resp: 19809

Ion Ratio Lower Upper

104 100

78 51.8 40.2 60.2

103 45.5 36.9 55.3



#62

Isopropylbenzene

Concen: 1.093 ppbv

RT: 10.535 min Scan# 3228

Delta R.T. -0.007 min

Lab File: VL043107.D

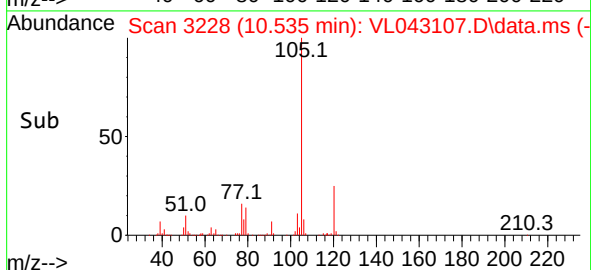
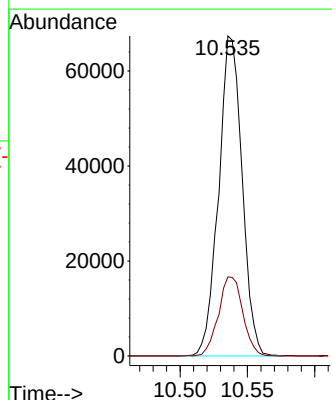
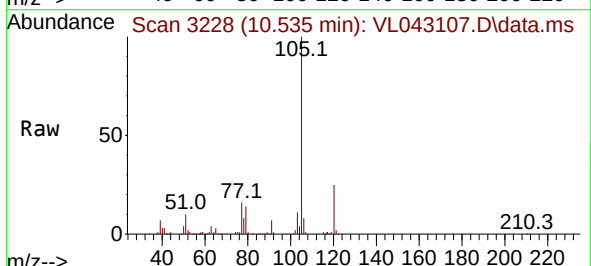
Acq: 14 Oct 2025 12:01

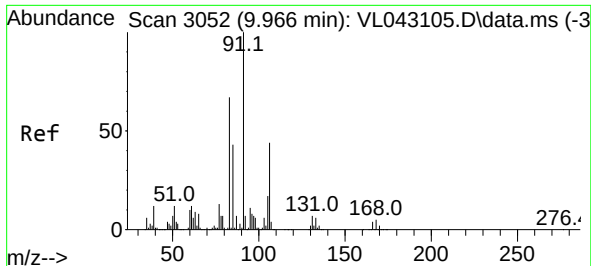
Tgt Ion:105 Resp: 81579

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.4

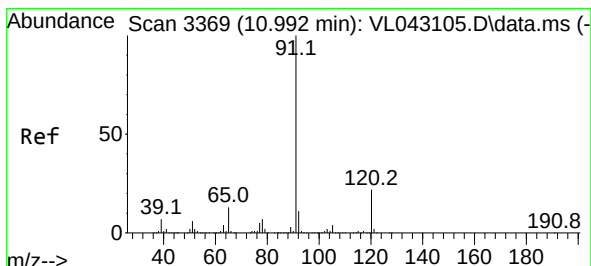
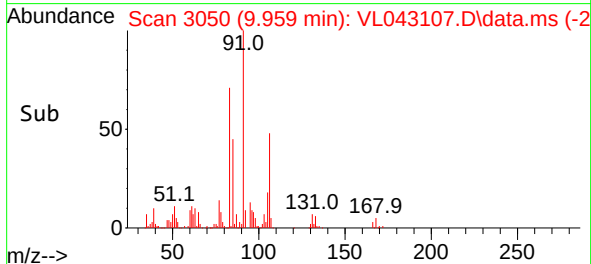
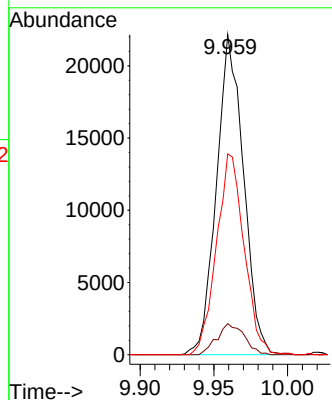
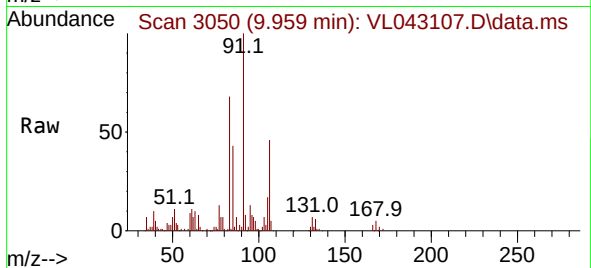




#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.021 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

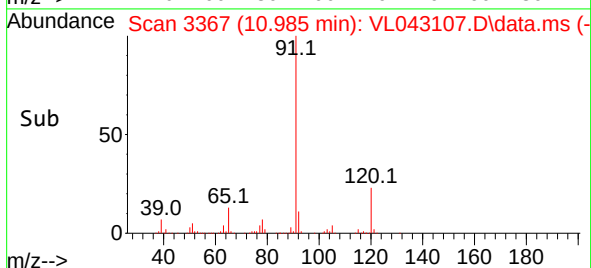
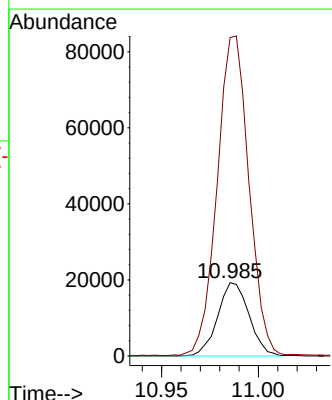
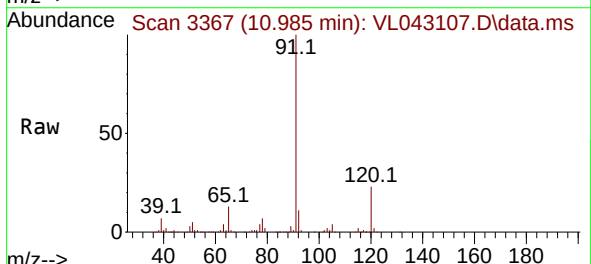
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC001

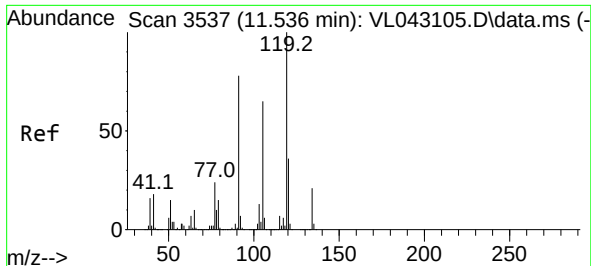
Tgt Ion: 83 Resp: 28230  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.3  
85 64.3 32.0 96.0



#64  
n-propylbenzene  
Concen: 1.098 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 120 Resp: 21685  
Ion Ratio Lower Upper  
120 100  
91 446.5 361.6 542.4

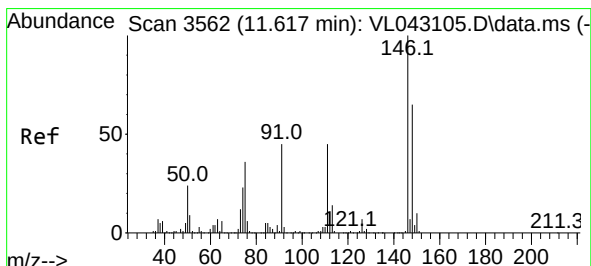
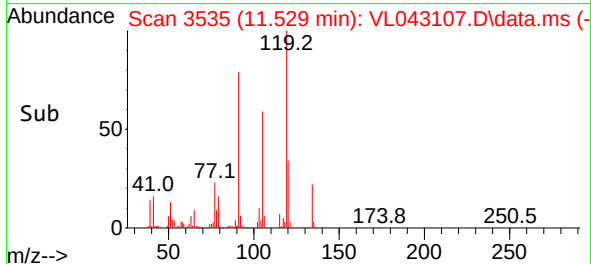
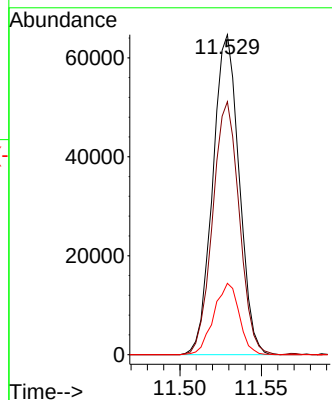
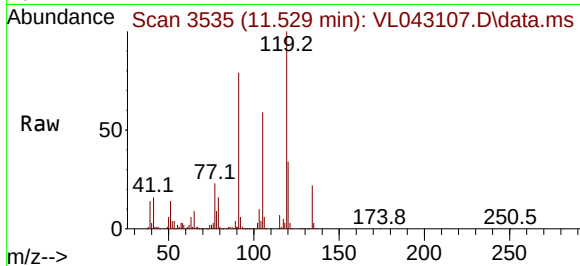




#65  
tert-Butylbenzene  
Concen: 1.105 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

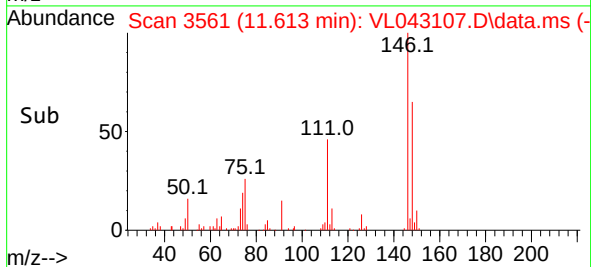
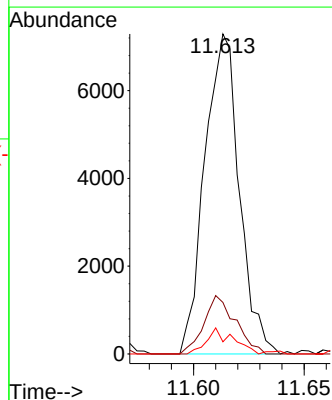
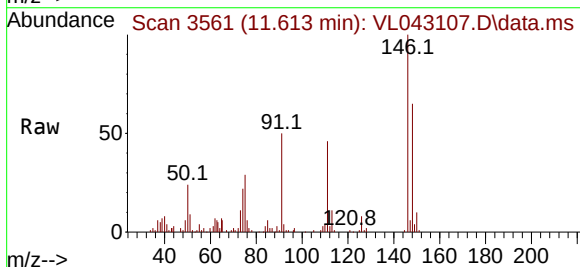
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion:119 Resp: 72781  
Ion Ratio Lower Upper  
119 100  
91 79.8 63.4 95.0  
134 21.5 17.3 25.9

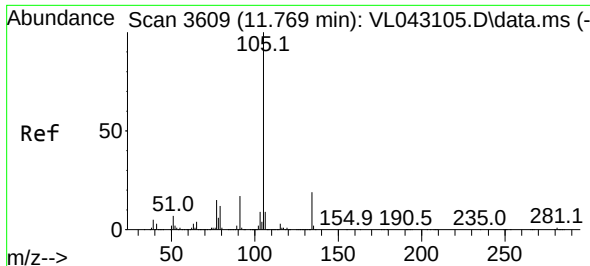


#66  
Benzyl Chloride  
Concen: 1.076 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 7918  
Ion Ratio Lower Upper  
91 100  
126 16.6 14.6 22.0  
128 6.6 4.6 6.8







#67

sec-Butylbenzene

Concen: 1.103 ppbv

RT: 11.765 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_1

ClientSampleId :

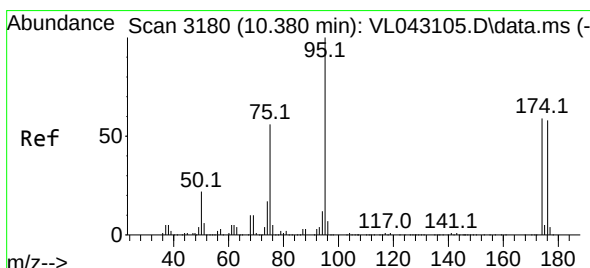
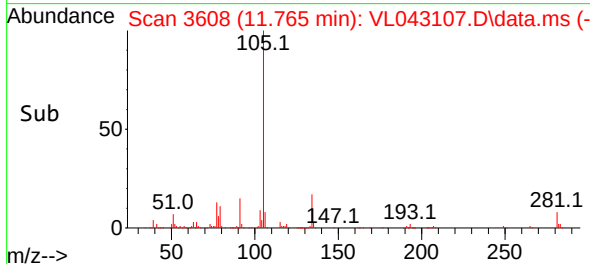
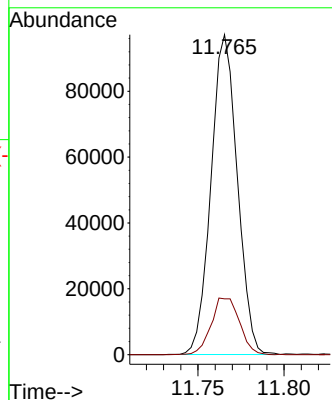
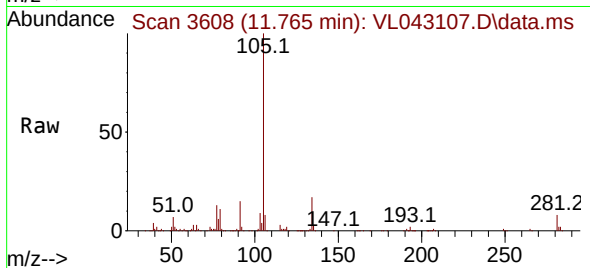
VSTDIC001

Tgt Ion:105 Resp: 103152

Ion Ratio Lower Upper

105 100

134 19.2 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.912 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

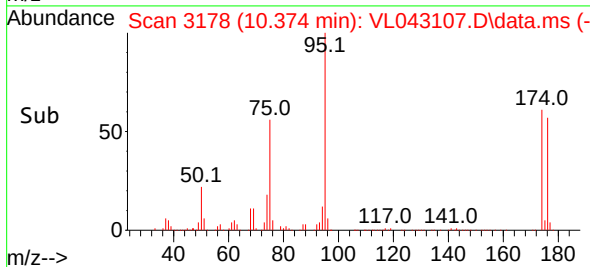
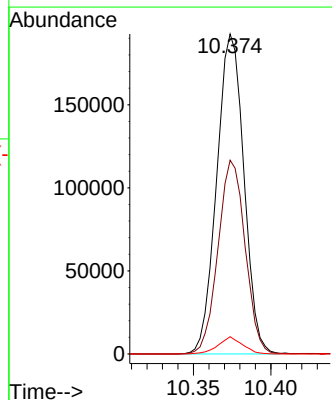
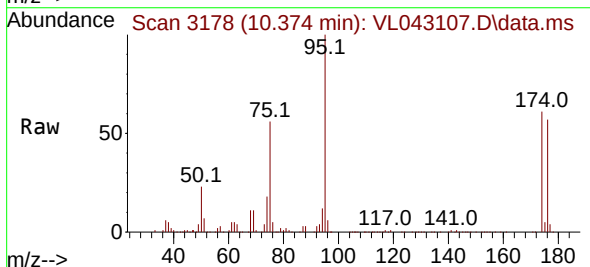
Tgt Ion: 95 Resp: 235307

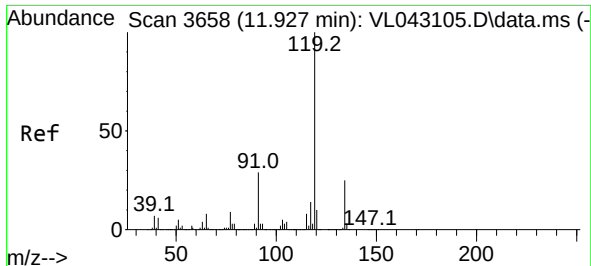
Ion Ratio Lower Upper

95 100

174 60.3 48.3 72.5

175 4.8 3.8 5.8

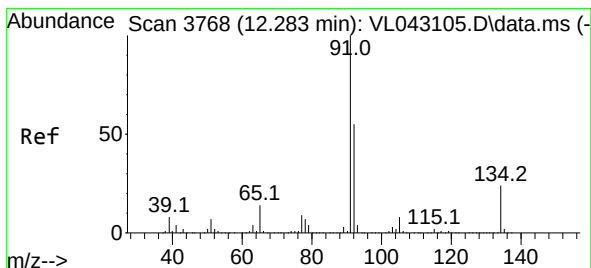
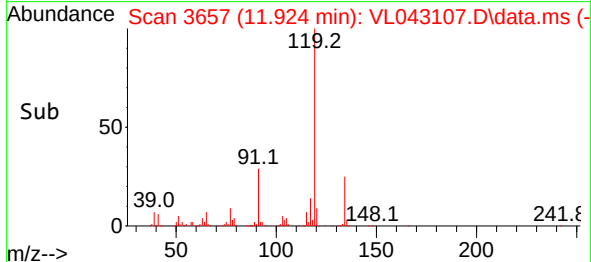
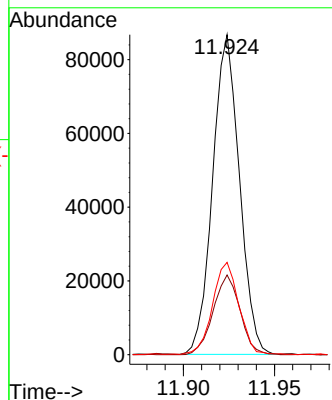
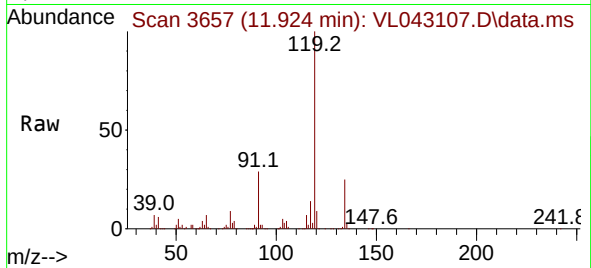




#69  
p-Isopropyltoluene  
Concen: 1.113 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

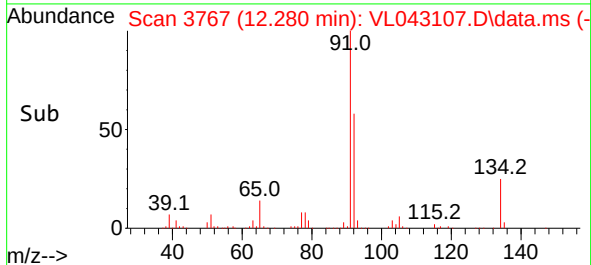
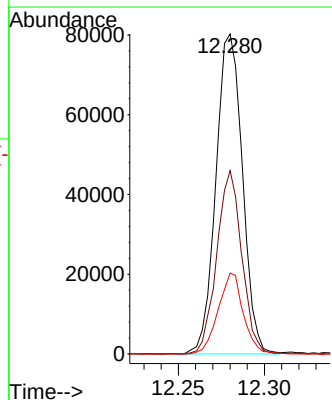
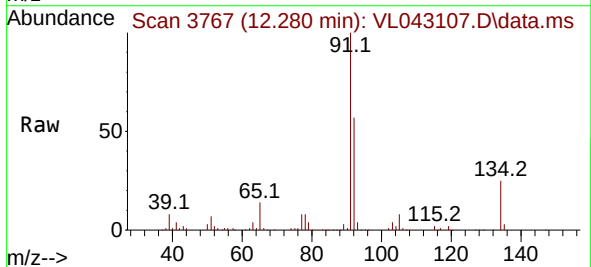
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

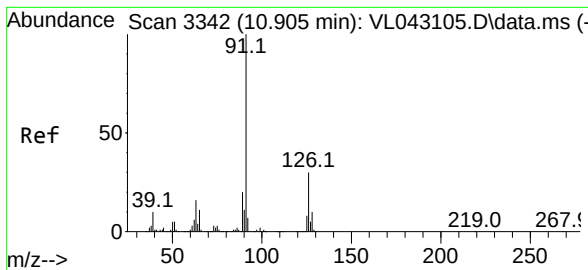
Tgt Ion:119 Resp: 88443  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.3 30.5  
91 28.9 22.6 33.8



#70  
n-Butylbenzene  
Concen: 1.100 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 91 Resp: 86120  
Ion Ratio Lower Upper  
91 100  
92 54.1 44.5 66.7  
134 23.9 19.3 28.9

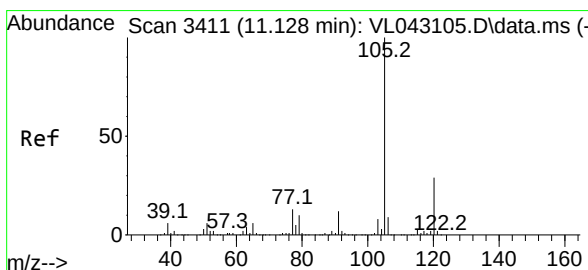
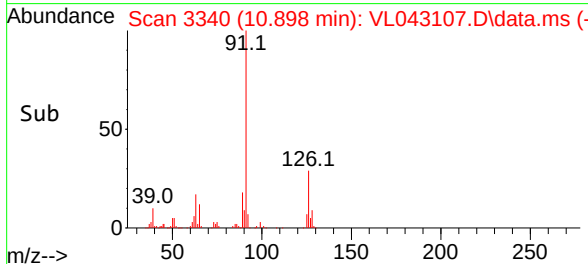
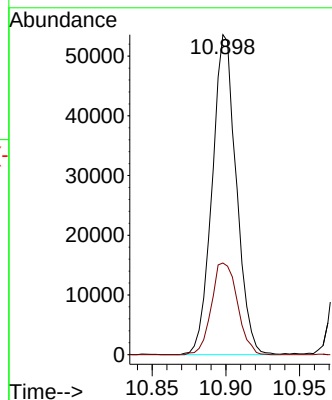
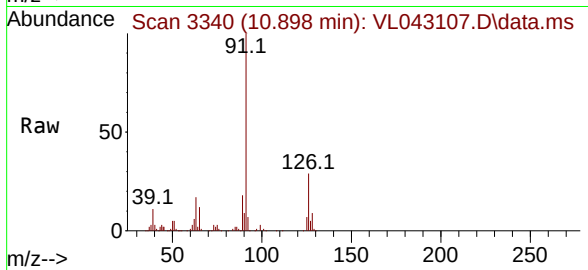




#71  
2-Chlorotoluene  
Concen: 1.072 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

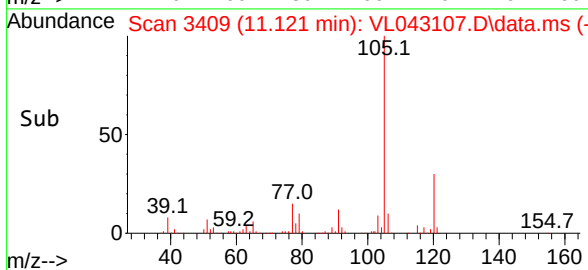
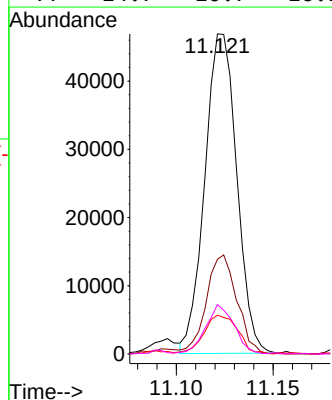
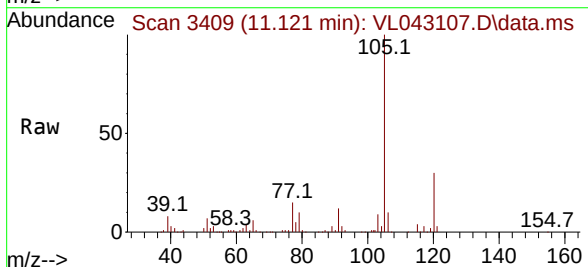
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

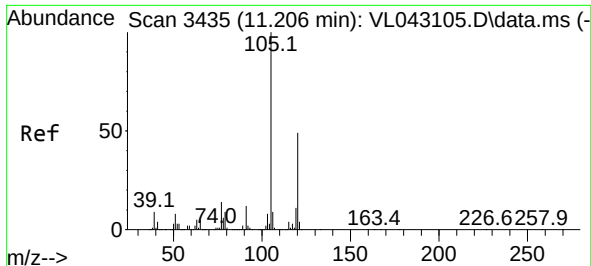
Tgt Ion: 91 Resp: 60994  
Ion Ratio Lower Upper  
91 100  
126 30.8 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 1.059 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion: 105 Resp: 53788  
Ion Ratio Lower Upper  
105 100  
120 31.0 24.2 36.4  
91 14.0 10.0 15.0  
77 14.7 10.7 16.1

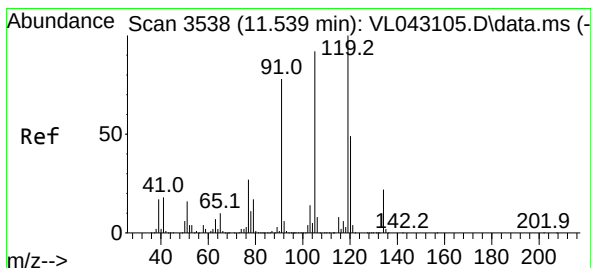
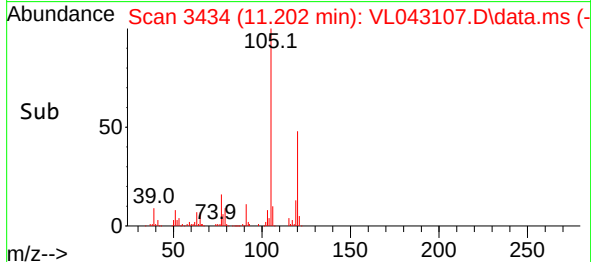
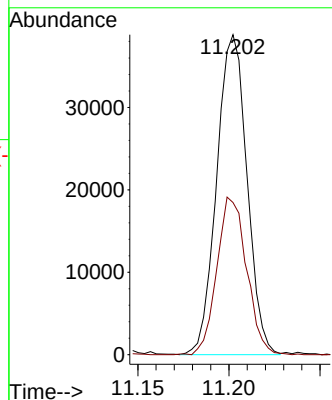
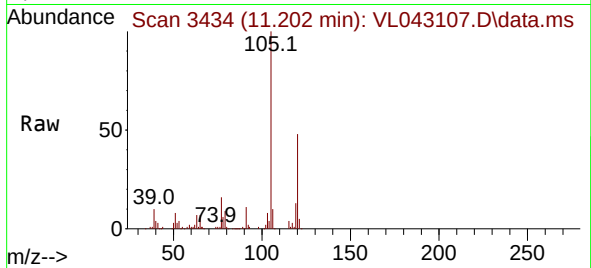




#73  
1,3,5-Trimethylbenzene  
Concen: 1.070 ppbv  
RT: 11.202 min Scan# 3435  
Delta R.T. -0.003 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

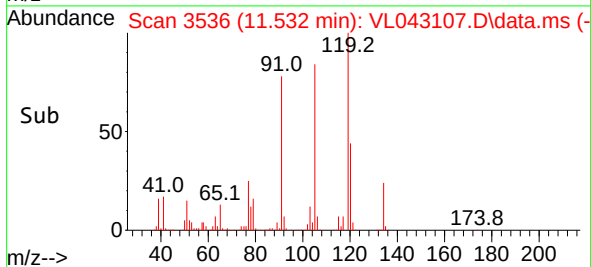
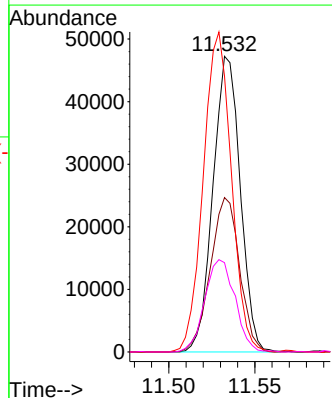
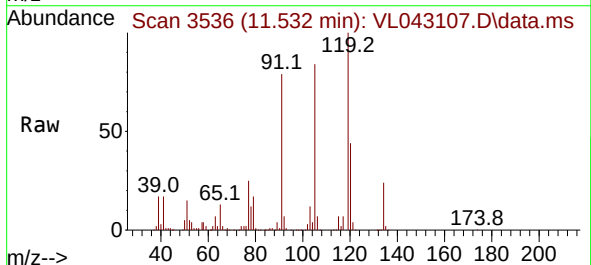
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

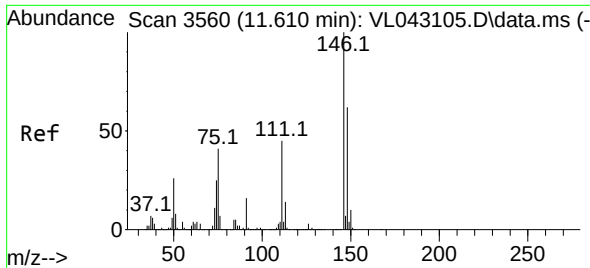
Tgt Ion:105 Resp: 44786  
Ion Ratio Lower Upper  
105 100  
120 47.3 39.0 58.6



#74  
1,2,4-Trimethylbenzene  
Concen: 1.112 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

Tgt Ion:105 Resp: 52118  
Ion Ratio Lower Upper  
105 100  
120 52.2 42.8 64.2  
91 93.1 68.3 102.5  
77 30.2 23.4 35.0

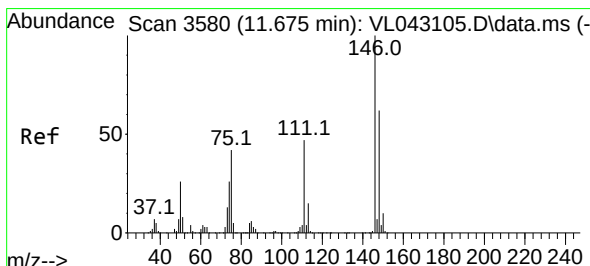
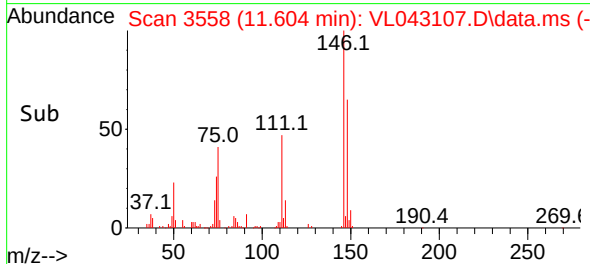
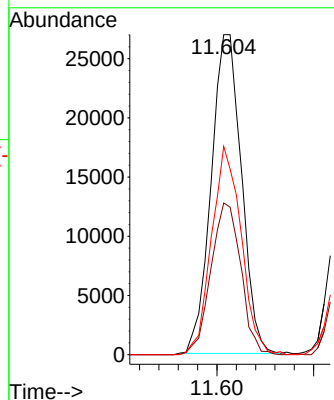
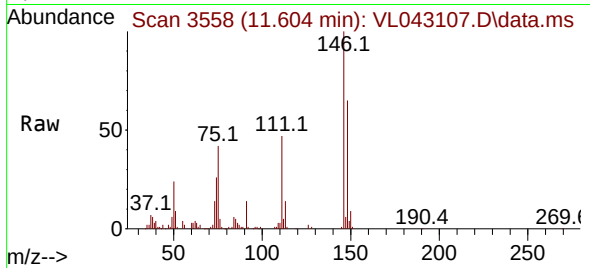




#75  
1,3-Dichlorobenzene  
Concen: 1.074 ppbv  
RT: 11.604 min Scan# 3558  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

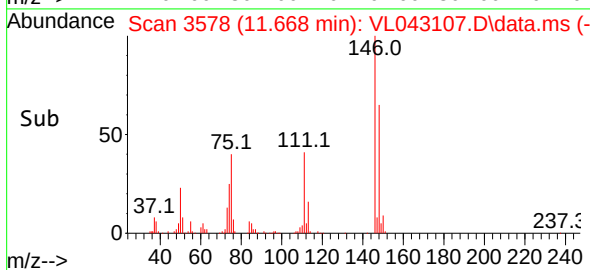
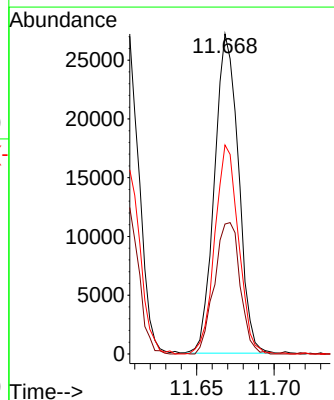
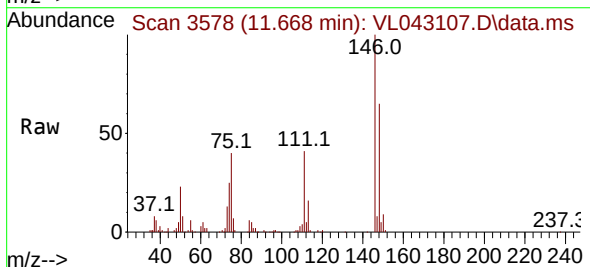
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

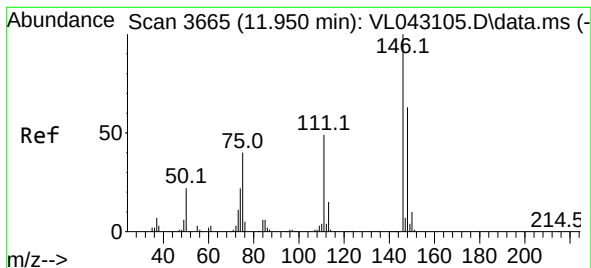
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 29186     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 47.0  | 23.3 69.9 |
| 148         | 64.0  | 31.6 95.0 |



#76  
1,4-Dichlorobenzene  
Concen: 1.066 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.007 min  
Lab File: VL043107.D  
Acq: 14 Oct 2025 12:01

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 29225     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 44.2  | 22.4 67.0 |
| 148         | 65.0  | 31.6 94.7 |





#77

1,2-Dichlorobenzene

Concen: 1.109 ppbv

RT: 11.947 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

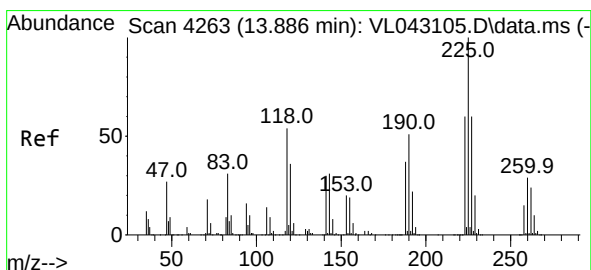
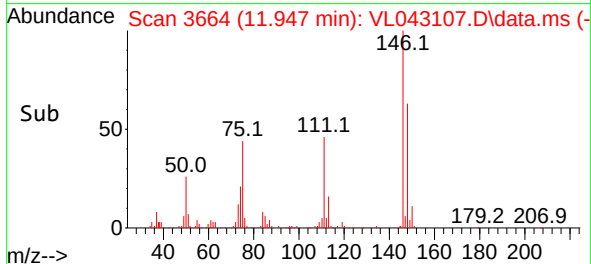
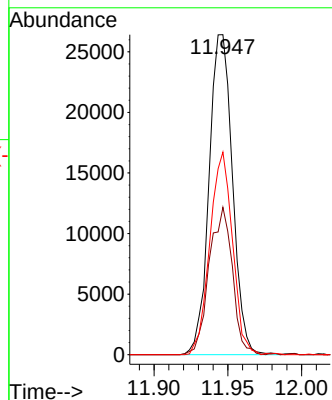
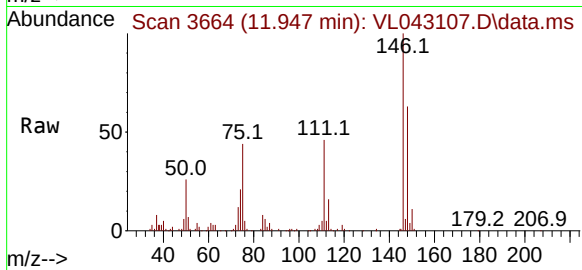
Tgt Ion:146 Resp: 29146

Ion Ratio Lower Upper

146 100

111 45.8 24.0 72.0

148 61.5 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 1.146 ppbv

RT: 13.879 min Scan# 4261

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

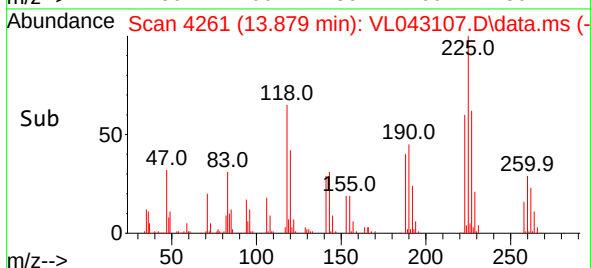
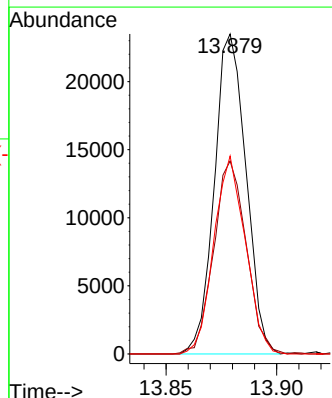
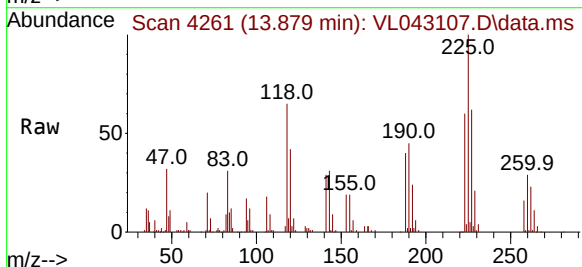
Tgt Ion:225 Resp: 23330

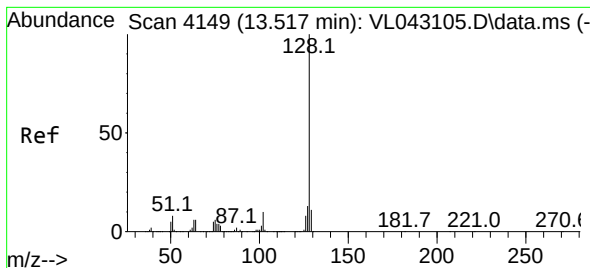
Ion Ratio Lower Upper

225 100

223 62.4 50.2 75.4

227 61.6 49.6 74.4





#79

Naphthalene

Concen: 1.114 ppbv

RT: 13.510 min Scan# 4149

Delta R.T. -0.007 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

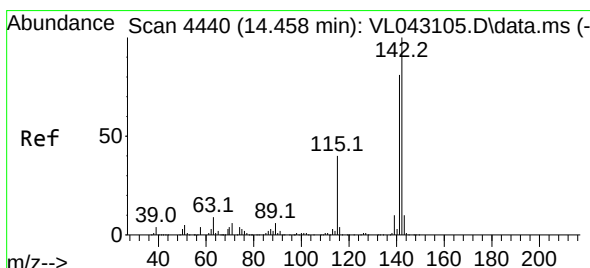
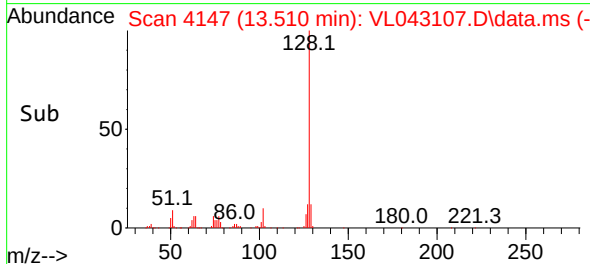
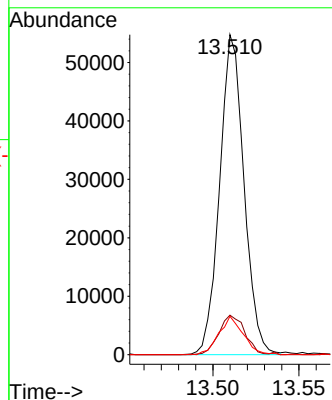
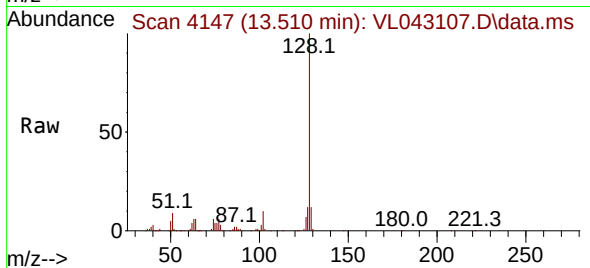
Tgt Ion:128 Resp: 53930

Ion Ratio Lower Upper

128 100

127 12.4 10.5 15.7

129 12.0 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 0.849 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043107.D

Acq: 14 Oct 2025 12:01

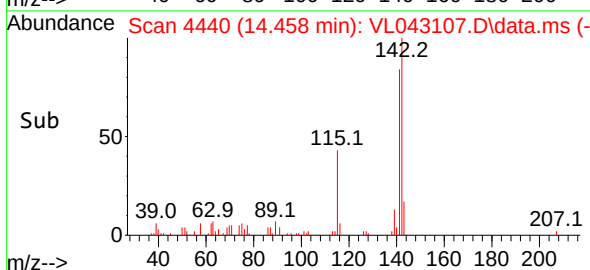
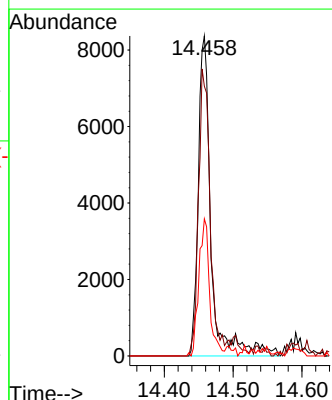
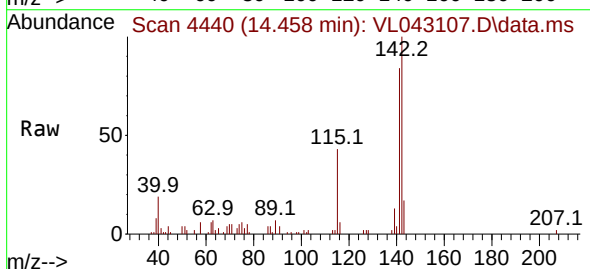
Tgt Ion:142 Resp: 10851

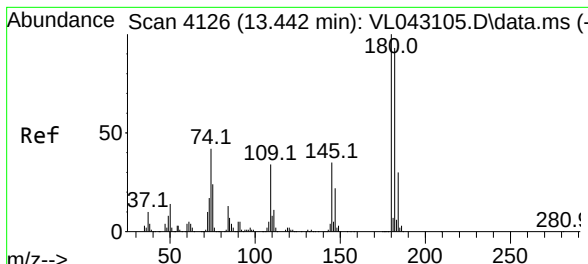
Ion Ratio Lower Upper

142 100

141 88.9 64.6 97.0

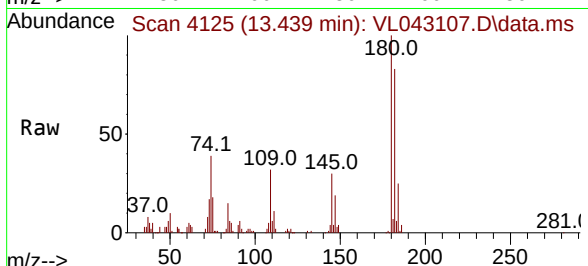
115 38.1 30.2 45.4



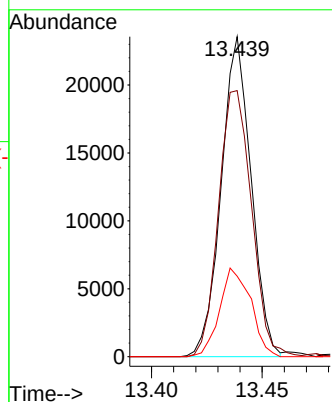
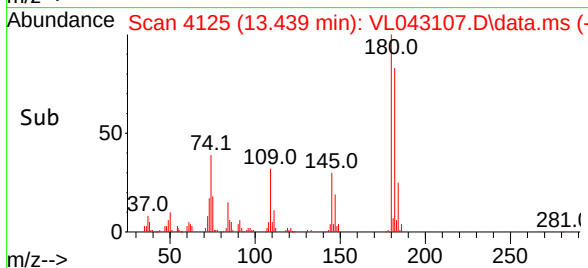


#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.090 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL043107.D  
 Acq: 14 Oct 2025 12:01

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 22161 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 92.5  | 75.5  | 113.3 |
| 184       | 28.8  | 23.9  | 35.9  |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043108.D  
 Acq On : 14 Oct 2025 12:34  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 101636   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 336188   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 303445   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 232904   | 9.875    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.700% |

#### Target Compounds

|                               |       |     |       |       |        | Qvalue |
|-------------------------------|-------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 7851  | 0.543 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 8497  | 0.543 | ppbv # | 89     |
| 4) Chloromethane              | 1.534 | 50  | 3254  | 0.568 | ppbv # | 88     |
| 5) Vinyl Chloride             | 1.583 | 62  | 2857  | 0.509 | ppbv   | 96     |
| 6) Bromomethane               | 1.670 | 94  | 1709  | 0.555 | ppbv   | 100    |
| 7) Chloroethane               | 1.706 | 64  | 1326  | 0.578 | ppbv # | 85     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 5970  | 0.511 | ppbv   | 92     |
| 9) Propene                    | 1.486 | 41  | 3750  | 0.541 | ppbv   | 92     |
| 10) Heptane                   | 4.981 | 43  | 6039  | 0.304 | ppbv # | 27     |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 7672  | 0.543 | ppbv   | 92     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 6173  | 0.543 | ppbv   | 100    |
| 13) Ethanol                   | 1.725 | 45  | 1468  | 0.572 | ppbv   | 86     |
| 14) Bromoethene               | 1.787 | 108 | 2444  | 0.578 | ppbv # | 90     |
| 15) Acetone                   | 1.839 | 43  | 7931  | 0.576 | ppbv # | 88     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 3962  | 0.607 | ppbv   | 91     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 10213 | 0.543 | ppbv # | 88     |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 2636  | 0.531 | ppbv   | 91     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 4932  | 0.578 | ppbv # | 43     |
| 20) Methylene Chloride        | 2.065 | 84  | 3750  | 0.693 | ppbv # | 75     |
| 21) Allyl Chloride            | 2.098 | 41  | 5575  | 0.551 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 3093  | 0.522 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.467 | 43  | 10914 | 0.544 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 5942  | 0.519 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.845 | 43  | 17918 | 0.527 | ppbv # | 96     |
| 26) Hexane                    | 2.829 | 57  | 8908  | 0.569 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.153 | 76  | 7230  | 0.504 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 3770  | 0.529 | ppbv # | 47     |
| 29) Chloroform                | 2.852 | 83  | 12384 | 0.546 | ppbv   | 100    |
| 30) Cyclohexane               | 3.862 | 84  | 6978  | 0.511 | ppbv # | 88     |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 7576  | 0.507 | ppbv # | 88     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 12234 | 0.518 | ppbv   | 97     |
| 34) 2-Butanone                | 2.564 | 43  | 12659 | 0.557 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 11931 | 0.494 | ppbv   | 87     |
| 36) Benzene                   | 3.661 | 78  | 16376 | 0.517 | ppbv   | 94     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 9907  | 0.543 | ppbv   | 99     |
| 38) Trichloroethene           | 4.554 | 130 | 6745  | 0.511 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 6032  | 0.521 | ppbv # | 80     |
| 40) 1,4-Dioxane               | 4.603 | 88  | 1303  | 0.252 | ppbv # | 33     |
| 41) Tetrahydrofuran           | 3.065 | 42  | 6831  | 0.538 | ppbv   | 97     |
| 42) Bromodichloromethane      | 4.496 | 83  | 13094 | 0.519 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.888 | 69  | 4902  | 0.303 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 27304 | 0.516 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.425 | 75  | 8030  | 0.498 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043108.D  
 Acq On : 14 Oct 2025 12:34  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Oct 15 01:53:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

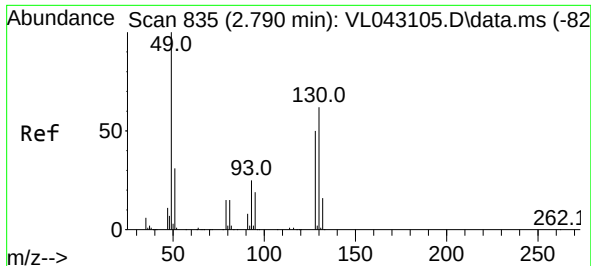
QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 8375     | 0.435 | ppbv # | 88       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 6996     | 0.560 | ppbv   | 92       |
| 48) Dibromochloromethane      | 7.393  | 129  | 10413    | 0.498 | ppbv   | 96       |
| 49) Bromoform                 | 9.487  | 173  | 8455     | 0.498 | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 3434     | 0.110 | ppbv # | 38       |
| 51) 2-Hexanone                | 7.451  | 43   | 11485    | 0.491 | ppbv # | 94       |
| 52) Tetrachloroethene         | 8.231  | 164  | 5863     | 0.513 | ppbv # | 90       |
| 53) Toluene                   | 6.936  | 91   | 20380    | 0.542 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 9586     | 0.486 | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 10044    | 0.525 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.927  | 112  | 15318    | 0.540 | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.357  | 91   | 27330    | 0.521 | ppbv   | 91       |
| 59) m/p-Xylene                | 9.539  | 91   | 20079    | 0.483 | ppbv # | 15       |
| 60) o-Xylene                  | 9.969  | 91   | 21745    | 0.530 | ppbv   | 96       |
| 61) Styrene                   | 9.878  | 104  | 9052     | 0.489 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.542 | 105  | 38899    | 0.525 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 13653    | 0.497 | ppbv   | 97       |
| 64) n-propylbenzene           | 10.992 | 120  | 10435    | 0.532 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 35537    | 0.543 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.620 | 91   | 3477     | 0.476 | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 50259    | 0.541 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 41366    | 0.524 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 39620    | 0.509 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 29722    | 0.526 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 26408    | 0.524 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 21754    | 0.523 | ppbv   | 89       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 25663    | 0.551 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 13697    | 0.507 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 14514    | 0.533 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 14324    | 0.548 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 11400    | 0.564 | ppbv   | 98       |
| 79) Naphthalene               | 13.516 | 128  | 23247    | 0.483 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 3874     | 0.305 | ppbv # | 84       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 8395     | 0.416 | ppbv   | 98       |

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

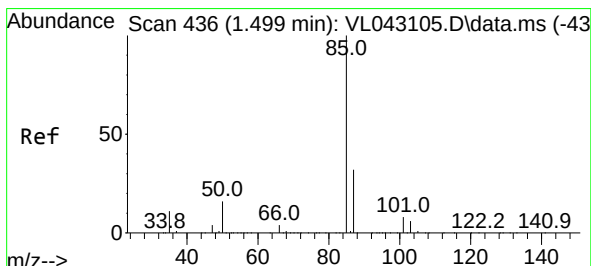
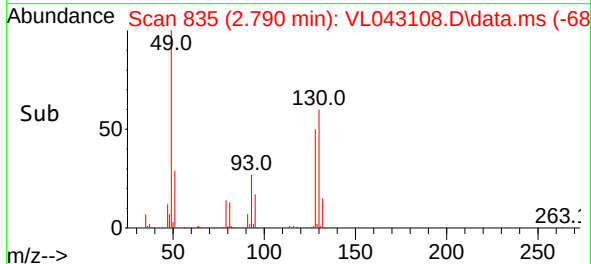
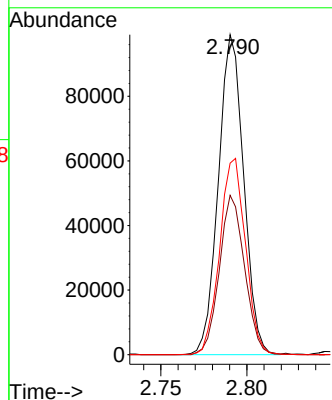
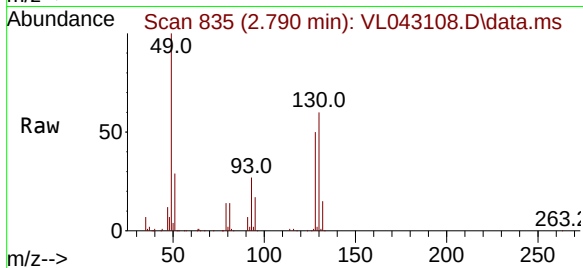




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

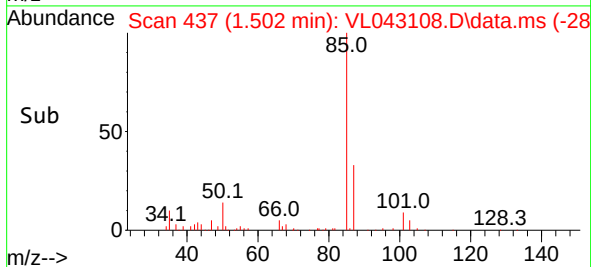
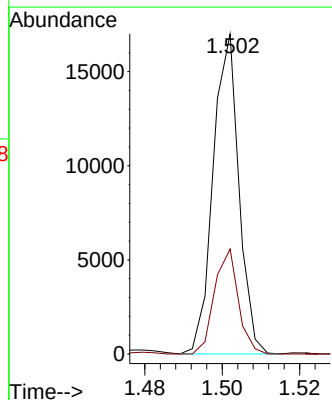
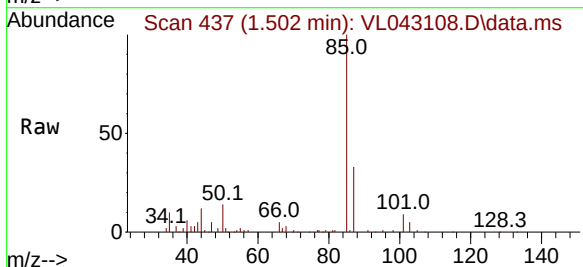
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MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

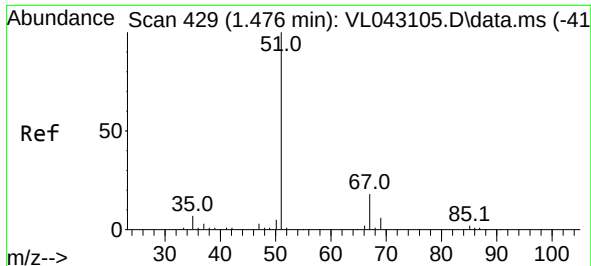
Tgt Ion: 49 Resp: 101636  
Ion Ratio Lower Upper  
49 100  
128 49.5 24.4 73.4  
130 62.5 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.543 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 7851  
Ion Ratio Lower Upper  
85 100  
87 32.8 25.3 37.9

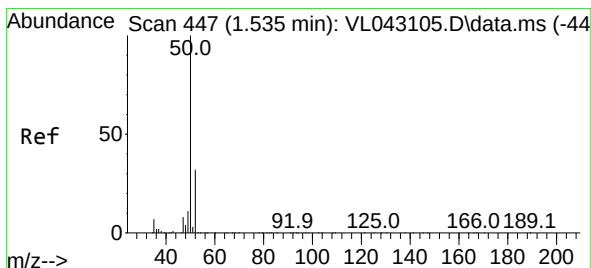
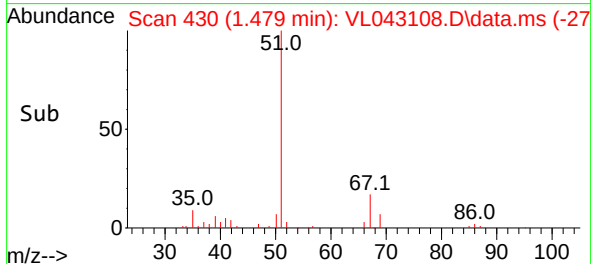
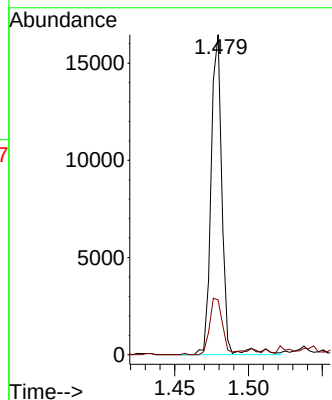
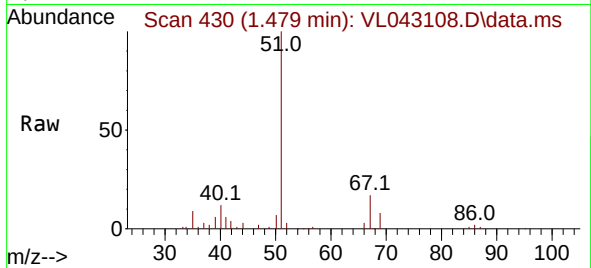




#3  
Chlorodifluoromethane  
Concen: 0.543 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

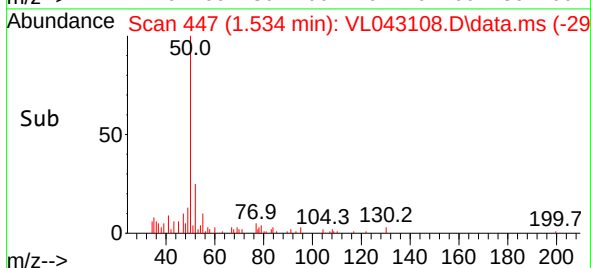
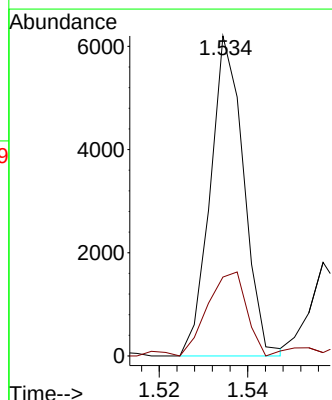
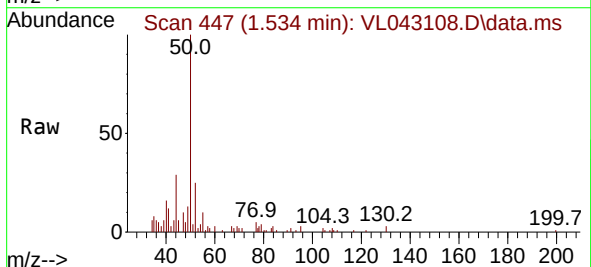
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

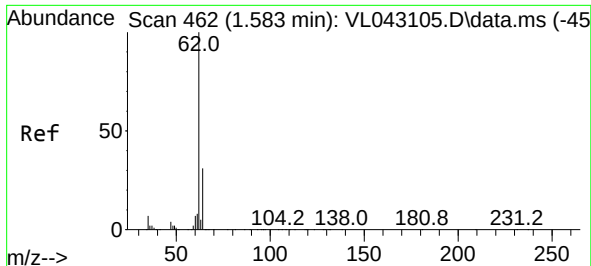
Tgt Ion: 51 Resp: 8497  
Ion Ratio Lower Upper  
51 100  
67 23.8 15.1 22.7#



#4  
Chloromethane  
Concen: 0.568 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 50 Resp: 3254  
Ion Ratio Lower Upper  
50 100  
52 24.7 25.2 37.8#

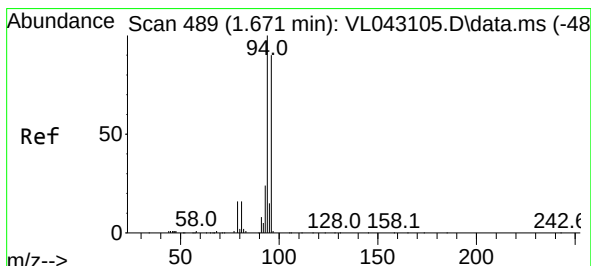
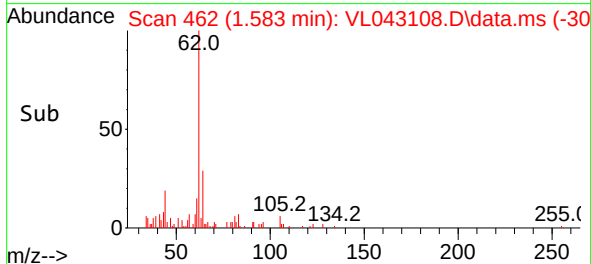
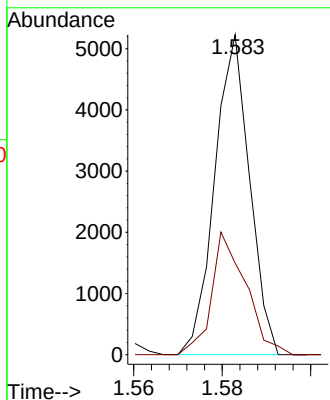
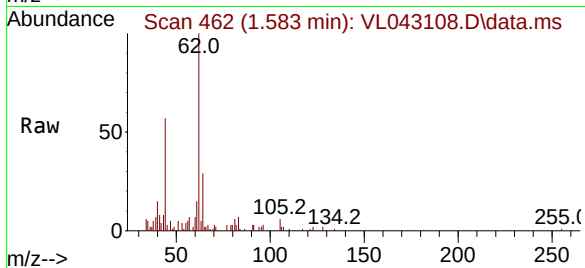




#5  
 Vinyl Chloride  
 Concen: 0.509 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

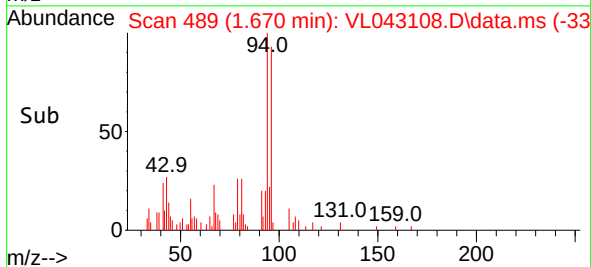
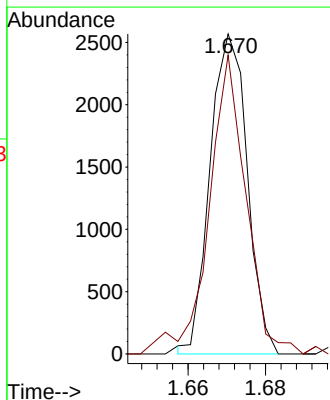
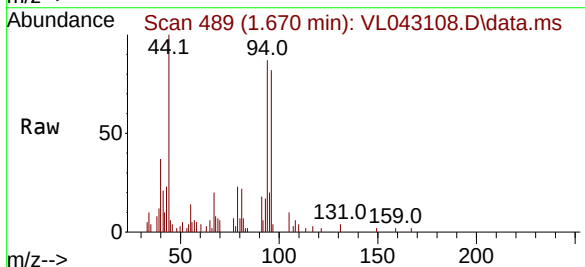
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

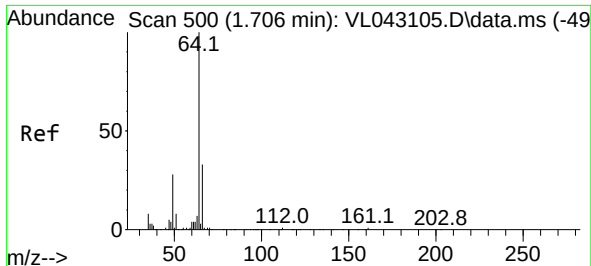
Tgt Ion: 62 Resp: 2857  
 Ion Ratio Lower Upper  
 62 100  
 64 28.6 24.6 36.8



#6  
 Bromomethane  
 Concen: 0.555 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion: 94 Resp: 1709  
 Ion Ratio Lower Upper  
 94 100  
 96 89.9 72.2 108.4

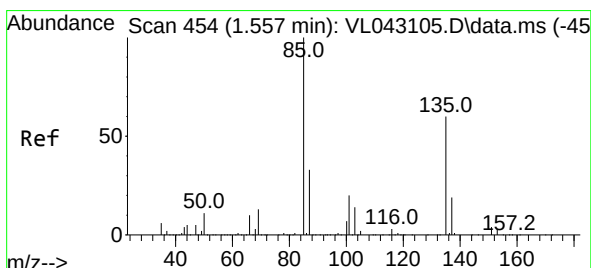
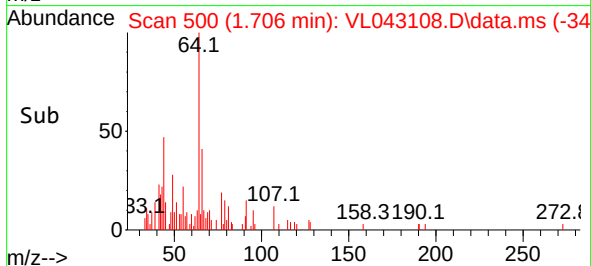
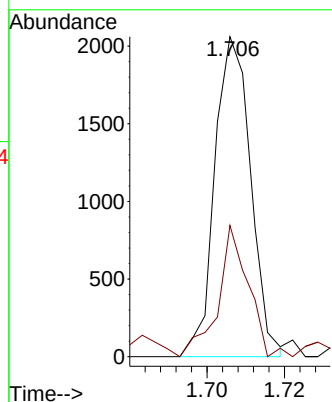
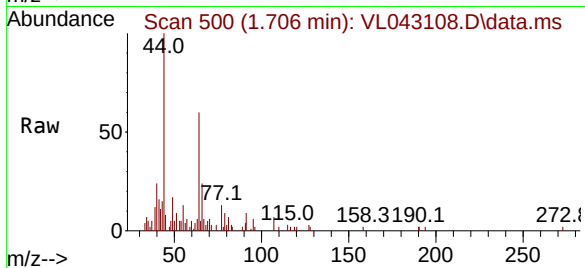




#7  
Chloroethane  
Concen: 0.578 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

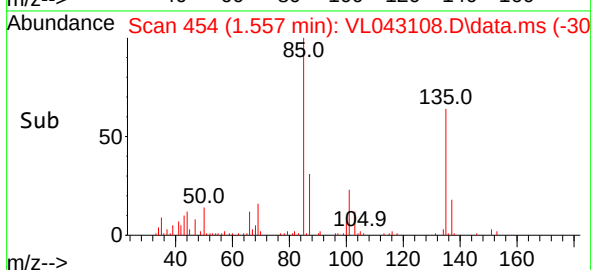
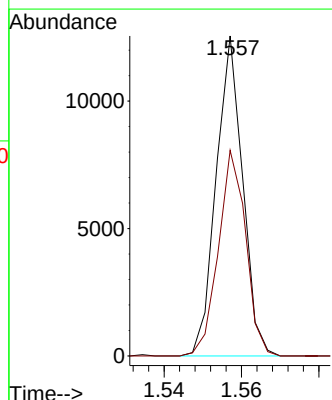
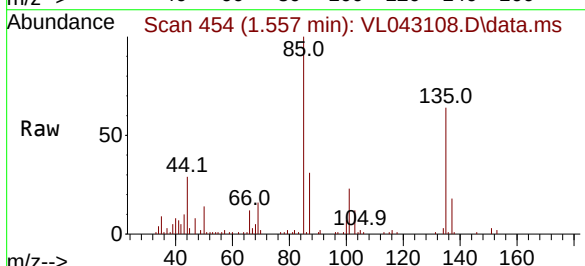
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

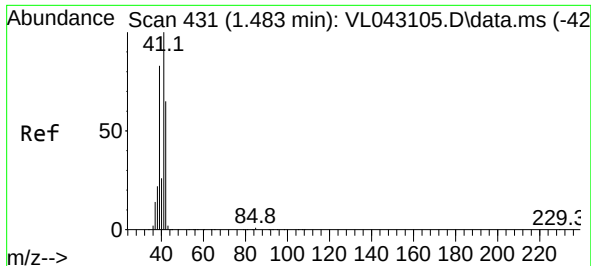
Tgt Ion: 64 Resp: 1326  
Ion Ratio Lower Upper  
64 100  
66 41.0 26.0 39.0#



#8  
Dichlorotetrafluoroethane  
Concen: 0.511 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 85 Resp: 5970  
Ion Ratio Lower Upper  
85 100  
135 66.3 48.2 72.4





#9

Propene

Concen: 0.541 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

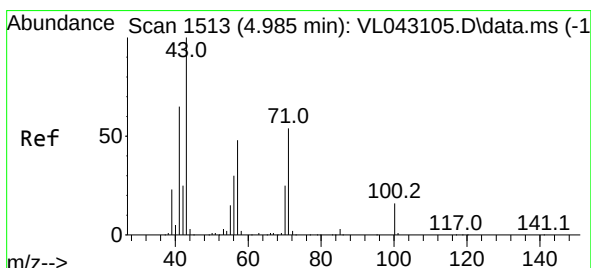
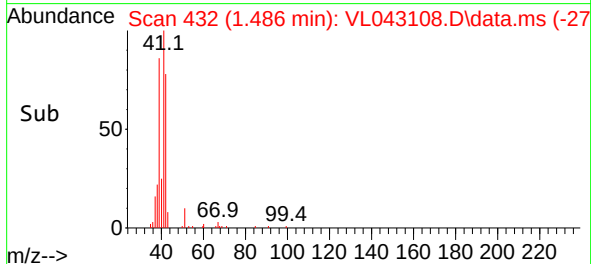
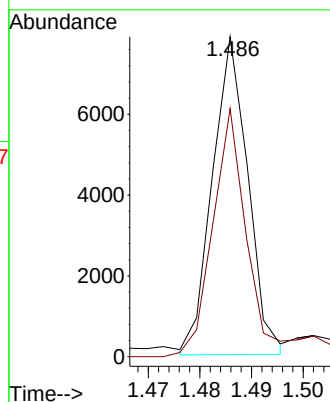
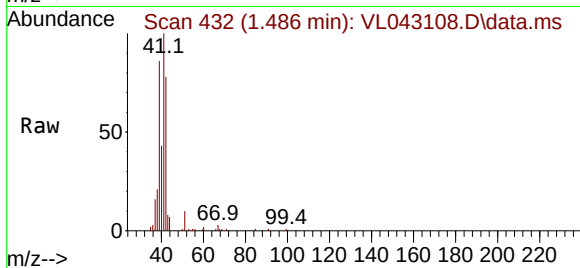
VSTDIC0.5

Tgt Ion: 41 Resp: 3750

Ion Ratio Lower Upper

41 100

42 75.0 55.1 82.7



#10

Heptane

Concen: 0.304 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. -0.003 min

Lab File: VL043108.D

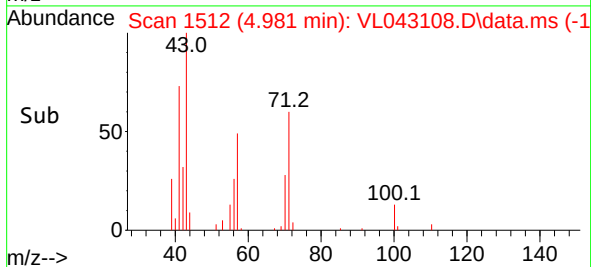
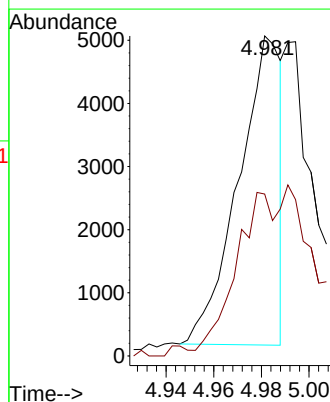
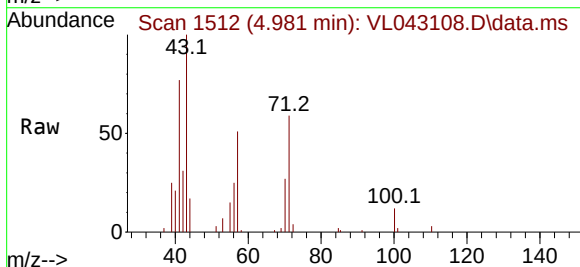
Acq: 14 Oct 2025 12:34

Tgt Ion: 43 Resp: 6039

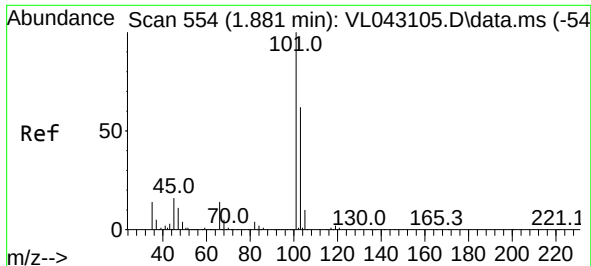
Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#



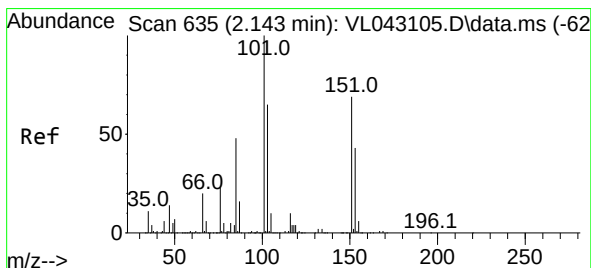
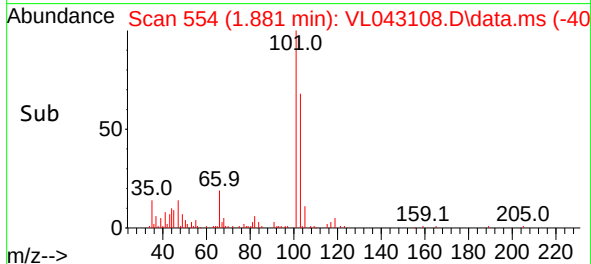
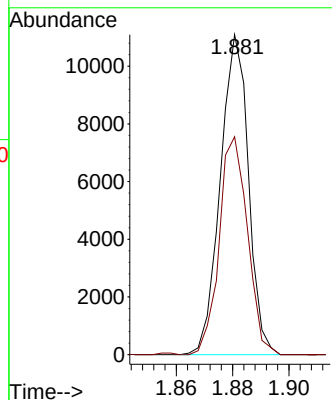
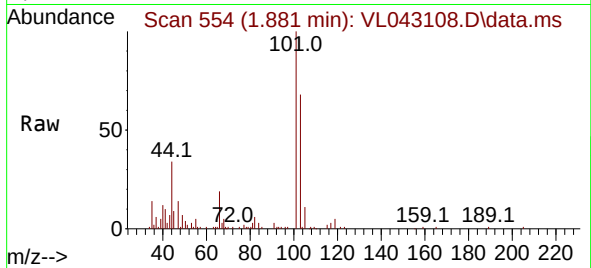




#11  
 Trichlorofluoromethane  
 Concen: 0.543 ppbv  
 RT: 1.881 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

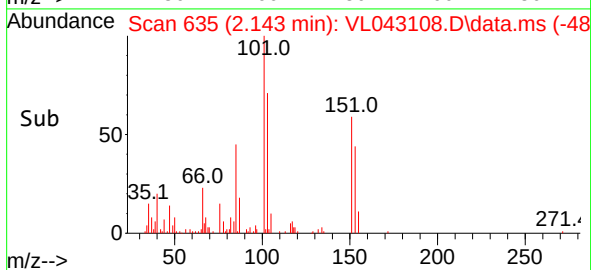
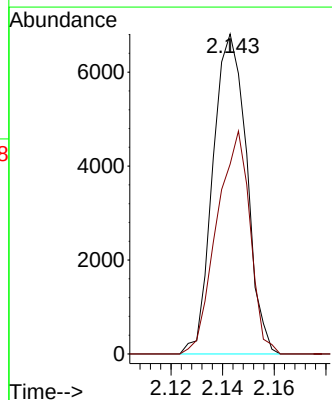
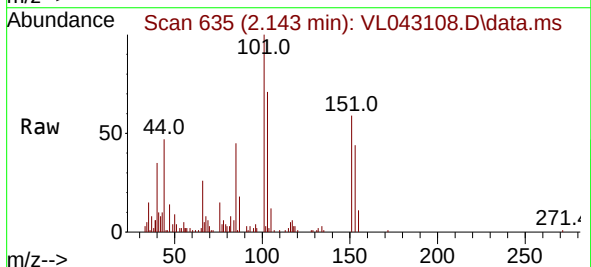
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

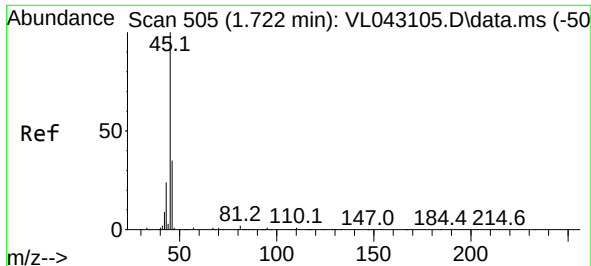
Tgt Ion:101 Resp: 7672  
 Ion Ratio Lower Upper  
 101 100  
 103 68.1 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.543 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion:101 Resp: 6173  
 Ion Ratio Lower Upper  
 101 100  
 151 68.8 54.7 82.1

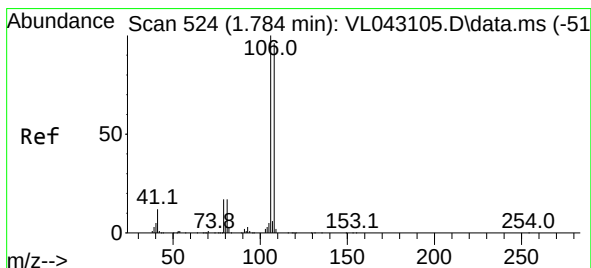
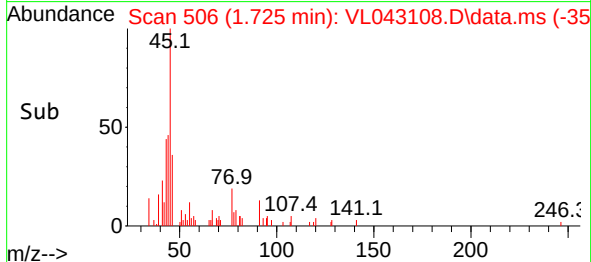
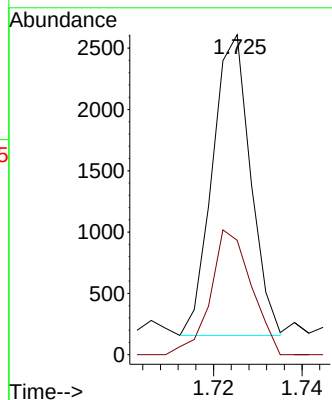
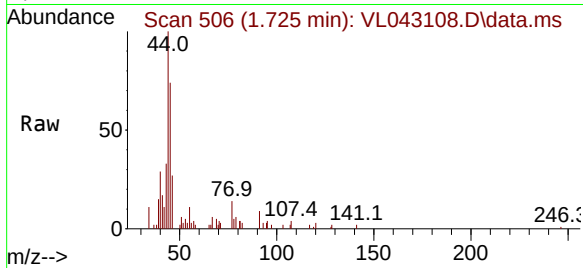




#13  
 Ethanol  
 Concen: 0.572 ppbv  
 RT: 1.725 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

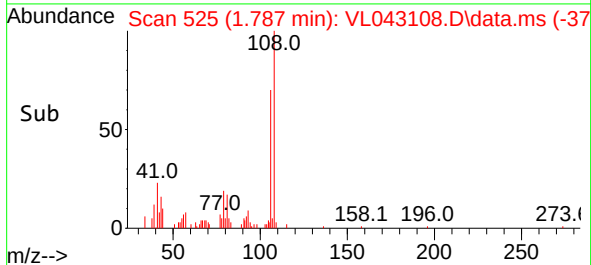
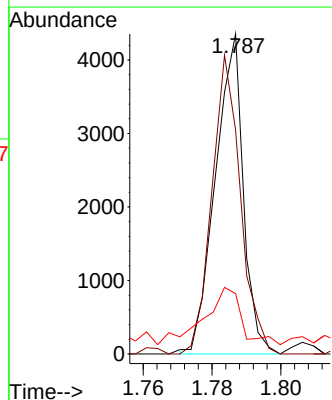
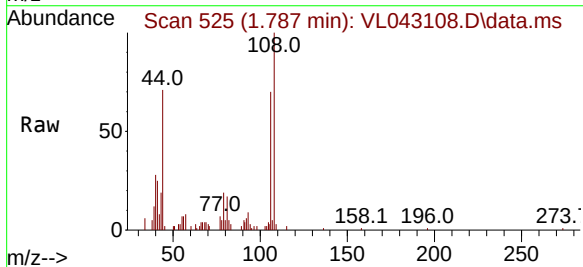
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

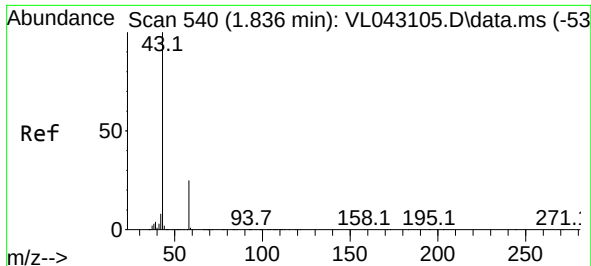
Tgt Ion: 45 Resp: 1468  
 Ion Ratio Lower Upper  
 45 100  
 46 45.1 14.7 58.9



#14  
 Bromoethene  
 Concen: 0.578 ppbv  
 RT: 1.787 min Scan# 525  
 Delta R.T. 0.003 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion: 108 Resp: 2444  
 Ion Ratio Lower Upper  
 108 100  
 106 98.2 84.4 126.6  
 79 31.2 15.3 22.9#





#15

Acetone

Concen: 0.576 ppbv

RT: 1.839 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

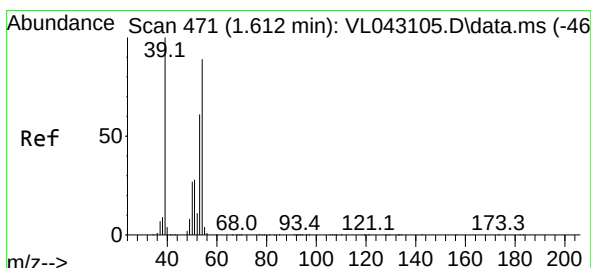
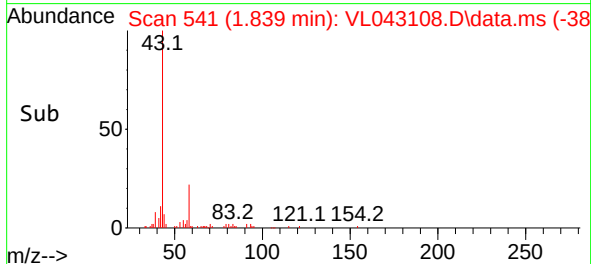
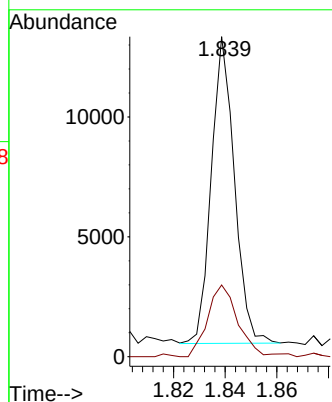
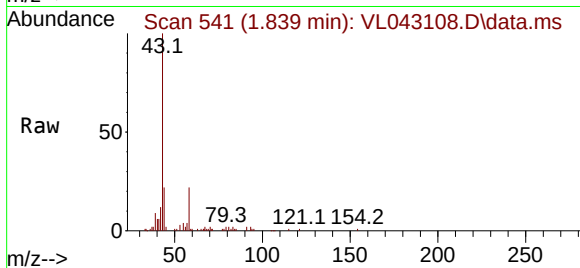
VSTDIC0.5

Tgt Ion: 43 Resp: 7931

Ion Ratio Lower Upper

43 100

58 32.0 20.8 31.2#



#16

1,3-Butadiene

Concen: 0.607 ppbv

RT: 1.612 min Scan# 471

Delta R.T. -0.000 min

Lab File: VL043108.D

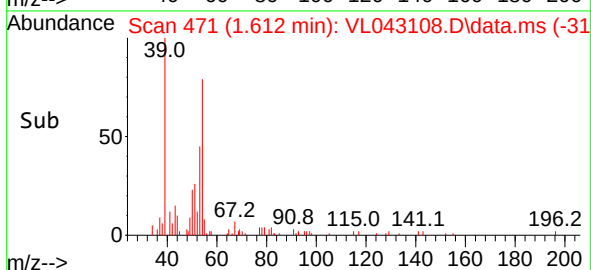
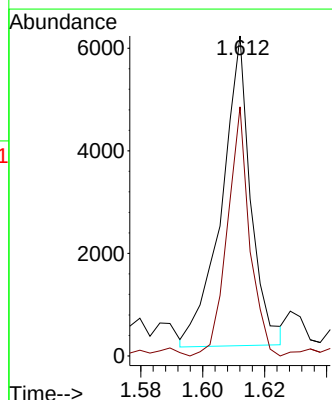
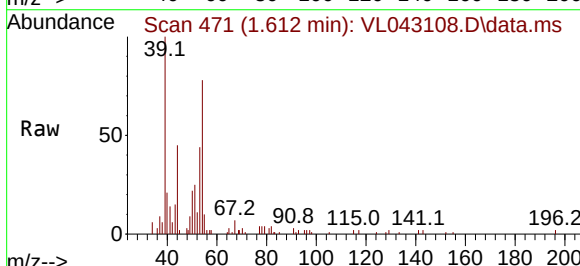
Acq: 14 Oct 2025 12:34

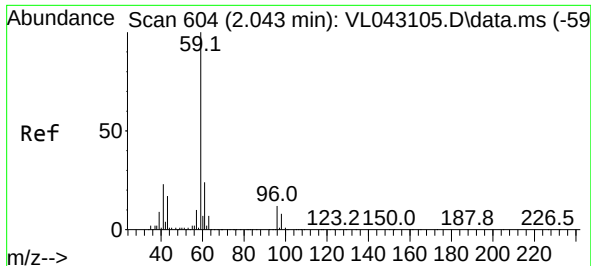
Tgt Ion: 39 Resp: 3962

Ion Ratio Lower Upper

39 100

54 66.1 59.0 88.4

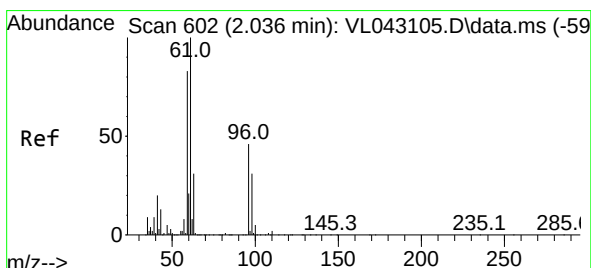
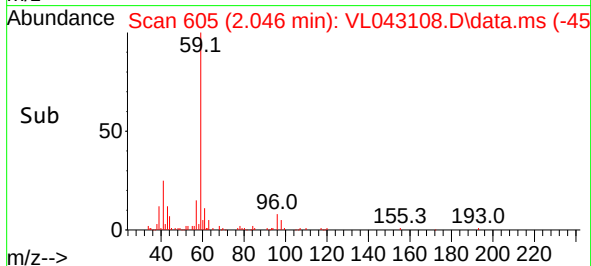
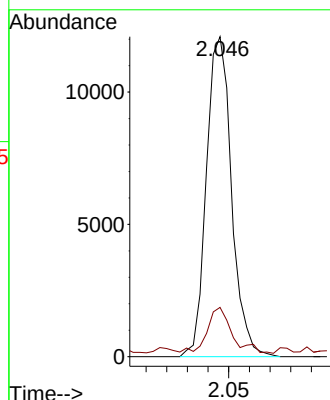
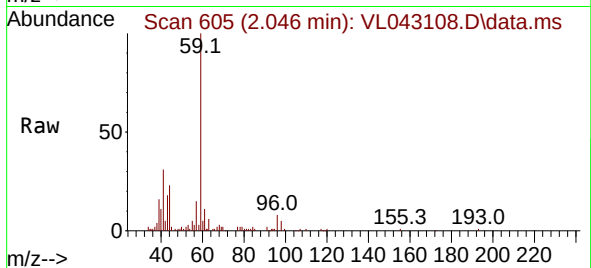




#17  
tert-Butyl alcohol  
Concen: 0.543 ppbv  
RT: 2.046 min Scan# 604  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

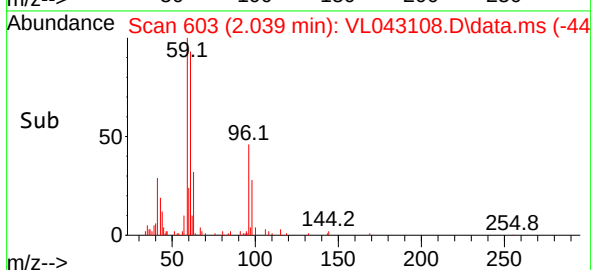
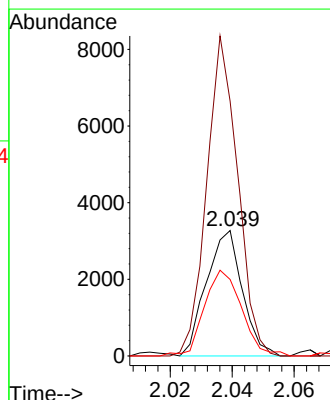
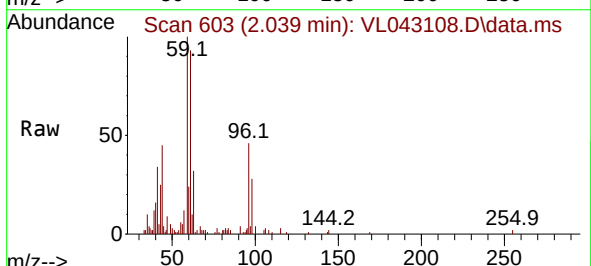
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

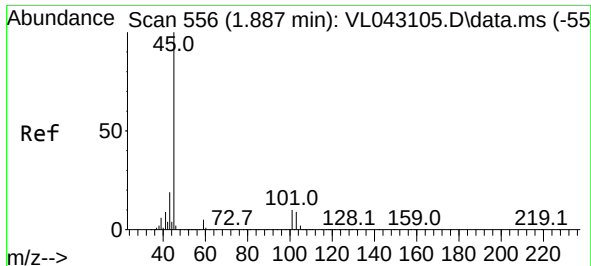
Tgt Ion: 59 Resp: 10213  
Ion Ratio Lower Upper  
59 100  
57 14.8 8.2 12.4#



#18  
1,1-Dichloroethene  
Concen: 0.531 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 96 Resp: 2636  
Ion Ratio Lower Upper  
96 100  
61 203.1 173.4 260.0  
98 59.2 53.2 79.8

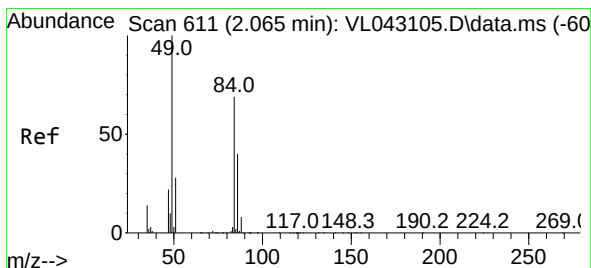
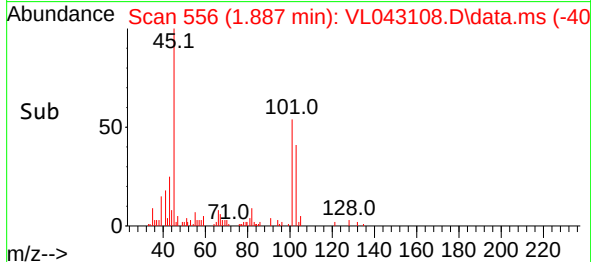
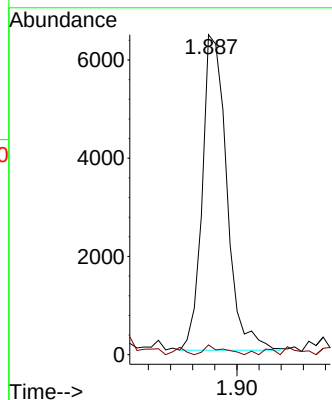
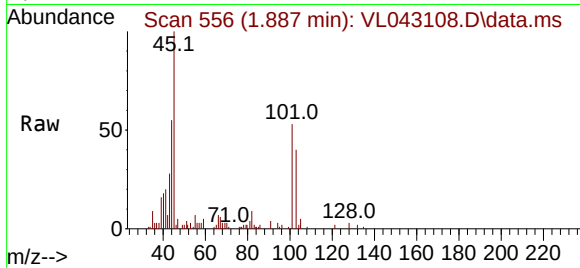




#19  
Isopropyl Alcohol  
Concen: 0.578 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

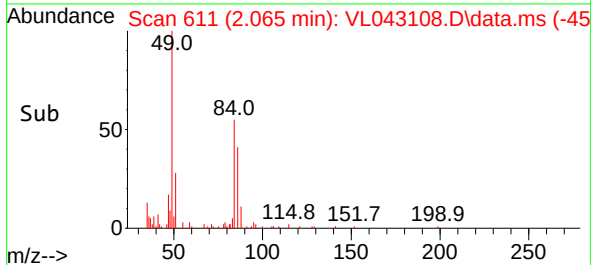
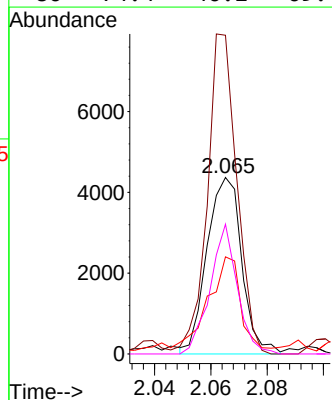
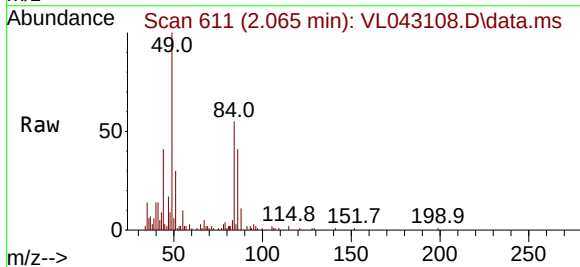
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

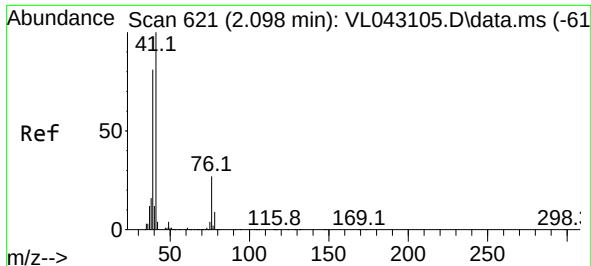
Tgt Ion: 45 Resp: 4932  
Ion Ratio Lower Upper  
45 100  
58 4.1 31.3 46.9#



#20  
Methylene Chloride  
Concen: 0.693 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 84 Resp: 3750  
Ion Ratio Lower Upper  
84 100  
49 182.8 116.6 175.0#  
51 51.9 34.8 52.2  
86 74.4 46.2 69.4#

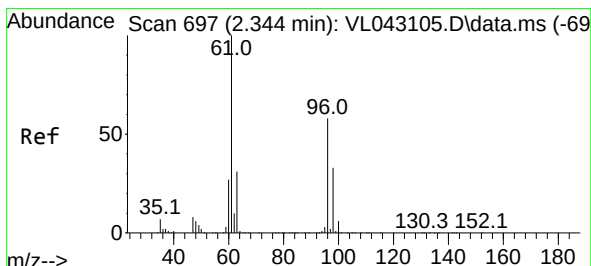
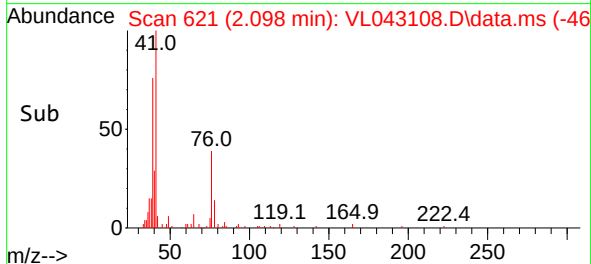
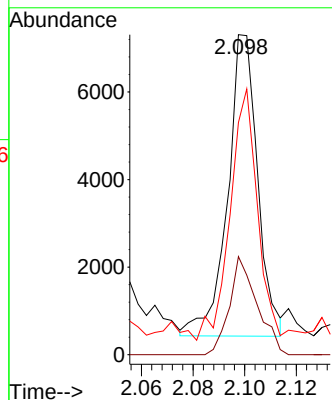
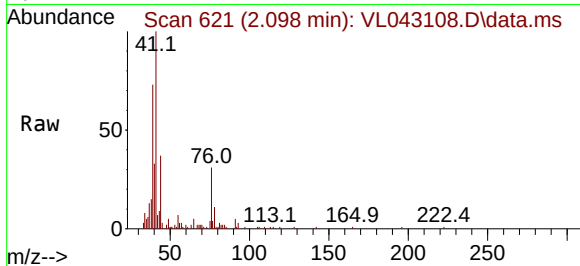




#21  
 Allyl Chloride  
 Concen: 0.551 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

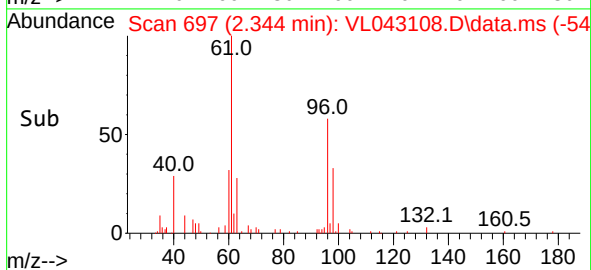
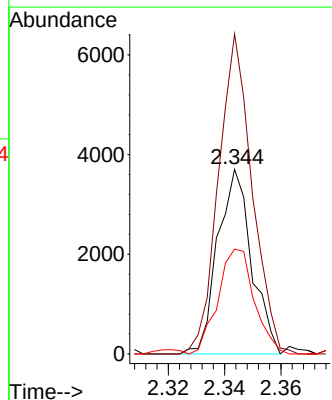
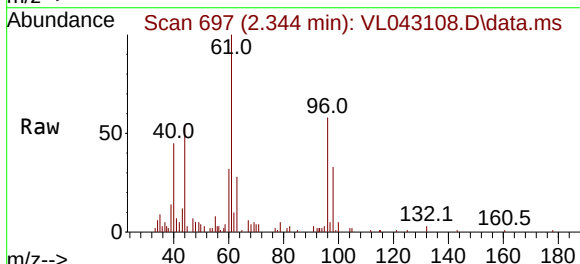
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

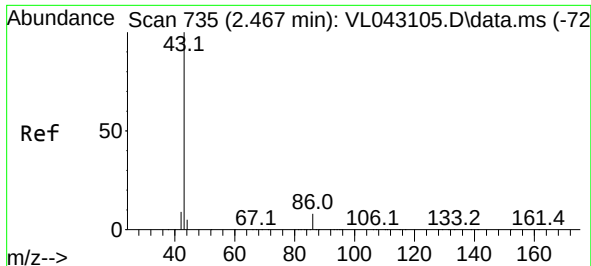
|             |                |
|-------------|----------------|
| Tgt Ion: 41 | Resp: 5575     |
| Ion Ratio   | Lower Upper    |
| 41          | 100            |
| 76          | 30.0 21.5 32.3 |
| 39          | 75.1 60.8 91.2 |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.522 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

|             |                   |
|-------------|-------------------|
| Tgt Ion: 96 | Resp: 3093        |
| Ion Ratio   | Lower Upper       |
| 96          | 100               |
| 61          | 173.3 137.0 205.6 |
| 98          | 55.0 45.5 68.3    |

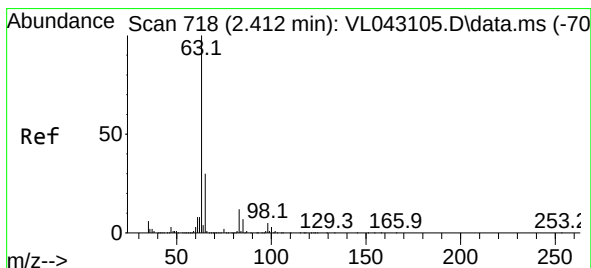
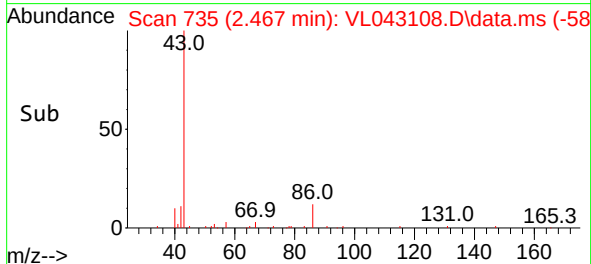
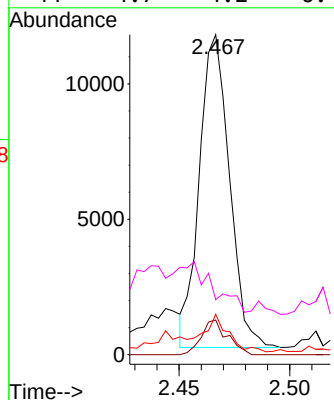
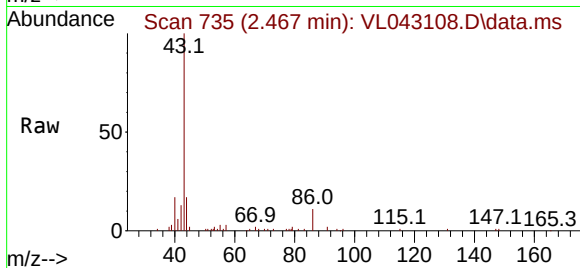




#23  
Vinyl Acetate  
Concen: 0.544 ppbv  
RT: 2.467 min Scan# 718  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

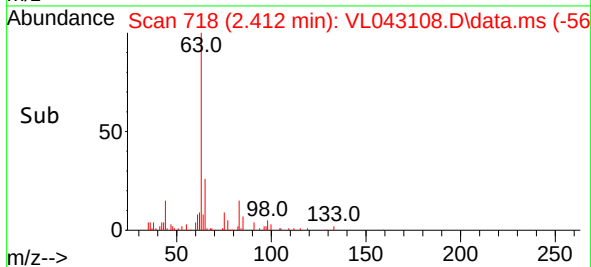
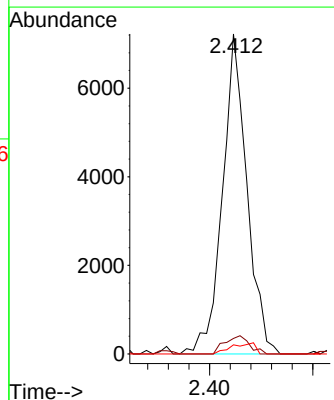
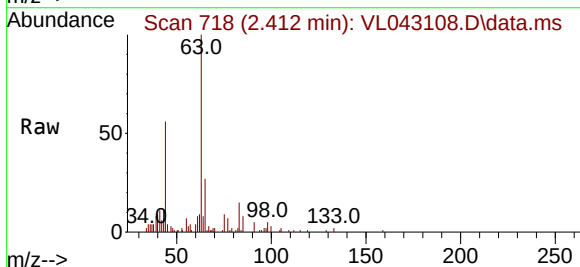
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

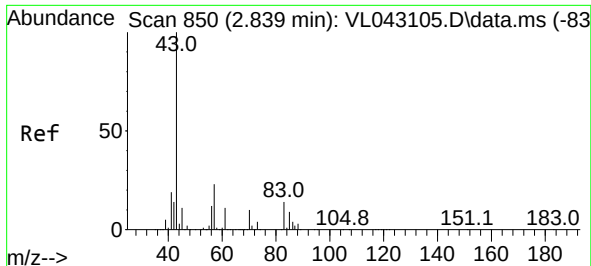
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 10914 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 11.1  | 6.2   | 9.2#  |
| 42       | 9.0   | 7.6   | 11.4  |
| 44       | 4.7   | 4.2   | 6.4   |



#24  
1,1-Dichloroethane  
Concen: 0.519 ppbv  
RT: 2.412 min Scan# 718  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 5942  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.8   | 2.6   | 7.8   |
| 100      | 2.8   | 1.5   | 4.4   |

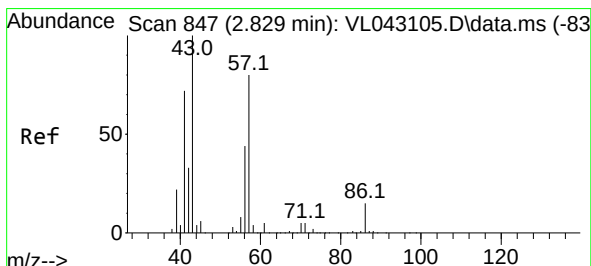
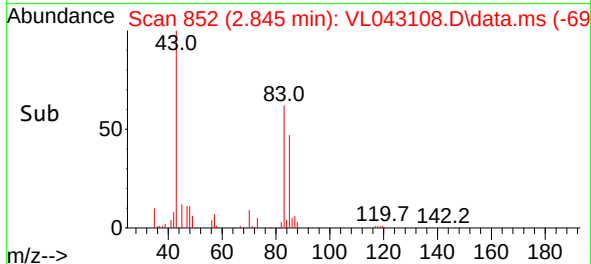
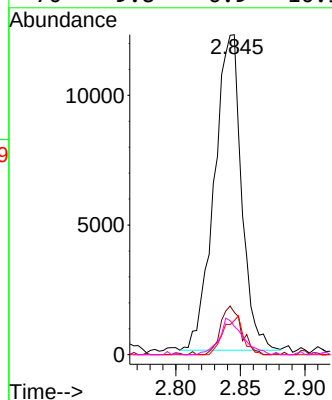
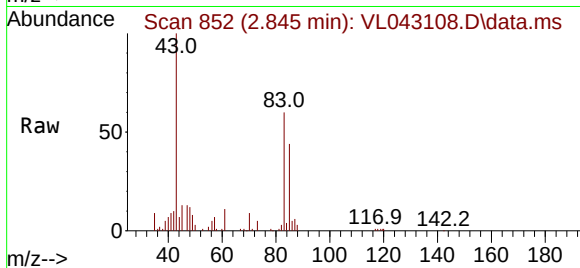




#25  
Ethyl Acetate  
Concen: 0.527 ppbv  
RT: 2.845 min Scan# 850  
Delta R.T. 0.006 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

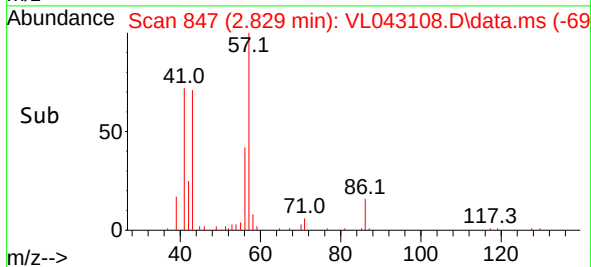
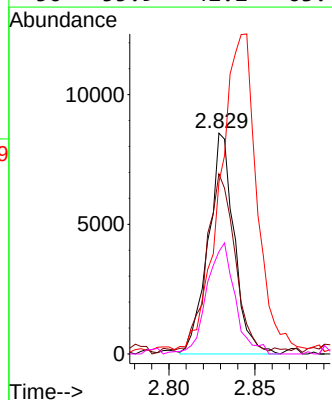
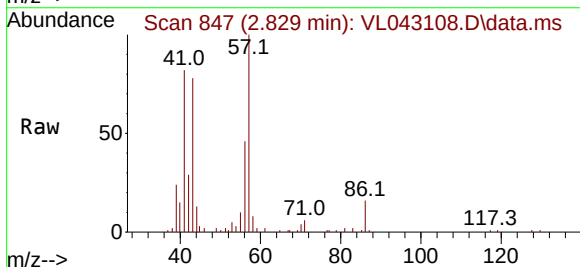
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 17918 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 12.3     | 7.8 11.8#   |
| 61 8.8      | 7.0 10.6    |
| 70 9.8      | 6.9 10.3    |

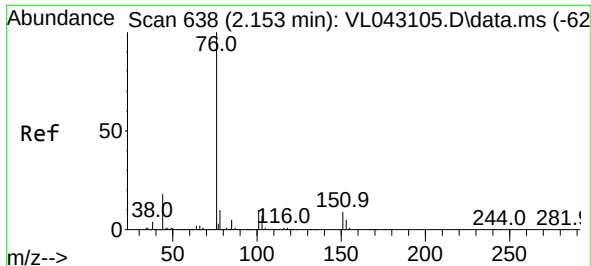


#26  
Hexane  
Concen: 0.569 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 8908  |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 90.3     | 71.4 107.0  |
| 43 211.8    | 178.5 267.7 |
| 56 55.9     | 42.2 63.4   |



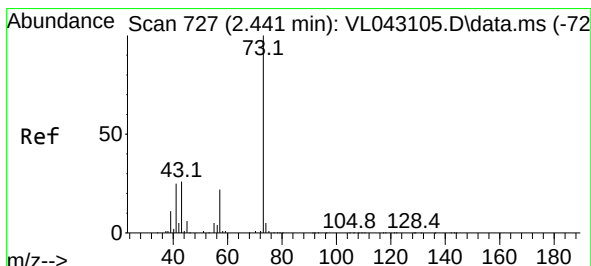
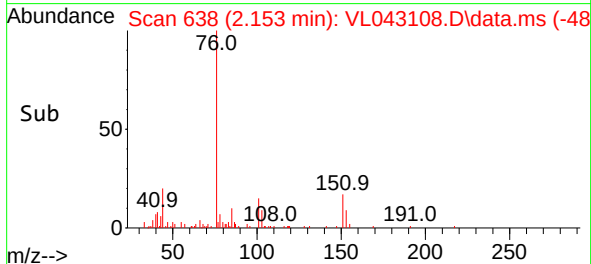
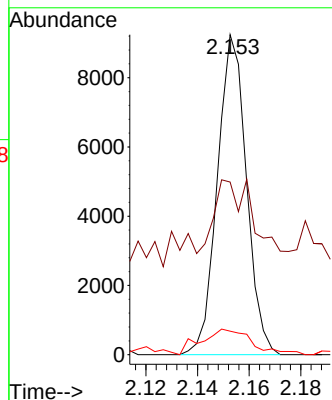
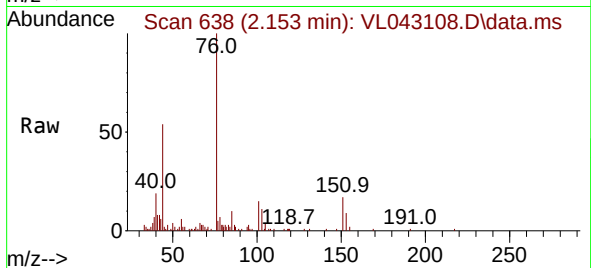




#27  
Carbon Disulfide  
Concen: 0.504 ppbv  
RT: 2.153 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

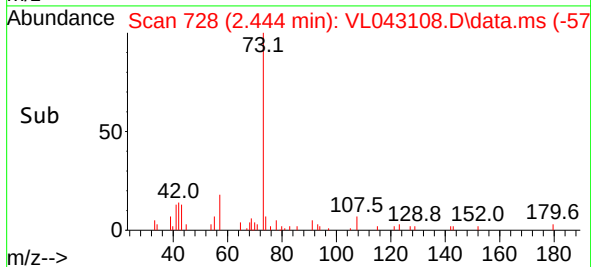
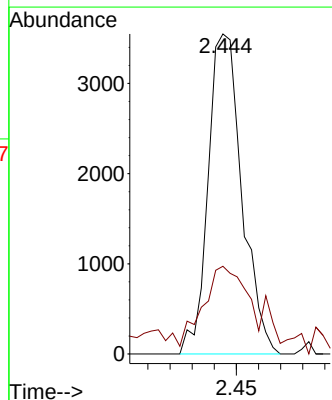
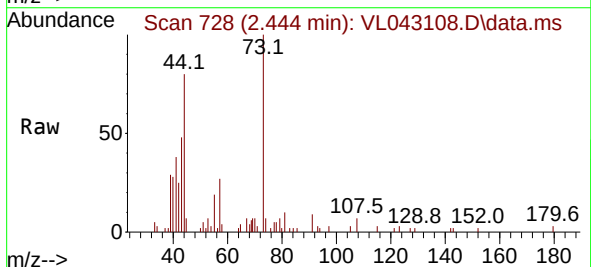
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

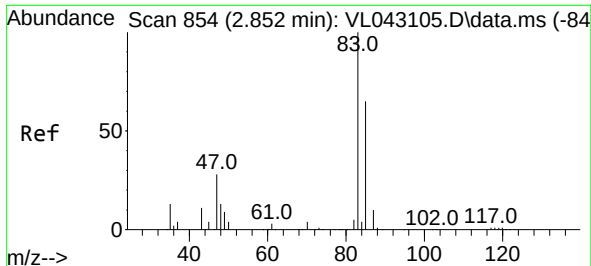
Tgt Ion: 76 Resp: 7230  
Ion Ratio Lower Upper  
76 100  
44 120.9 16.7 25.1#  
78 13.9 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 0.529 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 73 Resp: 3770  
Ion Ratio Lower Upper  
73 100  
57 52.7 20.5 30.7#





#29

Chloroform

Concen: 0.546 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

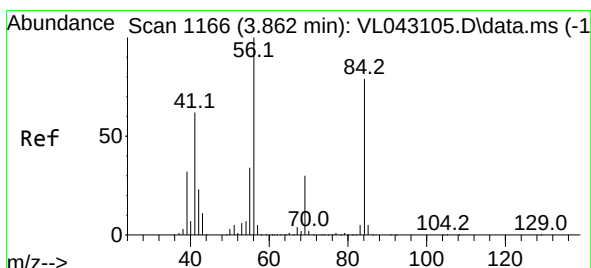
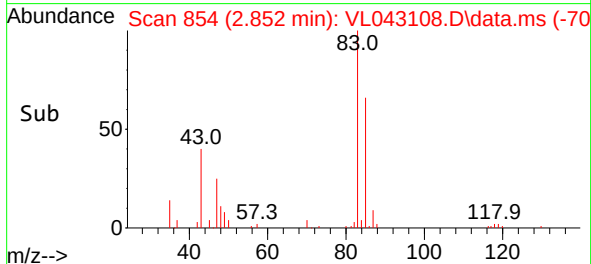
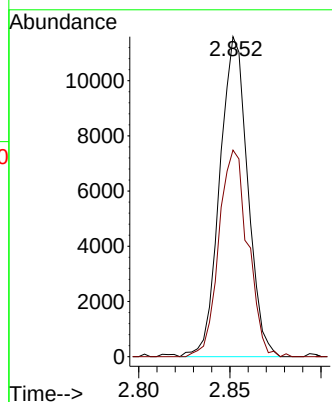
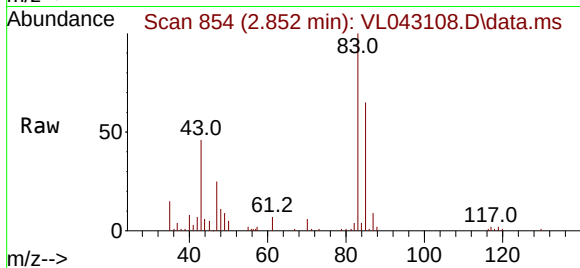
VSTDIC0.5

Tgt Ion: 83 Resp: 12384

Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.6



#30

Cyclohexane

Concen: 0.511 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

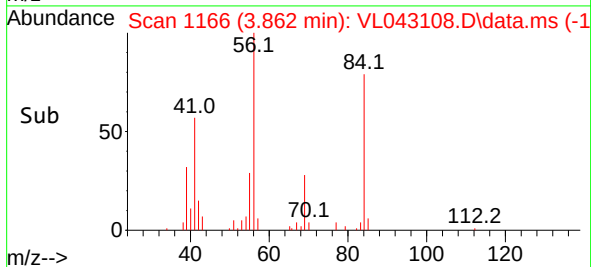
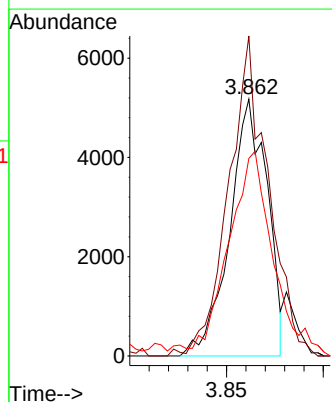
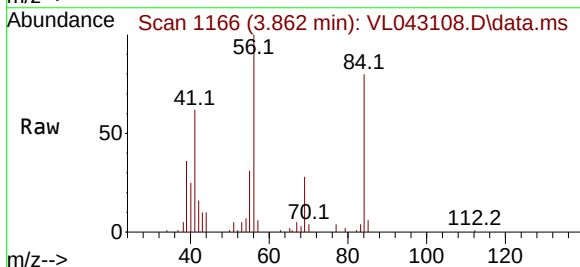
Tgt Ion: 84 Resp: 6978

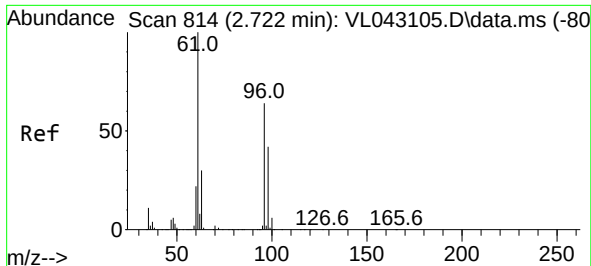
Ion Ratio Lower Upper

84 100

56 131.8 100.9 151.3

41 99.7 63.8 95.6#

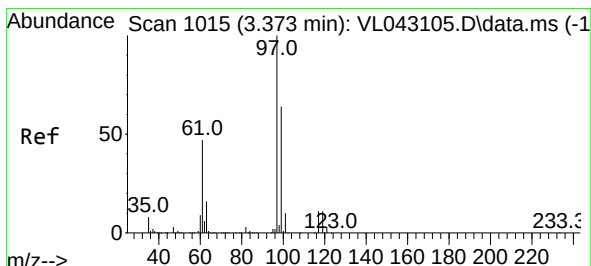
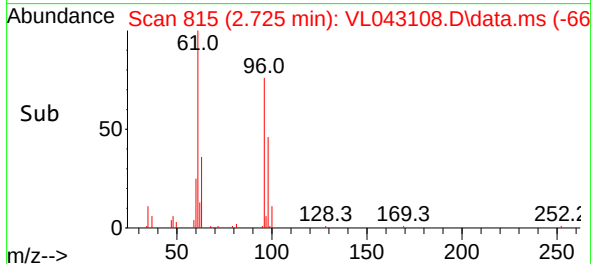
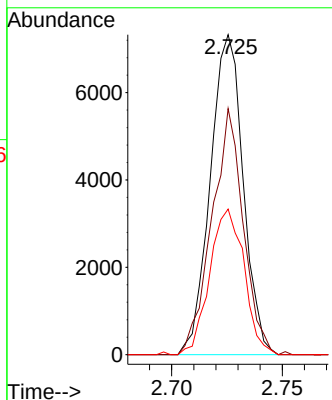
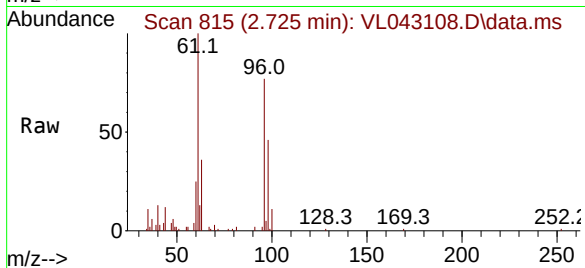




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.507 ppbv  
 RT: 2.725 min Scan# 814  
 Delta R.T. 0.003 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

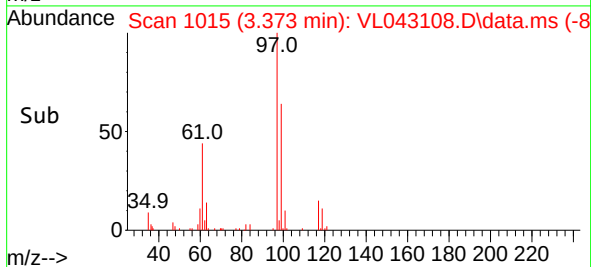
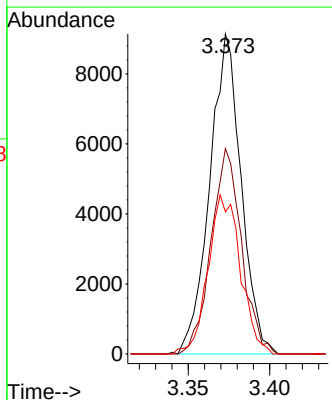
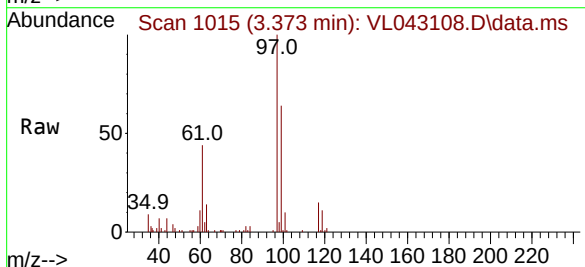
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

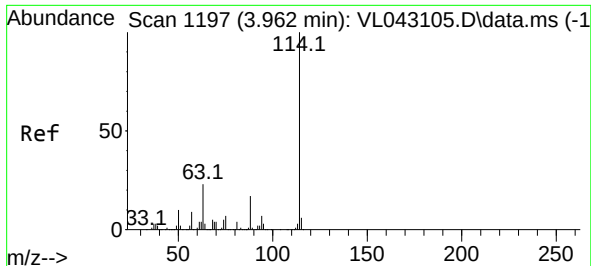
Tgt Ion: 61 Resp: 7576  
 Ion Ratio Lower Upper  
 61 100  
 96 76.9 51.0 76.6#  
 98 45.5 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 0.518 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Tgt Ion: 97 Resp: 12234  
 Ion Ratio Lower Upper  
 97 100  
 99 62.0 51.3 76.9  
 61 51.2 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

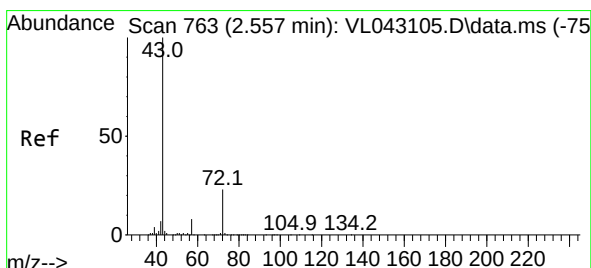
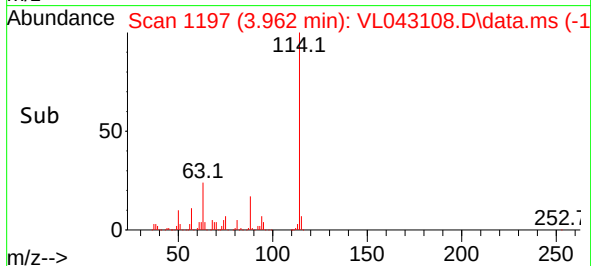
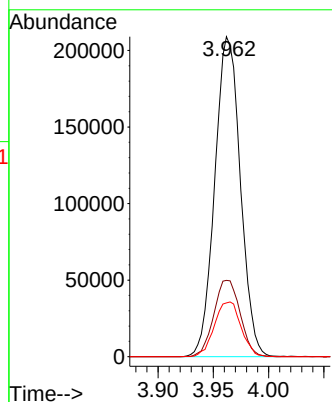
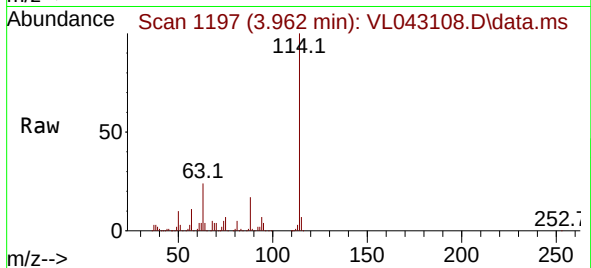
Tgt Ion:114 Resp: 336188

Ion Ratio Lower Upper

114 100

63 24.6 19.3 28.9

88 17.9 13.9 20.9



#34

2-Butanone

Concen: 0.557 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043108.D

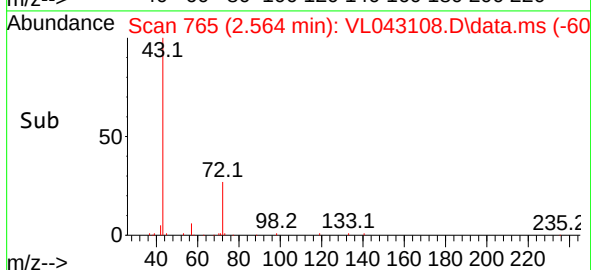
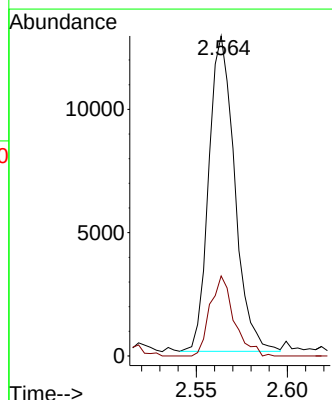
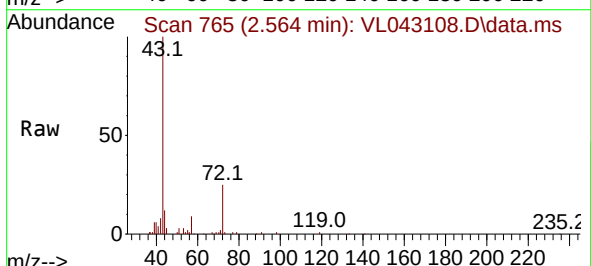
Acq: 14 Oct 2025 12:34

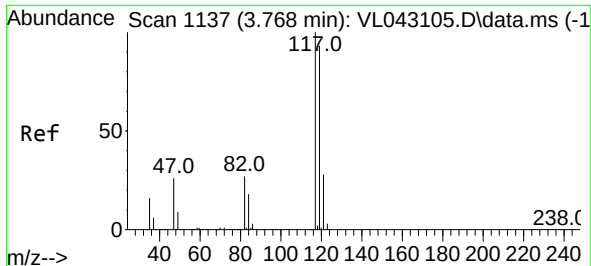
Tgt Ion: 43 Resp: 12659

Ion Ratio Lower Upper

43 100

72 23.4 18.4 27.6

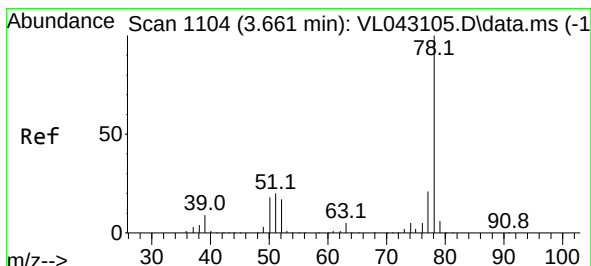
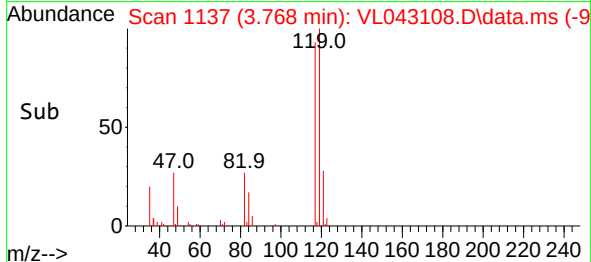
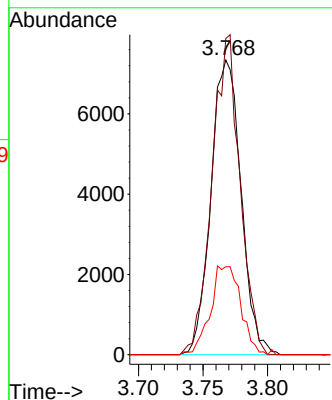
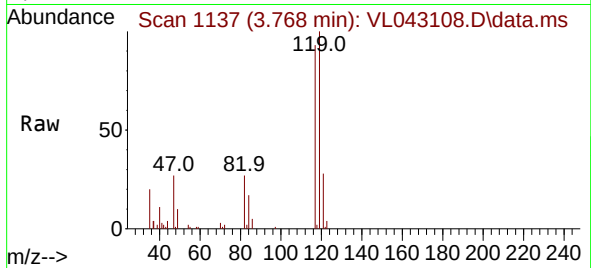




#35  
Carbon Tetrachloride  
Concen: 0.494 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

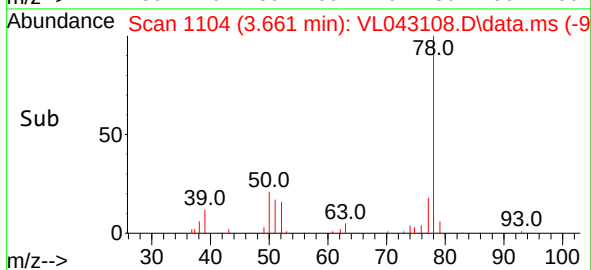
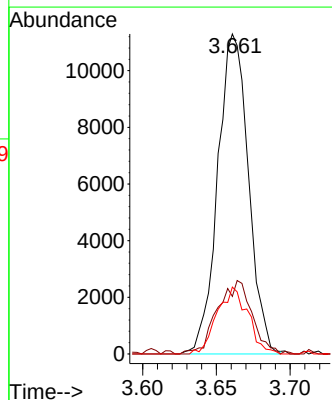
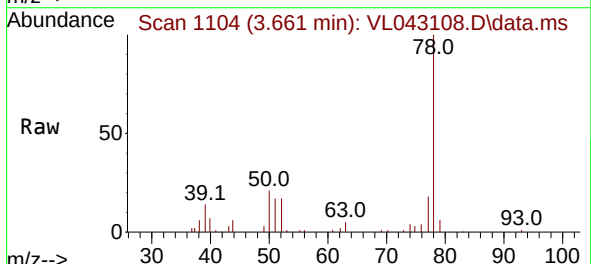
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

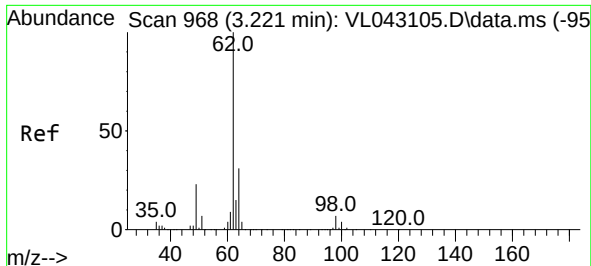
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:117 | Resp: | 11931       |
| Ion         | Ratio | Lower Upper |
| 117         | 100   |             |
| 119         | 107.3 | 74.1 111.1  |
| 121         | 29.9  | 22.2 33.2   |



#36  
Benzene  
Concen: 0.517 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 78 | Resp: | 16376       |
| Ion         | Ratio | Lower Upper |
| 78          | 100   |             |
| 77          | 18.0  | 17.0 25.6   |
| 50          | 20.9  | 14.6 22.0   |

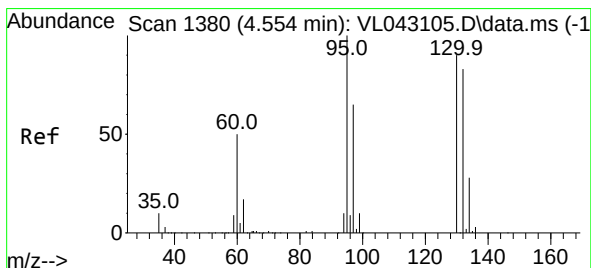
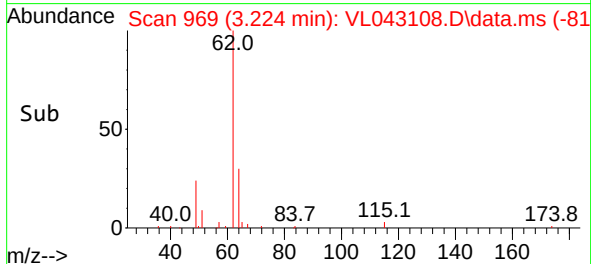
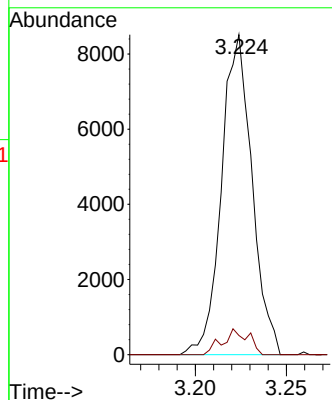
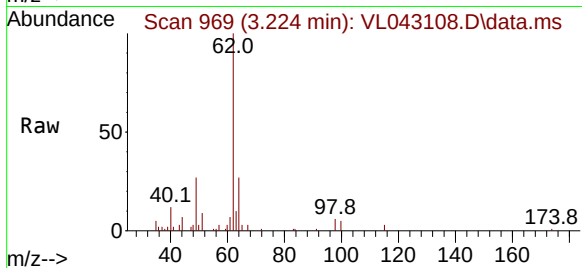




#37  
1,2-Dichloroethane  
Concen: 0.543 ppbv  
RT: 3.224 min Scan# 9  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

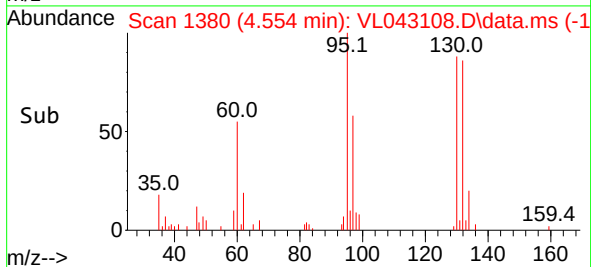
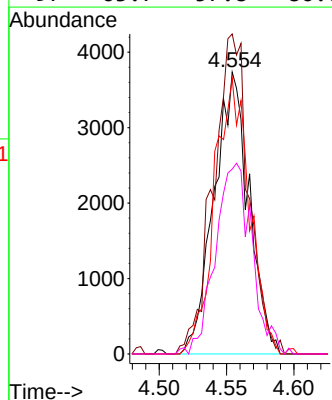
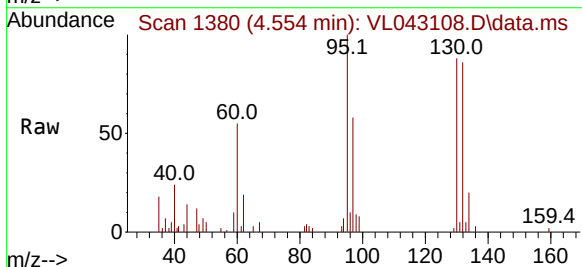
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

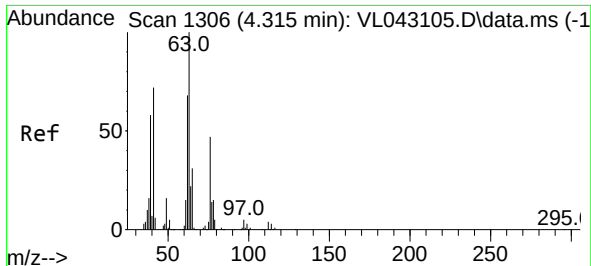
Tgt Ion: 62 Resp: 9907  
Ion Ratio Lower Upper  
62 100  
98 6.8 5.8 8.6



#38  
Trichloroethene  
Concen: 0.511 ppbv  
RT: 4.554 min Scan# 1380  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 130 Resp: 6745  
Ion Ratio Lower Upper  
130 100  
95 110.7 88.6 133.0  
132 97.8 73.4 110.0  
97 63.7 57.8 86.6





#39

1,2-Dichloropropane

Concen: 0.521 ppbv

RT: 4.318 min Scan# 1306

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.5

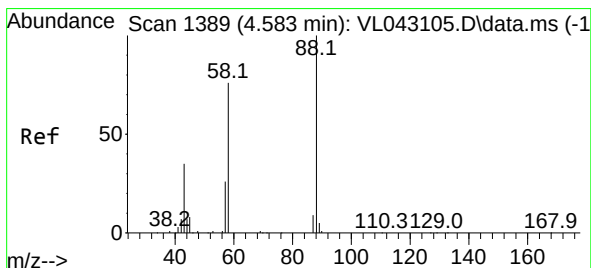
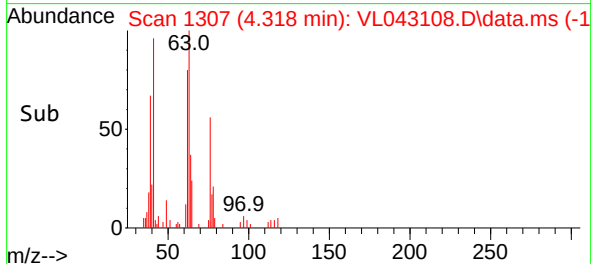
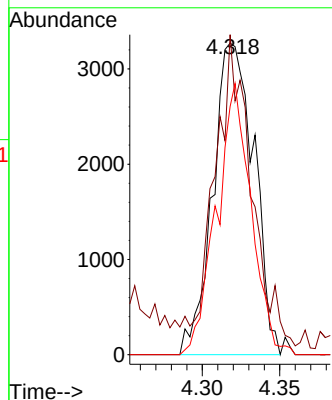
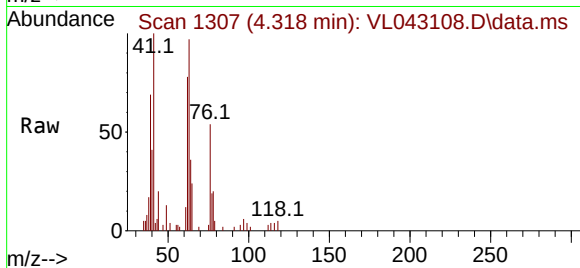
Tgt Ion: 63 Resp: 6032

Ion Ratio Lower Upper

63 100

41 93.9 58.0 87.0#

62 79.6 54.7 82.1



#40

1,4-Dioxane

Concen: 0.252 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.019 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Tgt Ion: 88 Resp: 1303

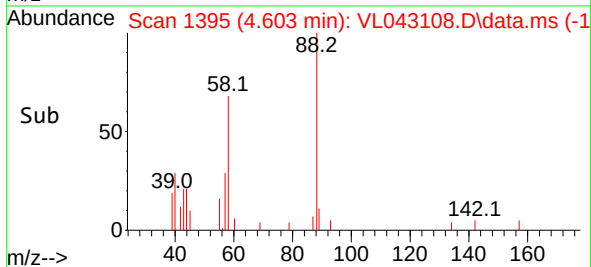
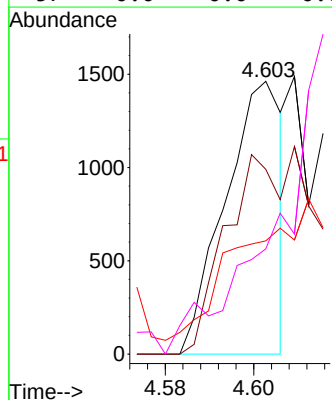
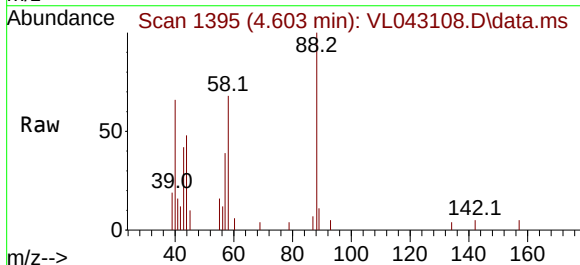
Ion Ratio Lower Upper

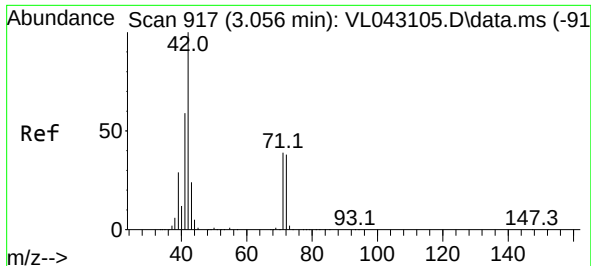
88 100

58 0.0 61.1 91.7#

43 24.5 24.0 36.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.538 ppbv

RT: 3.065 min Scan# 917

Delta R.T. 0.009 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

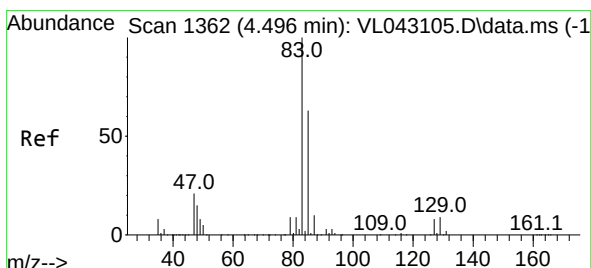
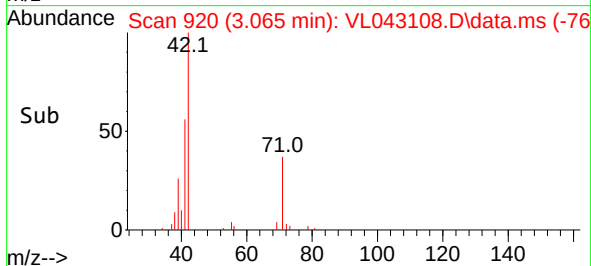
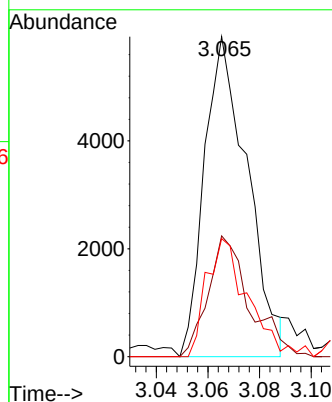
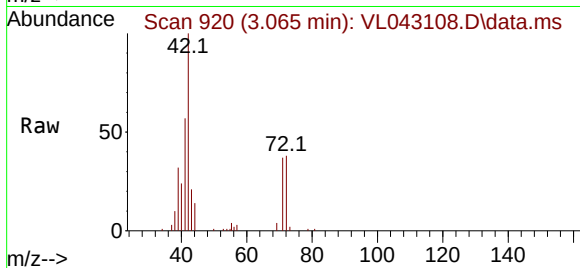
Tgt Ion: 42 Resp: 6831

Ion Ratio Lower Upper

42 100

72 36.6 31.3 46.9

71 37.2 30.4 45.6



#42

Bromodichloromethane

Concen: 0.519 ppbv

RT: 4.496 min Scan# 1362

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

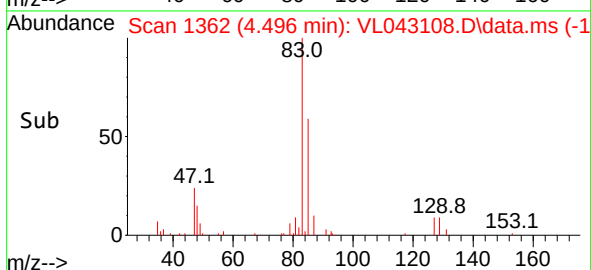
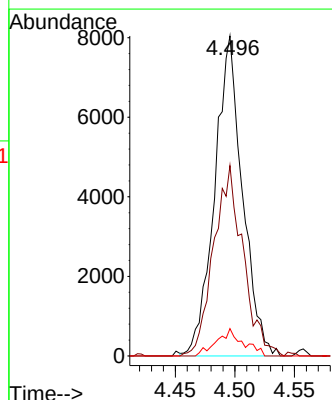
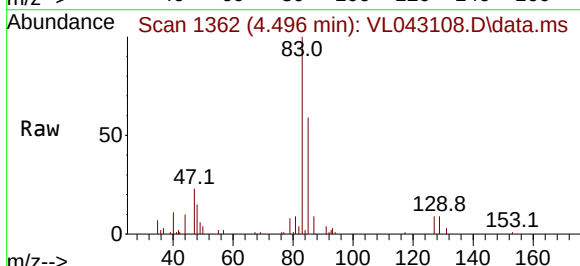
Tgt Ion: 83 Resp: 13094

Ion Ratio Lower Upper

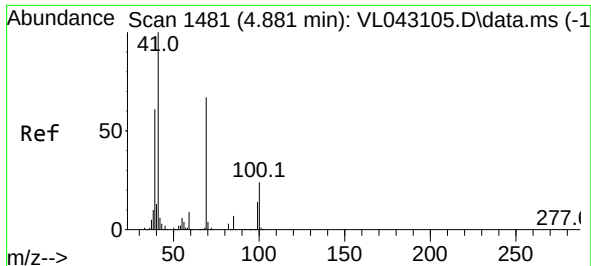
83 100

85 59.5 50.6 75.8

127 8.5 6.3 9.5



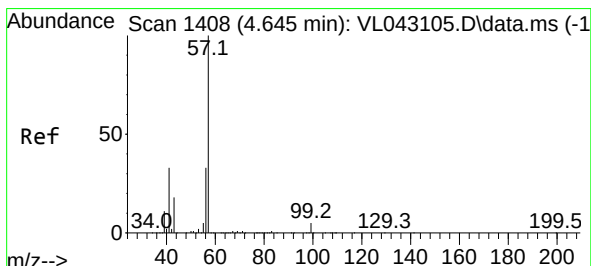
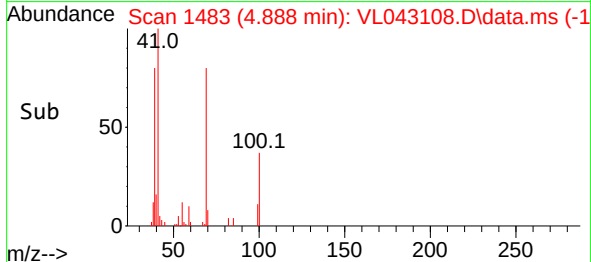
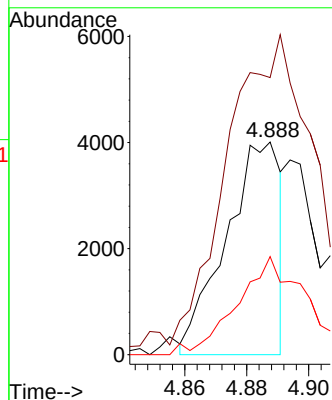
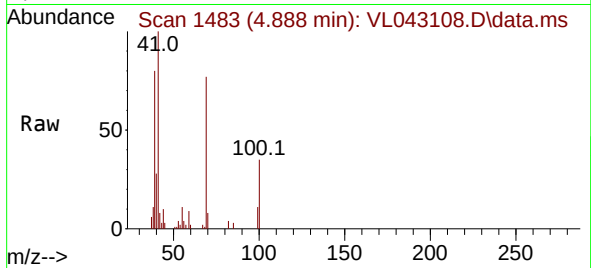




#43  
Methyl Methacrylate  
Concen: 0.303 ppbv  
RT: 4.888 min Scan# 1483  
Delta R.T. 0.006 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

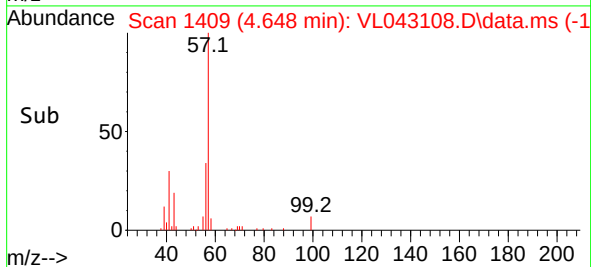
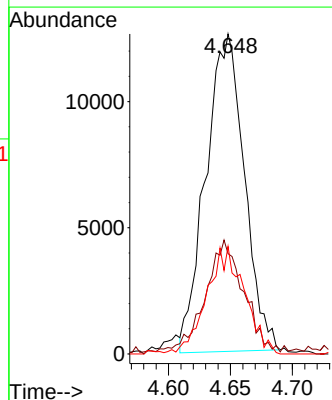
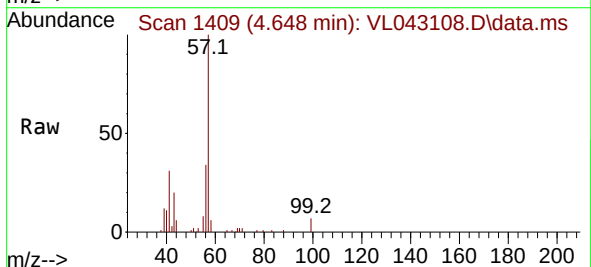
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.5

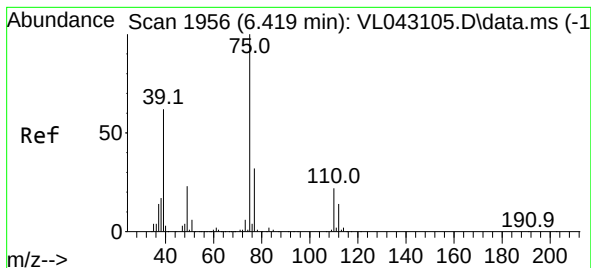
Tgt Ion: 69 Resp: 4902  
Ion Ratio Lower Upper  
69 100  
41 0.0 120.5 180.7#  
100 61.1 29.0 43.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.516 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 57 Resp: 27304  
Ion Ratio Lower Upper  
57 100  
41 34.2 26.3 39.5  
56 33.3 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 0.498 ppbv

RT: 6.425 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

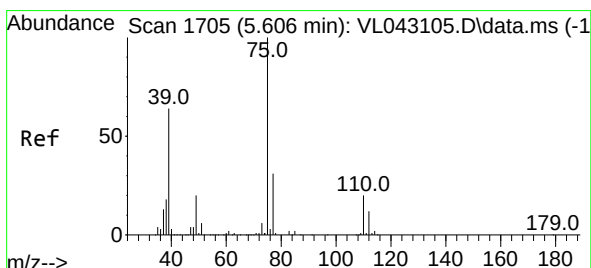
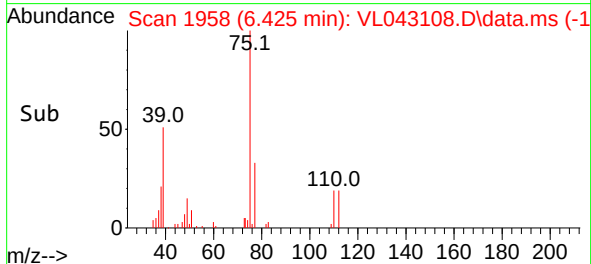
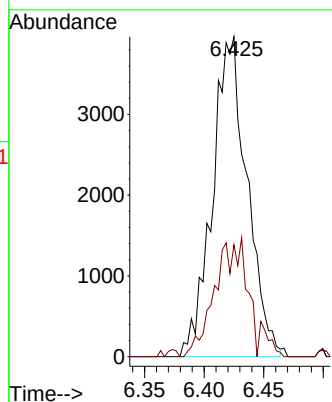
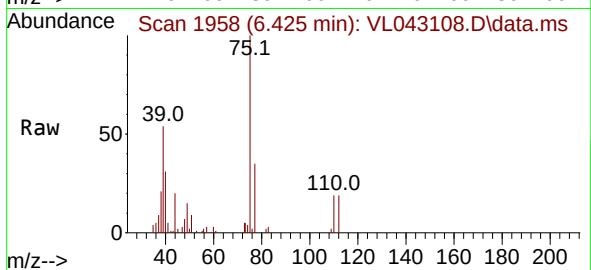
VSTDIC0.5

Tgt Ion: 75 Resp: 8030

Ion Ratio Lower Upper

75 100

77 34.9 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 0.435 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

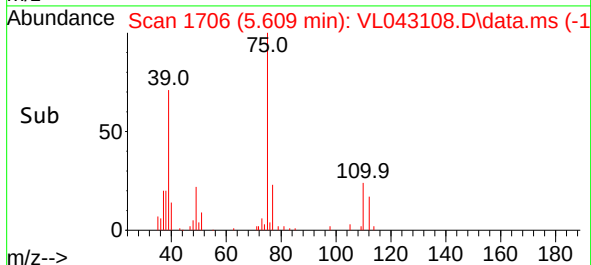
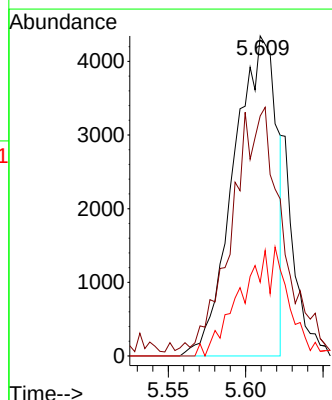
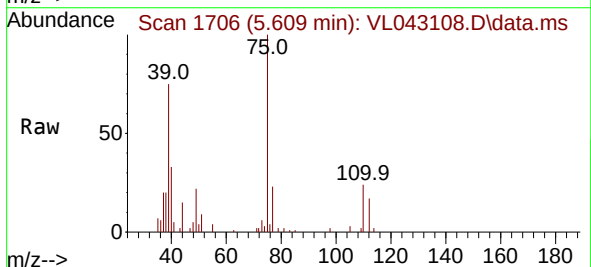
Tgt Ion: 75 Resp: 8375

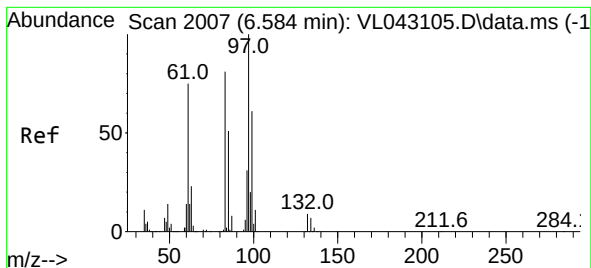
Ion Ratio Lower Upper

75 100

39 72.5 51.0 76.6

77 23.1 25.0 37.4#





#47

1,1,2-Trichloroethane

Concen: 0.560 ppbv

RT: 6.587 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 6996

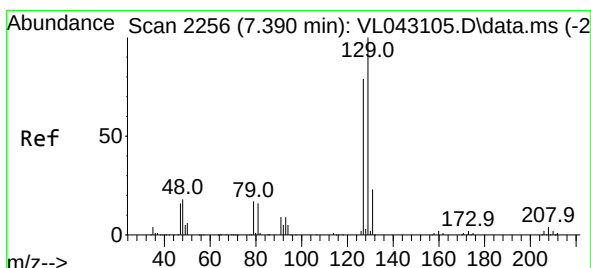
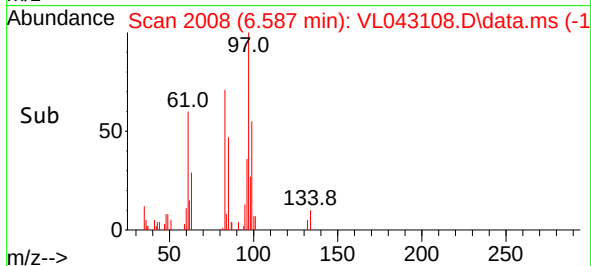
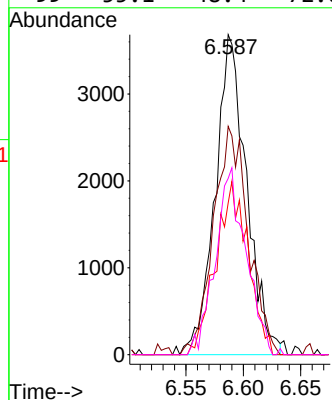
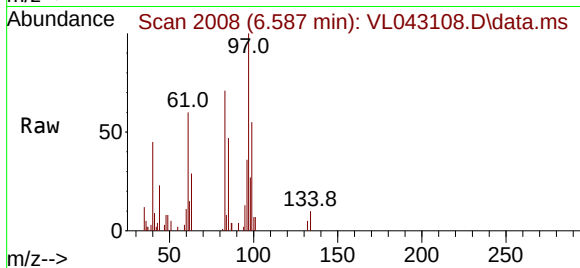
Ion Ratio Lower Upper

97 100

83 71.4 64.6 96.8

85 47.5 40.6 60.8

99 55.1 48.4 72.6



#48

Dibromochloromethane

Concen: 0.498 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043108.D

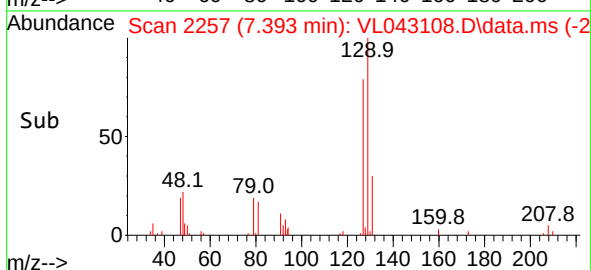
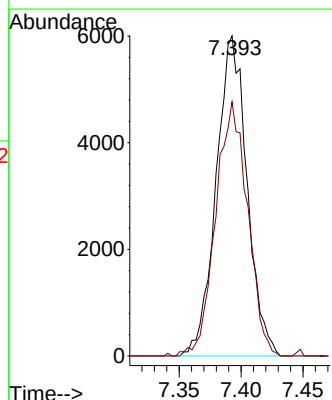
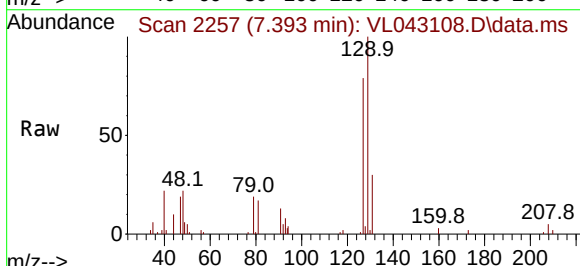
Acq: 14 Oct 2025 12:34

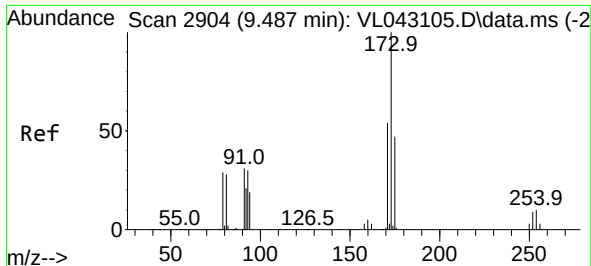
Tgt Ion: 129 Resp: 10413

Ion Ratio Lower Upper

129 100

127 82.2 39.3 117.9

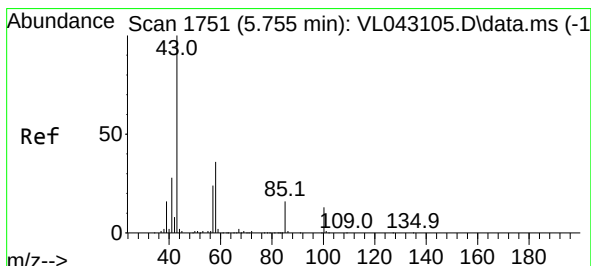
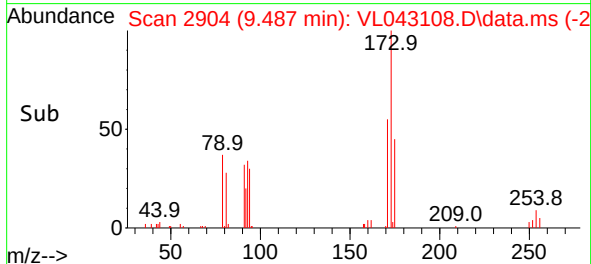
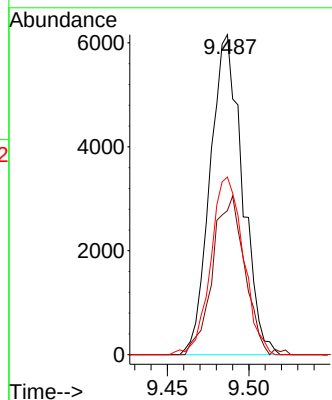
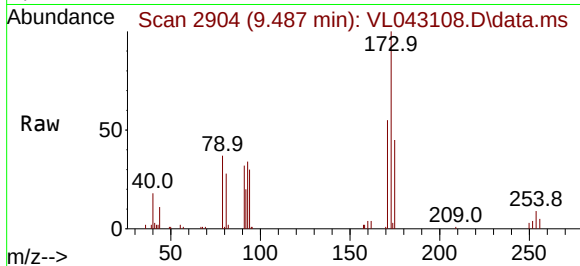




#49  
Bromoform  
Concen: 0.498 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

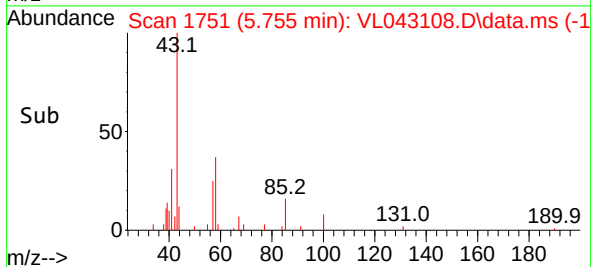
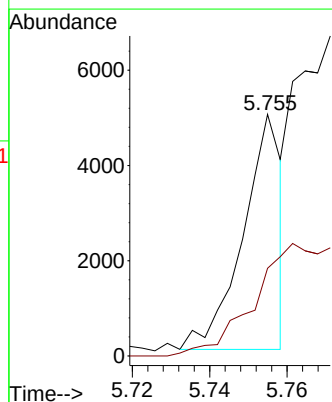
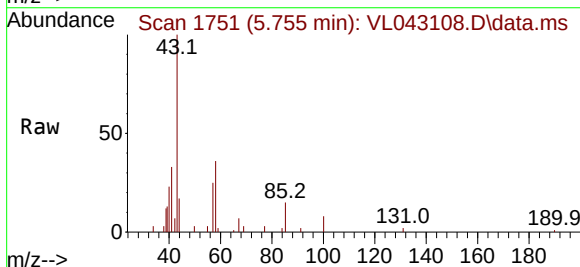
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

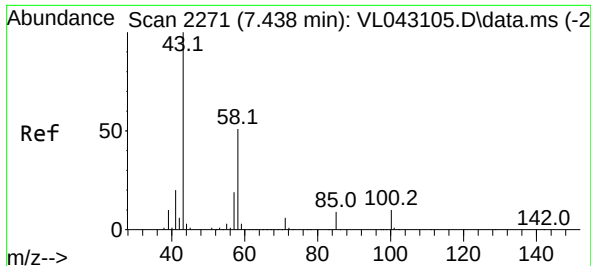
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 8455  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 49.6  | 38.8  | 58.2  |
| 171      | 56.3  | 41.7  | 62.5  |



#50  
4-Methyl-2-Pentanone  
Concen: 0.110 ppbv  
RT: 5.755 min Scan# 1751  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3434  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 29.1  | 43.7# |

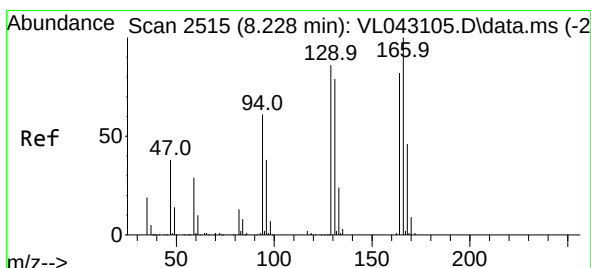
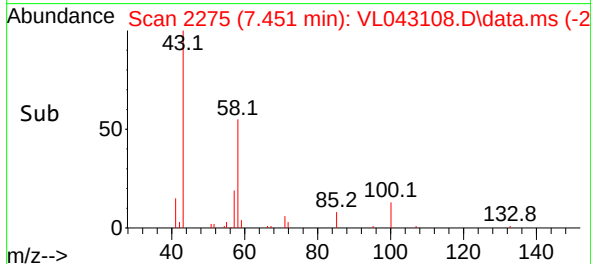
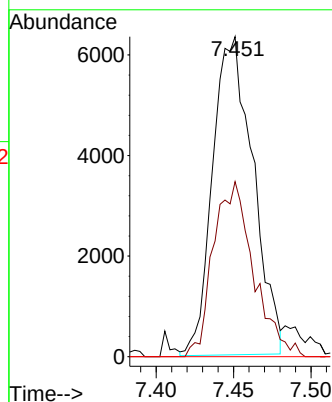
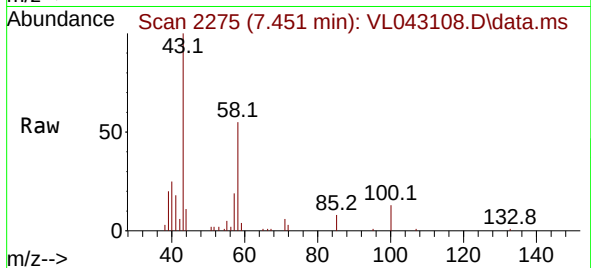




#51  
2-Hexanone  
Concen: 0.491 ppbv  
RT: 7.451 min Scan# 2114  
Delta R.T. 0.013 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

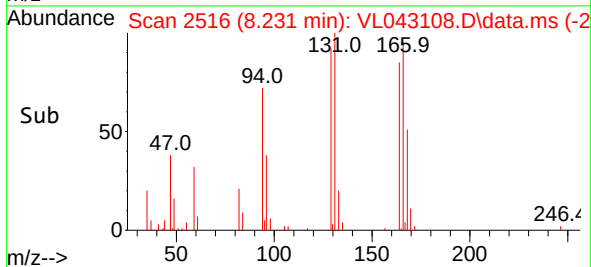
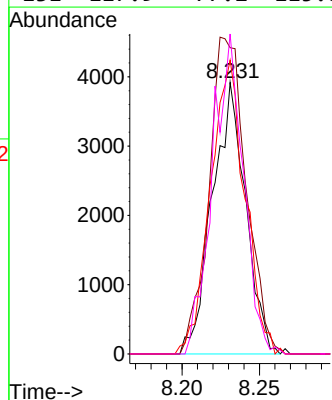
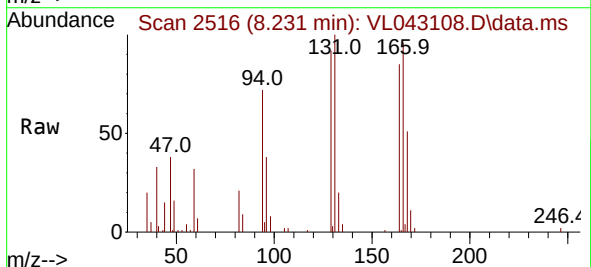
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

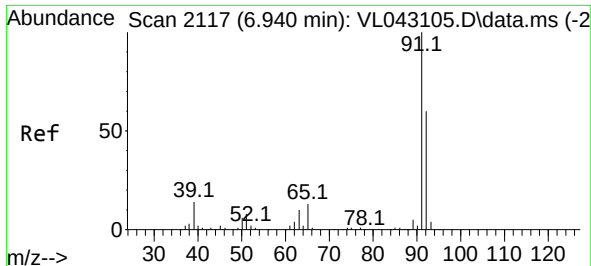
Tgt Ion: 43 Resp: 11485  
Ion Ratio Lower Upper  
43 100  
58 54.7 40.4 60.6  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.513 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 164 Resp: 5863  
Ion Ratio Lower Upper  
164 100  
166 112.8 97.6 146.4  
129 106.1 84.5 126.7  
131 117.9 77.2 115.8#

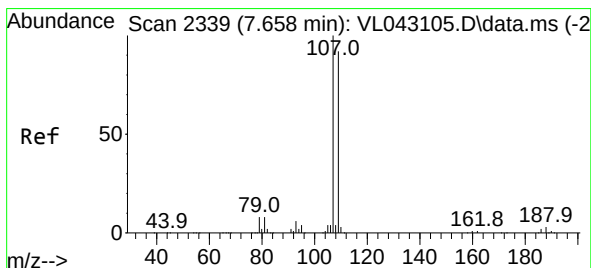
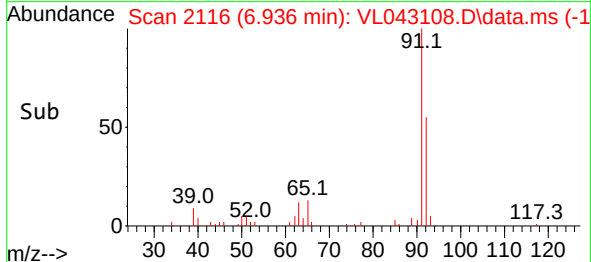
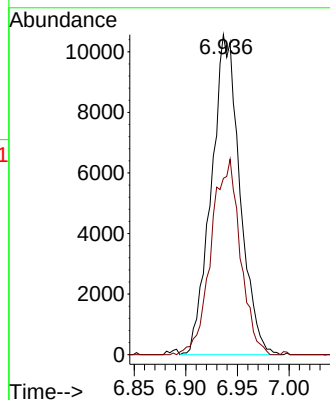
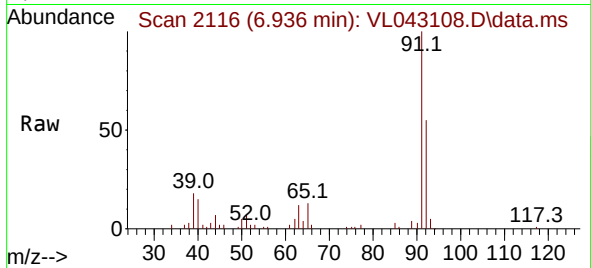




#53  
Toluene  
Concen: 0.542 ppbv  
RT: 6.936 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

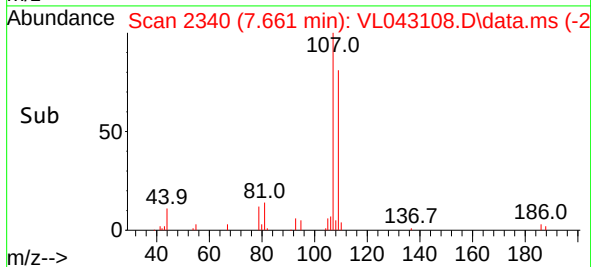
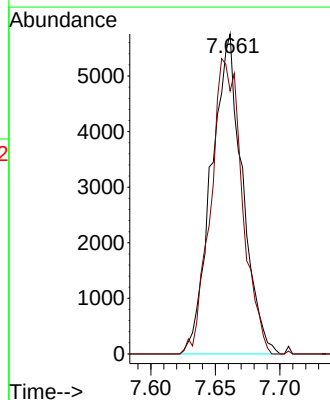
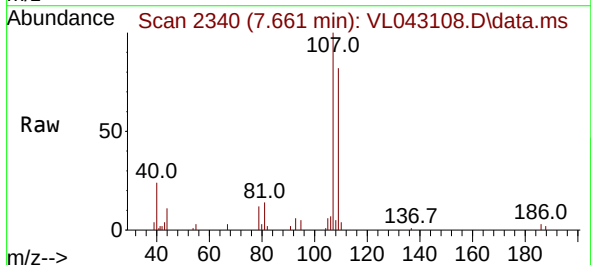
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

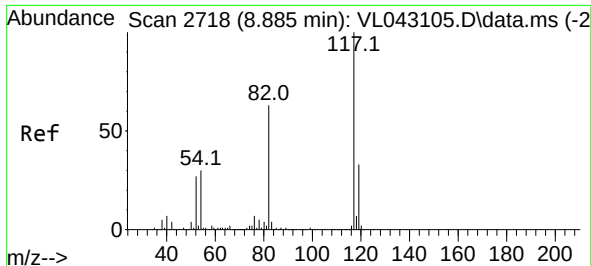
Tgt Ion: 91 Resp: 20380  
Ion Ratio Lower Upper  
91 100  
92 62.1 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 0.486 ppbv  
RT: 7.661 min Scan# 2340  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 107 Resp: 9586  
Ion Ratio Lower Upper  
107 100  
109 82.2 73.4 110.2

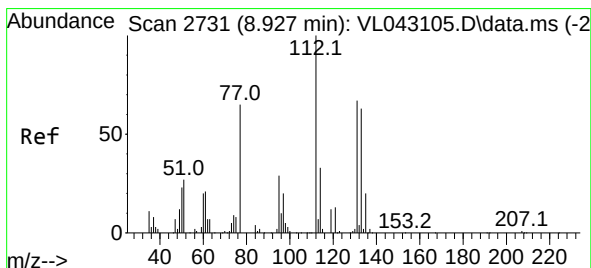
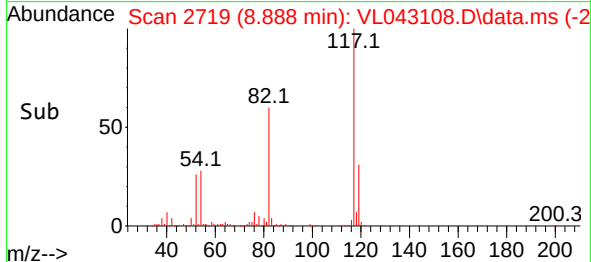
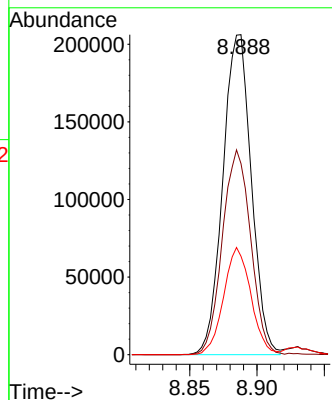
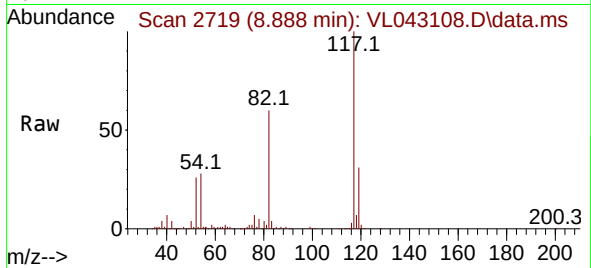




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2718  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

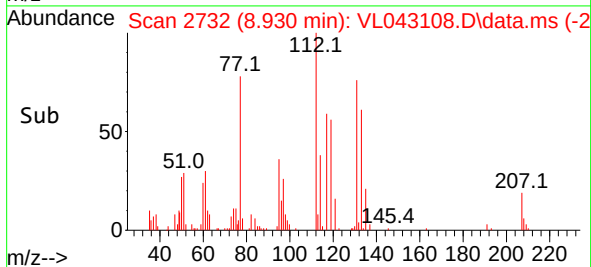
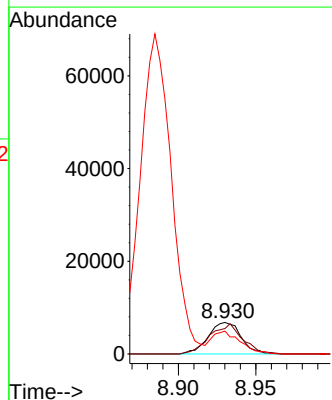
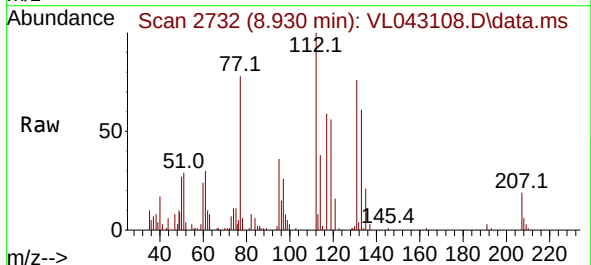
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

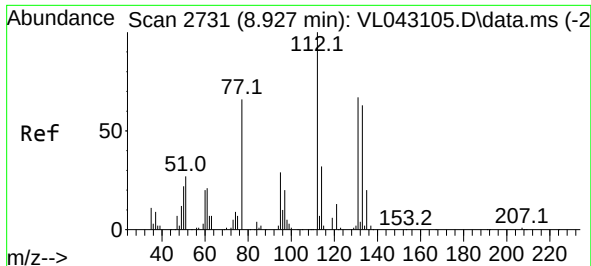
Tgt Ion:117 Resp: 303445  
Ion Ratio Lower Upper  
117 100  
82 63.9 53.8 80.8  
119 32.1 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.525 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:131 Resp: 10044  
Ion Ratio Lower Upper  
131 100  
133 94.6 75.7 113.5  
119 1032.5 50.6 76.0#

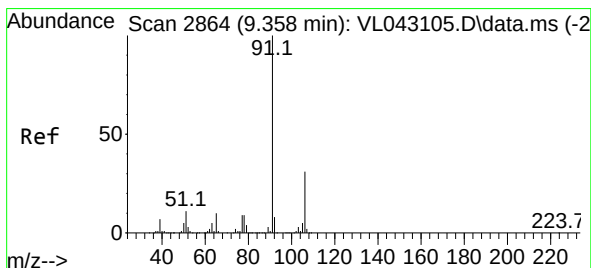
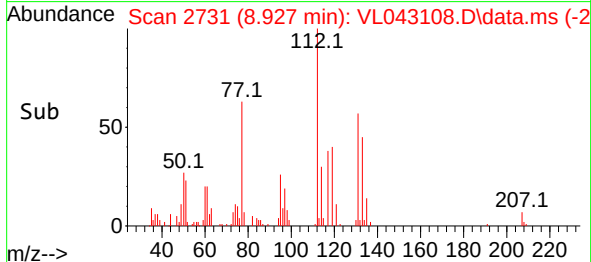
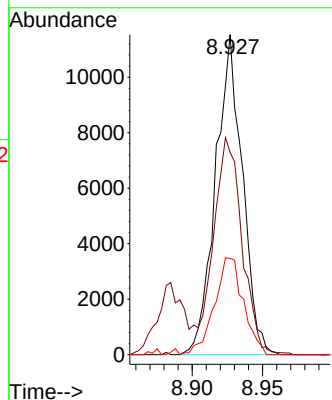
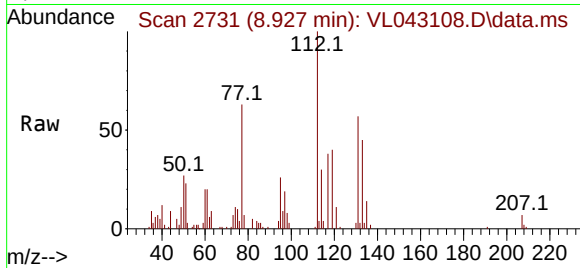




#57  
Chlorobenzene  
Concen: 0.540 ppbv  
RT: 8.927 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

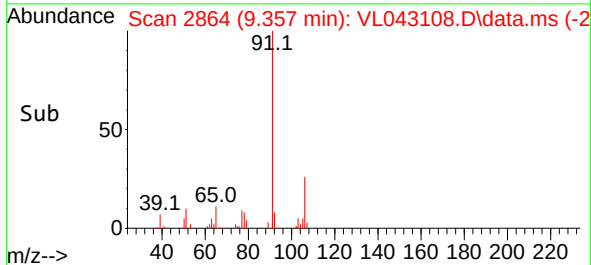
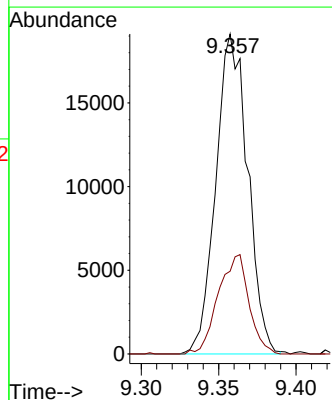
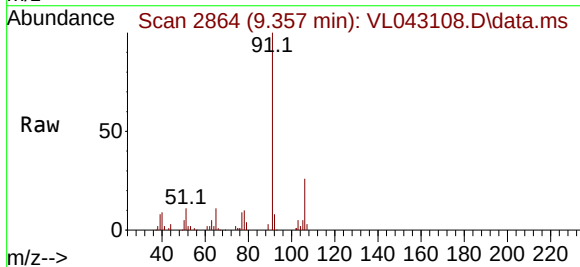
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 15318 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 77        | 62.5  | 53.3  | 79.9  |
| 114       | 30.0  | 29.3  | 35.8  |

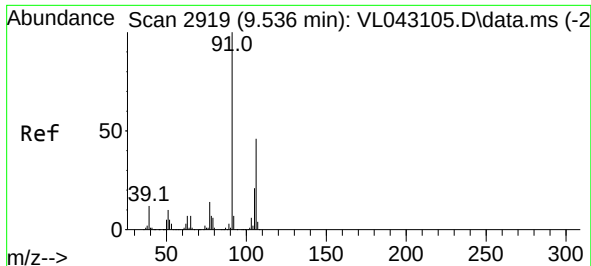


#58  
Ethyl Benzene  
Concen: 0.521 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 27330 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 25.8  | 24.8  | 37.2  |







#59

m/p-Xylene

Concen: 0.483 ppbv

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

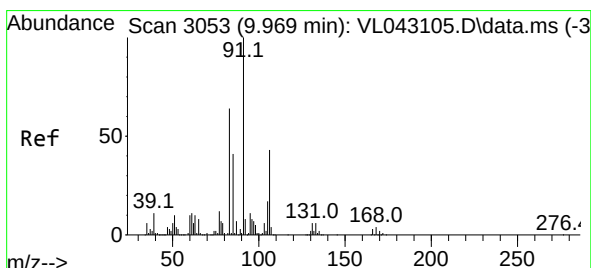
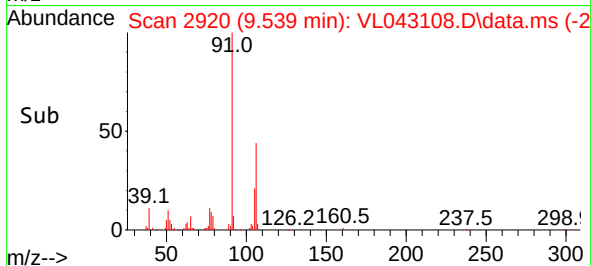
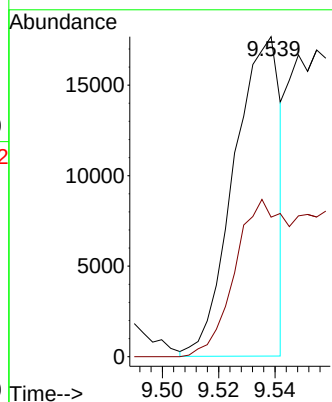
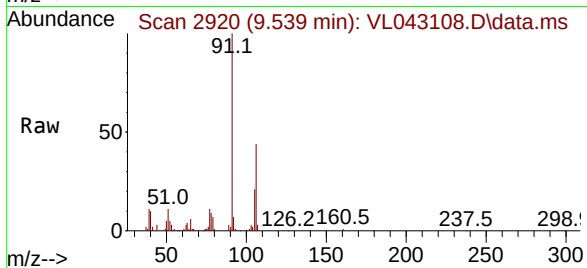
VSTDIC0.5

Tgt Ion: 91 Resp: 20079

Ion Ratio Lower Upper

91 100

106 104.4 38.0 57.0#



#60

o-Xylene

Concen: 0.530 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043108.D

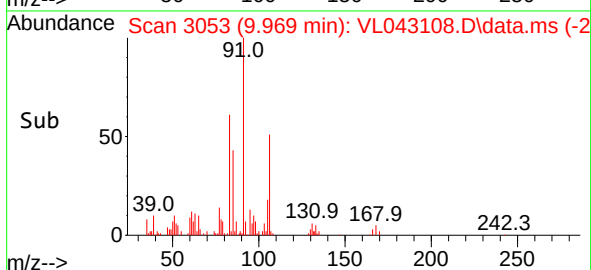
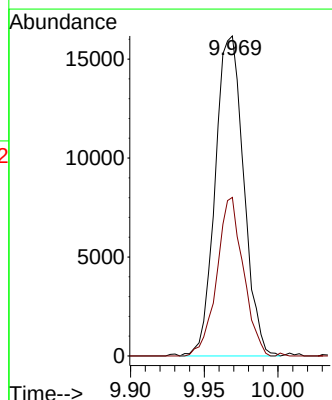
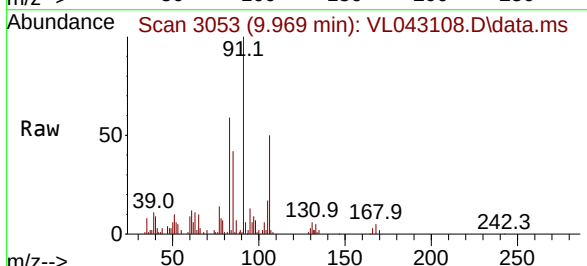
Acq: 14 Oct 2025 12:34

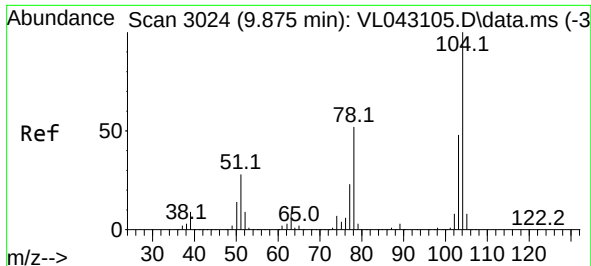
Tgt Ion: 91 Resp: 21745

Ion Ratio Lower Upper

91 100

106 46.2 21.9 65.8

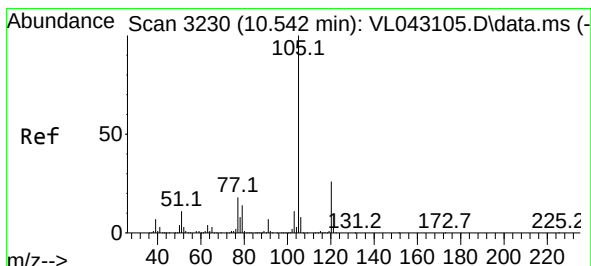
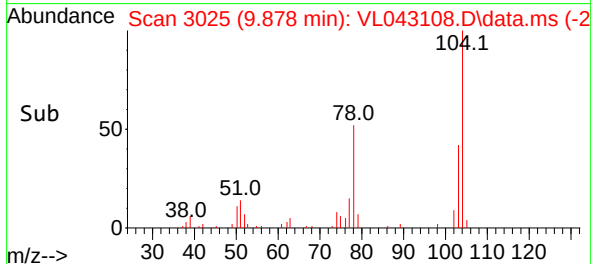
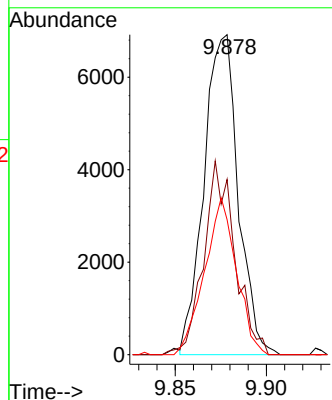
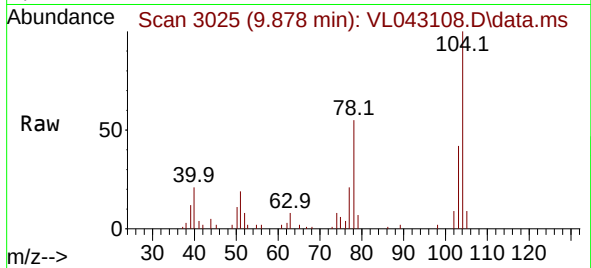




#61  
Styrene  
Concen: 0.489 ppbv  
RT: 9.878 min Scan# 3024  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

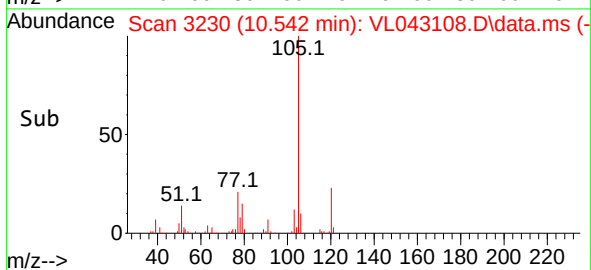
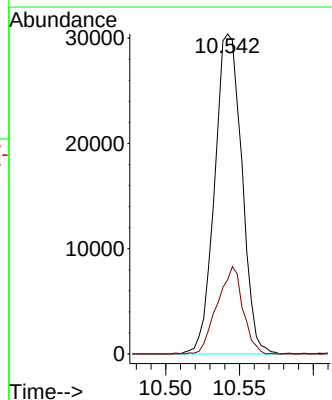
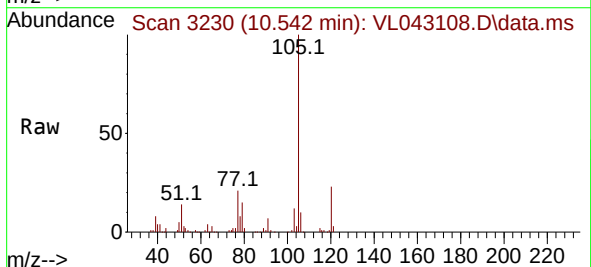
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

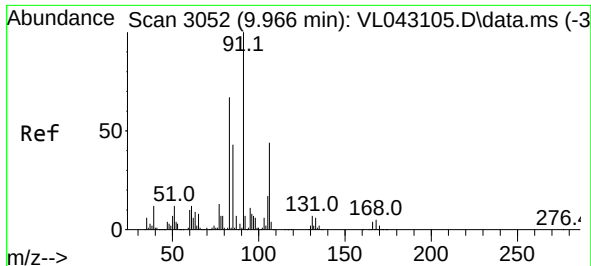
Tgt Ion:104 Resp: 9052  
Ion Ratio Lower Upper  
104 100  
78 55.0 40.2 60.2  
103 45.6 36.9 55.3



#62  
Isopropylbenzene  
Concen: 0.525 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 38899  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.2 30.4

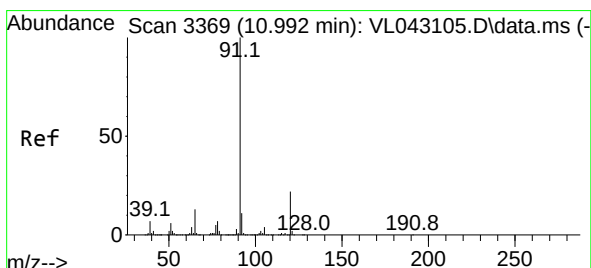
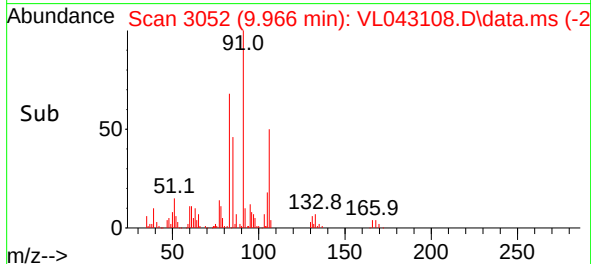
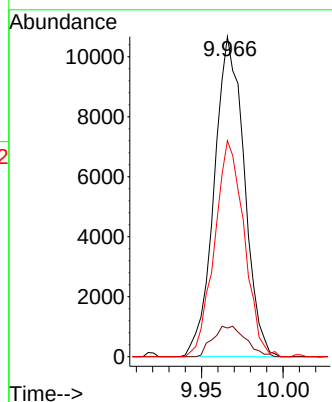
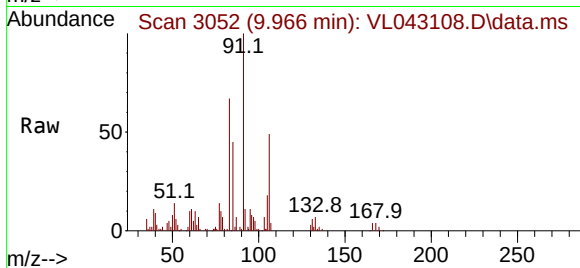




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.497 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

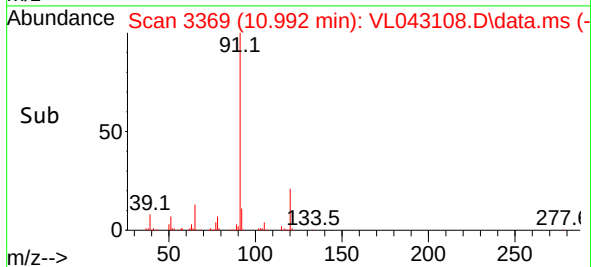
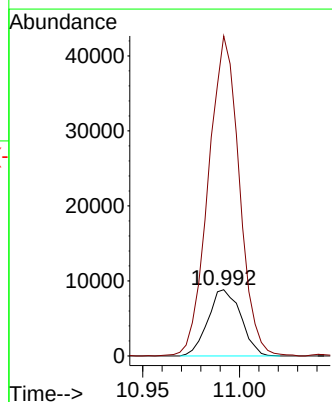
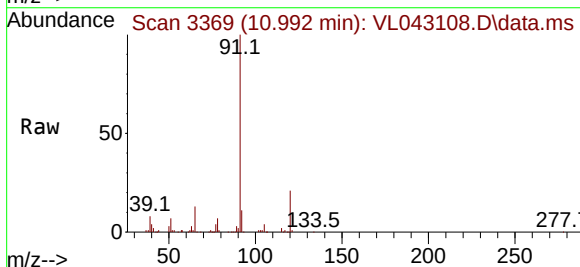
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC0.5

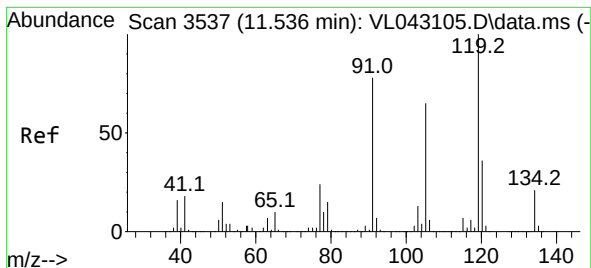
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 10.5  | 4.8   | 14.3  |
| 85      | 66.7  | 32.0  | 96.0  |



#64  
n-propylbenzene  
Concen: 0.532 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 120     | 100   |       |       |
| 91      | 455.0 | 361.6 | 542.4 |

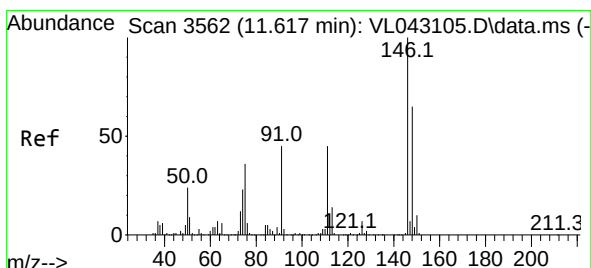
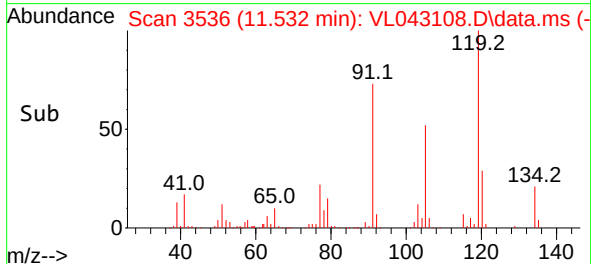
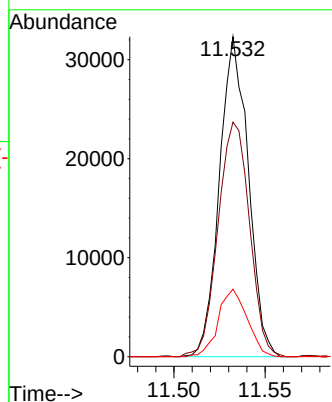
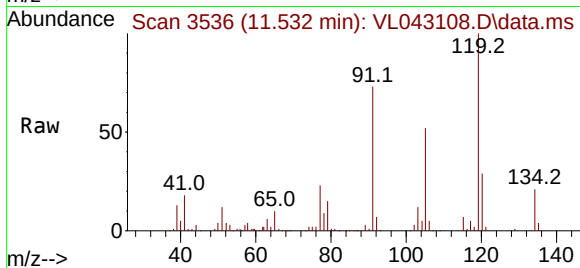




#65  
tert-Butylbenzene  
Concen: 0.543 ppbv  
RT: 11.532 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

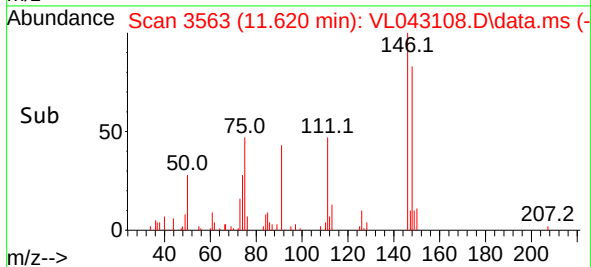
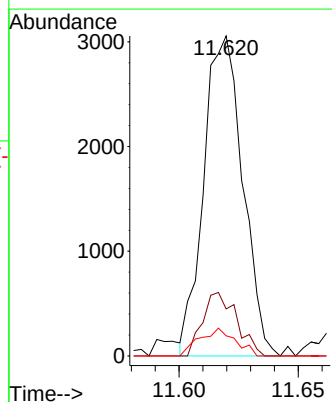
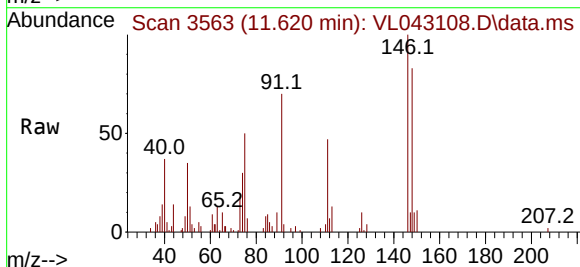
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

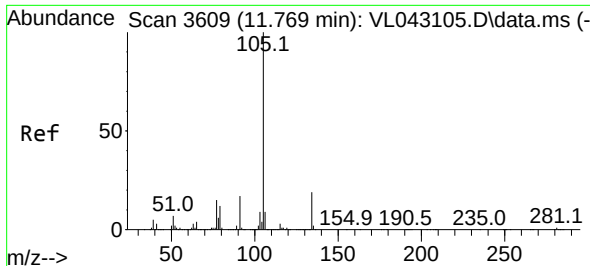
Tgt Ion:119 Resp: 35537  
Ion Ratio Lower Upper  
119 100  
91 80.0 63.4 95.0  
134 21.2 17.3 25.9



#66  
Benzyl Chloride  
Concen: 0.476 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 3477  
Ion Ratio Lower Upper  
91 100  
126 17.3 14.6 22.0  
128 7.9 4.6 6.8#





#67

sec-Butylbenzene

Concen: 0.541 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

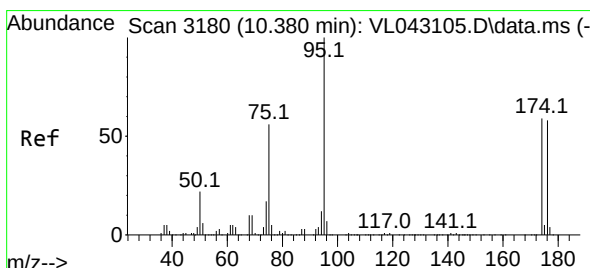
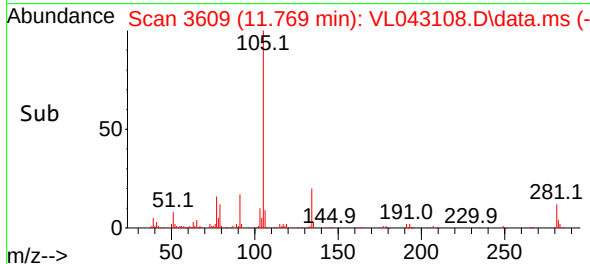
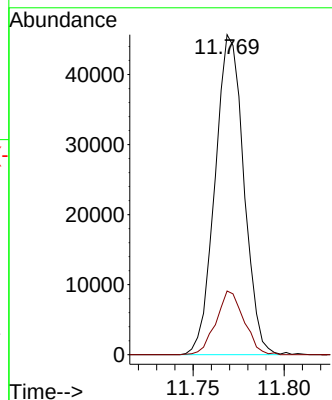
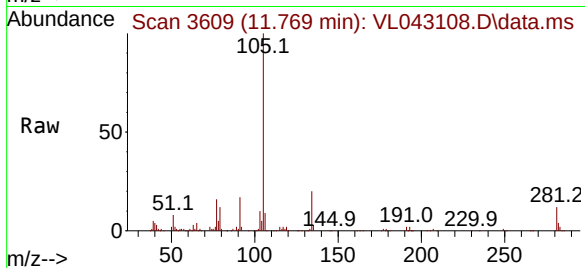
VSTDIC0.5

Tgt Ion:105 Resp: 50259

Ion Ratio Lower Upper

105 100

134 19.3 15.5 23.3



#68

1-Bromo-4-Fluorobenzene

Concen: 9.875 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

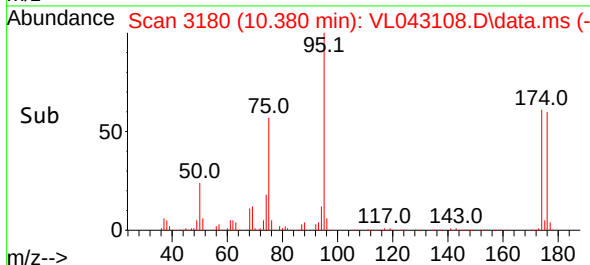
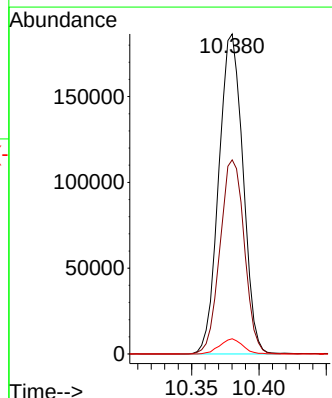
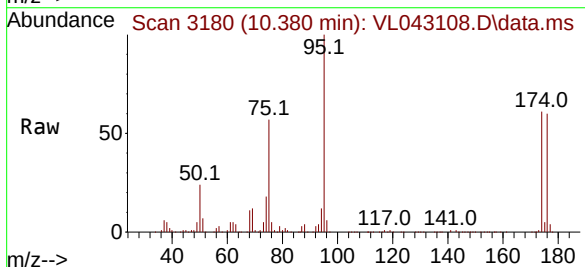
Tgt Ion: 95 Resp: 232904

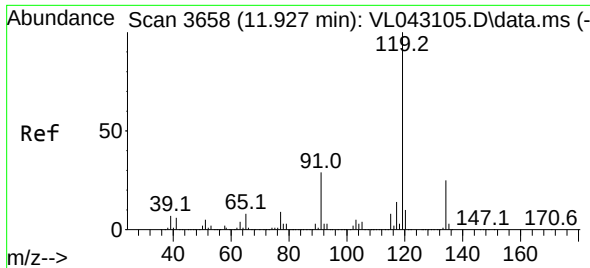
Ion Ratio Lower Upper

95 100

174 61.0 48.3 72.5

175 4.5 3.8 5.8

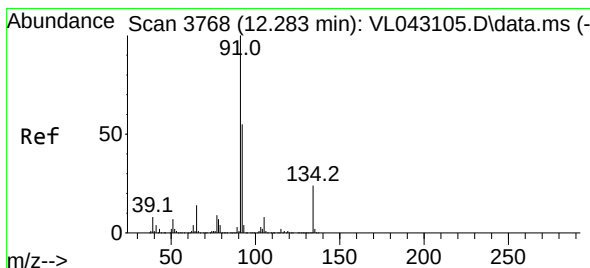
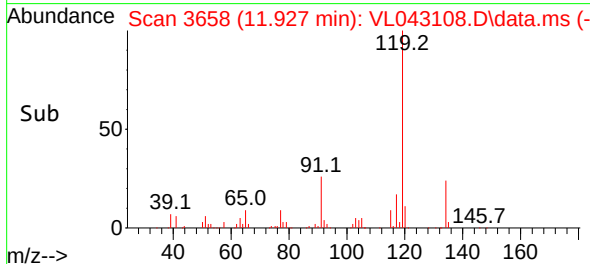
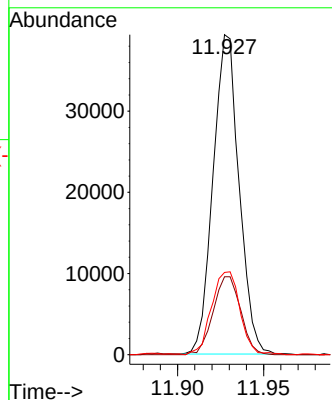
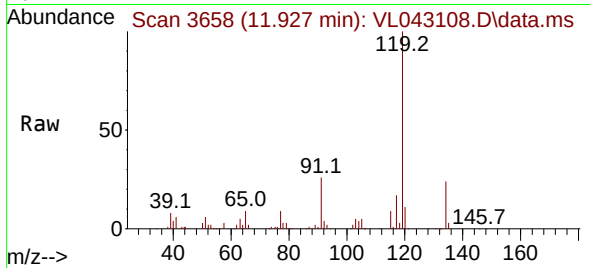




#69  
p-Isopropyltoluene  
Concen: 0.524 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

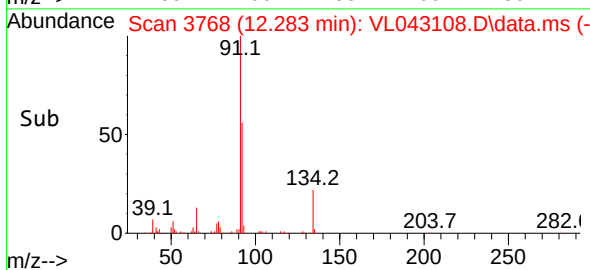
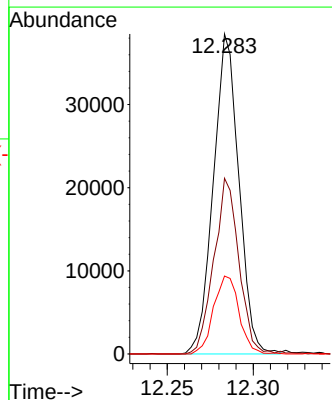
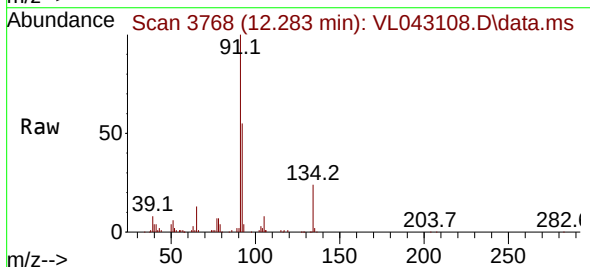
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

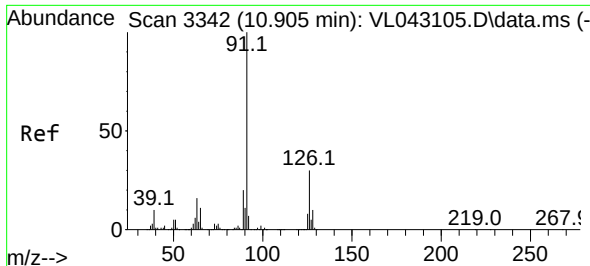
Tgt Ion: 119 Resp: 41366  
Ion Ratio Lower Upper  
119 100  
134 25.8 20.3 30.5  
91 28.9 22.6 33.8



#70  
n-Butylbenzene  
Concen: 0.509 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 91 Resp: 39620  
Ion Ratio Lower Upper  
91 100  
92 54.2 44.5 66.7  
134 24.4 19.3 28.9

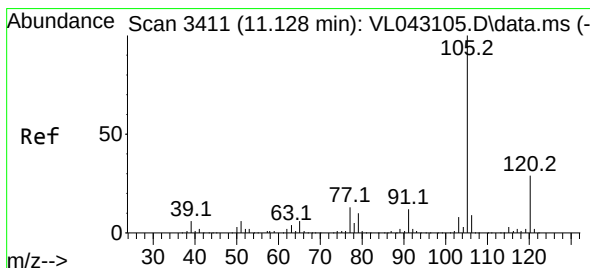
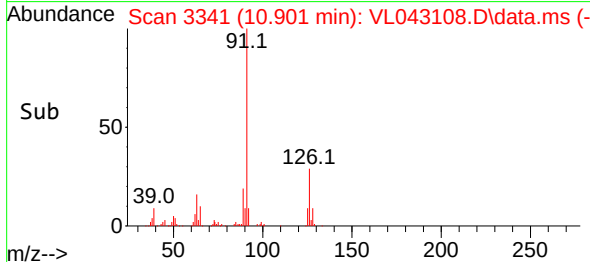
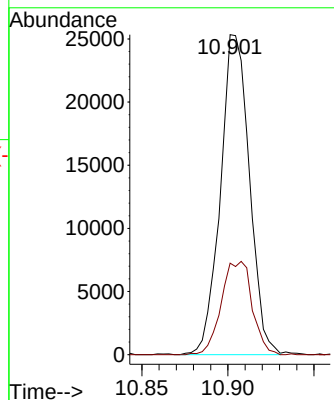
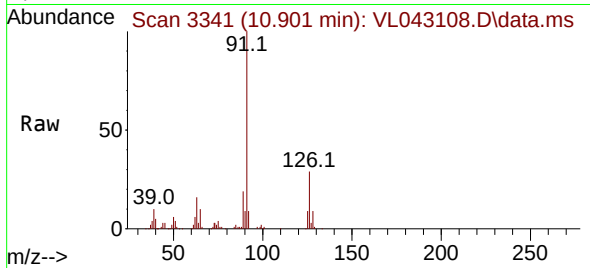




#71  
2-Chlorotoluene  
Concen: 0.526 ppbv  
RT: 10.901 min Scan# 311  
Delta R.T. -0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

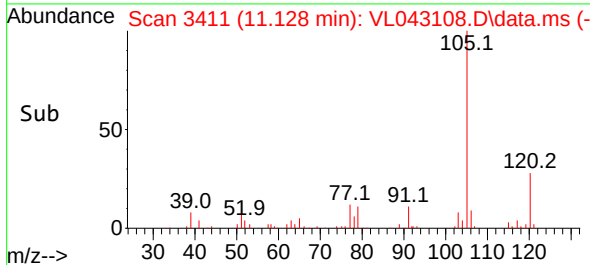
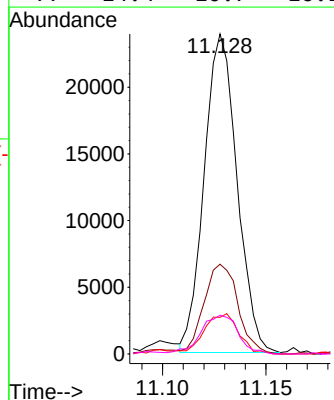
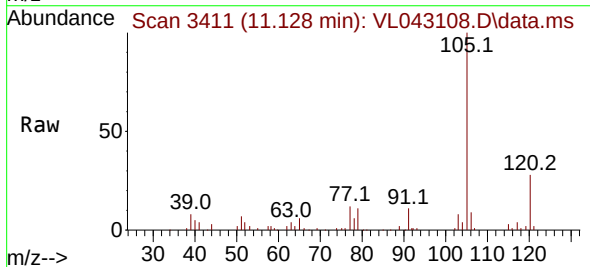
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

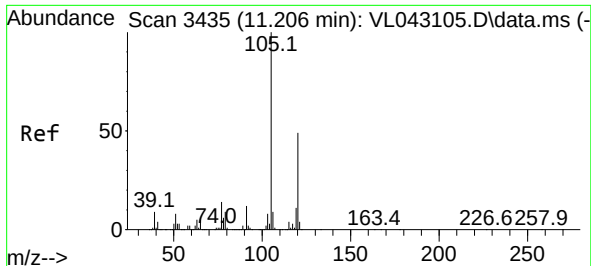
Tgt Ion: 91 Resp: 29722  
Ion Ratio Lower Upper  
91 100  
126 30.9 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 0.524 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion: 105 Resp: 26408  
Ion Ratio Lower Upper  
105 100  
120 30.8 24.2 36.4  
91 14.6 10.0 15.0  
77 14.4 10.7 16.1

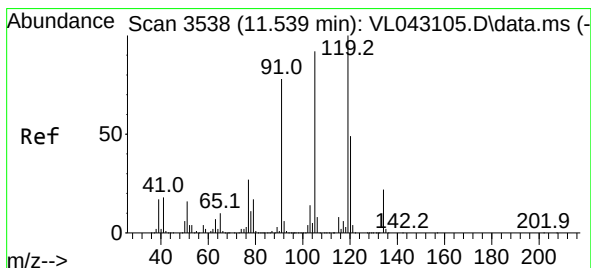
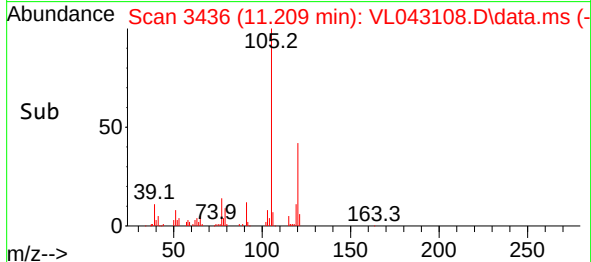
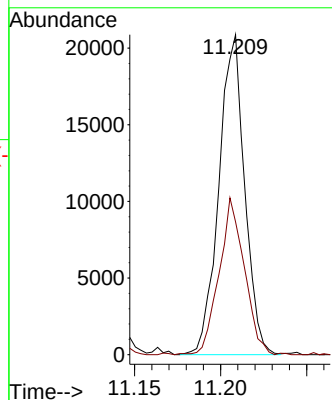
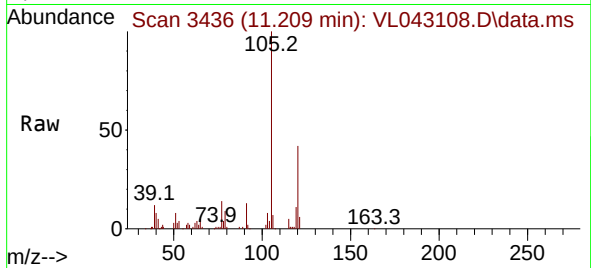




#73  
1,3,5-Trimethylbenzene  
Concen: 0.523 ppbv  
RT: 11.209 min Scan# 3436  
Delta R.T. 0.003 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

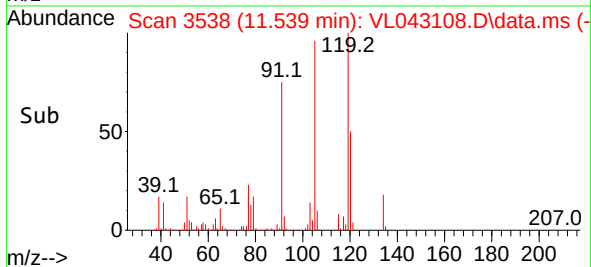
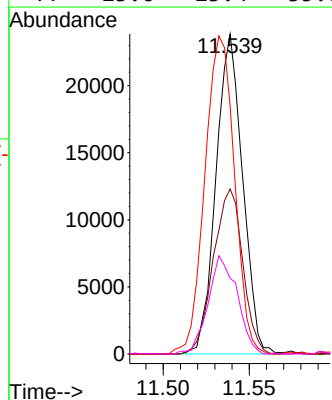
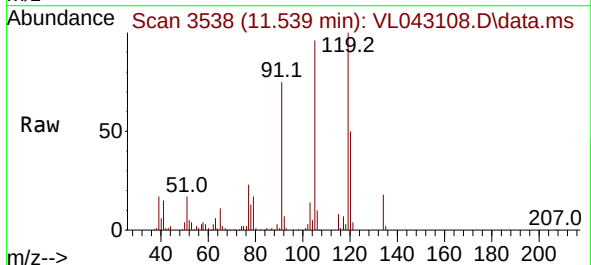
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:105 Resp: 21754  
Ion Ratio Lower Upper  
105 100  
120 41.1 39.0 58.6

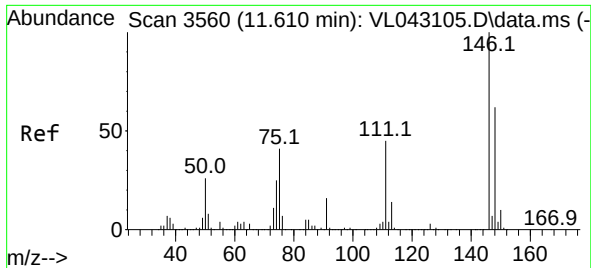


#74  
1,2,4-Trimethylbenzene  
Concen: 0.551 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:105 Resp: 25663  
Ion Ratio Lower Upper  
105 100  
120 51.5 42.8 64.2  
91 77.7 68.3 102.5  
77 23.6 23.4 35.0



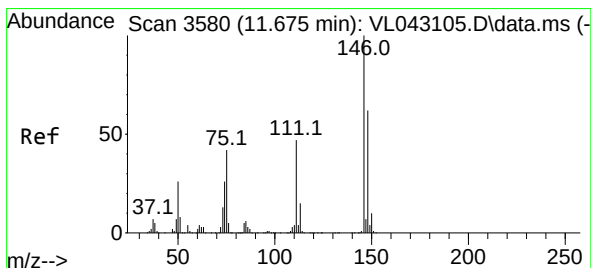
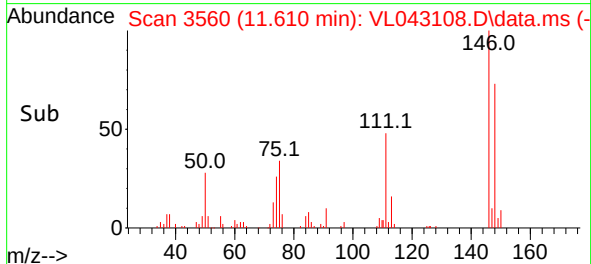
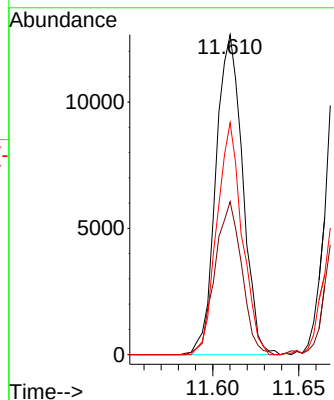
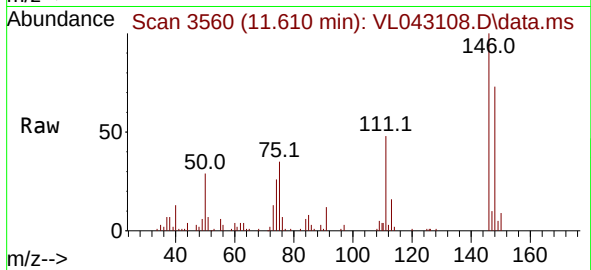




#75  
1,3-Dichlorobenzene  
Concen: 0.507 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

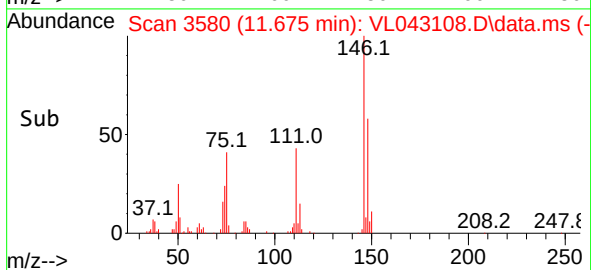
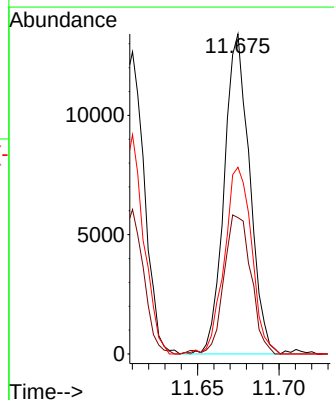
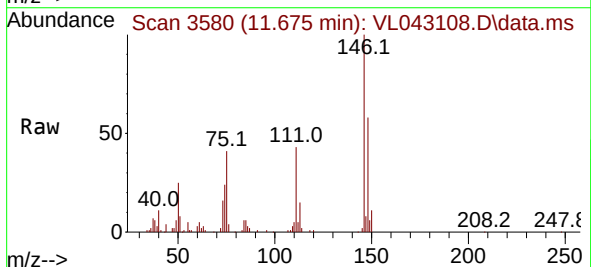
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

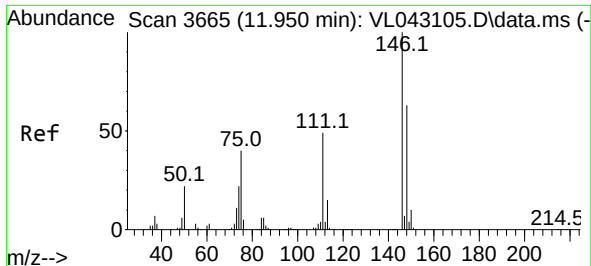
Tgt Ion:146 Resp: 13697  
Ion Ratio Lower Upper  
146 100  
111 47.8 23.3 69.9  
148 68.4 31.6 95.0



#76  
1,4-Dichlorobenzene  
Concen: 0.533 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:146 Resp: 14514  
Ion Ratio Lower Upper  
146 100  
111 46.4 22.4 67.0  
148 62.7 31.6 94.7

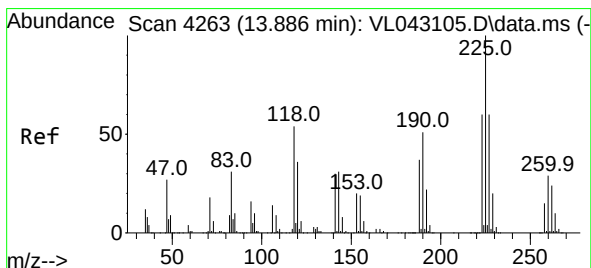
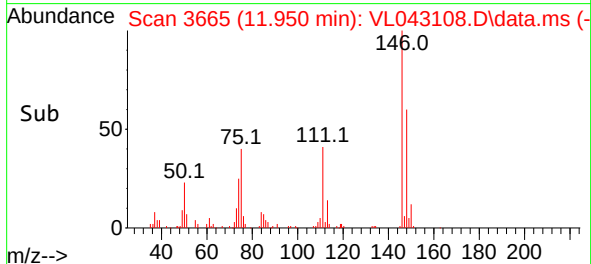
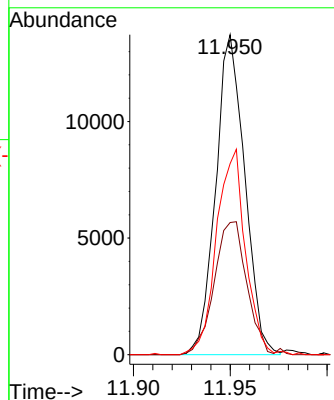
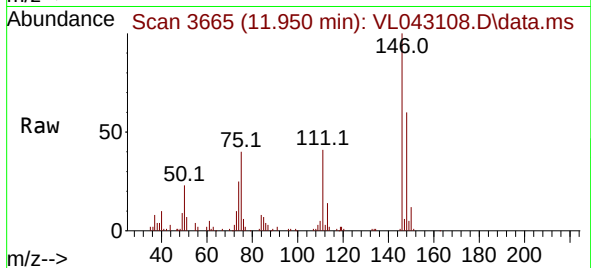




#77  
1,2-Dichlorobenzene  
Concen: 0.548 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

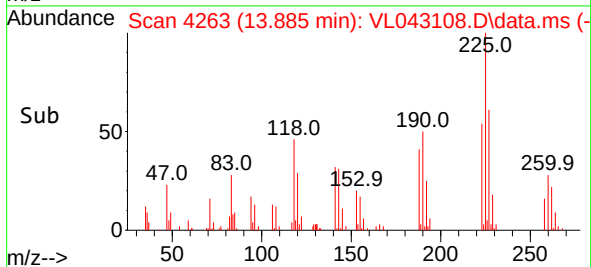
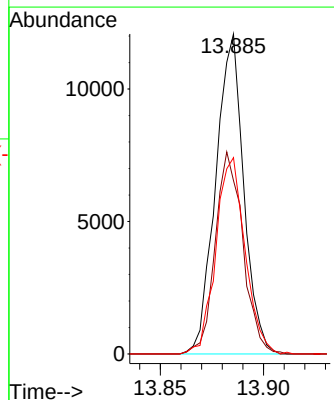
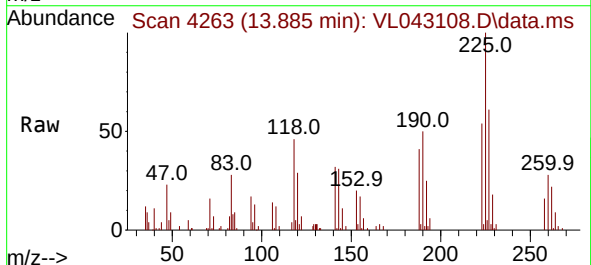
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.5

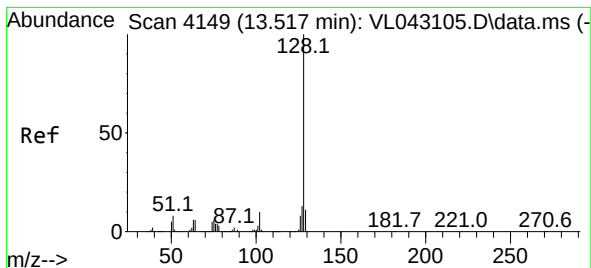
Tgt Ion:146 Resp: 14324  
Ion Ratio Lower Upper  
146 100  
111 46.9 24.0 72.0  
148 64.1 31.1 93.3



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.564 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. -0.000 min  
Lab File: VL043108.D  
Acq: 14 Oct 2025 12:34

Tgt Ion:225 Resp: 11400  
Ion Ratio Lower Upper  
225 100  
223 62.4 50.2 75.4  
227 64.2 49.6 74.4





#79

Naphthalene

Concen: 0.483 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

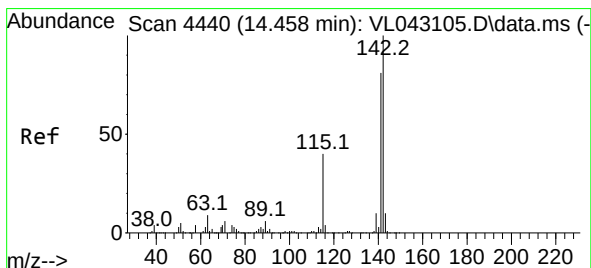
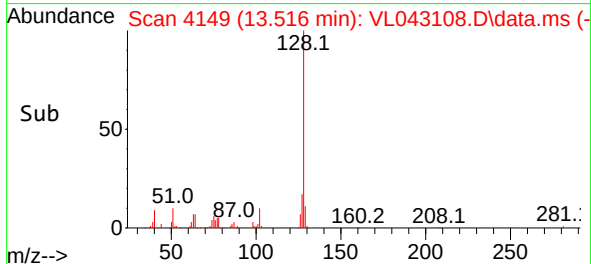
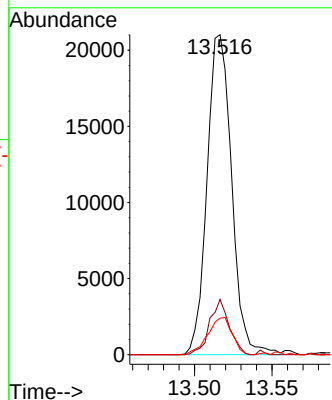
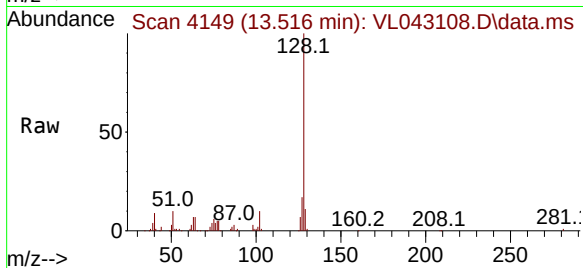
Tgt Ion:128 Resp: 23247

Ion Ratio Lower Upper

128 100

127 17.3 10.5 15.7#

129 11.4 9.1 13.7



#80

Naphthalene,2-methyl-

Concen: 0.305 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.003 min

Lab File: VL043108.D

Acq: 14 Oct 2025 12:34

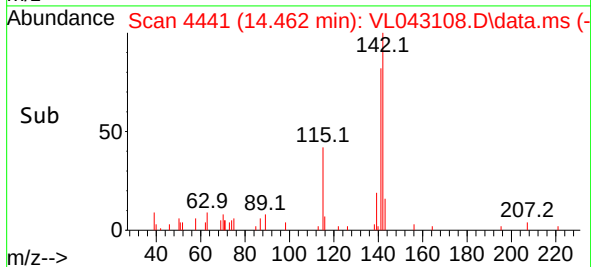
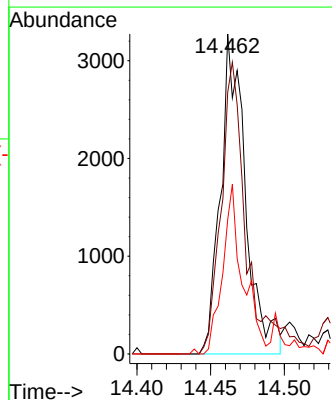
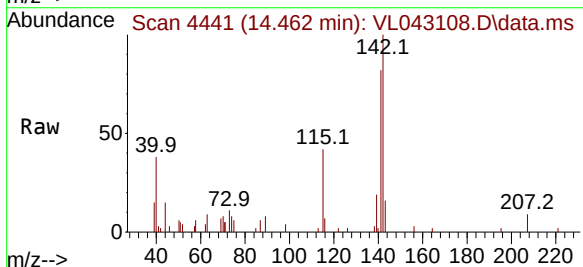
Tgt Ion:142 Resp: 3874

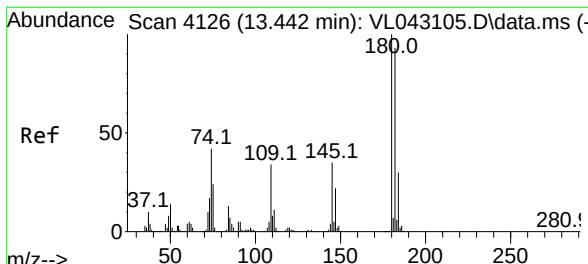
Ion Ratio Lower Upper

142 100

141 92.6 64.6 97.0

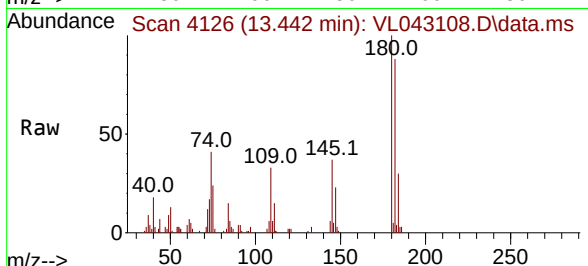
115 51.2 30.2 45.4#



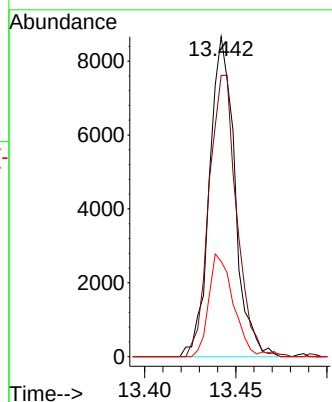
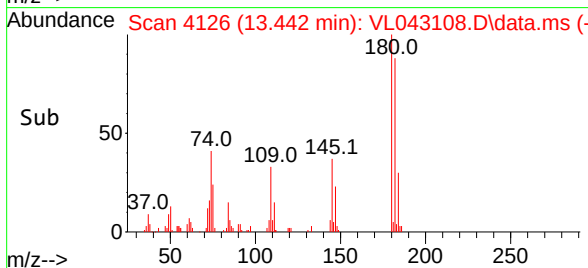


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.416 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL043108.D  
 Acq: 14 Oct 2025 12:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 8395  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 95.8  | 75.5  | 113.3 |
| 184      | 31.4  | 23.9  | 35.9  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043109.D  
 Acq On : 14 Oct 2025 13:08  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

Quant Time: Oct 15 01:54:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 99997    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 332574   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 299676   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 233673 10.032 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

#### Target Compounds

|                               |       |     |       |       | Qvalue |    |
|-------------------------------|-------|-----|-------|-------|--------|----|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 1417  | 0.100 | ppbv   | 96 |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 1709  | 0.111 | ppbv # | 75 |
| 4) Chloromethane              | 1.534 | 50  | 746   | 0.132 | ppbv   | 94 |
| 5) Vinyl Chloride             | 1.583 | 62  | 554   | 0.100 | ppbv # | 33 |
| 6) Bromomethane               | 1.667 | 94  | 479   | 0.158 | ppbv # | 61 |
| 7) Chloroethane               | 1.703 | 64  | 261   | 0.116 | ppbv # | 42 |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 1427  | 0.124 | ppbv   | 85 |
| 9) Propene                    | 1.486 | 41  | 689   | 0.101 | ppbv # | 1  |
| 10) Heptane                   | 4.985 | 43  | 706   | 0.036 | ppbv # | 27 |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 1515  | 0.109 | ppbv   | 99 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 1303  | 0.116 | ppbv   | 97 |
| 13) Ethanol                   | 1.725 | 45  | 327   | 0.130 | ppbv # | 27 |
| 14) Bromoethene               | 1.787 | 108 | 443   | 0.107 | ppbv # | 50 |
| 15) Acetone                   | 1.839 | 43  | 2487  | 0.184 | ppbv   | 93 |
| 16) 1,3-Butadiene             | 1.612 | 39  | 770   | 0.120 | ppbv # | 49 |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 2301  | 0.124 | ppbv # | 3  |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 720   | 0.148 | ppbv # | 67 |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 1443  | 0.172 | ppbv # | 53 |
| 20) Methylene Chloride        | 2.062 | 84  | 1890  | 0.355 | ppbv # | 77 |
| 21) Allyl Chloride            | 2.098 | 41  | 1664  | 0.167 | ppbv # | 43 |
| 22) trans-1,2-Dichloroethene  | 2.036 | 96  | 720   | 0.123 | ppbv   | 86 |
| 23) Vinyl Acetate             | 2.467 | 43  | 2916  | 0.148 | ppbv # | 91 |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 1367  | 0.121 | ppbv # | 91 |
| 25) Ethyl Acetate             | 2.836 | 43  | 1114  | 0.033 | ppbv # | 66 |
| 26) Hexane                    | 2.829 | 57  | 2134  | 0.139 | ppbv   | 94 |
| 27) Carbon Disulfide          | 2.153 | 76  | 1609  | 0.114 | ppbv # | 1  |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 351   | 0.050 | ppbv # | 49 |
| 29) Chloroform                | 2.855 | 83  | 1225  | 0.055 | ppbv   | 89 |
| 30) Cyclohexane               | 3.868 | 84  | 340   | 0.025 | ppbv # | 1  |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 1605  | 0.109 | ppbv # | 88 |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 1581  | 0.068 | ppbv # | 60 |
| 34) 2-Butanone                | 2.564 | 43  | 2560  | 0.114 | ppbv   | 94 |
| 35) Carbon Tetrachloride      | 3.370 | 117 | 231   | 0.010 | ppbv   | 90 |
| 36) Benzene                   | 3.658 | 78  | 3507  | 0.112 | ppbv   | 96 |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 1448  | 0.080 | ppbv # | 93 |
| 38) Trichloroethene           | 4.551 | 130 | 242   | 0.019 | ppbv # | 7  |
| 39) 1,2-Dichloropropane       | 3.962 | 63  | 80849 | 7.054 | ppbv # | 25 |
| 40) 1,4-Dioxane               | 4.609 | 88  | 339   | 0.066 | ppbv # | 38 |
| 41) Tetrahydrofuran           | 3.043 | 42  | 58    | 0.005 | ppbv # | 37 |
| 42) Bromodichloromethane      | 4.496 | 83  | 2440  | 0.098 | ppbv # | 73 |
| 43) Methyl Methacrylate       | 4.881 | 69  | 636   | 0.040 | ppbv # | 1  |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 3354  | 0.064 | ppbv # | 45 |
| 45) t-1,3-Dichloropropene     | 6.425 | 75  | 617   | 0.039 | ppbv   | 94 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043109.D  
 Acq On : 14 Oct 2025 13:08  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

Quant Time: Oct 15 01:54:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

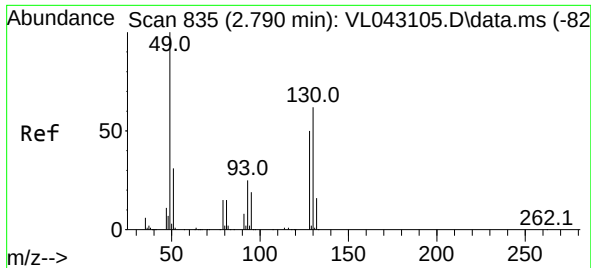
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 472      | 0.025 | ppbv # | 55       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 716      | 0.058 | ppbv # | 38       |
| 48) Dibromochloromethane      | 7.393  | 129  | 1506     | 0.073 | ppbv   | 72       |
| 49) Bromoform                 | 9.484  | 173  | 1666     | 0.099 | ppbv # | 90       |
| 50) 4-Methyl-2-Pentanone      | 5.771  | 43   | 1420     | 0.046 | ppbv # | 38       |
| 51) 2-Hexanone                | 7.422  | 43   | 65       | 0.003 | ppbv # | 27       |
| 52) Tetrachloroethene         | 8.221  | 164  | 377      | 0.033 | ppbv # | 22       |
| 53) Toluene                   | 6.940  | 91   | 1973     | 0.053 | ppbv # | 9        |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 2201     | 0.113 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 1509     | 0.080 | ppbv # | 9        |
| 57) Chlorobenzene             | 8.920  | 112  | 3177     | 0.113 | ppbv # | 95       |
| 58) Ethyl Benzene             | 9.354  | 91   | 5210     | 0.100 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.535  | 91   | 3213     | 0.078 | ppbv # | 29       |
| 60) o-Xylene                  | 9.963  | 91   | 3450     | 0.085 | ppbv   | 78       |
| 61) Styrene                   | 9.872  | 104  | 1475     | 0.081 | ppbv # | 82       |
| 62) Isopropylbenzene          | 10.539 | 105  | 8132     | 0.111 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 3053     | 0.113 | ppbv   | 90       |
| 64) n-propylbenzene           | 10.992 | 120  | 1906     | 0.098 | ppbv   | 87       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 6951     | 0.108 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.617 | 91   | 277      | 0.038 | ppbv # | 78       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 9081     | 0.099 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 8105     | 0.104 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.283 | 91   | 6640     | 0.086 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 5527     | 0.099 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 4754     | 0.095 | ppbv # | 92       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 4680     | 0.114 | ppbv # | 85       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 4519     | 0.098 | ppbv # | 94       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 2518     | 0.094 | ppbv   | 94       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 2266     | 0.084 | ppbv   | 91       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 2676     | 0.104 | ppbv   | 94       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 2107     | 0.105 | ppbv   | 95       |
| 79) Naphthalene               | 13.516 | 128  | 3453     | 0.073 | ppbv # | 97       |
| 80) Naphthalene,2-methyl-     | 14.478 | 142  | 582      | 0.046 | ppbv # | 28       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 774      | 0.039 | ppbv # | 77       |

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

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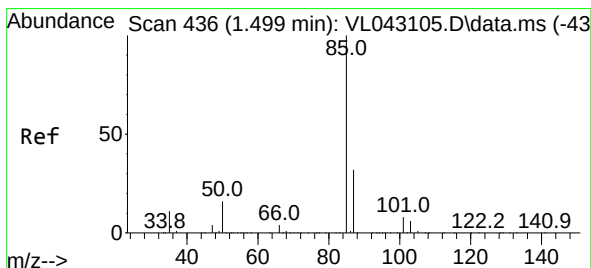
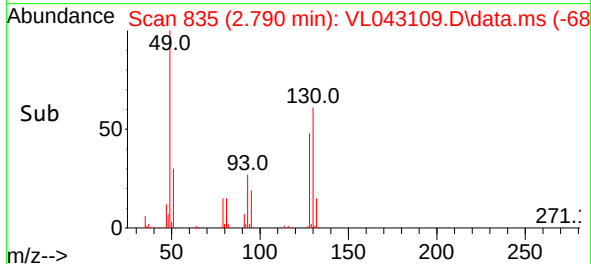
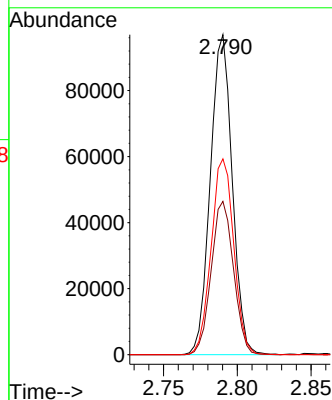
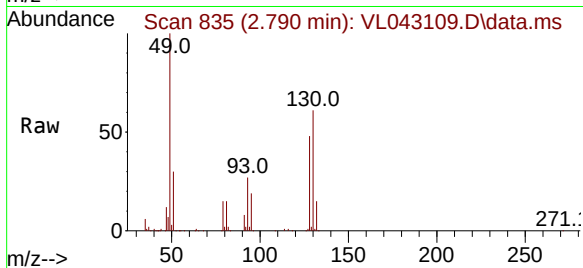




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

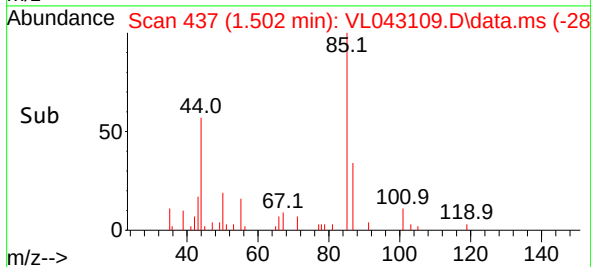
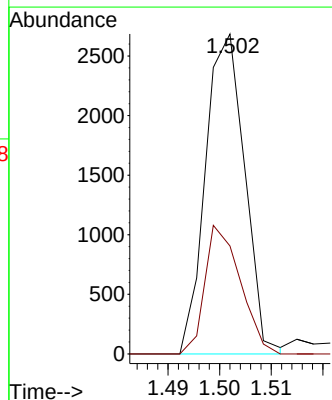
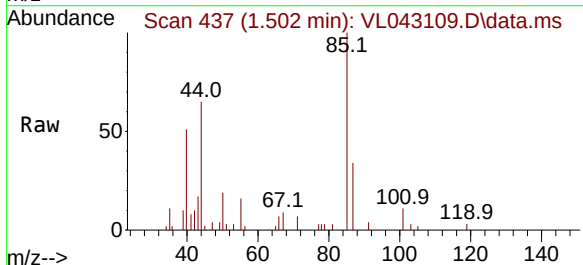
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 49 Resp: 99997  
Ion Ratio Lower Upper  
49 100  
128 48.9 24.4 73.4  
130 63.3 31.0 93.0

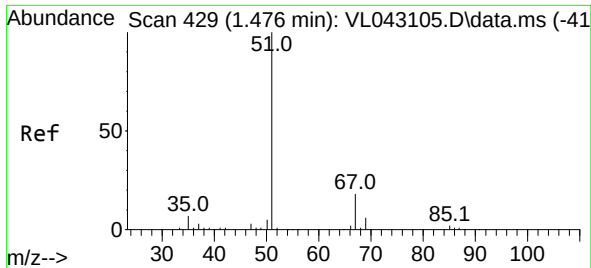


#2  
Dichlorodifluoromethane  
Concen: 0.100 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1417  
Ion Ratio Lower Upper  
85 100  
87 33.7 25.3 37.9



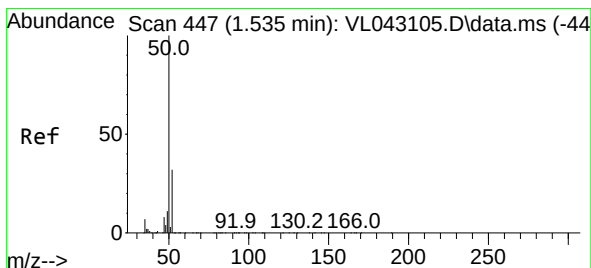
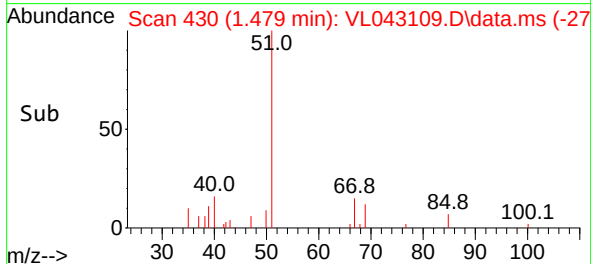
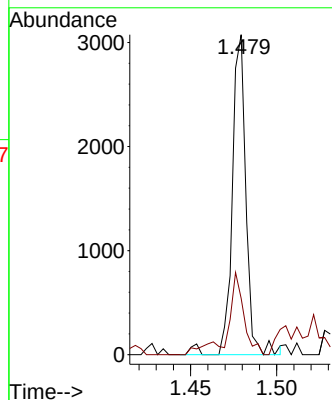
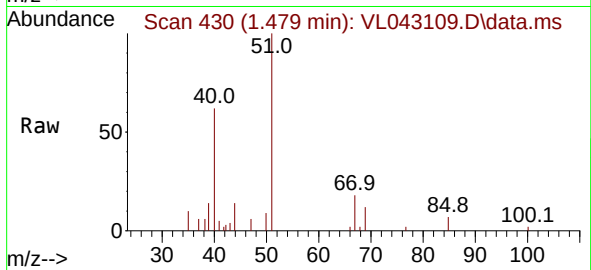




#3  
Chlorodifluoromethane  
Concen: 0.111 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

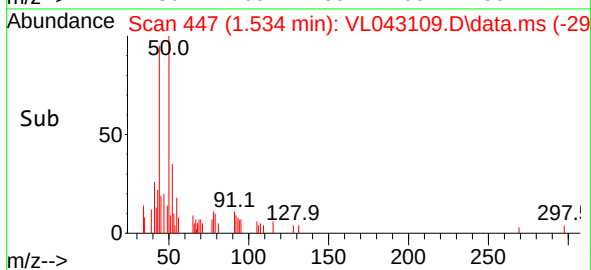
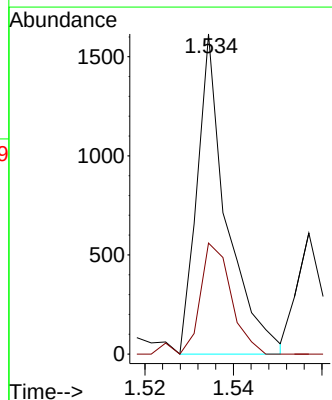
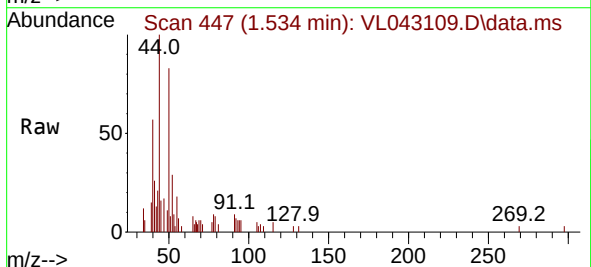
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

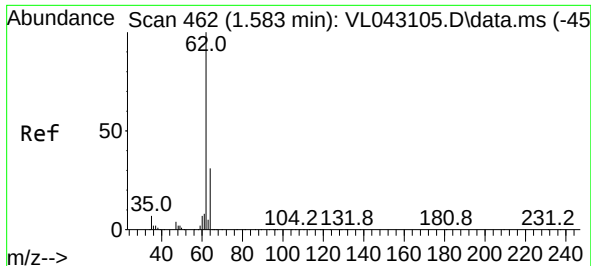
Tgt Ion: 51 Resp: 1709  
Ion Ratio Lower Upper  
51 100  
67 30.1 15.1 22.7#



#4  
Chloromethane  
Concen: 0.132 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 50 Resp: 746  
Ion Ratio Lower Upper  
50 100  
52 34.7 25.2 37.8

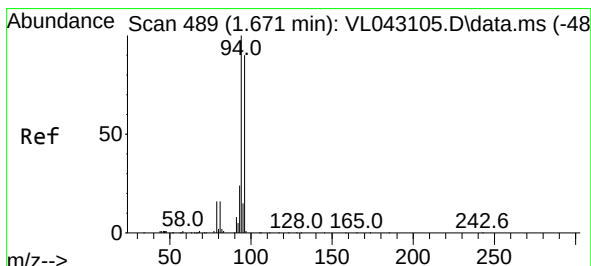
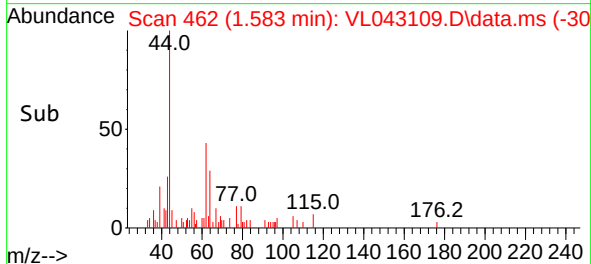
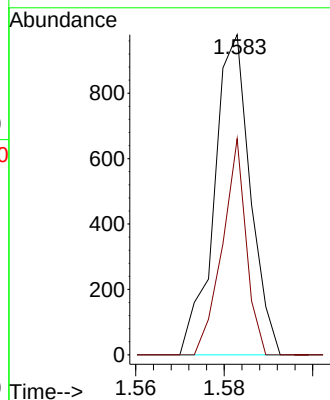
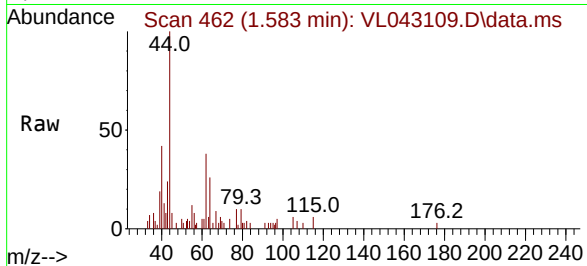




#5  
 Vinyl Chloride  
 Concen: 0.100 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

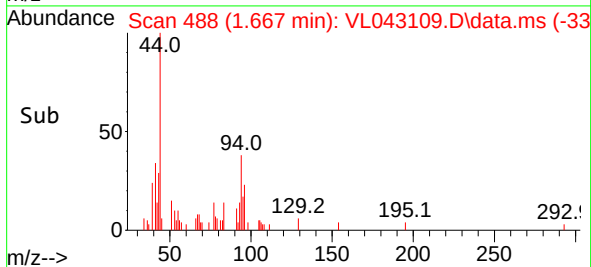
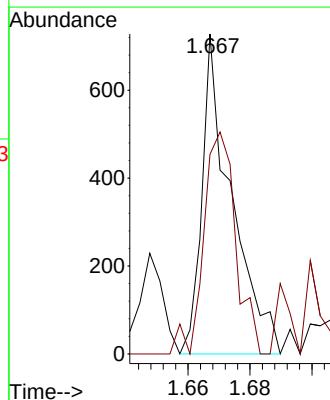
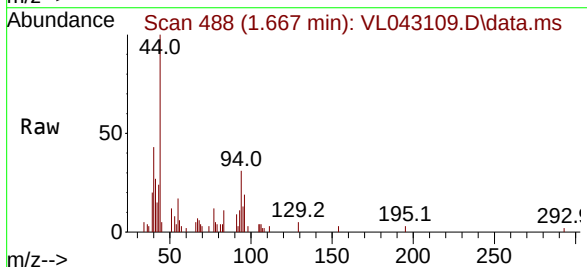
Instrument :  
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 ClientSampleId :  
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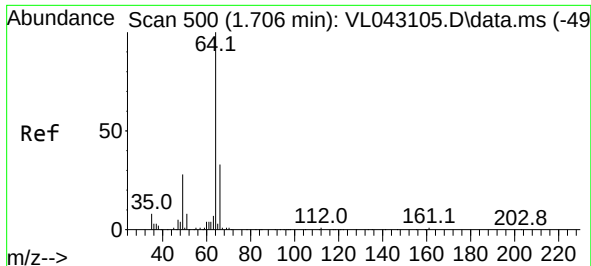
Tgt Ion: 62 Resp: 554  
 Ion Ratio Lower Upper  
 62 100  
 64 67.5 24.6 36.8#



#6  
 Bromomethane  
 Concen: 0.158 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

Tgt Ion: 94 Resp: 479  
 Ion Ratio Lower Upper  
 94 100  
 96 53.0 72.2 108.4#

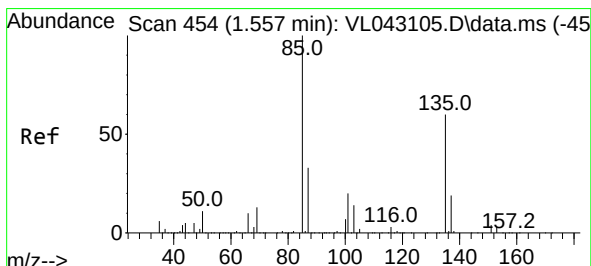
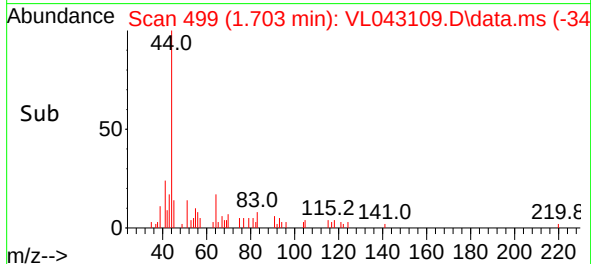
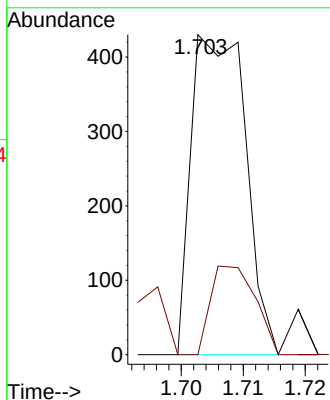
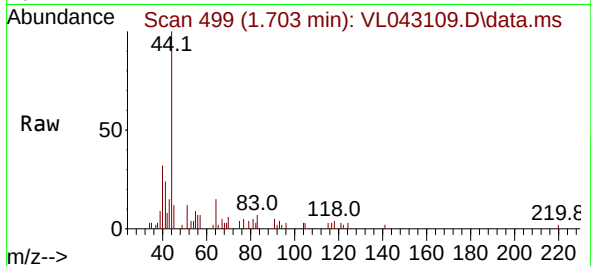




#7  
Chloroethane  
Concen: 0.116 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

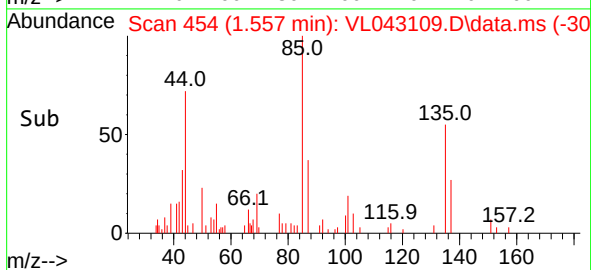
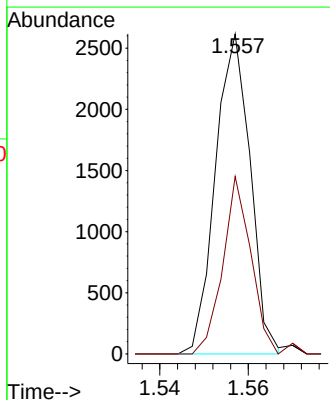
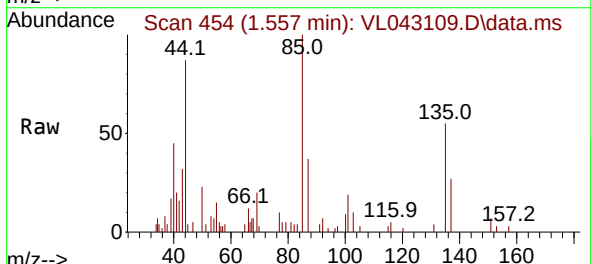
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ClientSampleId :  
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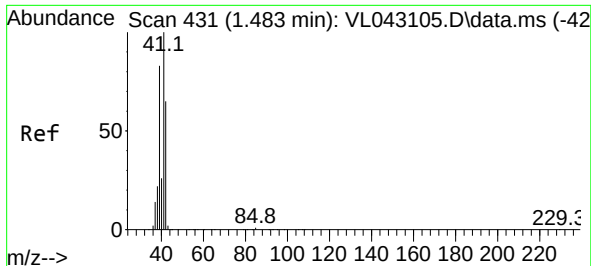
Tgt Ion: 64 Resp: 261  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.0 39.0#



#8  
Dichlorotetrafluoroethane  
Concen: 0.124 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 85 Resp: 1427  
Ion Ratio Lower Upper  
85 100  
135 48.7 48.2 72.4

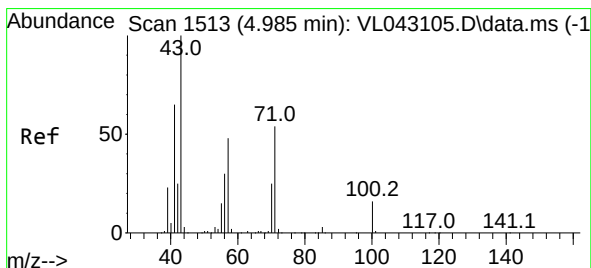
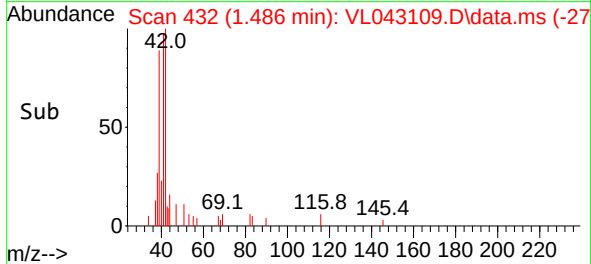
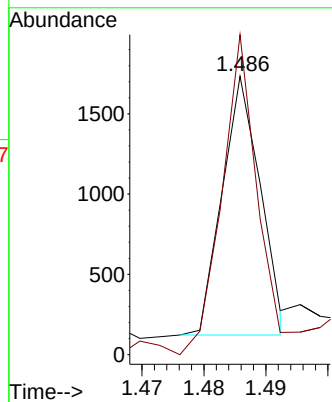
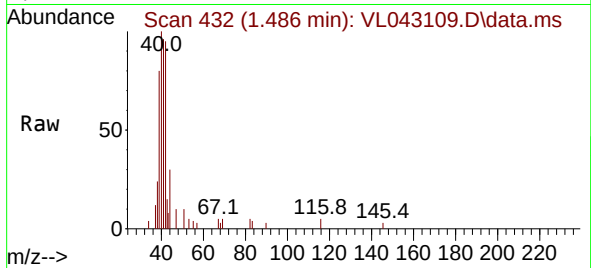




#9  
Propene  
Concen: 0.101 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

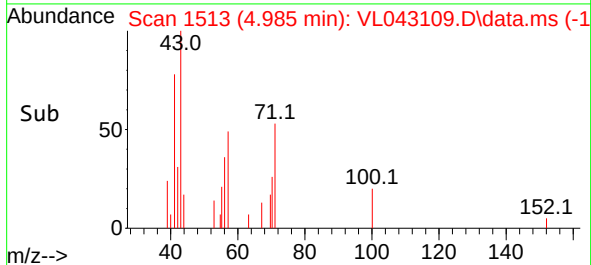
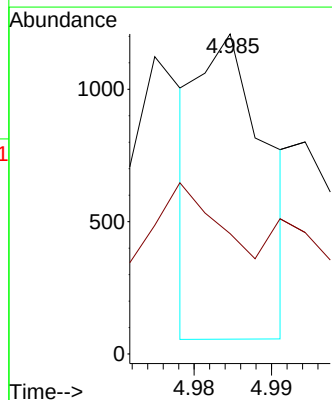
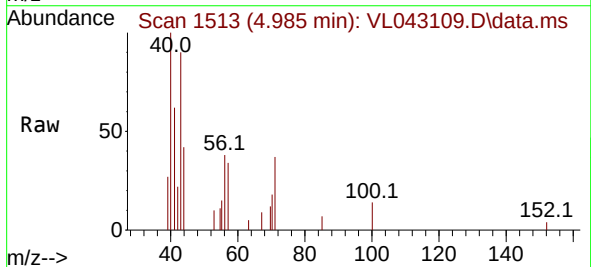
Instrument :  
MSVOA\_1  
ClientSampleId :  
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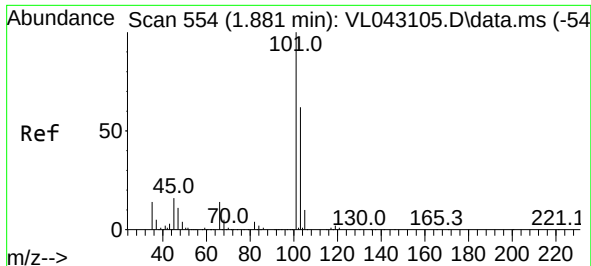
Tgt Ion: 41 Resp: 689  
Ion Ratio Lower Upper  
41 100  
42 168.5 55.1 82.7#



#10  
Heptane  
Concen: 0.036 ppbv  
RT: 4.985 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 706  
Ion Ratio Lower Upper  
43 100  
57 0.0 40.8 61.2#

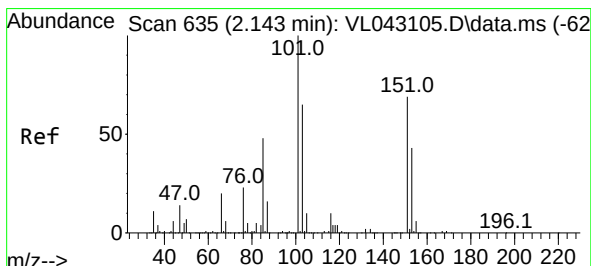
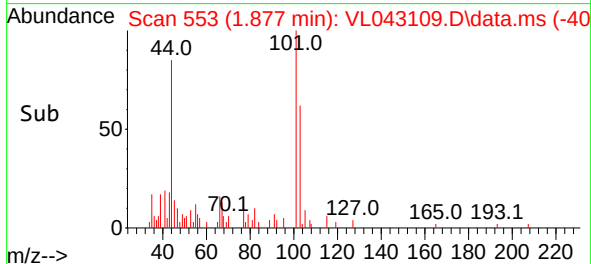
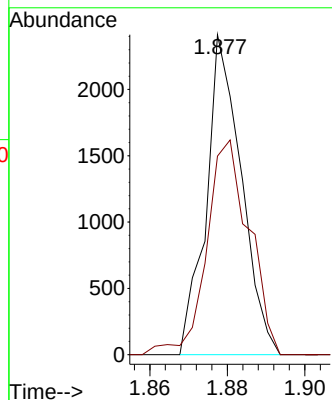
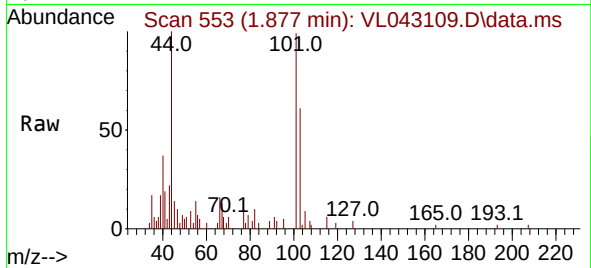




#11  
 Trichlorofluoromethane  
 Concen: 0.109 ppbv  
 RT: 1.877 min Scan# 511  
 Delta R.T. -0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

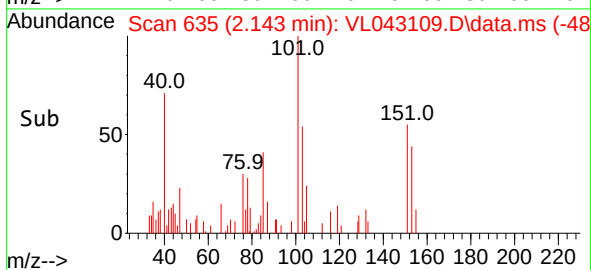
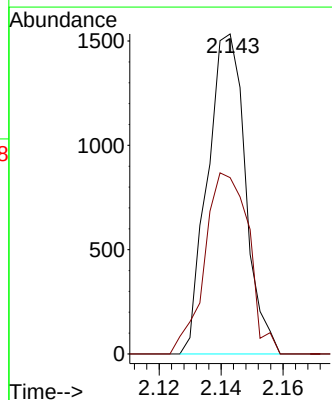
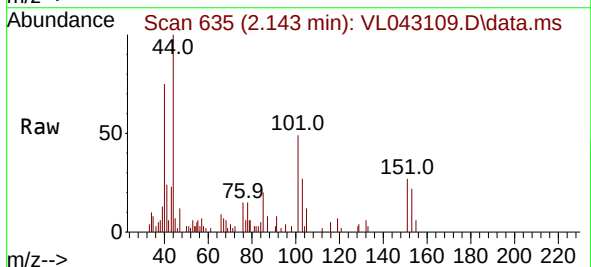
Instrument :  
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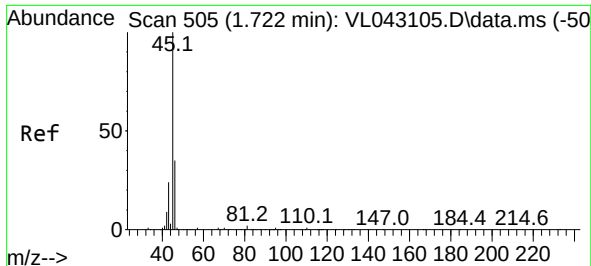
Tgt Ion:101 Resp: 1515  
 Ion Ratio Lower Upper  
 101 100  
 103 62.1 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.116 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

Tgt Ion:101 Resp: 1303  
 Ion Ratio Lower Upper  
 101 100  
 151 65.7 54.7 82.1

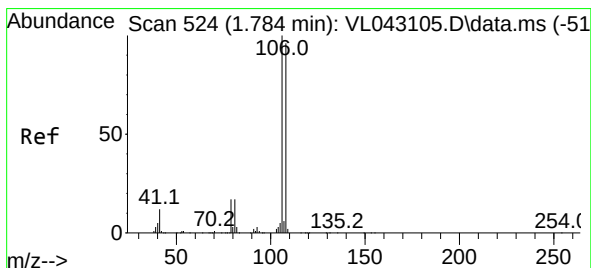
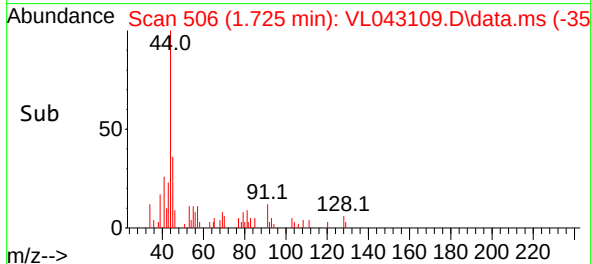
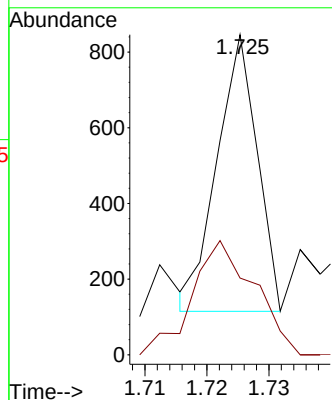
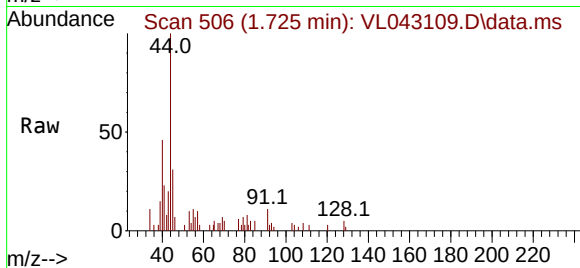




#13  
 Ethanol  
 Concen: 0.130 ppbv  
 RT: 1.725 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

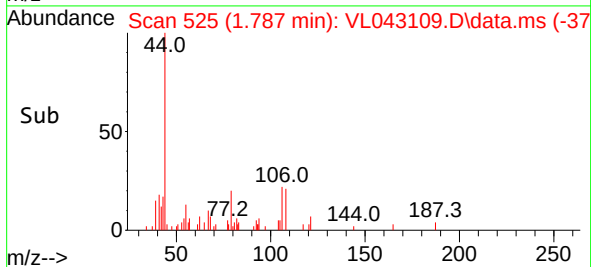
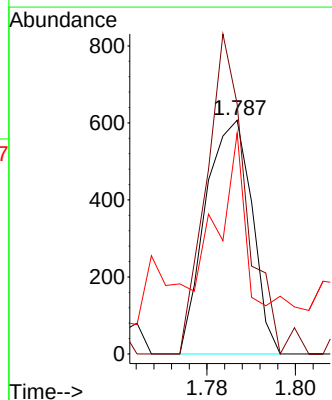
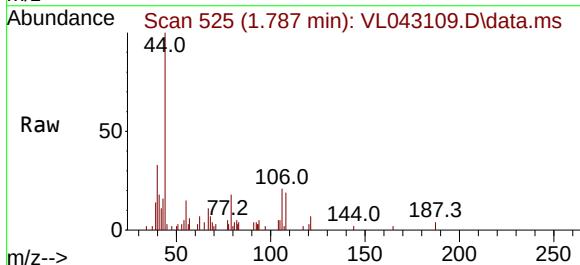
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

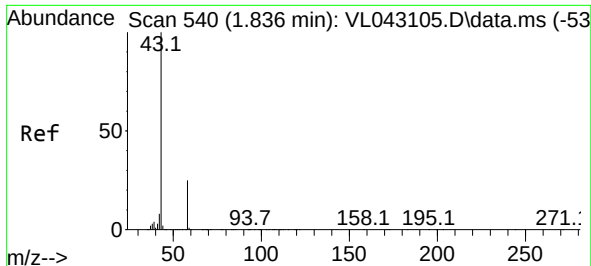
Tgt Ion: 45 Resp: 327  
 Ion Ratio Lower Upper  
 45 100  
 46 80.1 14.7 58.9#



#14  
 Bromoethene  
 Concen: 0.107 ppbv  
 RT: 1.787 min Scan# 525  
 Delta R.T. 0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

Tgt Ion: 108 Resp: 443  
 Ion Ratio Lower Upper  
 108 100  
 106 133.2 84.4 126.6#  
 79 99.1 15.3 22.9#

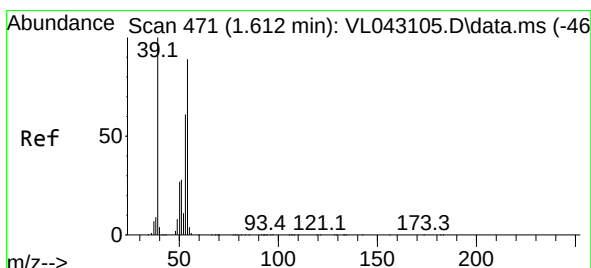
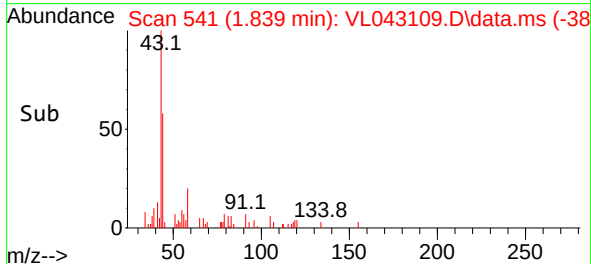
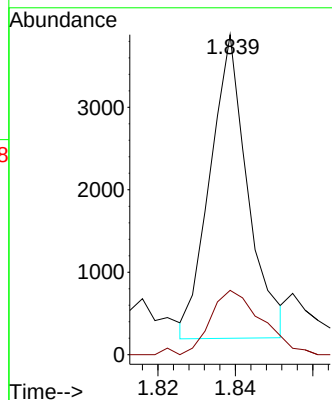
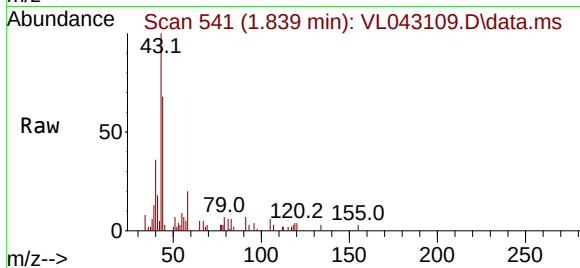




#15  
Acetone  
Concen: 0.184 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

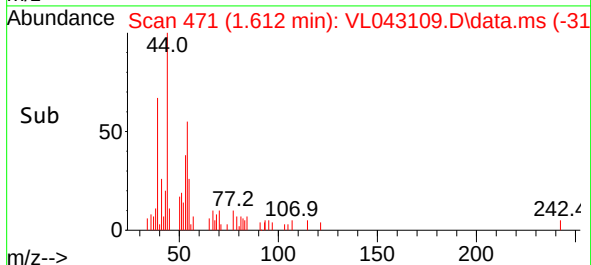
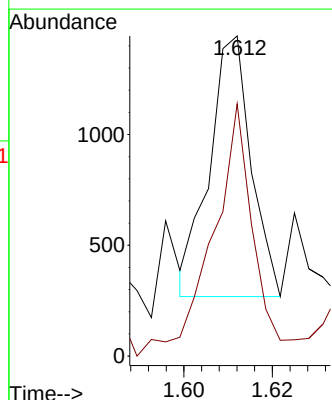
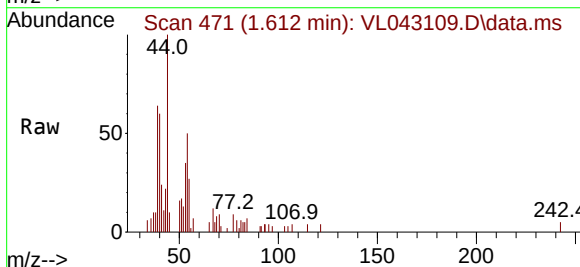
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

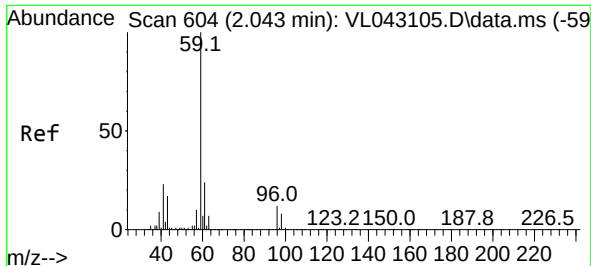
Tgt Ion: 43 Resp: 2487  
Ion Ratio Lower Upper  
43 100  
58 29.5 20.8 31.2



#16  
1,3-Butadiene  
Concen: 0.120 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 39 Resp: 770  
Ion Ratio Lower Upper  
39 100  
54 116.8 59.0 88.4#





#17

tert-Butyl alcohol

Concen: 0.124 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

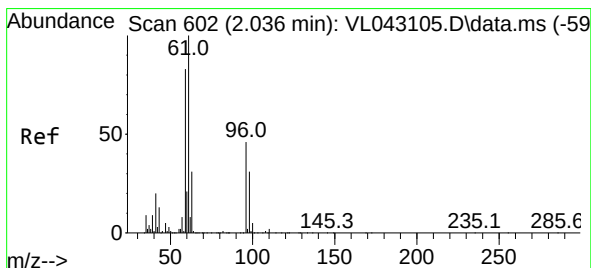
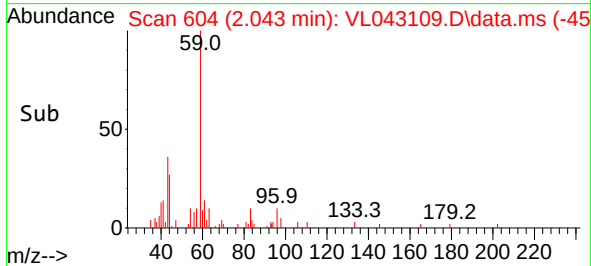
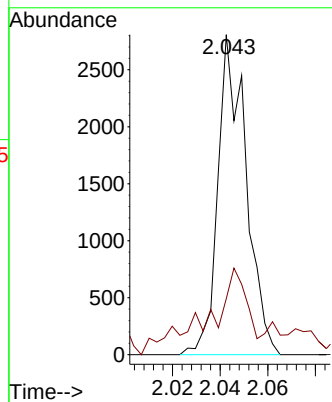
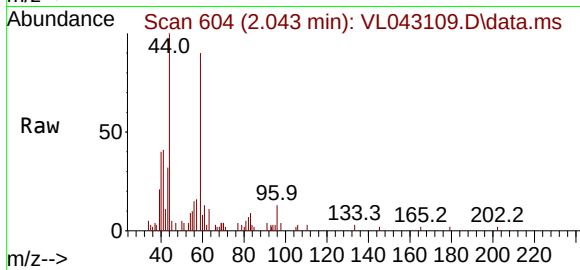
VSTDICC0.1

Tgt Ion: 59 Resp: 2301

Ion Ratio Lower Upper

59 100

57 46.6 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.148 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

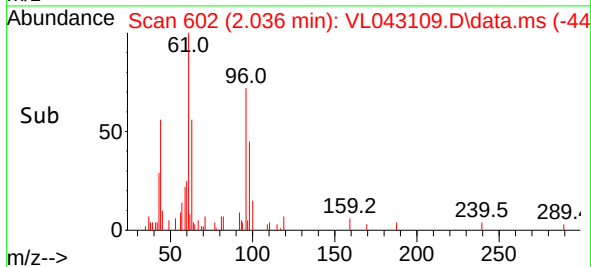
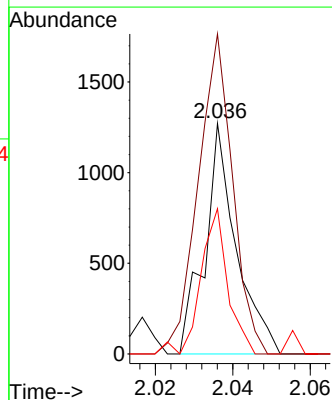
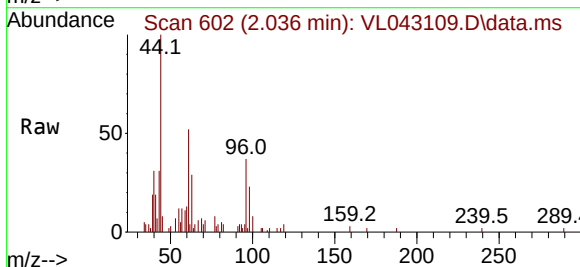
Tgt Ion: 96 Resp: 720

Ion Ratio Lower Upper

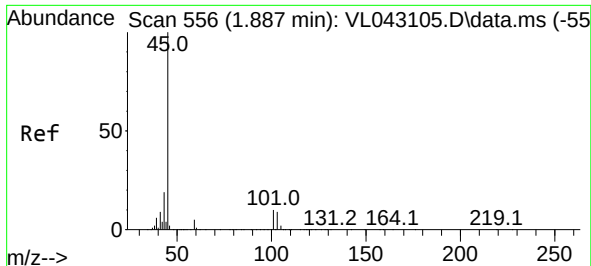
96 100

61 149.8 173.4 260.0#

98 63.0 53.2 79.8



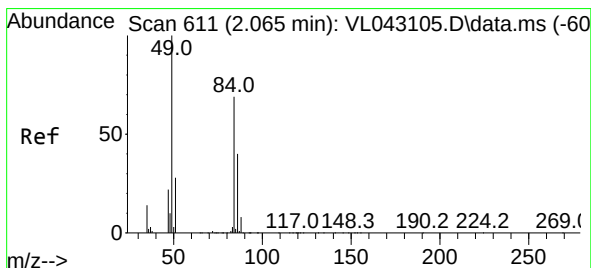
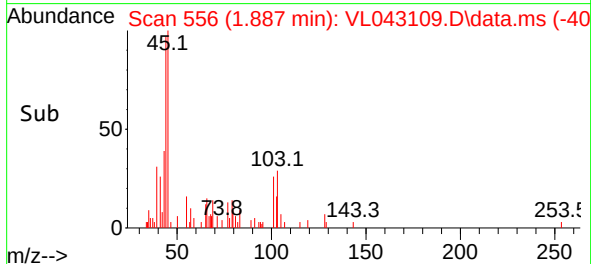
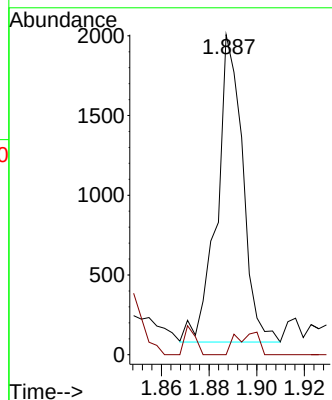
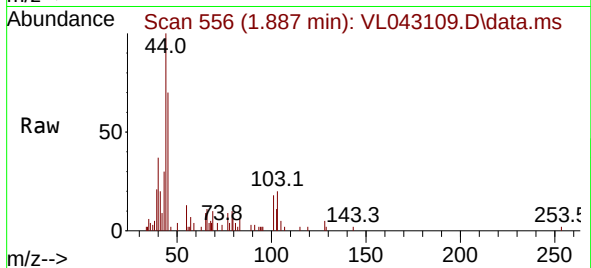




#19  
Isopropyl Alcohol  
Concen: 0.172 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

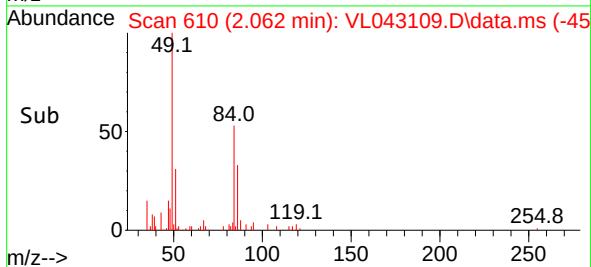
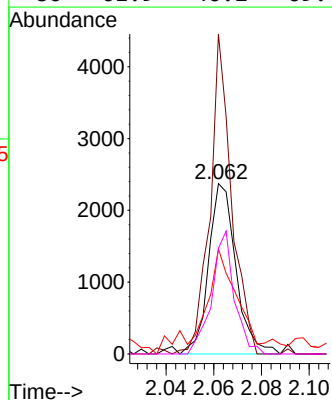
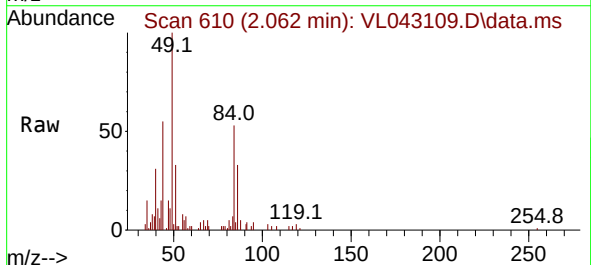
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

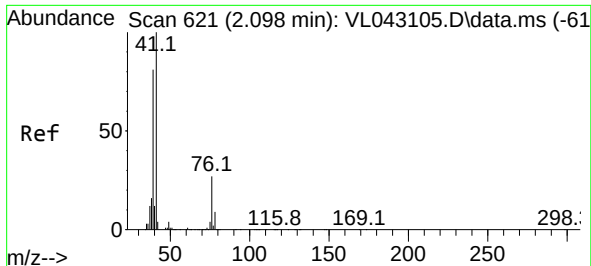
Tgt Ion: 45 Resp: 1443  
Ion Ratio Lower Upper  
45 100  
58 10.5 31.3 46.9#



#20  
Methylene Chloride  
Concen: 0.355 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 84 Resp: 1890  
Ion Ratio Lower Upper  
84 100  
49 183.9 116.6 175.0#  
51 55.8 34.8 52.2#  
86 61.9 46.2 69.4

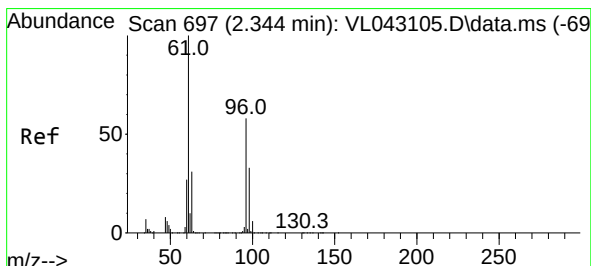
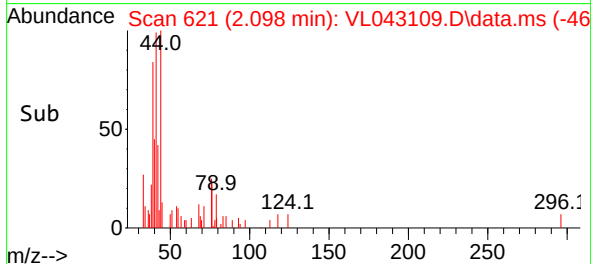
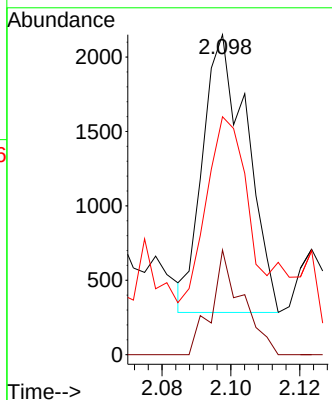
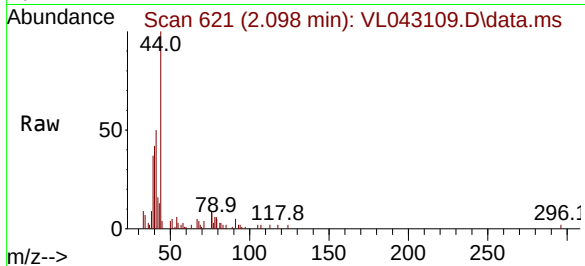




#21  
Allyl Chloride  
Concen: 0.167 ppbv  
RT: 2.098 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

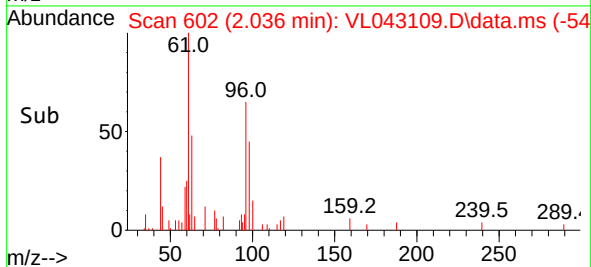
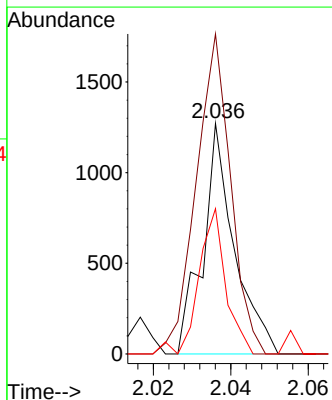
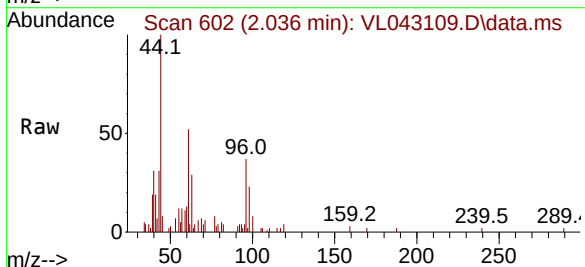
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

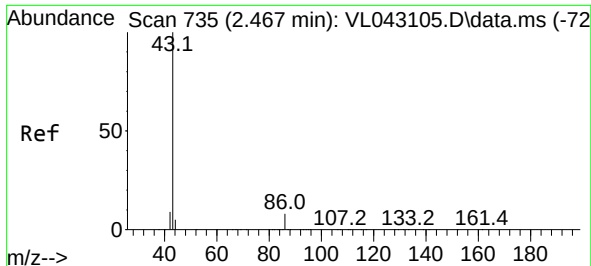
| Tgt Ion:  | 41    | Resp: | 1664  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 76        | 26.4  | 21.5  | 32.3  |
| 39        | 142.1 | 60.8  | 91.2# |



#22  
trans-1,2-Dichloroethene  
Concen: 0.123 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. -0.308 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

| Tgt Ion:  | 96    | Resp: | 720   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 149.8 | 137.0 | 205.6 |
| 98        | 63.0  | 45.5  | 68.3  |

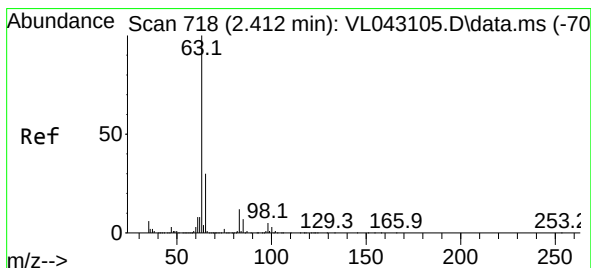
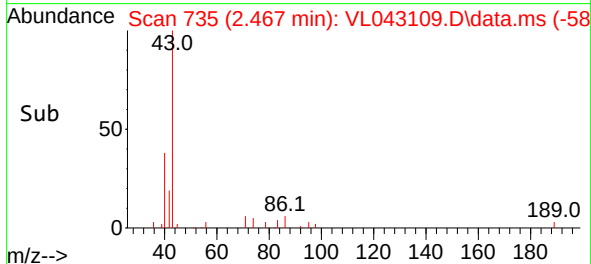
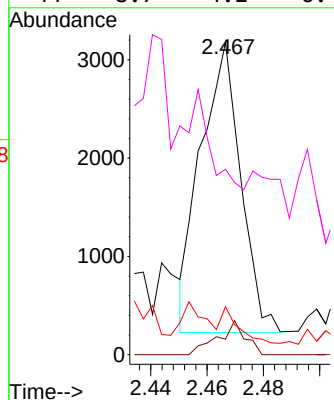
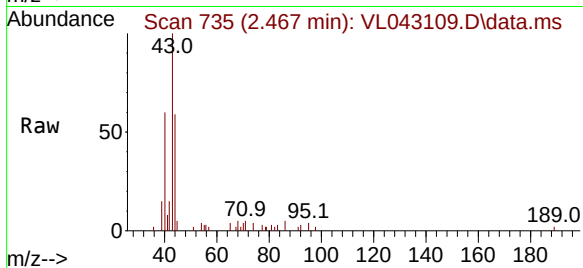




#23  
 Vinyl Acetate  
 Concen: 0.148 ppbv  
 RT: 2.467 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

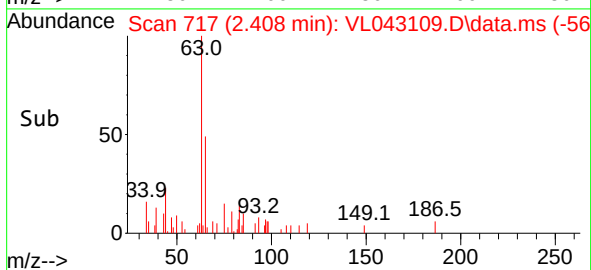
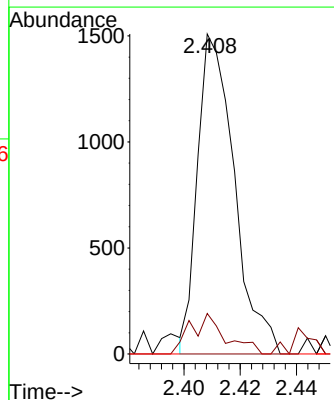
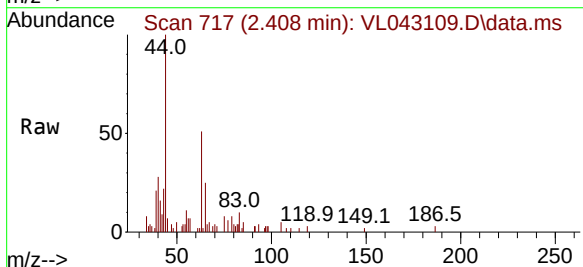
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

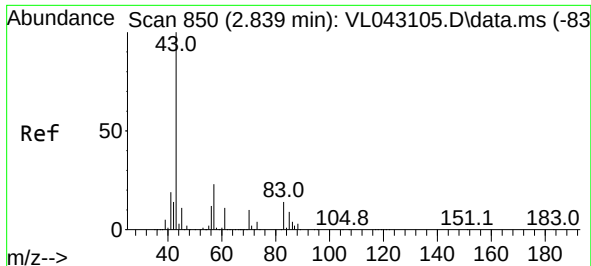
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 2916  |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 86        | 5.4   | 6.2   | 9.2#  |
| 42        | 5.5   | 7.6   | 11.4# |
| 44        | 8.7   | 4.2   | 6.4#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.121 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 1367 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 98        | 8.5   | 2.6   | 7.8# |
| 100       | 0.0   | 1.5   | 4.4# |





#25

Ethyl Acetate

Concen: 0.033 ppbv

RT: 2.836 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

Tgt Ion: 43 Resp: 1114

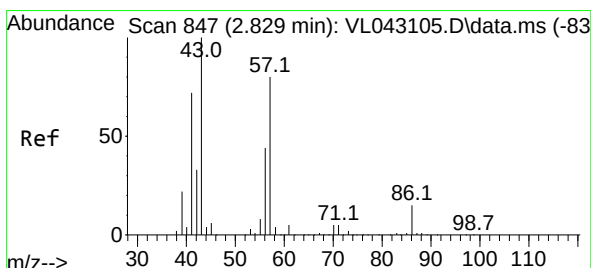
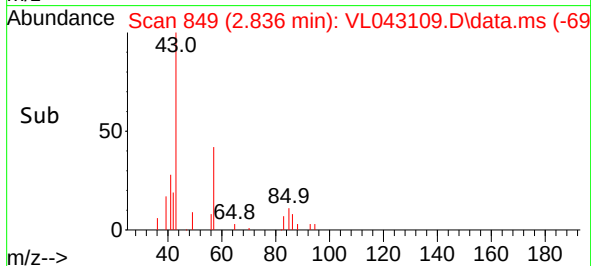
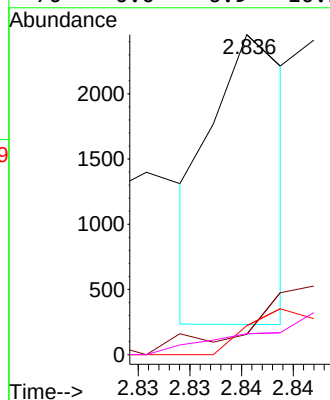
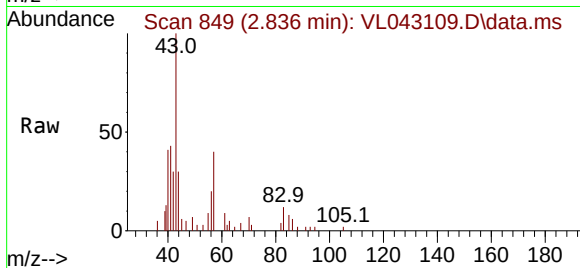
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.8#

61 27.3 7.0 10.6#

70 0.0 6.9 10.3#



#26

Hexane

Concen: 0.139 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion: 57 Resp: 2134

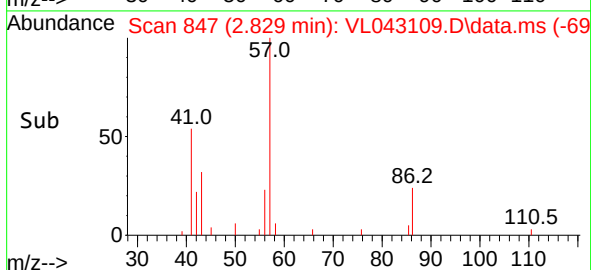
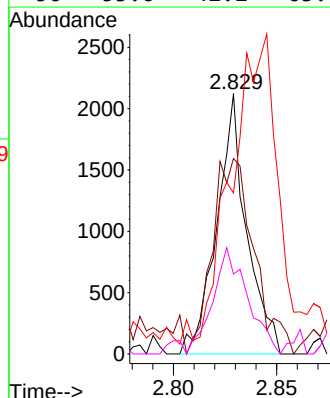
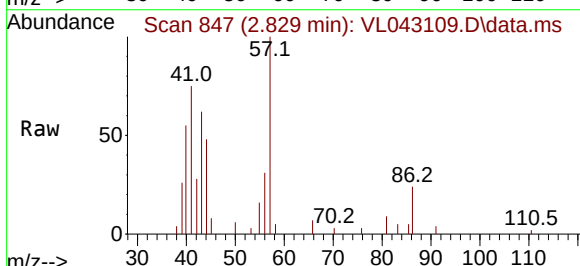
Ion Ratio Lower Upper

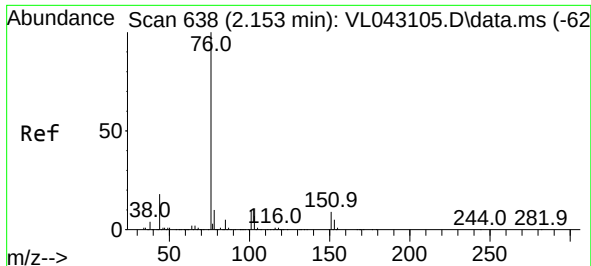
57 100

41 106.3 71.4 107.0

43 219.9 178.5 267.7

56 53.6 42.2 63.4

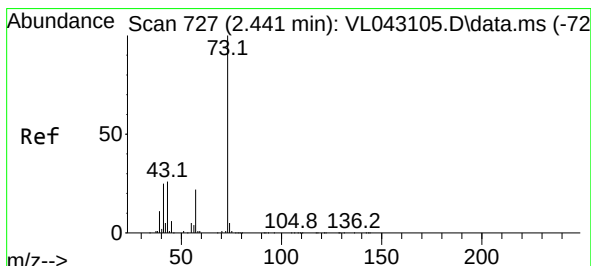
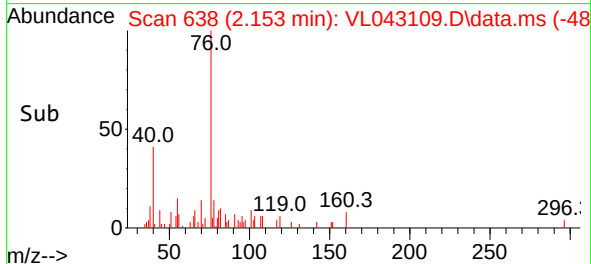
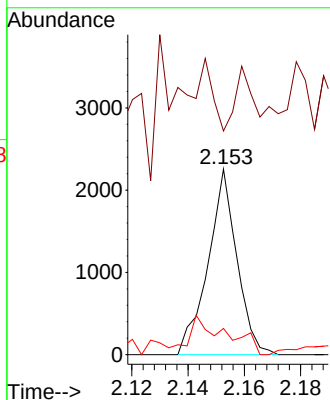
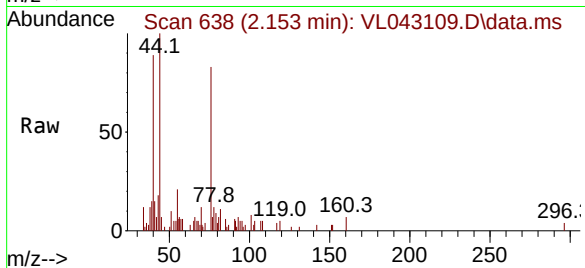




#27  
Carbon Disulfide  
Concen: 0.114 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

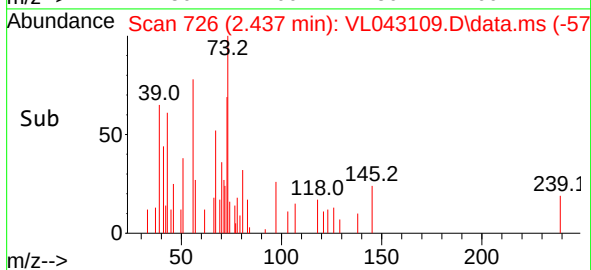
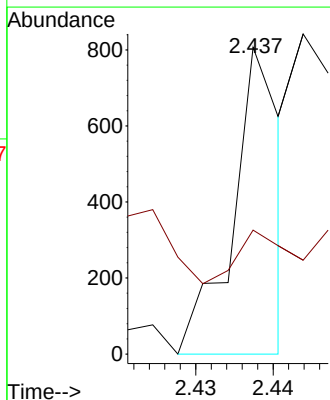
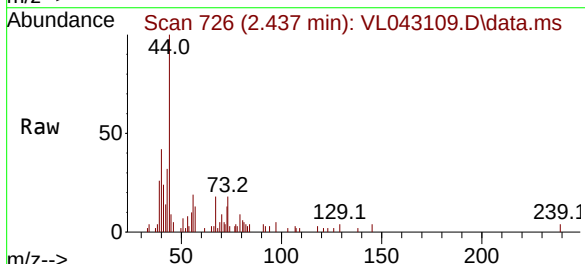
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

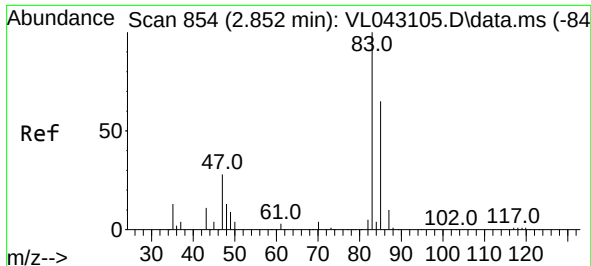
Tgt Ion: 76 Resp: 1609  
Ion Ratio Lower Upper  
76 100  
44 164.6 16.7 25.1#  
78 37.2 9.3 13.9#



#28  
Methyl tert-Butyl Ether  
Concen: 0.050 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 73 Resp: 351  
Ion Ratio Lower Upper  
73 100  
57 0.0 20.5 30.7#





#29

Chloroform

Concen: 0.055 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

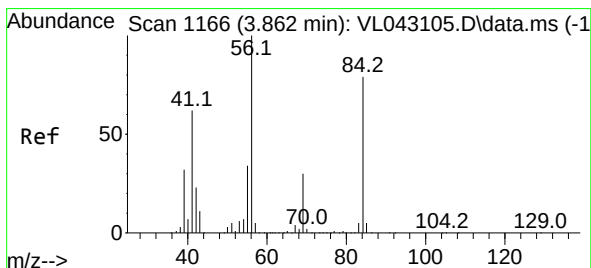
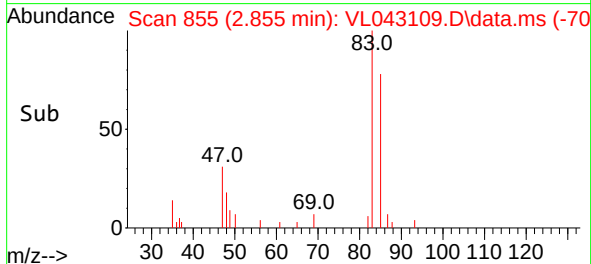
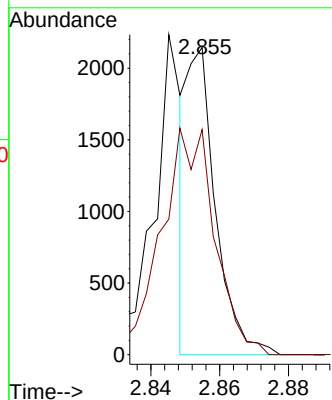
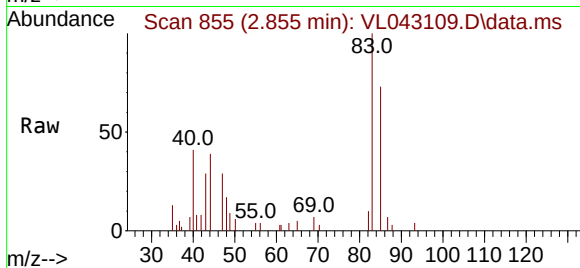
VSTDIC0.1

Tgt Ion: 83 Resp: 1225

Ion Ratio Lower Upper

83 100

85 73.3 51.8 77.6



#30

Cyclohexane

Concen: 0.025 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

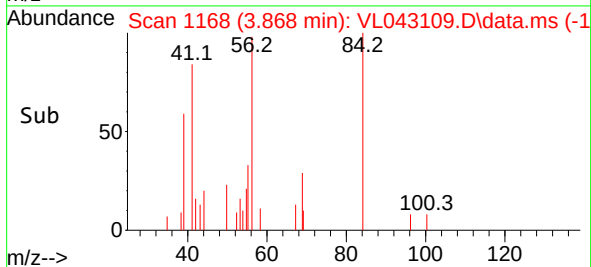
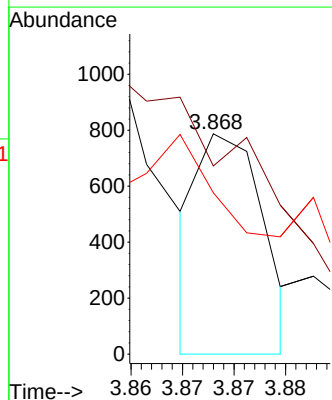
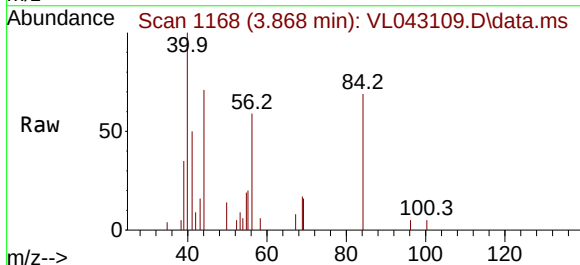
Tgt Ion: 84 Resp: 340

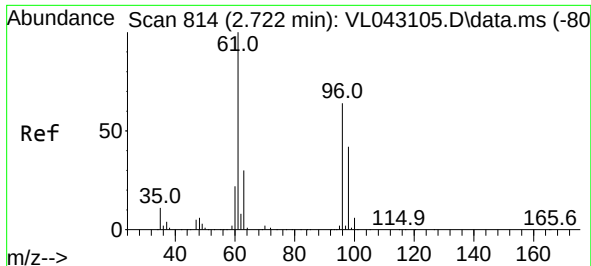
Ion Ratio Lower Upper

84 100

56 0.0 100.9 151.3#

41 578.5 63.8 95.6#

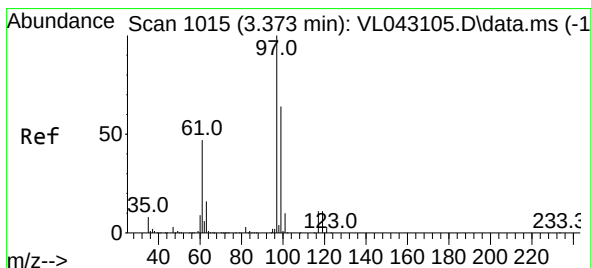
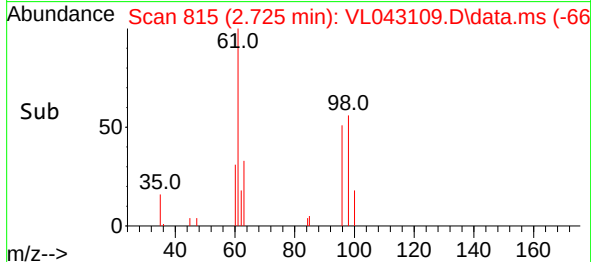
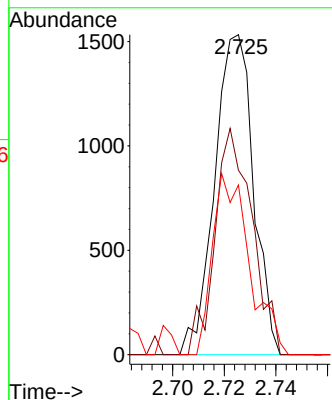
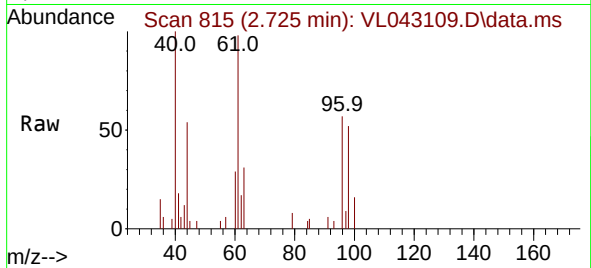




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.109 ppbv  
 RT: 2.725 min Scan# 814  
 Delta R.T. 0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

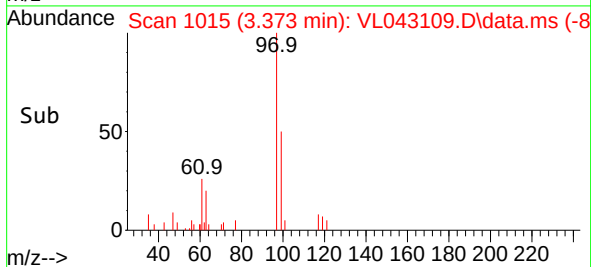
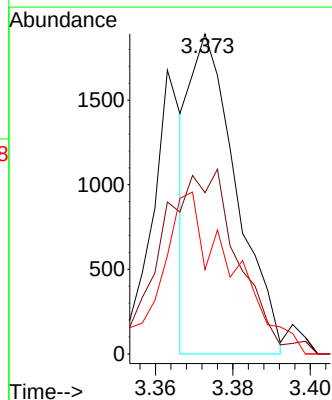
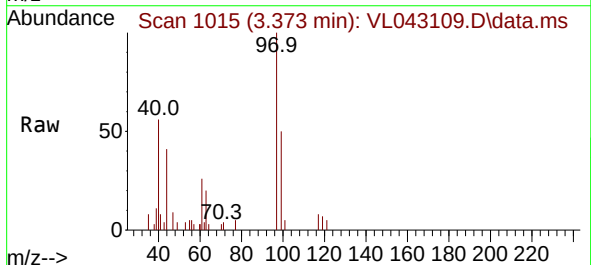
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

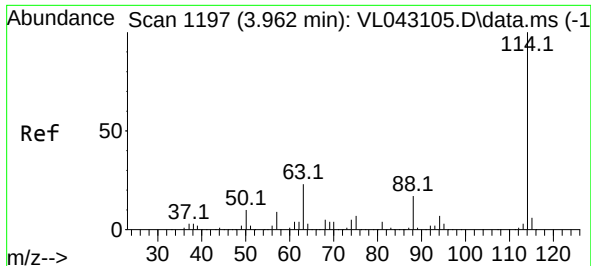
Tgt Ion: 61 Resp: 1605  
 Ion Ratio Lower Upper  
 61 100  
 96 57.7 51.0 76.6  
 98 53.0 33.5 50.3#



#32  
 1,1,1-Trichloroethane  
 Concen: 0.068 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

Tgt Ion: 97 Resp: 1581  
 Ion Ratio Lower Upper  
 97 100  
 99 94.8 51.3 76.9#  
 61 76.3 38.4 57.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.1

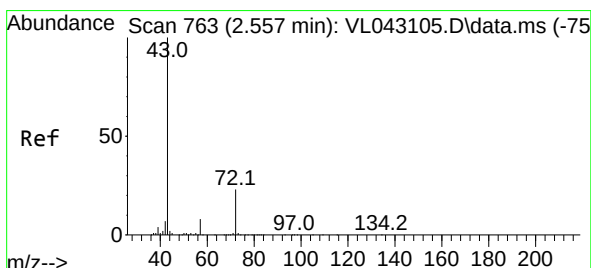
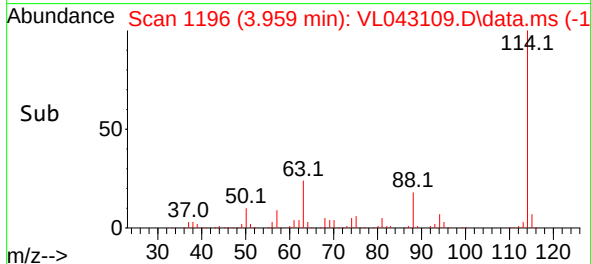
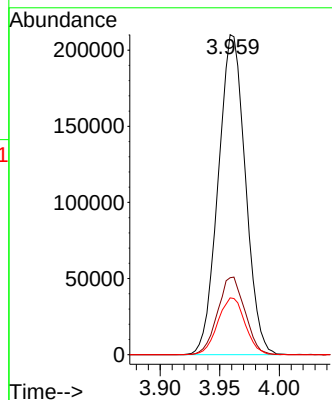
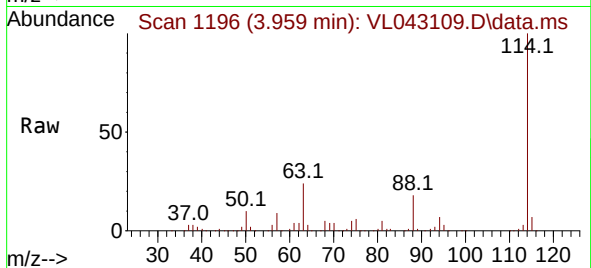
Tgt Ion:114 Resp: 332574

Ion Ratio Lower Upper

114 100

63 24.3 19.3 28.9

88 17.9 13.9 20.9



#34

2-Butanone

Concen: 0.114 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043109.D

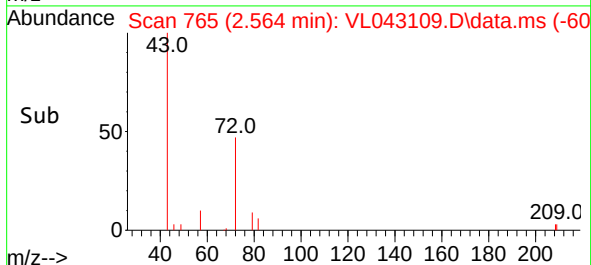
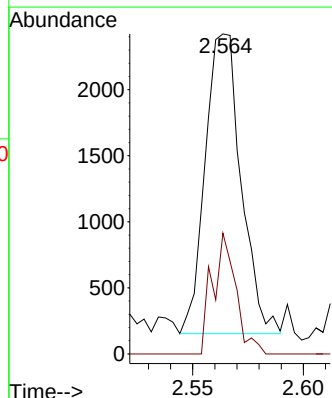
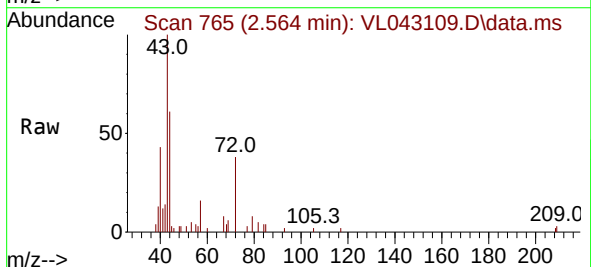
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 2560

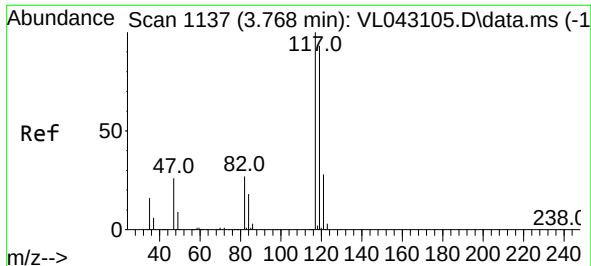
Ion Ratio Lower Upper

43 100

72 26.1 18.4 27.6



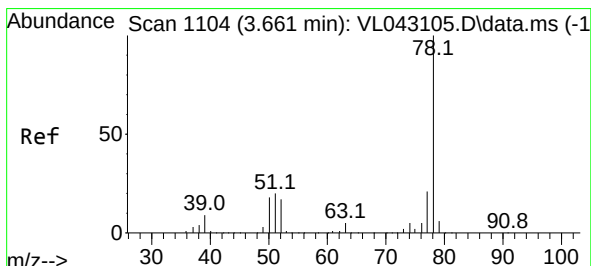
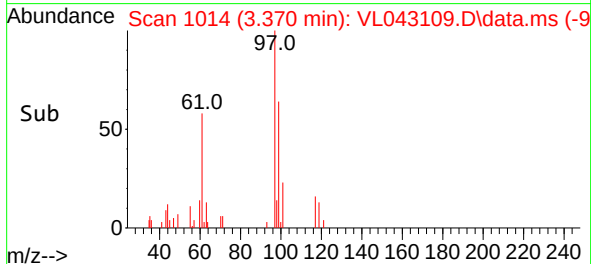
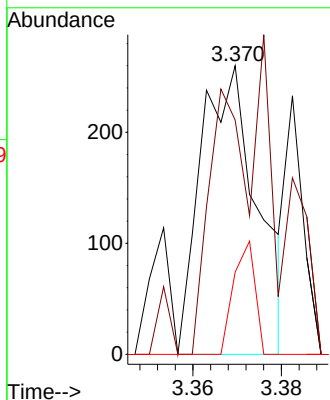
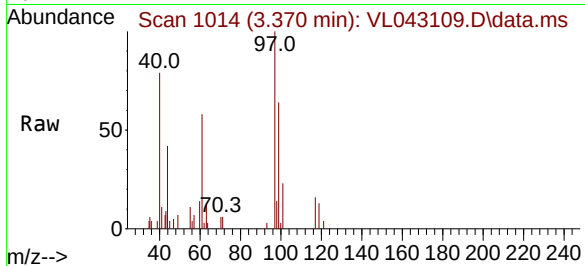




#35  
Carbon Tetrachloride  
Concen: 0.010 ppbv  
RT: 3.370 min Scan# 1103  
Delta R.T. -0.398 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

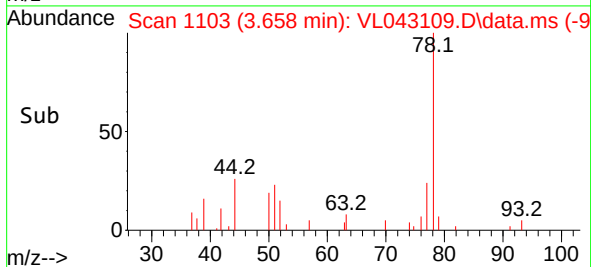
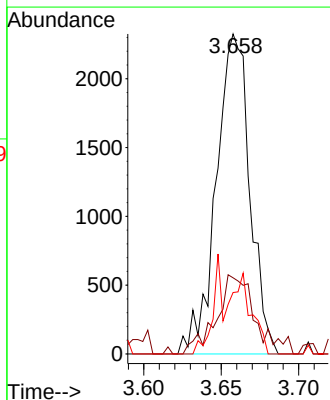
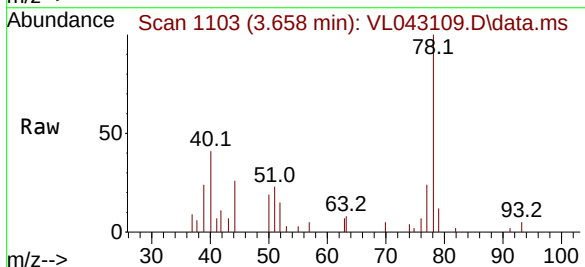
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

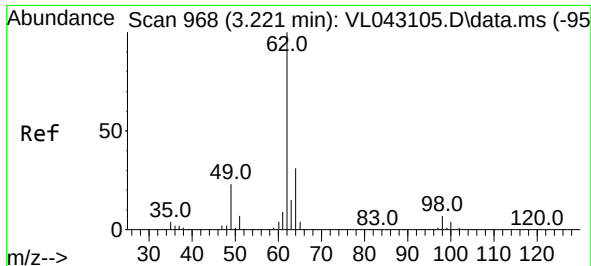
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:117 | Resp: | 231         |
| Ion         | Ratio | Lower Upper |
| 117         | 100   |             |
| 119         | 81.2  | 74.1 111.1  |
| 121         | 28.5  | 22.2 33.2   |



#36  
Benzene  
Concen: 0.112 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 78 | Resp: | 3507        |
| Ion         | Ratio | Lower Upper |
| 78          | 100   |             |
| 77          | 23.8  | 17.0 25.6   |
| 50          | 19.2  | 14.6 22.0   |





#37

1,2-Dichloroethane

Concen: 0.080 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

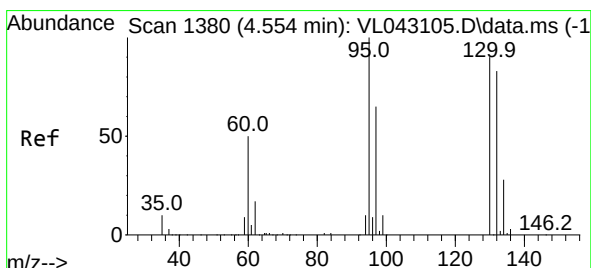
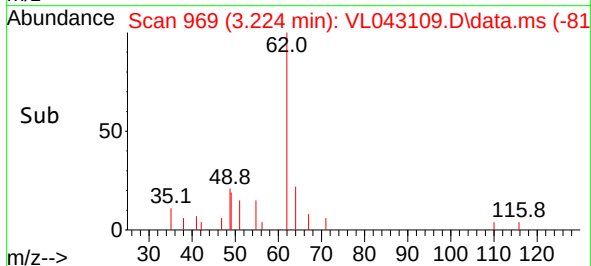
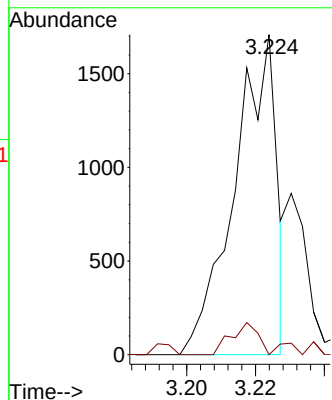
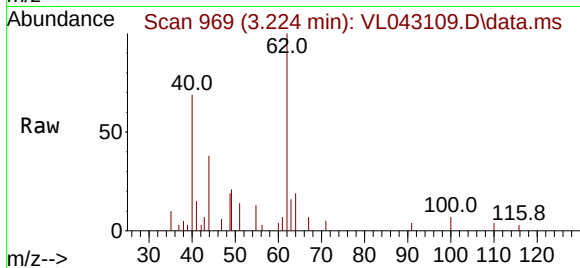
VSTDIC0.1

Tgt Ion: 62 Resp: 1448

Ion Ratio Lower Upper

62 100

98 9.5 5.8 8.6#



#38

Trichloroethene

Concen: 0.019 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion: 130 Resp: 242

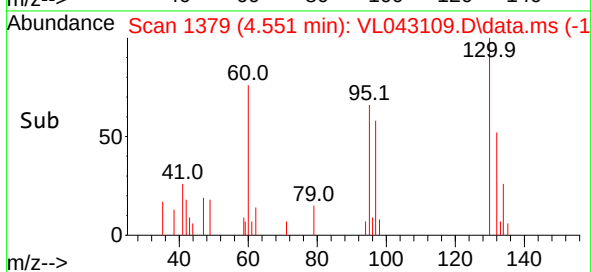
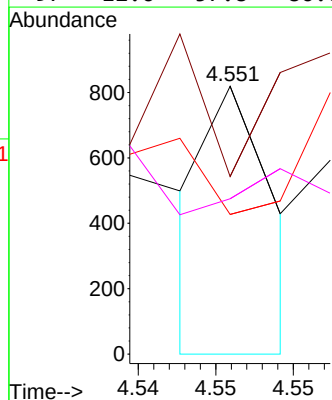
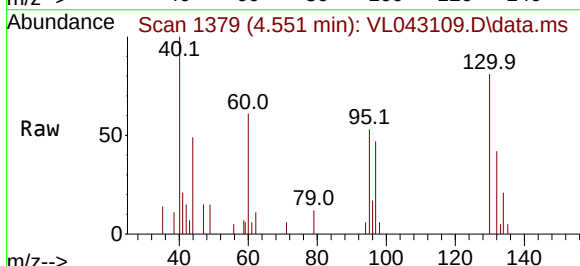
Ion Ratio Lower Upper

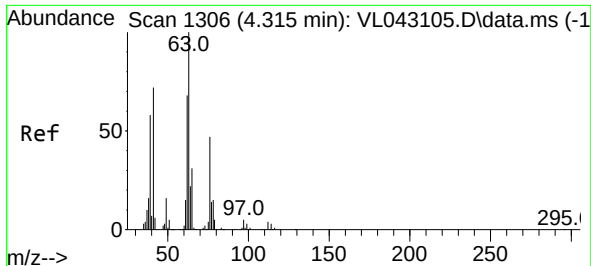
130 100

95 0.0 88.6 133.0#

132 0.0 73.4 110.0#

97 12.6 57.8 86.6#





#39

1,2-Dichloropropane

Concen: 7.054 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.353 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

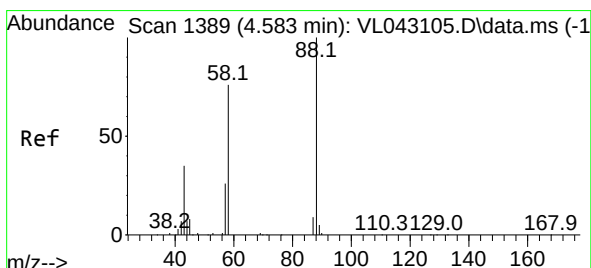
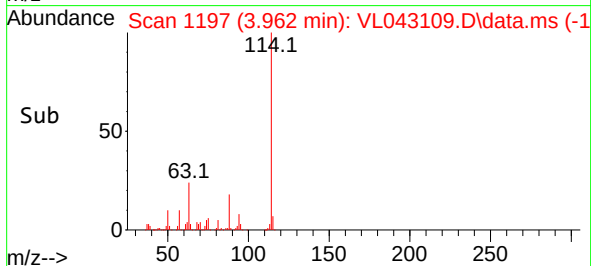
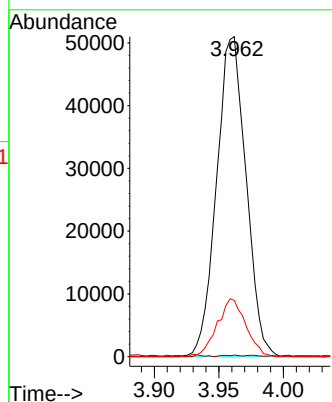
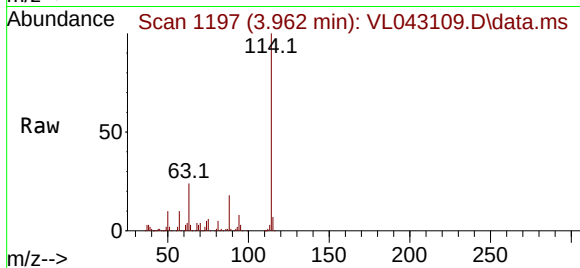
Tgt Ion: 63 Resp: 80849

Ion Ratio Lower Upper

63 100

41 0.5 58.0 87.0#

62 17.6 54.7 82.1#



#40

1,4-Dioxane

Concen: 0.066 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.026 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion: 88 Resp: 339

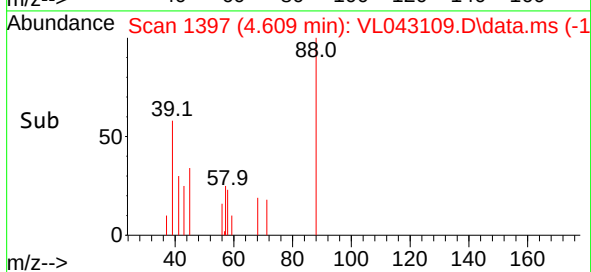
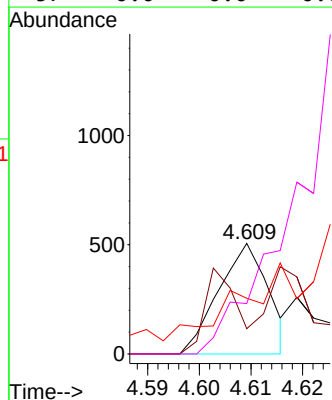
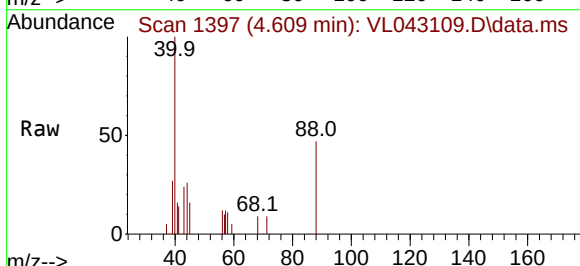
Ion Ratio Lower Upper

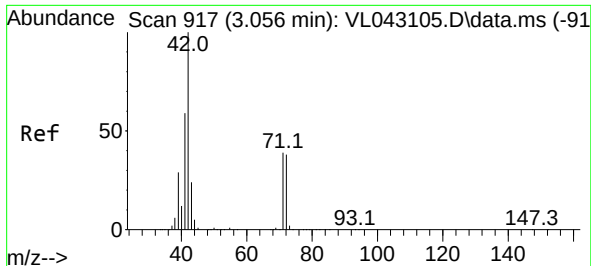
88 100

58 14.2 61.1 91.7#

43 48.4 24.0 36.0#

57 0.0 0.0 0.0

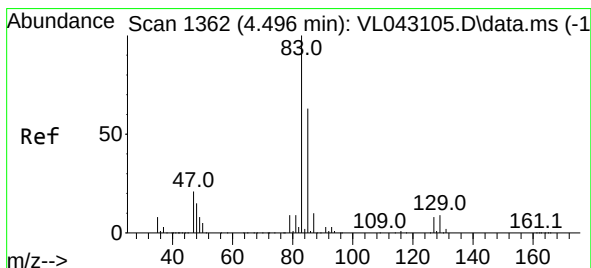
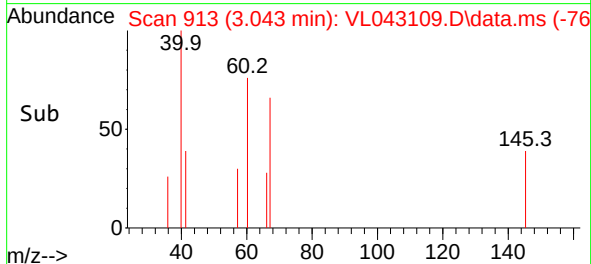
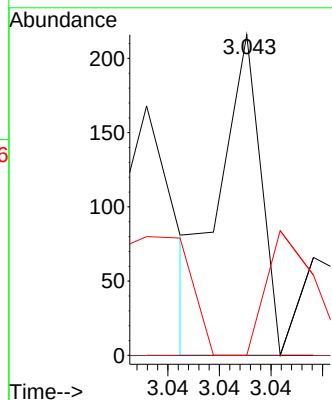
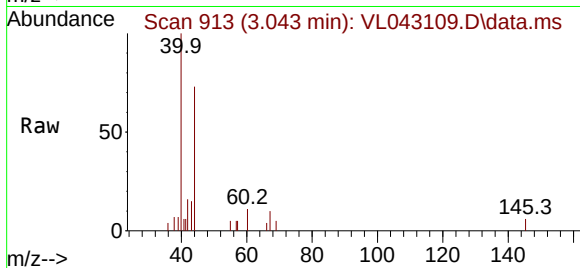




#41  
Tetrahydrofuran  
Concen: 0.005 ppbv  
RT: 3.043 min Scan# 917  
Delta R.T. -0.013 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

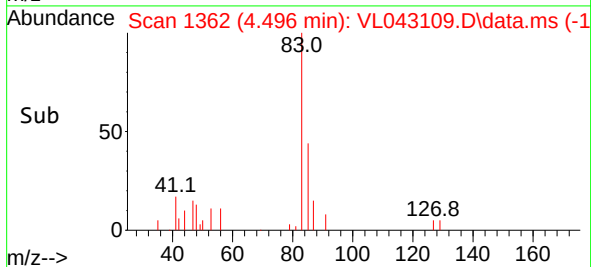
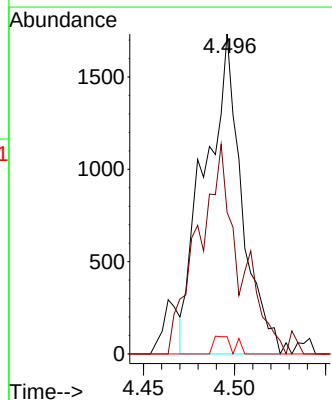
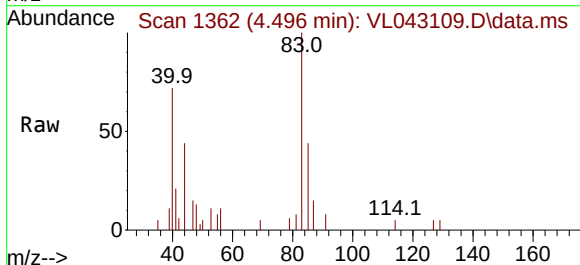
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

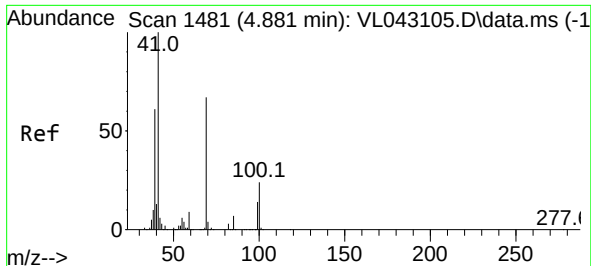
Tgt Ion: 42 Resp: 58  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.3 46.9#  
71 0.0 30.4 45.6#



#42  
Bromodichloromethane  
Concen: 0.098 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 83 Resp: 2440  
Ion Ratio Lower Upper  
83 100  
85 40.1 50.6 75.8#  
127 5.4 6.3 9.5#





#43

Methyl Methacrylate

Concen: 0.040 ppbv

RT: 4.881 min Scan# 1481

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

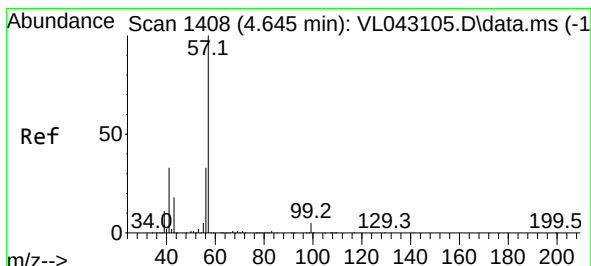
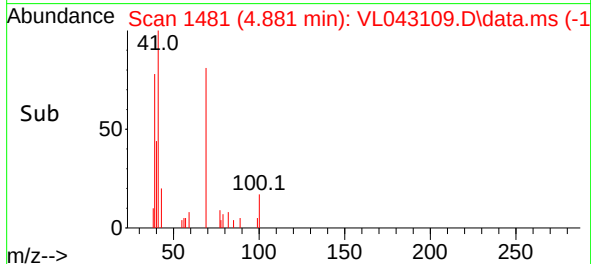
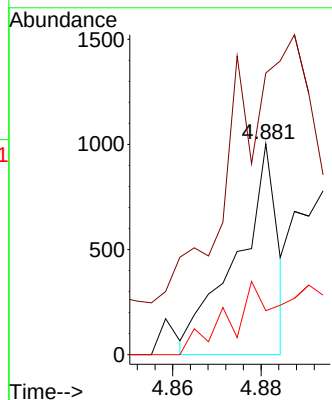
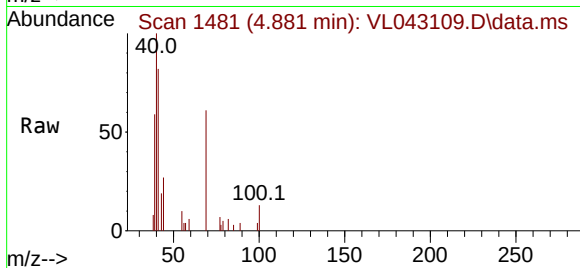
Tgt Ion: 69 Resp: 636

Ion Ratio Lower Upper

69 100

41 0.0 120.5 180.7#

100 0.0 29.0 43.4#



#44

2,2,4-Trimethylpentane

Concen: 0.064 ppbv

RT: 4.642 min Scan# 1407

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

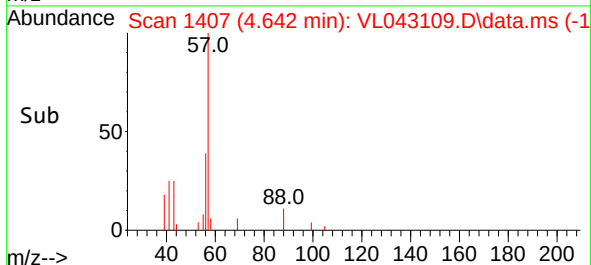
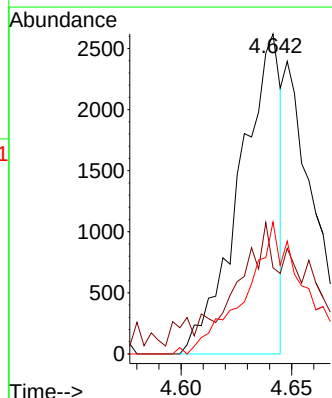
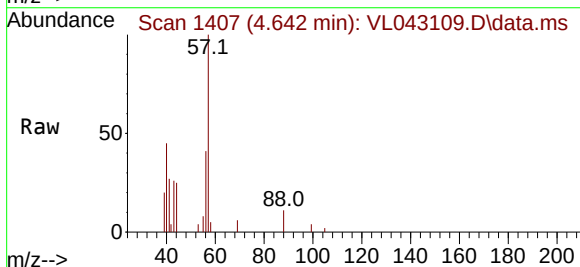
Tgt Ion: 57 Resp: 3354

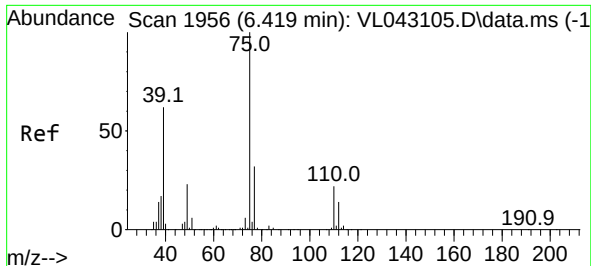
Ion Ratio Lower Upper

57 100

41 68.1 26.3 39.5#

56 59.0 25.9 38.9#

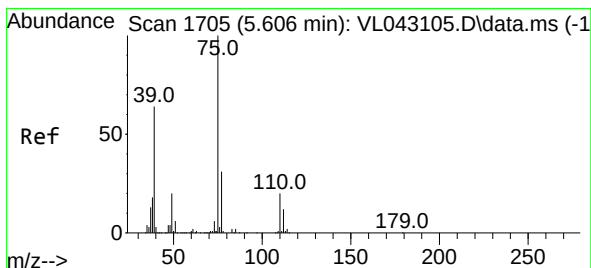
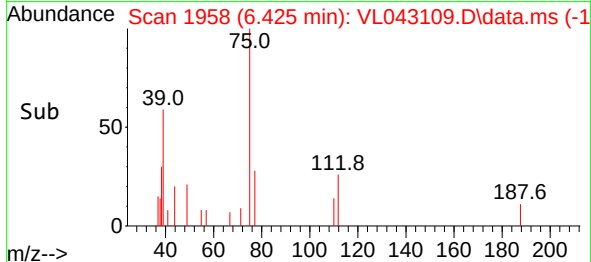
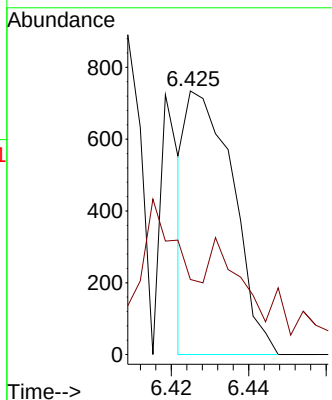
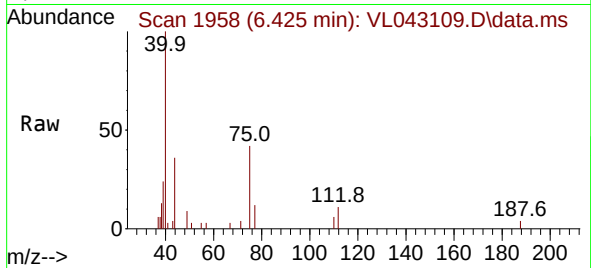




#45  
t-1,3-Dichloropropene  
Concen: 0.039 ppbv  
RT: 6.425 min Scan# 1956  
Delta R.T. 0.006 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

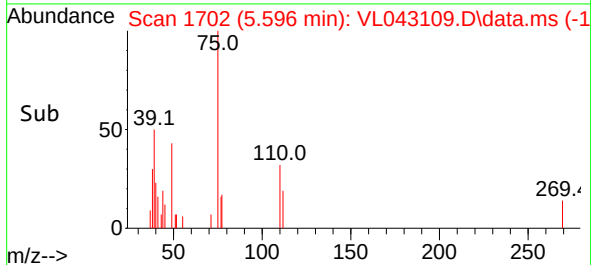
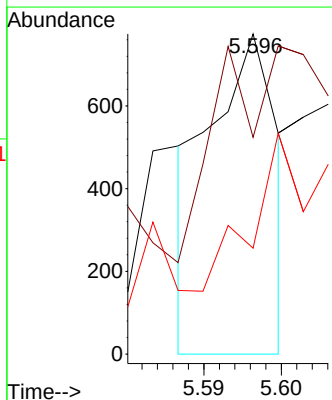
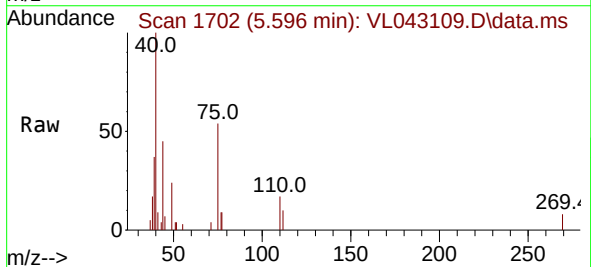
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

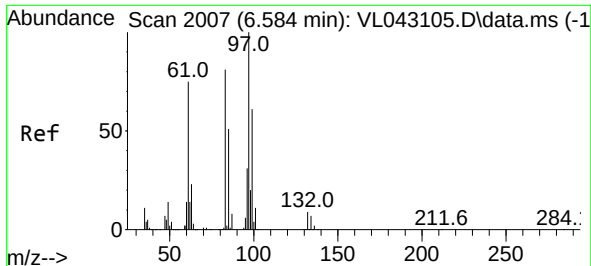
Tgt Ion: 75 Resp: 617  
Ion Ratio Lower Upper  
75 100  
77 28.5 25.4 38.2



#46  
cis-1,3-Dichloropropene  
Concen: 0.025 ppbv  
RT: 5.596 min Scan# 1702  
Delta R.T. -0.010 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 75 Resp: 472  
Ion Ratio Lower Upper  
75 100  
39 111.8 51.0 76.6#  
77 37.6 25.0 37.4#





#47

1,1,2-Trichloroethane

Concen: 0.058 ppbv

RT: 6.587 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 716

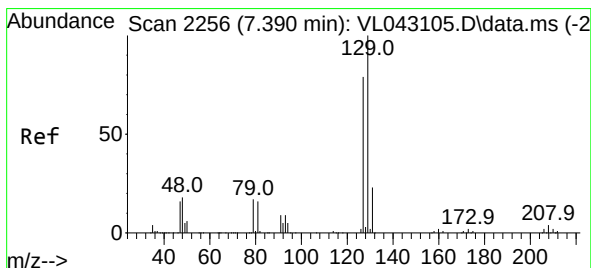
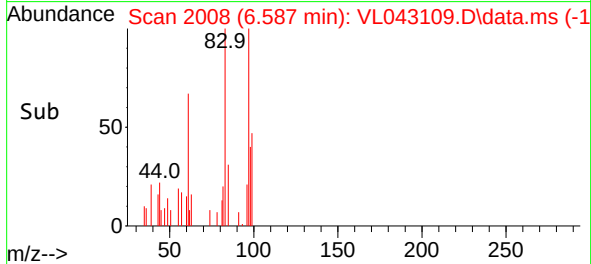
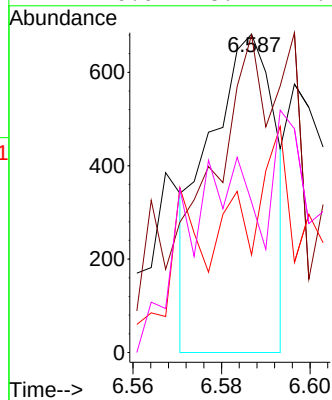
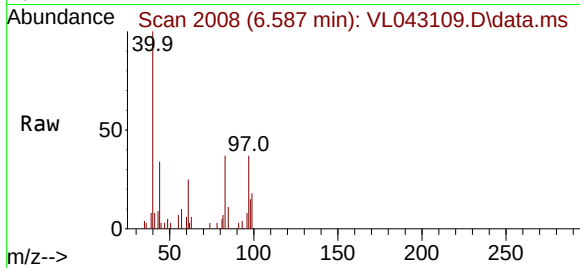
Ion Ratio Lower Upper

97 100

83 117.6 64.6 96.8#

85 0.0 40.6 60.8#

99 0.0 48.4 72.6#



#48

Dibromochloromethane

Concen: 0.073 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043109.D

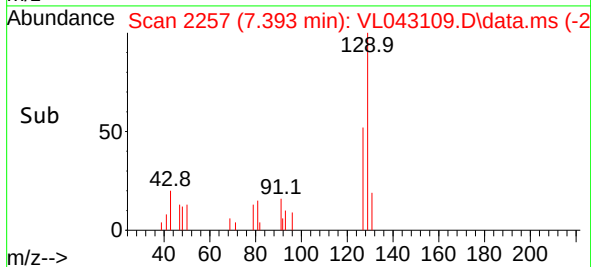
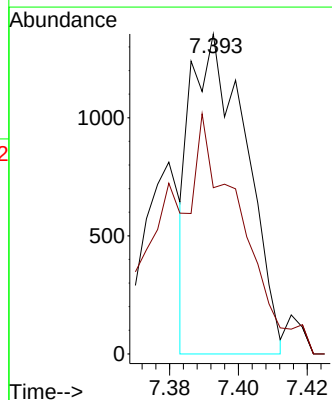
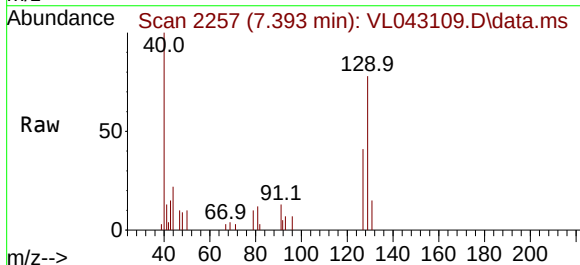
Acq: 14 Oct 2025 13:08

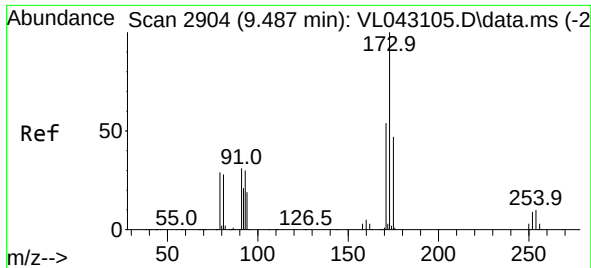
Tgt Ion: 129 Resp: 1506

Ion Ratio Lower Upper

129 100

127 102.8 39.3 117.9

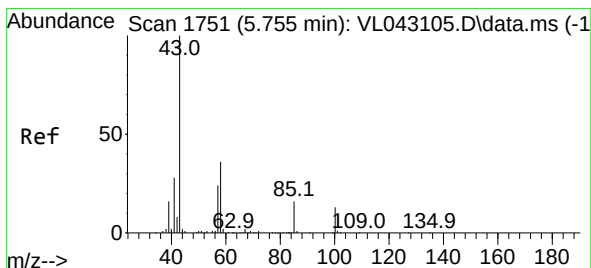
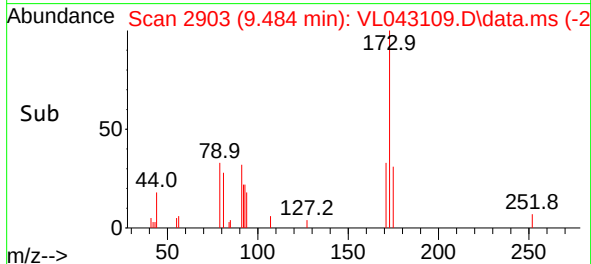
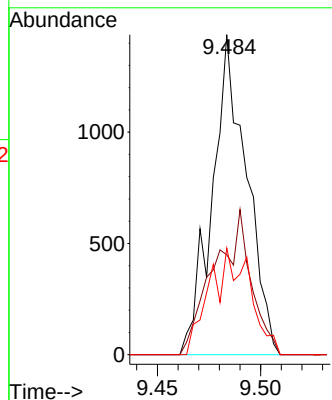
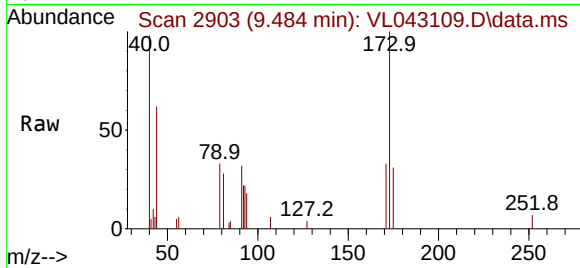




#49  
Bromoform  
Concen: 0.099 ppbv  
RT: 9.484 min Scan# 2904  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

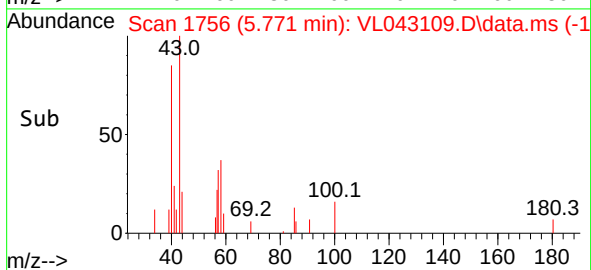
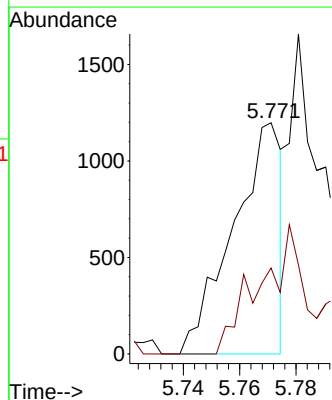
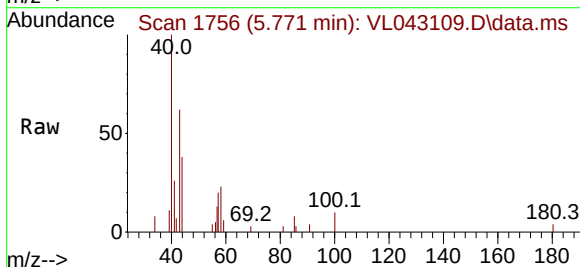
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Tgt Ion:173 Resp: 1666  
Ion Ratio Lower Upper  
173 100  
175 48.9 38.8 58.2  
171 39.1 41.7 62.5#

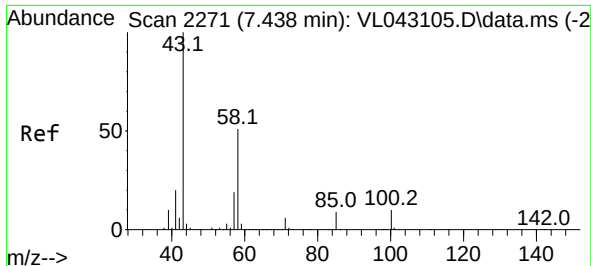


#50  
4-Methyl-2-Pentanone  
Concen: 0.046 ppbv  
RT: 5.771 min Scan# 1756  
Delta R.T. 0.016 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 43 Resp: 1420  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7#



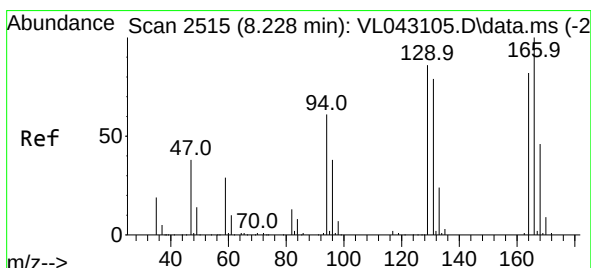
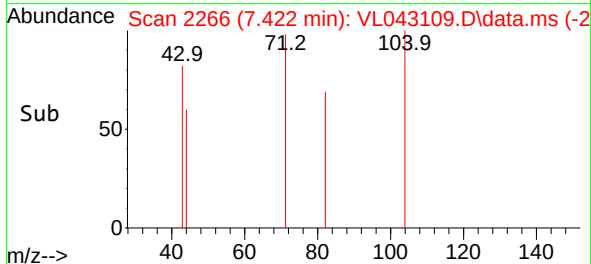
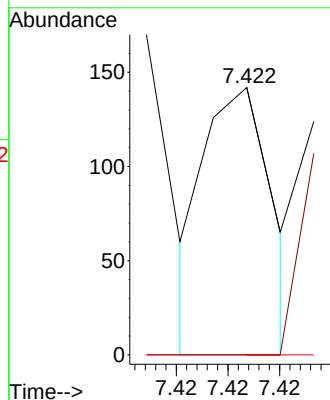
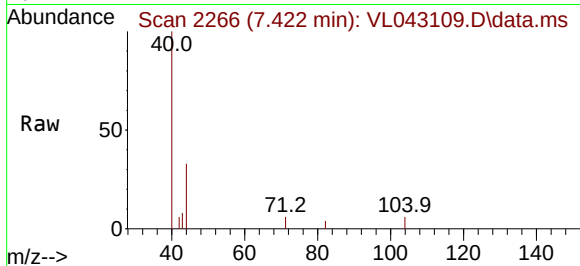




#51  
2-Hexanone  
Concen: 0.003 ppbv  
RT: 7.422 min Scan# 21  
Delta R.T. -0.016 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

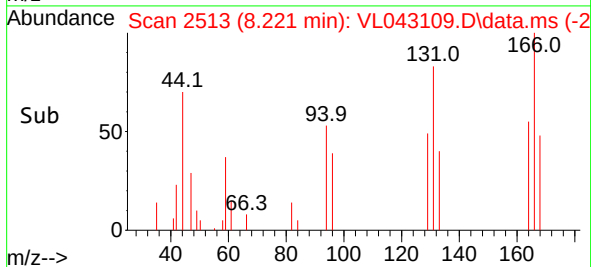
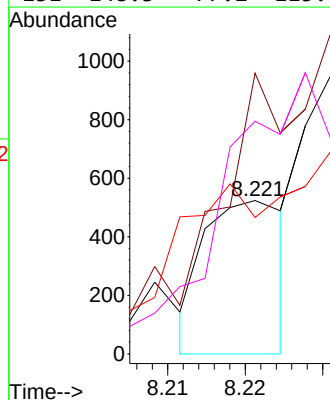
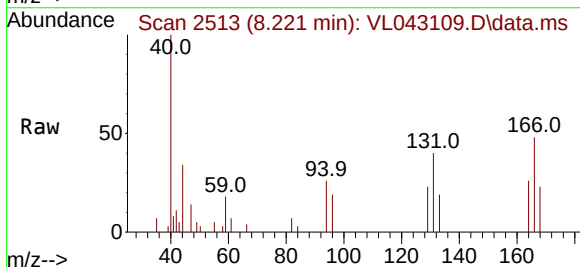
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

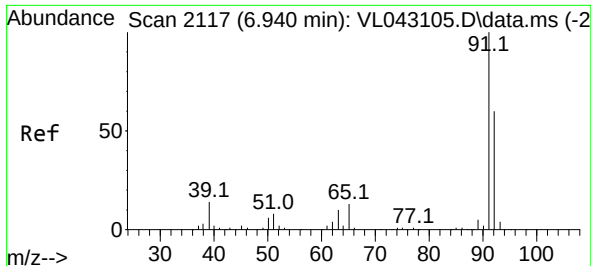
|             |          |            |
|-------------|----------|------------|
| Tgt Ion: 43 | Resp: 65 |            |
| Ion Ratio   | Lower    | Upper      |
| 43          | 100      |            |
| 58          | 0.0      | 40.4 60.6# |
| 98          | 0.0      | 0.1 0.1#   |



#52  
Tetrachloroethene  
Concen: 0.033 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.007 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 377    |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 166 | 208.1   | 97.6  | 146.4# |
| 129 | 0.0     | 84.5  | 126.7# |
| 131 | 148.3   | 77.2  | 115.8# |

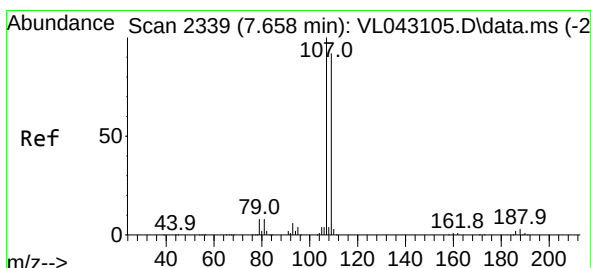
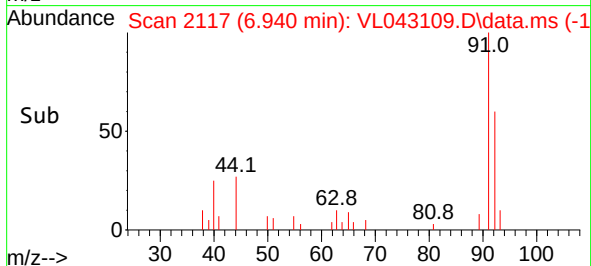
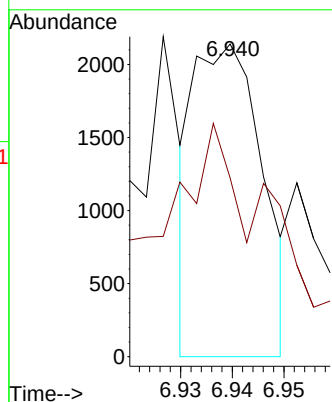
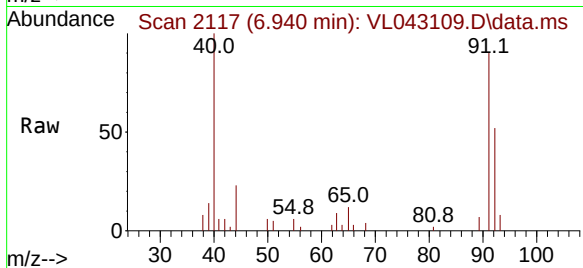




#53  
Toluene  
Concen: 0.053 ppbv  
RT: 6.940 min Scan# 2117  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

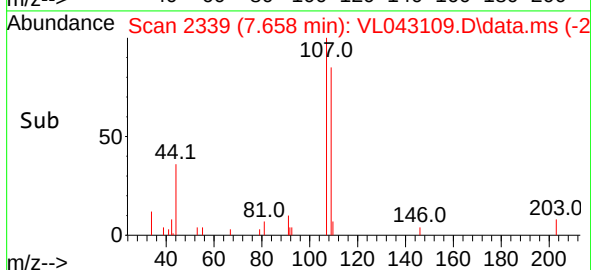
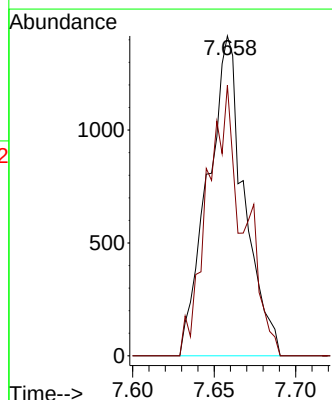
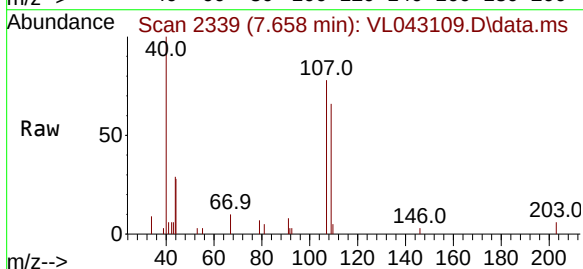
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

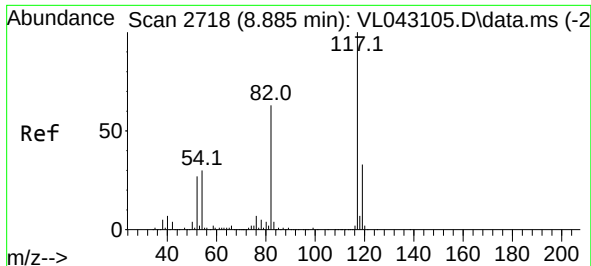
Tgt Ion: 91 Resp: 1973  
Ion Ratio Lower Upper  
91 100  
92 130.1 48.8 73.2#



#54  
1,2-Dibromoethane  
Concen: 0.113 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 107 Resp: 2201  
Ion Ratio Lower Upper  
107 100  
109 91.5 73.4 110.2

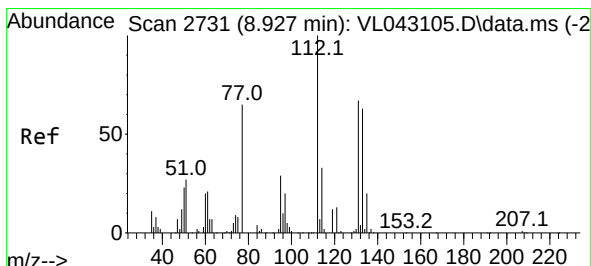
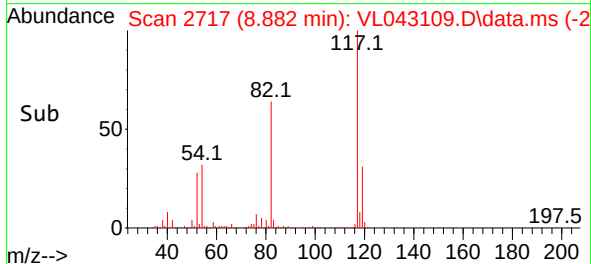
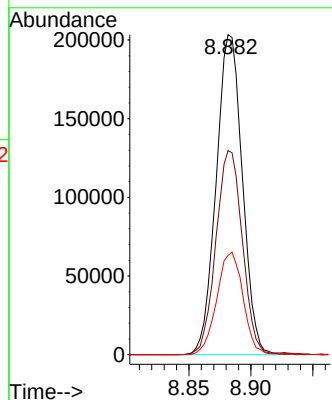
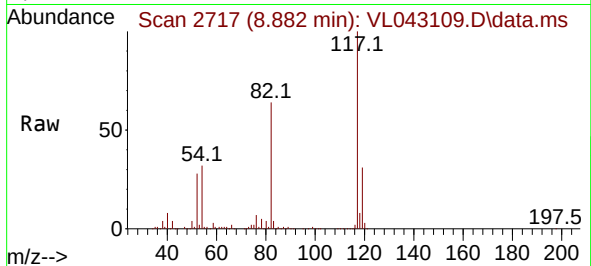




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2718  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

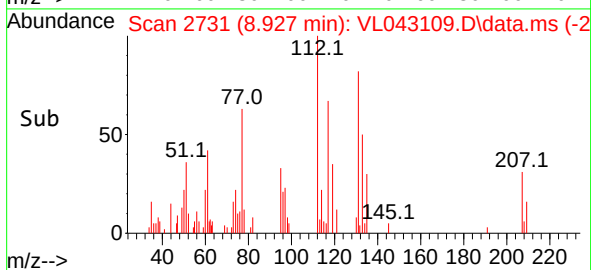
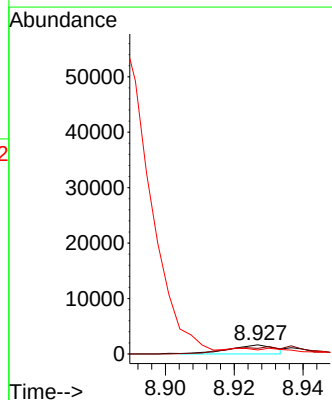
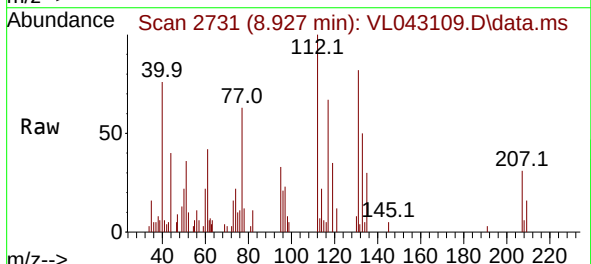
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

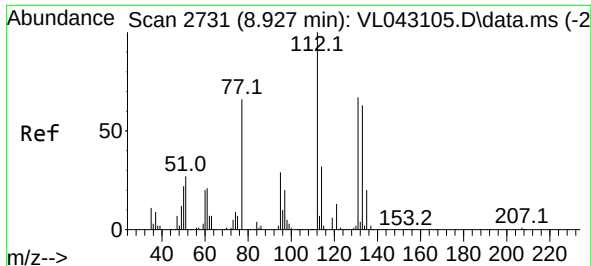
Tgt Ion:117 Resp: 299676  
Ion Ratio Lower Upper  
117 100  
82 64.3 53.8 80.8  
119 32.5 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.080 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion:131 Resp: 1509  
Ion Ratio Lower Upper  
131 100  
133 0.0 75.7 113.5#  
119 0.0 50.6 76.0#

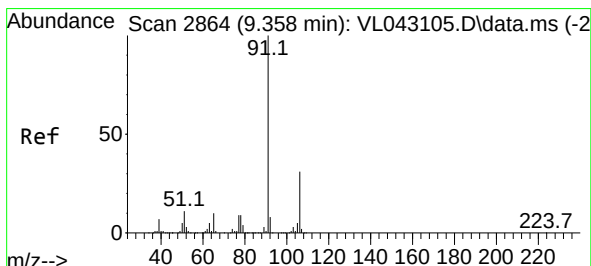
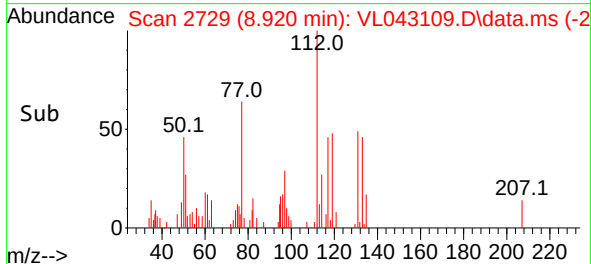
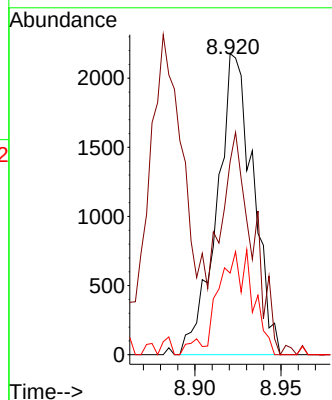
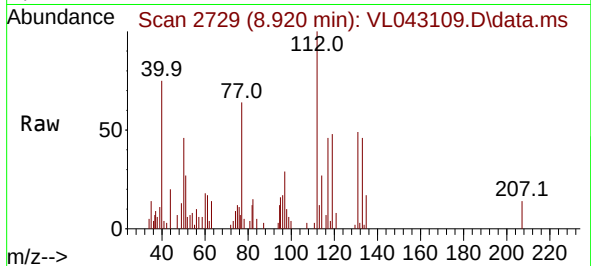




#57  
Chlorobenzene  
Concen: 0.113 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

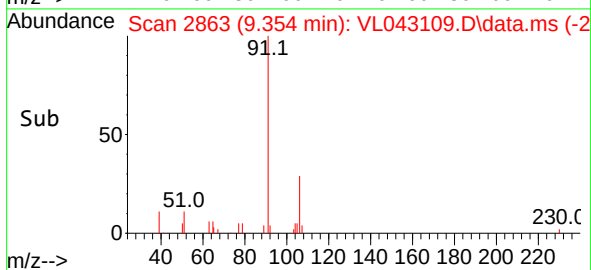
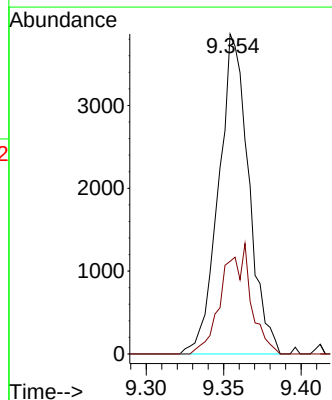
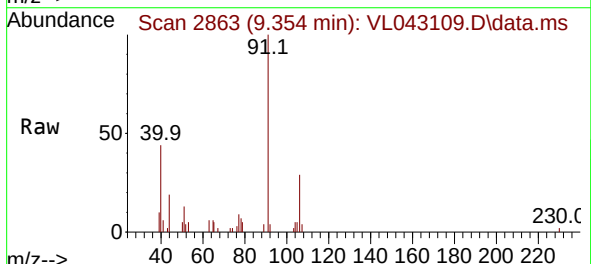
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

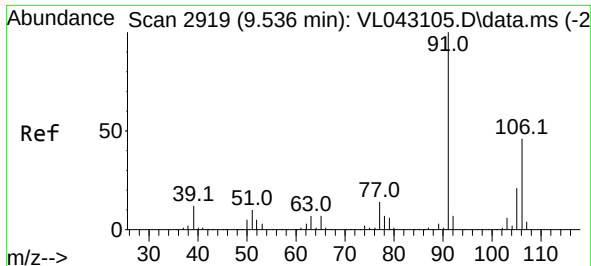
Tgt Ion:112 Resp: 3177  
Ion Ratio Lower Upper  
112 100  
77 64.1 53.3 79.9  
114 27.1 29.3 35.8#



#58  
Ethyl Benzene  
Concen: 0.100 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 5210  
Ion Ratio Lower Upper  
91 100  
106 29.0 24.8 37.2





#59

m/p-Xylene

Concen: 0.078 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

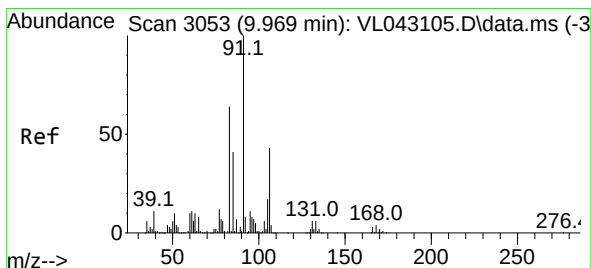
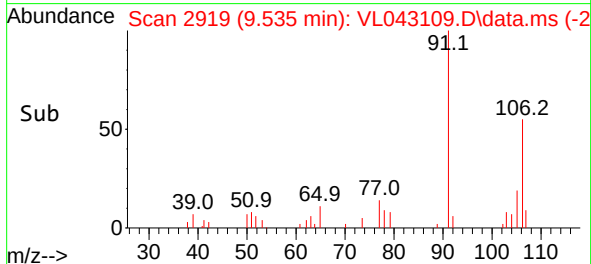
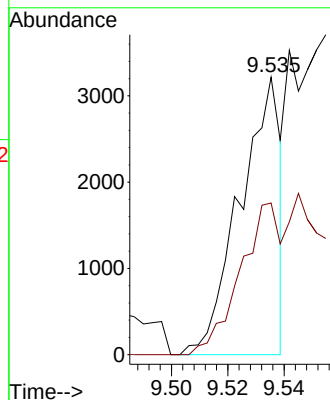
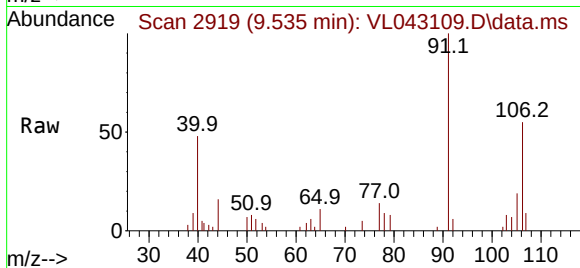
VSTDIC0.1

Tgt Ion: 91 Resp: 3213

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 0.085 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL043109.D

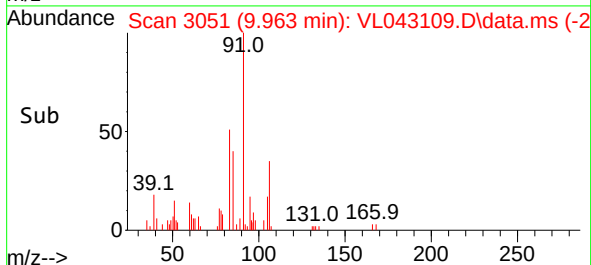
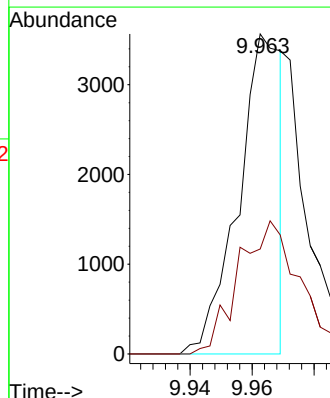
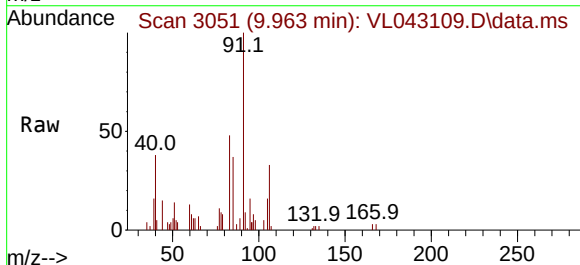
Acq: 14 Oct 2025 13:08

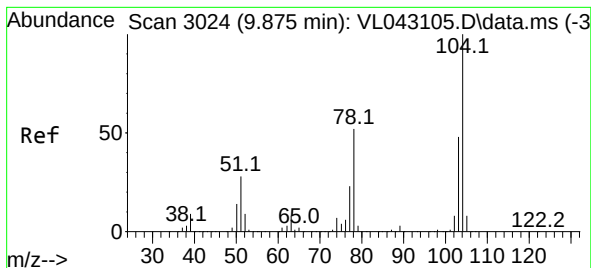
Tgt Ion: 91 Resp: 3450

Ion Ratio Lower Upper

91 100

106 57.9 21.9 65.8





#61

Styrene

Concen: 0.081 ppbv

RT: 9.872 min Scan# 3024

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

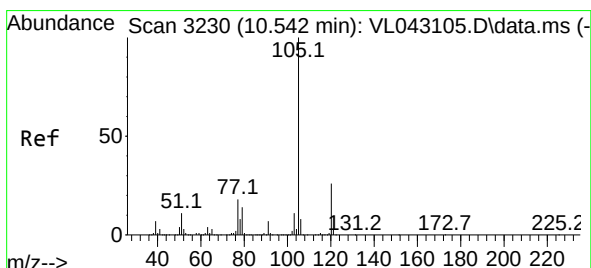
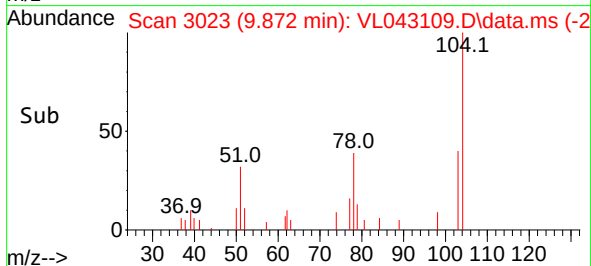
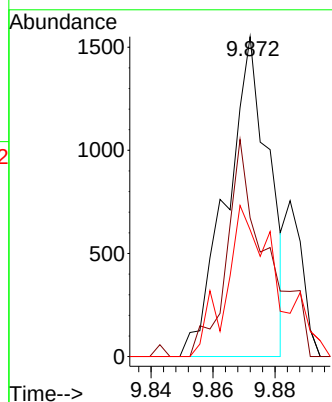
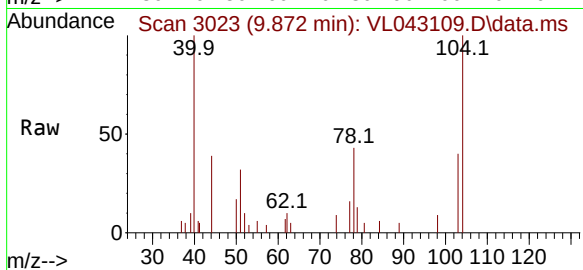
Tgt Ion:104 Resp: 1475

Ion Ratio Lower Upper

104 100

78 64.6 40.2 60.2#

103 56.3 36.9 55.3#



#62

Isopropylbenzene

Concen: 0.111 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. -0.003 min

Lab File: VL043109.D

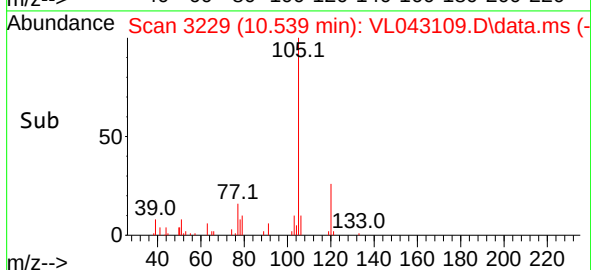
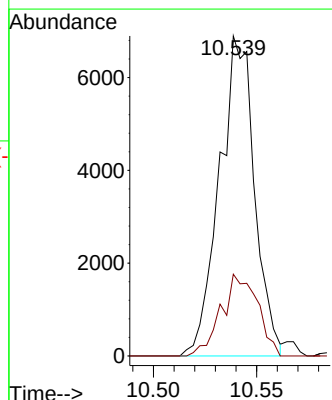
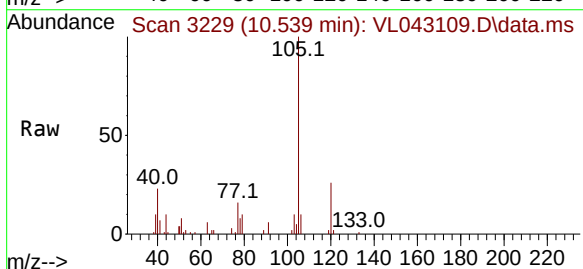
Acq: 14 Oct 2025 13:08

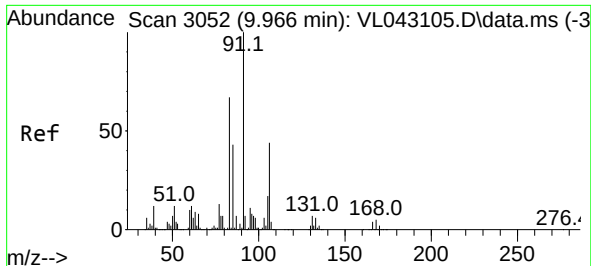
Tgt Ion:105 Resp: 8132

Ion Ratio Lower Upper

105 100

120 26.5 20.2 30.4

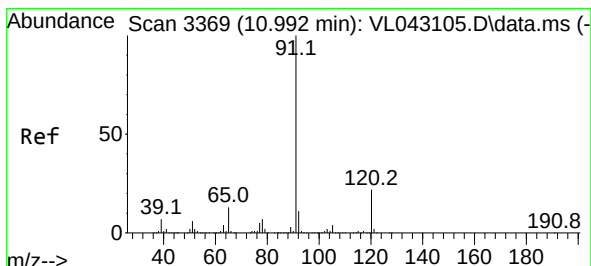
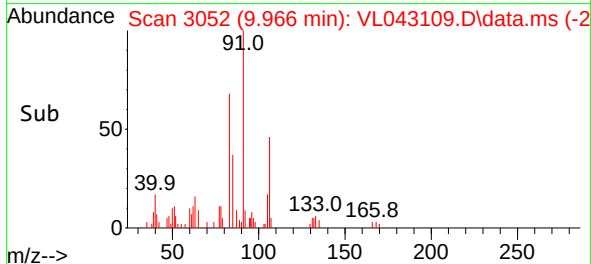
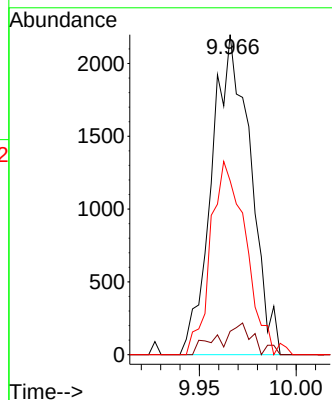
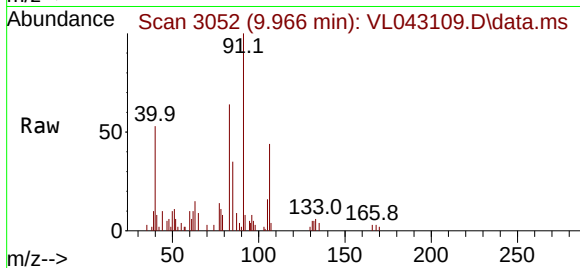




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.113 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

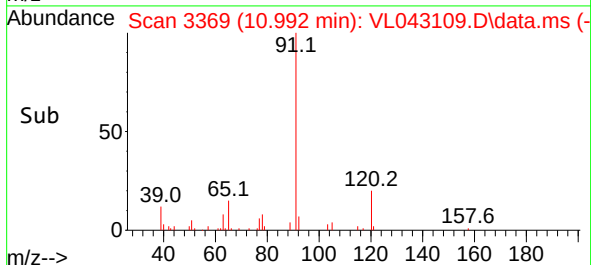
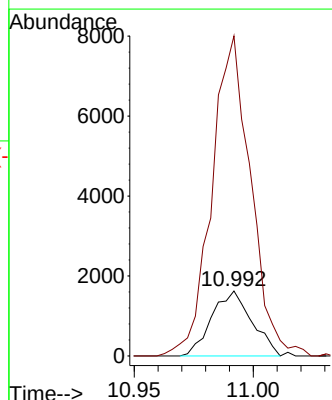
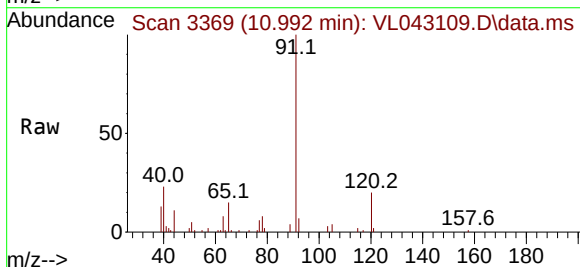
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

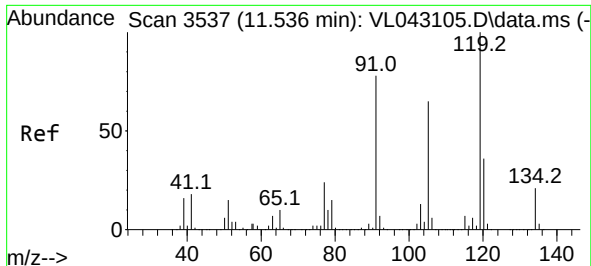
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3053  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 8.9   | 4.8   | 14.3  |
| 85       | 55.2  | 32.0  | 96.0  |



#64  
n-propylbenzene  
Concen: 0.098 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 120   | Resp: | 1906  |
| Ion      | Ratio | Lower | Upper |
| 120      | 100   |       |       |
| 91       | 484.6 | 361.6 | 542.4 |

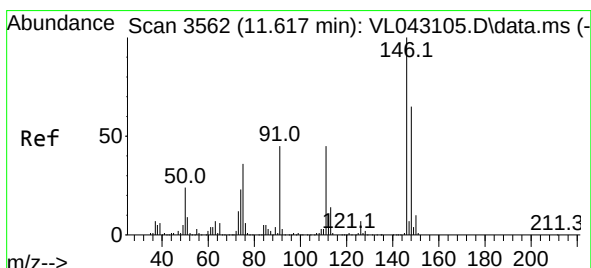
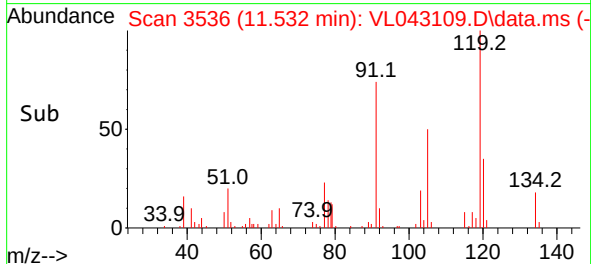
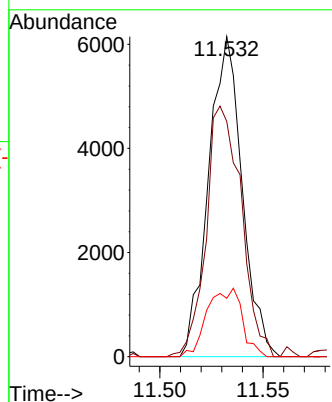
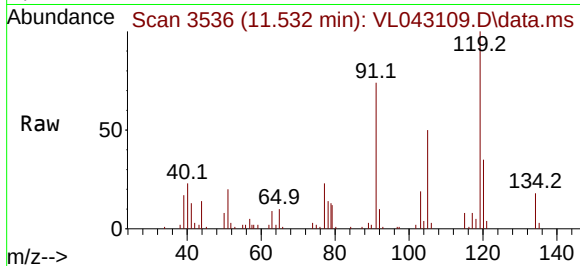




#65  
tert-Butylbenzene  
Concen: 0.108 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

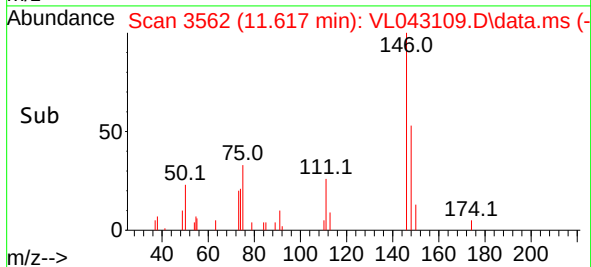
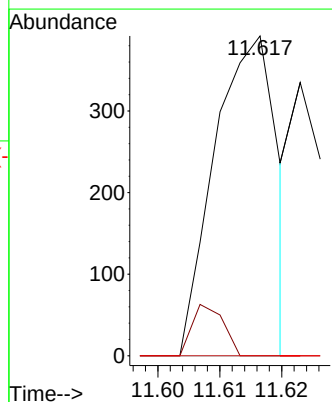
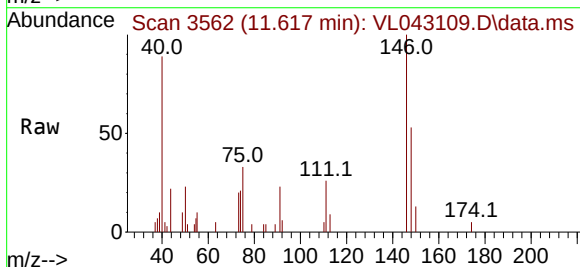
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 119 Resp: 6951  
Ion Ratio Lower Upper  
119 100  
91 82.7 63.4 95.0  
134 22.2 17.3 25.9

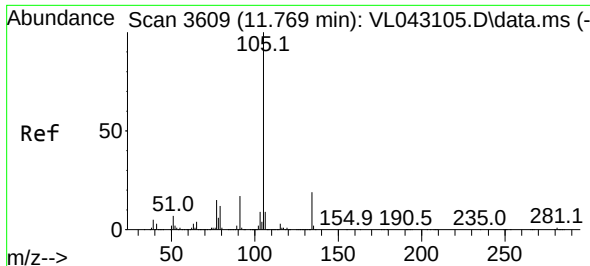


#66  
Benzyl Chloride  
Concen: 0.038 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 91 Resp: 277  
Ion Ratio Lower Upper  
91 100  
126 7.9 14.6 22.0#  
128 0.0 4.6 6.8#



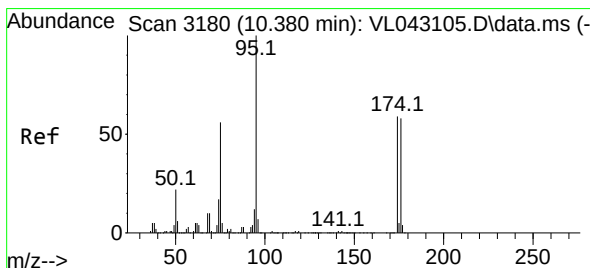
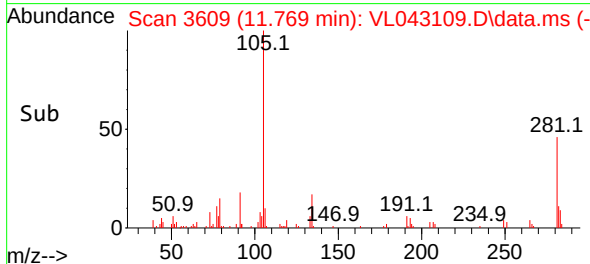
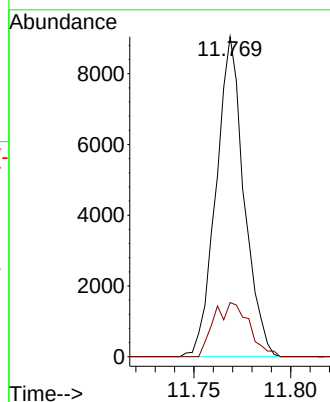
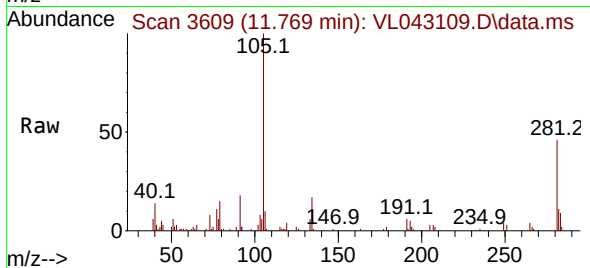




#67  
 sec-Butylbenzene  
 Concen: 0.099 ppbv  
 RT: 11.769 min Scan# 3179  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

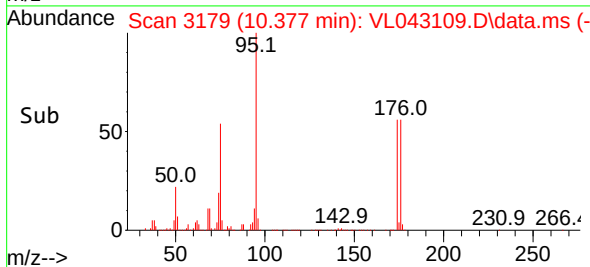
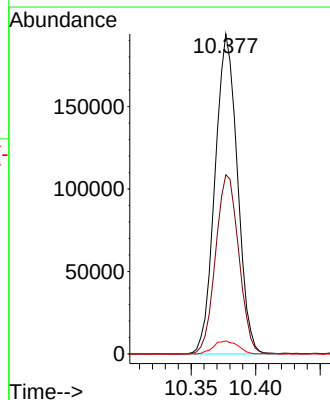
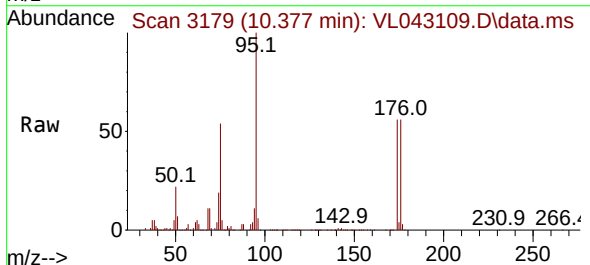
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

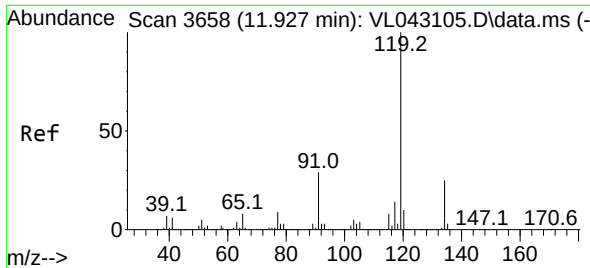
Tgt Ion:105 Resp: 9081  
 Ion Ratio Lower Upper  
 105 100  
 134 21.4 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.032 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.003 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

Tgt Ion: 95 Resp: 233673  
 Ion Ratio Lower Upper  
 95 100  
 174 58.0 48.3 72.5  
 175 4.5 3.8 5.8

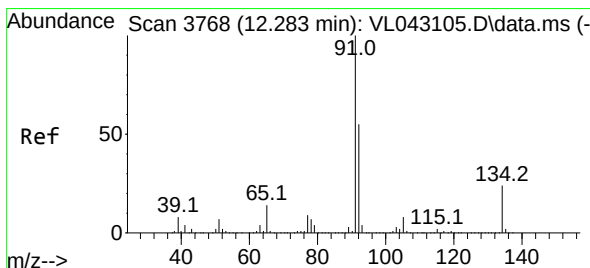
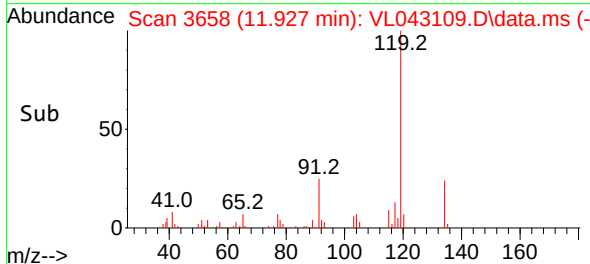
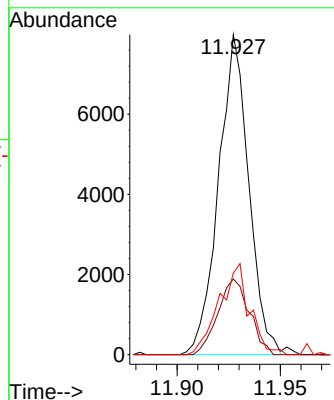
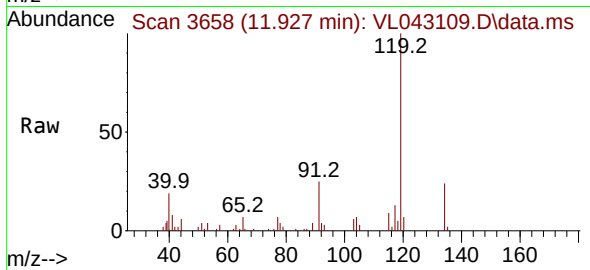




#69  
 p-Isopropyltoluene  
 Concen: 0.104 ppbv  
 RT: 11.927 min Scan# 3658  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

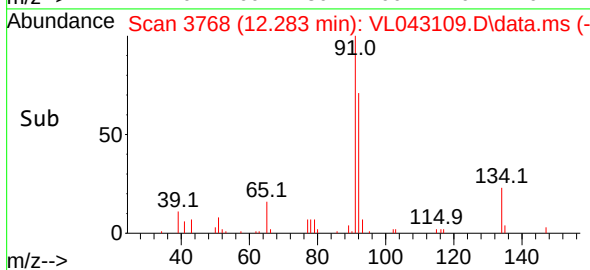
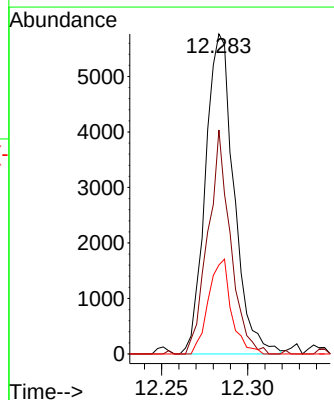
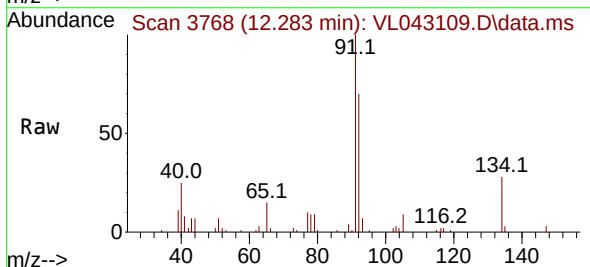
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

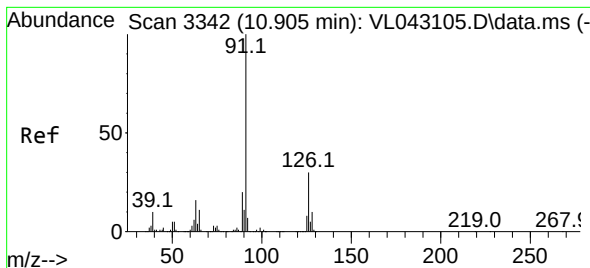
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 8105  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 24.7  | 20.3  | 30.5  |
| 91       | 29.5  | 22.6  | 33.8  |



#70  
 n-Butylbenzene  
 Concen: 0.086 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 6640  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 55.6  | 44.5  | 66.7  |
| 134      | 23.8  | 19.3  | 28.9  |

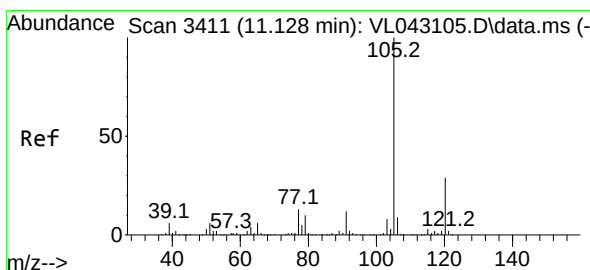
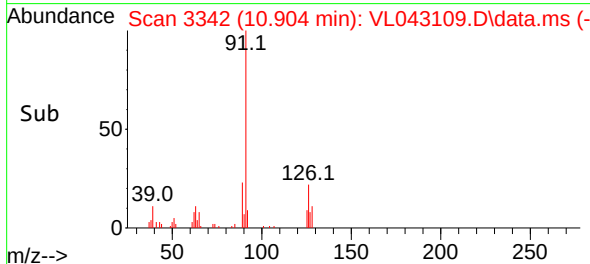
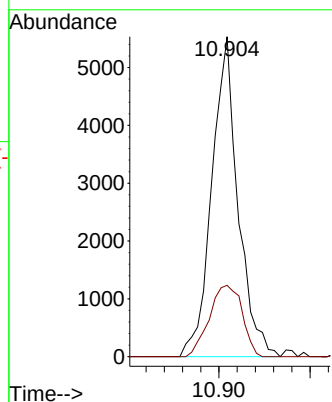
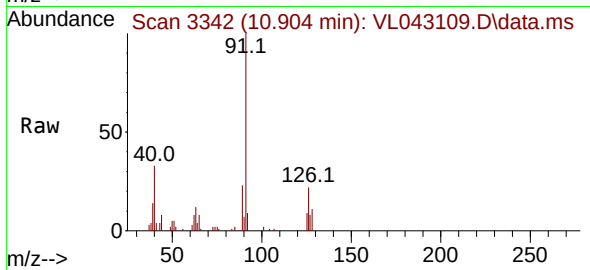




#71  
2-Chlorotoluene  
Concen: 0.099 ppbv  
RT: 10.904 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

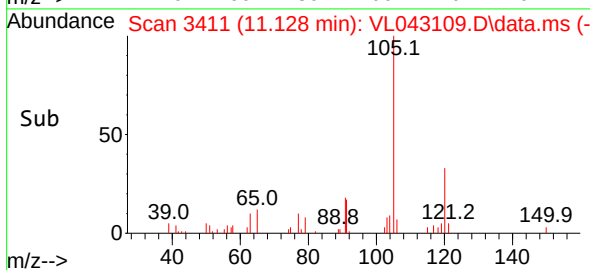
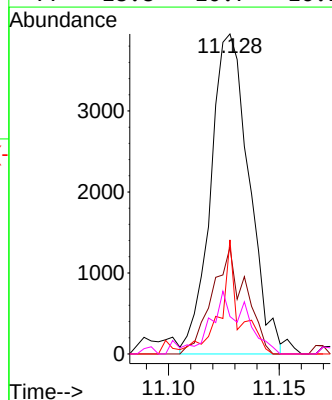
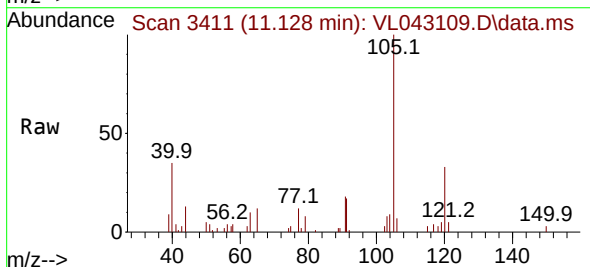
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

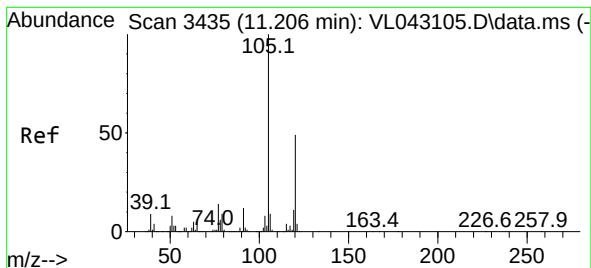
Tgt Ion: 91 Resp: 5527  
Ion Ratio Lower Upper  
91 100  
126 27.9 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 0.095 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion: 105 Resp: 4754  
Ion Ratio Lower Upper  
105 100  
120 29.1 24.2 36.4  
91 18.8 10.0 15.0#  
77 18.8 10.7 16.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.114 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Instrument :

MSVOA\_1

ClientSampleId :

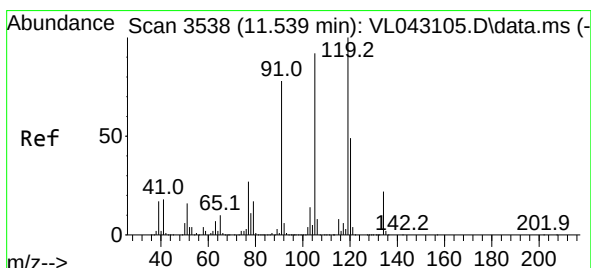
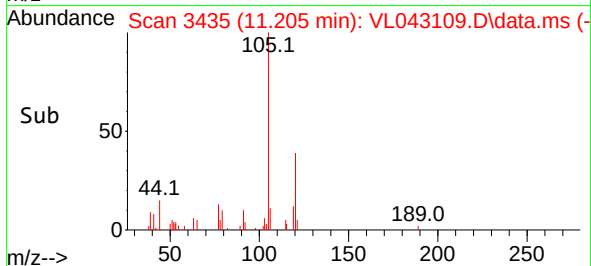
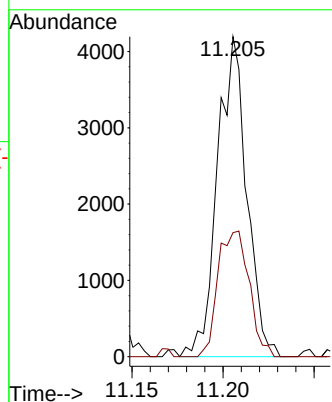
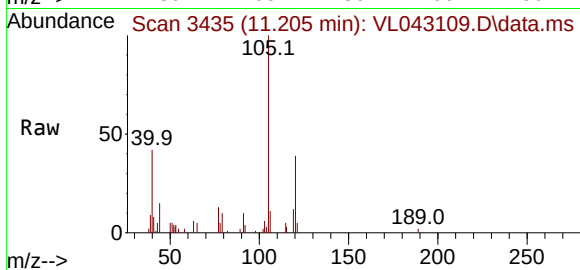
VSTDIC0.1

Tgt Ion:105 Resp: 4680

Ion Ratio Lower Upper

105 100

120 38.7 39.0 58.6#



#74

1,2,4-Trimethylbenzene

Concen: 0.098 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL043109.D

Acq: 14 Oct 2025 13:08

Tgt Ion:105 Resp: 4519

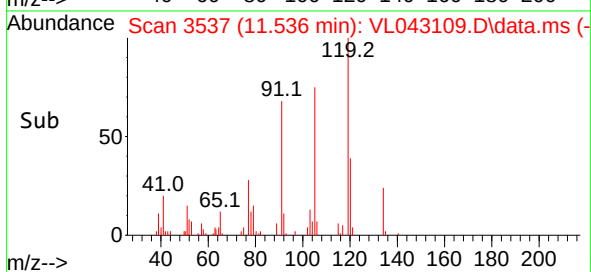
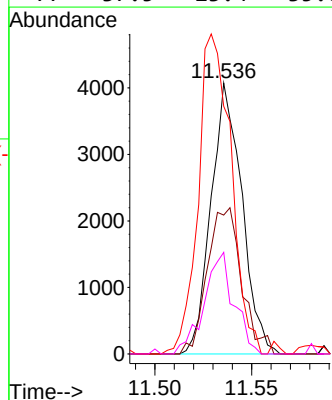
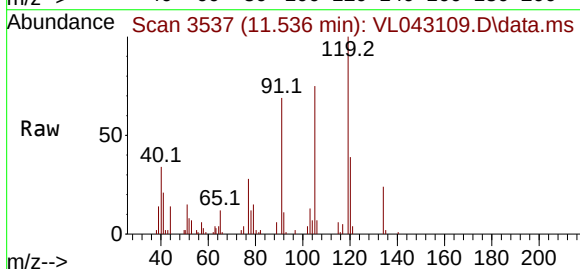
Ion Ratio Lower Upper

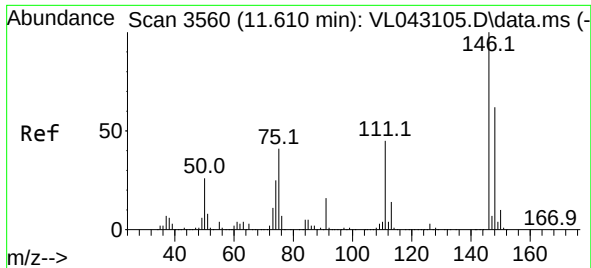
105 100

120 51.3 42.8 64.2

91 89.4 68.3 102.5

77 37.5 23.4 35.0#

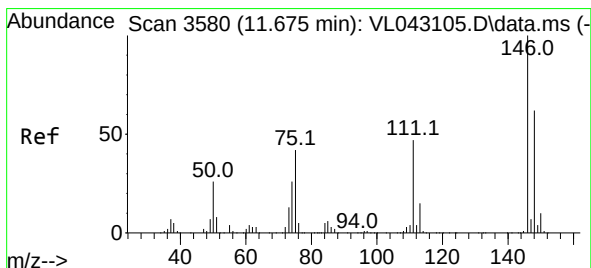
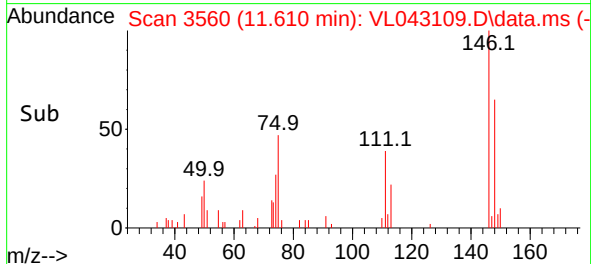
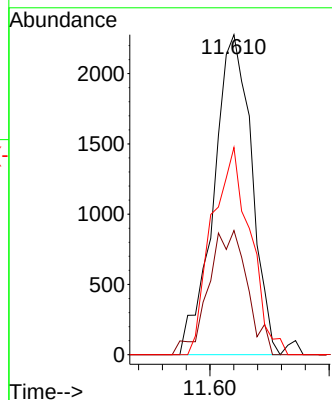
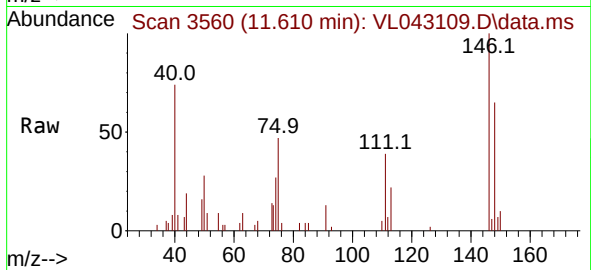




#75  
1,3-Dichlorobenzene  
Concen: 0.094 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

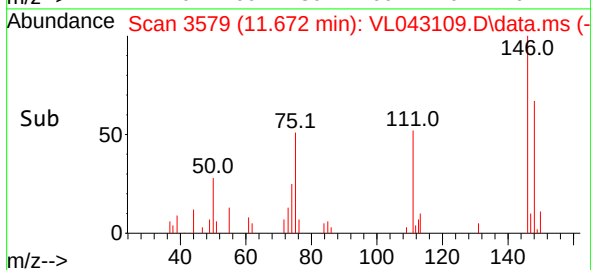
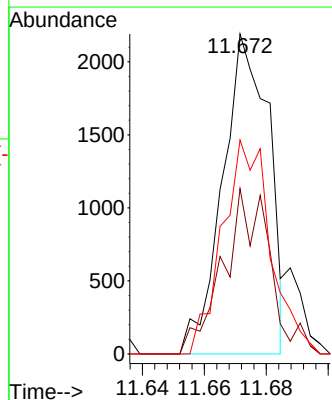
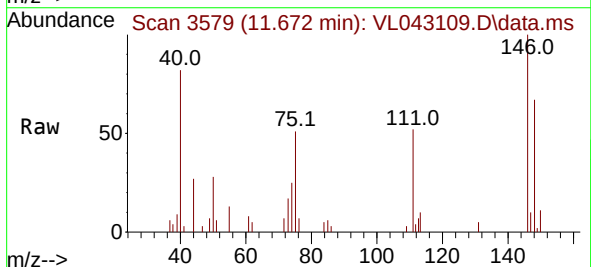
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

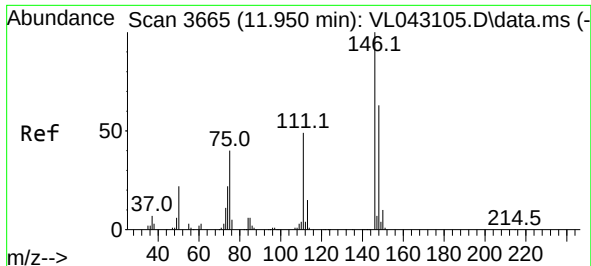
Tgt Ion:146 Resp: 2518  
Ion Ratio Lower Upper  
146 100  
111 39.9 23.3 69.9  
148 66.0 31.6 95.0



#76  
1,4-Dichlorobenzene  
Concen: 0.084 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. -0.003 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

Tgt Ion:146 Resp: 2266  
Ion Ratio Lower Upper  
146 100  
111 52.0 22.4 67.0  
148 69.5 31.6 94.7

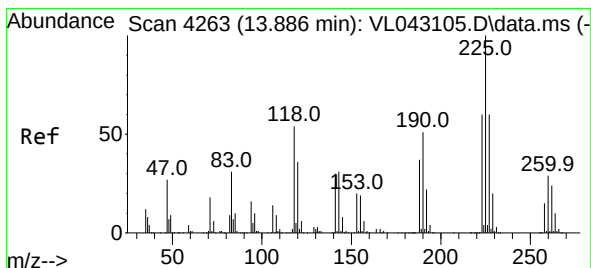
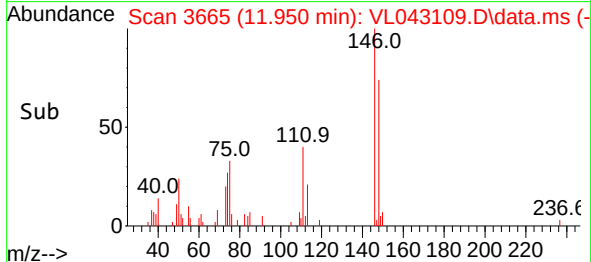
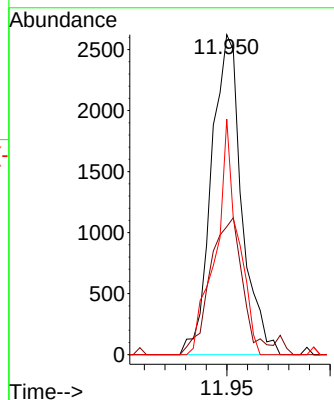
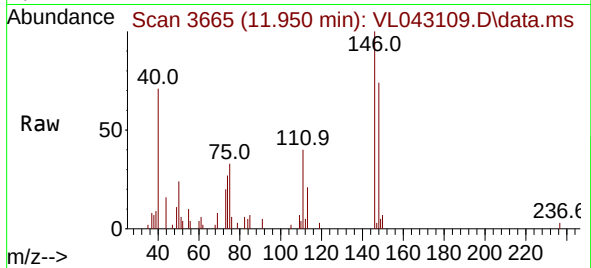




#77  
1,2-Dichlorobenzene  
Concen: 0.104 ppbv  
RT: 11.950 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

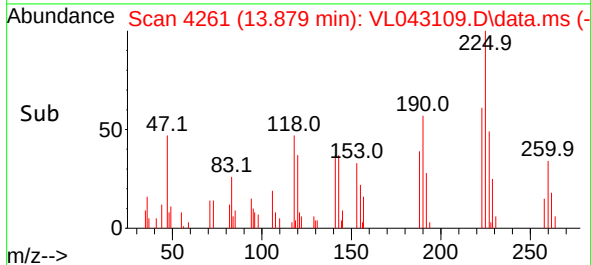
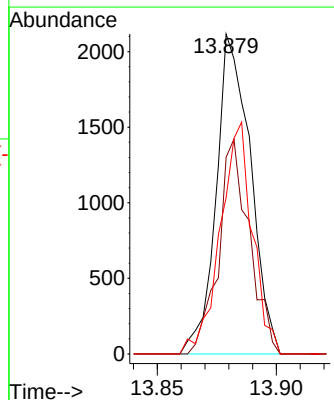
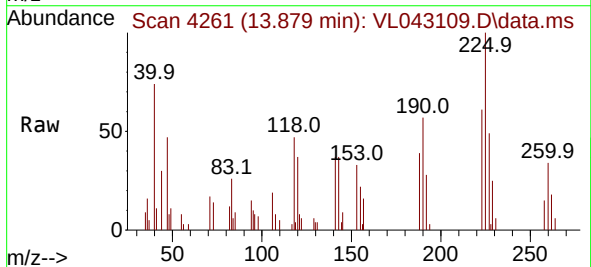
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

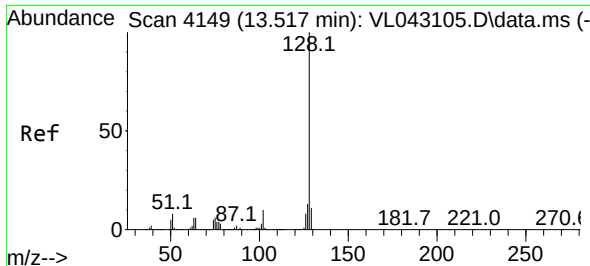
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 2676 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 48.2  | 24.0  | 72.0 |
| 148       | 53.9  | 31.1  | 93.3 |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.105 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.007 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 2107 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 60.6  | 50.2  | 75.4 |
| 227       | 68.2  | 49.6  | 74.4 |

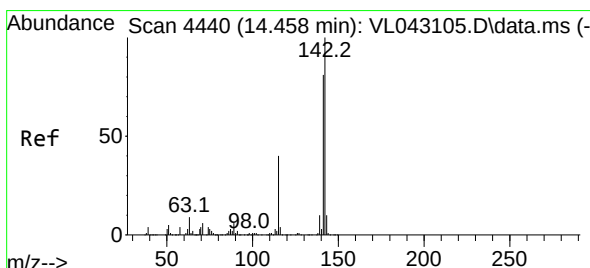
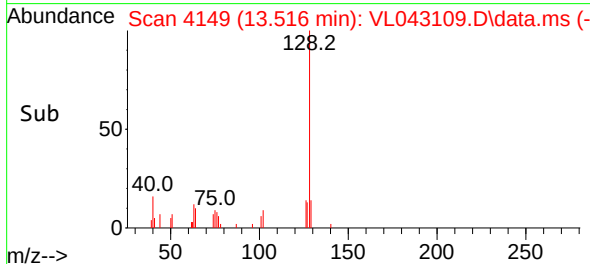
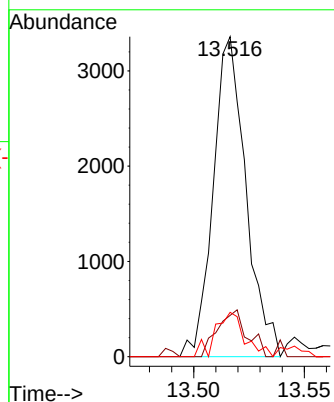
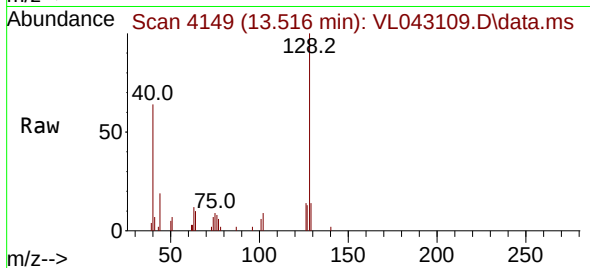




#79  
Naphthalene  
Concen: 0.073 ppbv  
RT: 13.516 min Scan# 4149  
Delta R.T. -0.000 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

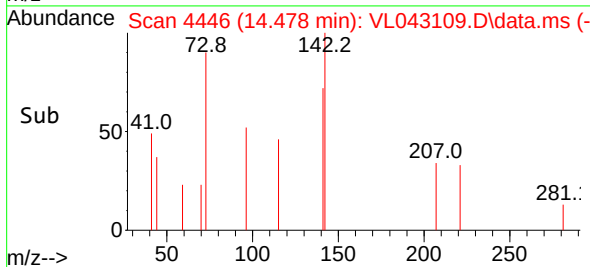
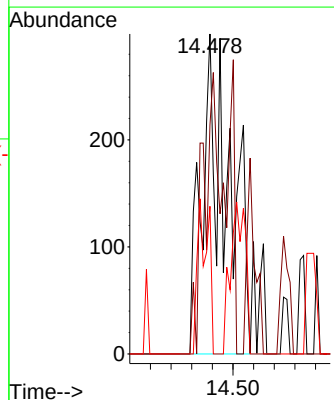
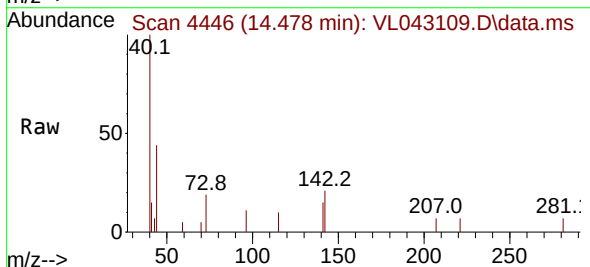
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

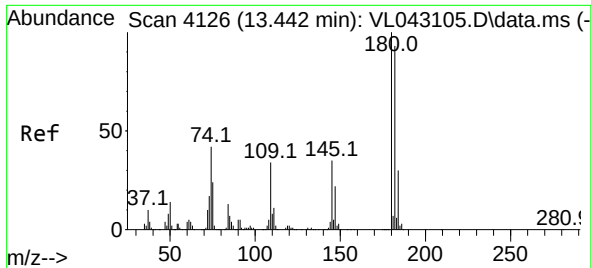
Tgt Ion:128 Resp: 3453  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.5 15.7  
129 13.8 9.1 13.7#



#80  
Naphthalene,2-methyl-  
Concen: 0.046 ppbv  
RT: 14.478 min Scan# 4446  
Delta R.T. 0.019 min  
Lab File: VL043109.D  
Acq: 14 Oct 2025 13:08

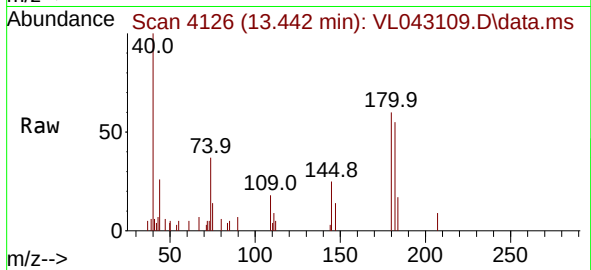
Tgt Ion:142 Resp: 582  
Ion Ratio Lower Upper  
142 100  
141 0.0 64.6 97.0#  
115 18.2 30.2 45.4#



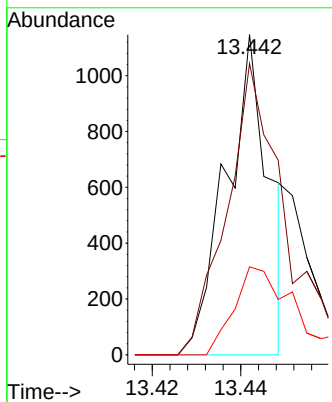
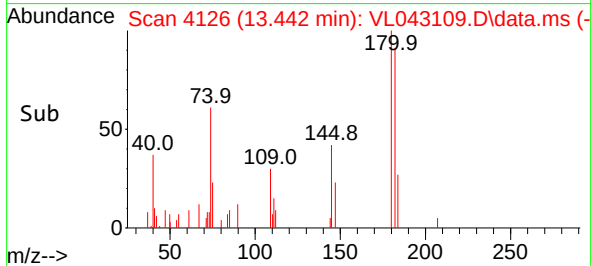


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.039 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL043109.D  
 Acq: 14 Oct 2025 13:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1



Tgt Ion:180 Resp: 774  
 Ion Ratio Lower Upper  
 180 100  
 182 119.1 75.5 113.3#  
 184 37.6 23.9 35.9#





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043110.D  
 Acq On : 14 Oct 2025 13:42  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 100058   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 328897   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 292884   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 224043   | 9.841    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.400% |

#### Target Compounds

|                               |       |     |       |       | Qvalue |     |
|-------------------------------|-------|-----|-------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 546   | 0.038 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 1.480 | 51  | 572   | 0.037 | ppbv # | 35  |
| 4) Chloromethane              | 1.535 | 50  | 354   | 0.063 | ppbv # | 53  |
| 5) Vinyl Chloride             | 1.583 | 62  | 217   | 0.039 | ppbv # | 78  |
| 6) Bromomethane               | 1.670 | 94  | 110   | 0.036 | ppbv # | 56  |
| 7) Chloroethane               | 1.706 | 64  | 136   | 0.060 | ppbv # | 42  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 358   | 0.031 | ppbv # | 75  |
| 9) Propene                    | 1.486 | 41  | 524   | 0.077 | ppbv # | 1   |
| 10) Heptane                   | 4.988 | 43  | 203   | 0.010 | ppbv # | 27  |
| 11) Trichlorofluoromethane    | 2.137 | 101 | 209   | 0.015 | ppbv   | 85  |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 220   | 0.020 | ppbv # | 13  |
| 13) Ethanol                   | 1.793 | 45  | 201   | 0.080 | ppbv # | 1   |
| 14) Bromoethene               | 1.781 | 108 | 202   | 0.049 | ppbv # | 22  |
| 15) Acetone                   | 1.839 | 43  | 1339  | 0.099 | ppbv # | 56  |
| 16) 1,3-Butadiene             | 1.612 | 39  | 710   | 0.110 | ppbv   | 88  |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 599   | 0.032 | ppbv # | 1   |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 232   | 0.048 | ppbv   | 88  |
| 19) Isopropyl Alcohol         | 1.891 | 45  | 263   | 0.031 | ppbv   | 95  |
| 20) Methylene Chloride        | 2.062 | 84  | 1624  | 0.305 | ppbv # | 83  |
| 21) Allyl Chloride            | 2.094 | 41  | 645   | 0.065 | ppbv # | 1   |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 240   | 0.041 | ppbv   | 87  |
| 23) Vinyl Acetate             | 2.470 | 43  | 699   | 0.035 | ppbv # | 44  |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 383   | 0.034 | ppbv # | 87  |
| 25) Ethyl Acetate             | 2.845 | 43  | 998   | 0.030 | ppbv # | 85  |
| 26) Hexane                    | 2.823 | 57  | 740   | 0.048 | ppbv # | 81  |
| 27) Carbon Disulfide          | 2.149 | 76  | 215   | 0.015 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 309   | 0.044 | ppbv # | 1   |
| 29) Chloroform                | 2.849 | 83  | 839   | 0.038 | ppbv # | 67  |
| 30) Cyclohexane               | 3.865 | 84  | 276   | 0.021 | ppbv # | 1   |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 467   | 0.032 | ppbv # | 73  |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 336   | 0.014 | ppbv # | 1   |
| 34) 2-Butanone                | 2.564 | 43  | 909   | 0.041 | ppbv # | 89  |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 216   | 0.009 | ppbv # | 73  |
| 36) Benzene                   | 3.658 | 78  | 246   | 0.008 | ppbv # | 1   |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 772   | 0.043 | ppbv # | 87  |
| 38) Trichloroethene           | 4.551 | 130 | 216   | 0.017 | ppbv # | 77  |
| 39) 1,2-Dichloropropane       | 3.959 | 63  | 79938 | 7.052 | ppbv # | 25  |
| 40) 1,4-Dioxane               | 4.609 | 88  | 33    | 0.007 | ppbv # | 1   |
| 41) Tetrahydrofuran           | 3.049 | 42  | 87    | 0.007 | ppbv # | 37  |
| 42) Bromodichloromethane      | 4.496 | 83  | 250   | 0.010 | ppbv # | 26  |
| 43) Methyl Methacrylate       | 4.875 | 69  | 36    | 0.002 | ppbv # | 1   |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 669   | 0.013 | ppbv # | 1   |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 165   | 0.010 | ppbv # | 87  |

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 Data File : VL043110.D  
 Acq On : 14 Oct 2025 13:42  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

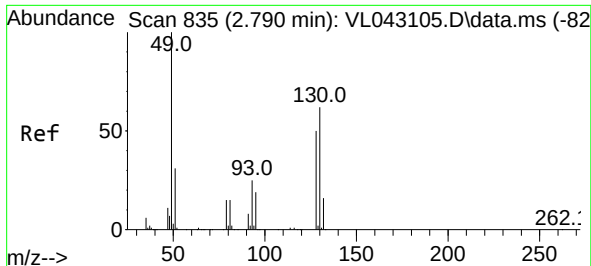
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 261      | 0.014 | ppbv # | 80       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 98       | 0.008 | ppbv # | 42       |
| 48) Dibromochloromethane      | 7.390  | 129  | 186      | 0.009 | ppbv # | 1        |
| 49) Bromoform                 | 9.480  | 173  | 323      | 0.019 | ppbv # | 56       |
| 50) 4-Methyl-2-Pentanone      | 5.762  | 43   | 271      | 0.009 | ppbv # | 38       |
| 51) 2-Hexanone                | 7.438  | 43   | 98       | 0.004 | ppbv # | 27       |
| 52) Tetrachloroethene         | 8.218  | 164  | 120      | 0.011 | ppbv # | 67       |
| 53) Toluene                   | 6.936  | 91   | 632      | 0.017 | ppbv # | 20       |
| 54) 1,2-Dibromoethane         | 7.649  | 107  | 308      | 0.016 | ppbv   | 86       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 441      | 0.024 | ppbv # | 14       |
| 57) Chlorobenzene             | 8.921  | 112  | 764      | 0.028 | ppbv # | 63       |
| 58) Ethyl Benzene             | 9.357  | 91   | 1218     | 0.024 | ppbv # | 83       |
| 59) m/p-Xylene                | 9.529  | 91   | 759      | 0.019 | ppbv # | 29       |
| 60) o-Xylene                  | 9.966  | 91   | 693      | 0.018 | ppbv # | 32       |
| 61) Styrene                   | 9.875  | 104  | 538      | 0.030 | ppbv # | 88       |
| 62) Isopropylbenzene          | 10.539 | 105  | 1735     | 0.024 | ppbv   | 90       |
| 63) 1,1,2,2-Tetrachloroethane | 9.960  | 83   | 369      | 0.014 | ppbv # | 1        |
| 64) n-propylbenzene           | 10.995 | 120  | 616      | 0.033 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 2219     | 0.035 | ppbv   | 95       |
| 66) Benzyl Chloride           | 11.620 | 91   | 98       | 0.014 | ppbv # | 65       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 3170     | 0.035 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 2370     | 0.031 | ppbv # | 90       |
| 70) n-Butylbenzene            | 12.290 | 91   | 1534     | 0.020 | ppbv # | 92       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 1757     | 0.032 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 1502     | 0.031 | ppbv # | 90       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 1005     | 0.025 | ppbv # | 83       |
| 74) 1,2,4-Trimethylbenzene    | 11.533 | 105  | 806      | 0.018 | ppbv   | 89       |
| 75) 1,3-Dichlorobenzene       | 11.600 | 146  | 251      | 0.010 | ppbv # | 1        |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 504      | 0.019 | ppbv # | 24       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 709      | 0.028 | ppbv   | 79       |
| 78) Hexachloro-1,3-Butadiene  | 13.876 | 225  | 239      | 0.012 | ppbv # | 19       |
| 79) Naphthalene               | 13.520 | 128  | 851      | 0.018 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 15       | 0.001 | ppbv # | 1        |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 219      | 0.011 | ppbv # | 79       |

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

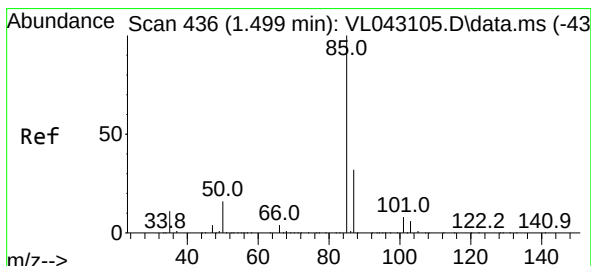
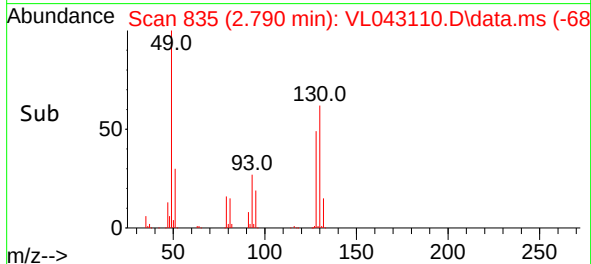
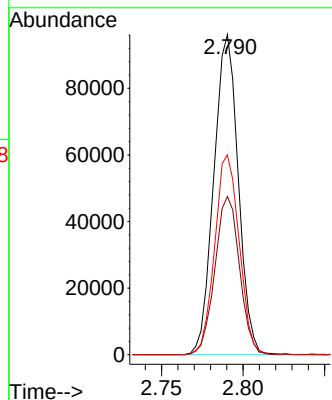
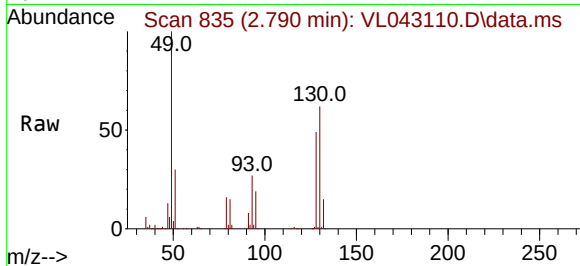




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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

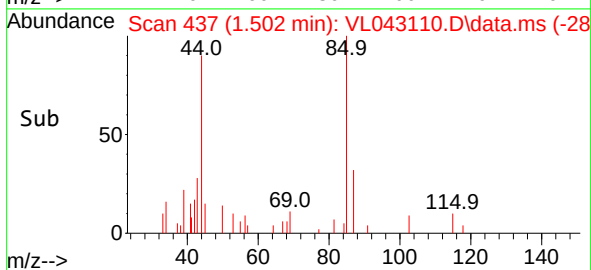
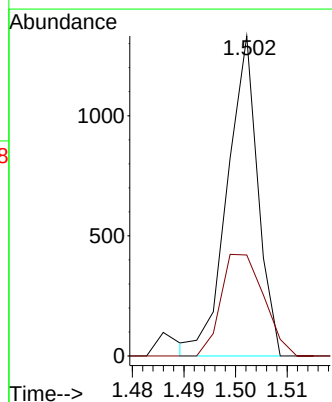
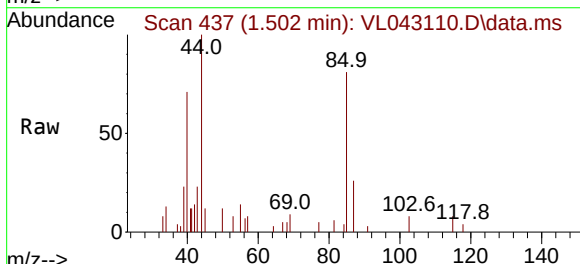
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MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

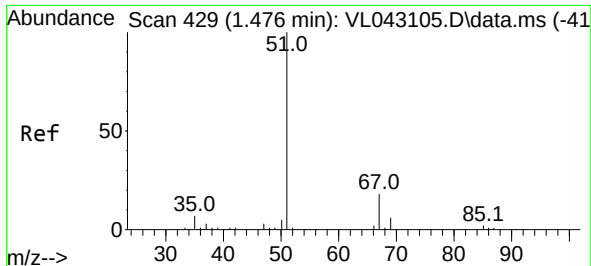
Tgt Ion: 49 Resp: 100058  
Ion Ratio Lower Upper  
49 100  
128 49.9 24.4 73.4  
130 62.5 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.038 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 546  
Ion Ratio Lower Upper  
85 100  
87 31.5 25.3 37.9

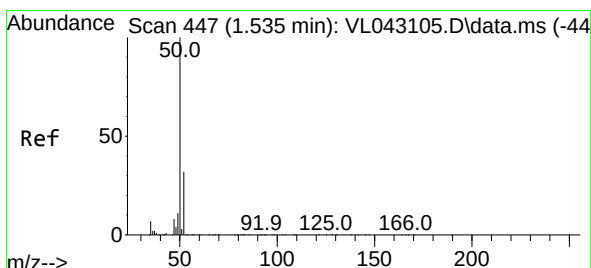
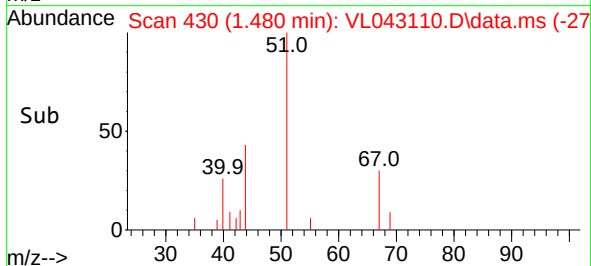
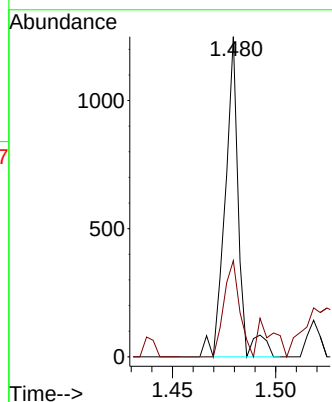
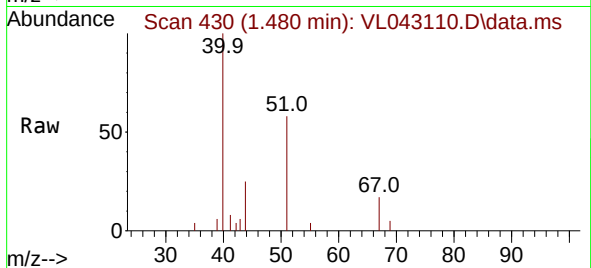




#3  
Chlorodifluoromethane  
Concen: 0.037 ppbv  
RT: 1.480 min Scan# 411  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

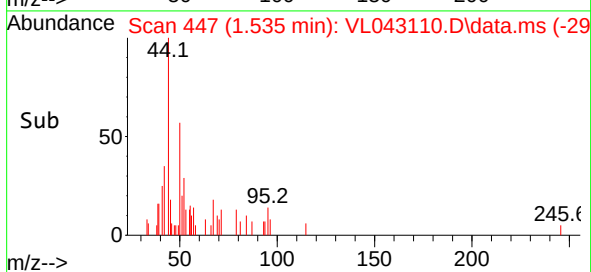
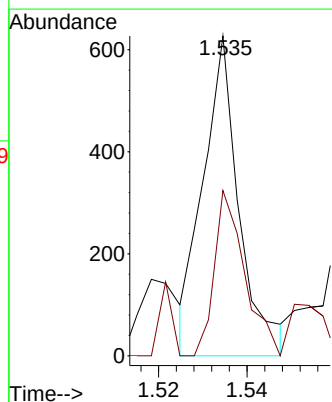
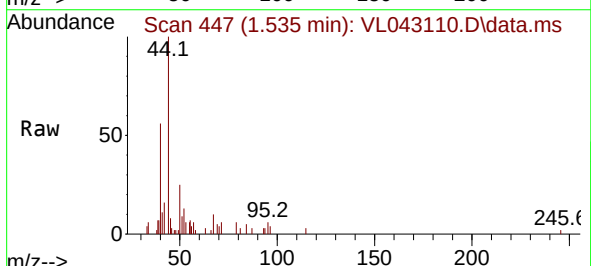
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

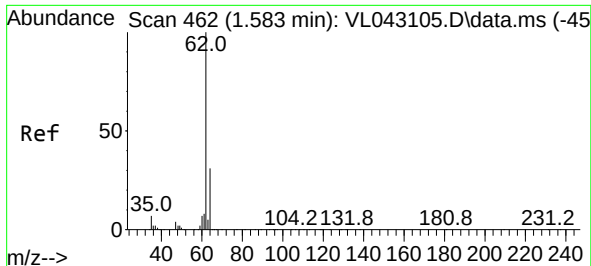
Tgt Ion: 51 Resp: 572  
Ion Ratio Lower Upper  
51 100  
67 48.1 15.1 22.7#



#4  
Chloromethane  
Concen: 0.063 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 50 Resp: 354  
Ion Ratio Lower Upper  
50 100  
52 57.3 25.2 37.8#

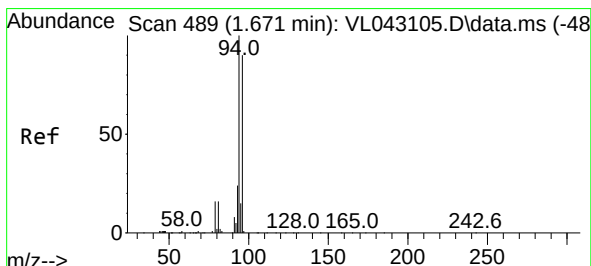
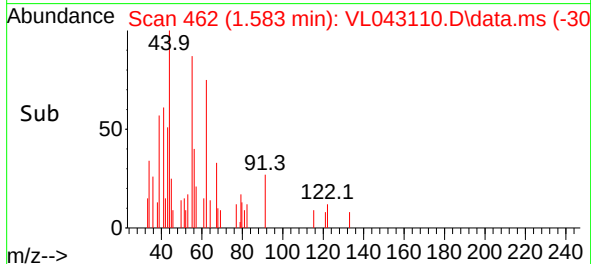
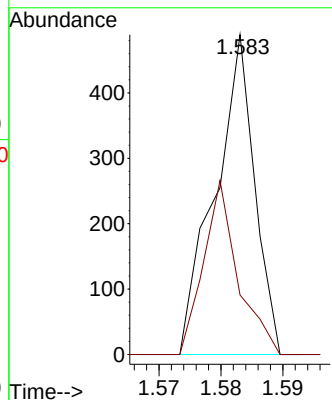
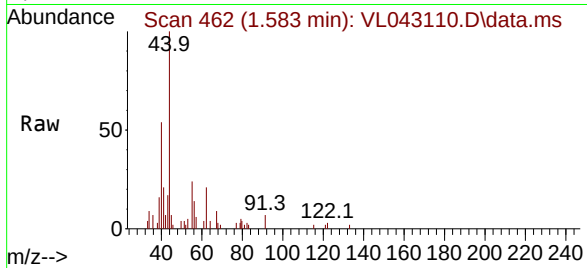




#5  
 Vinyl Chloride  
 Concen: 0.039 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

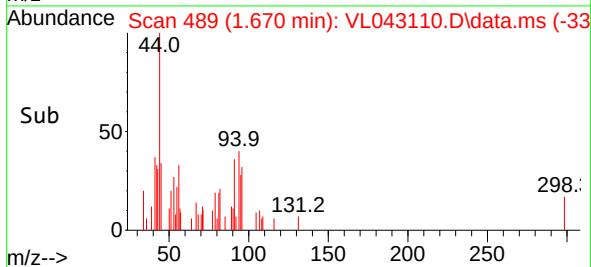
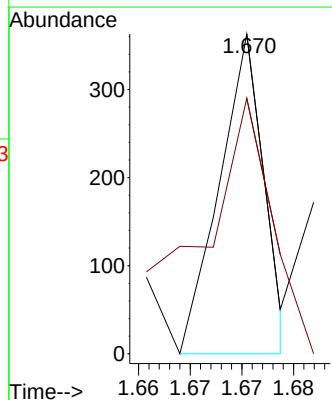
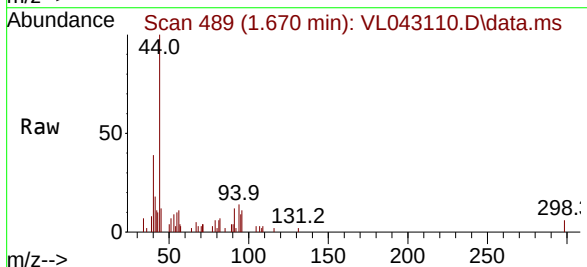
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 ClientSampleId :  
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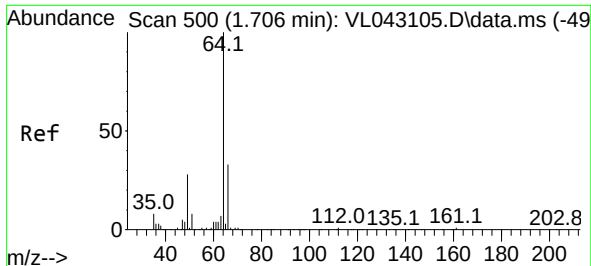
Tgt Ion: 62 Resp: 217  
 Ion Ratio Lower Upper  
 62 100  
 64 18.6 24.6 36.8#



#6  
 Bromomethane  
 Concen: 0.036 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

Tgt Ion: 94 Resp: 110  
 Ion Ratio Lower Upper  
 94 100  
 96 48.8 72.2 108.4#

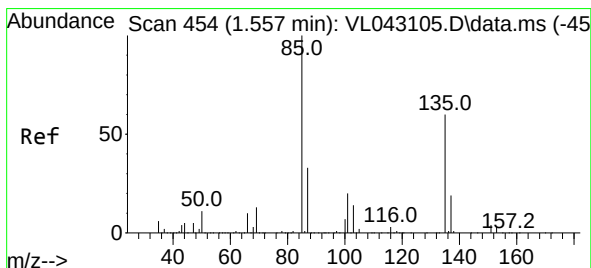
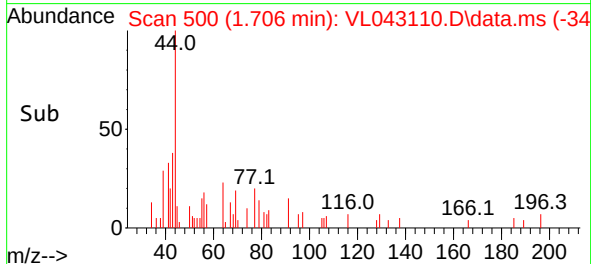
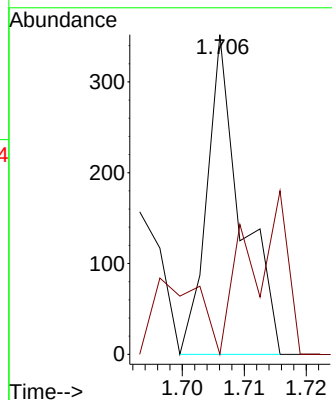
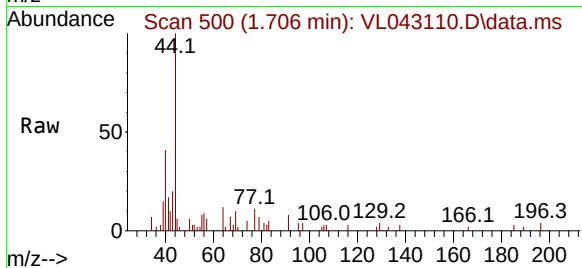




#7  
Chloroethane  
Concen: 0.060 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

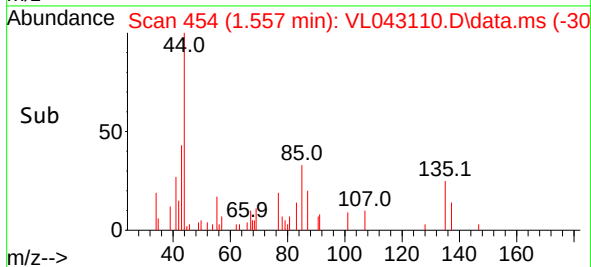
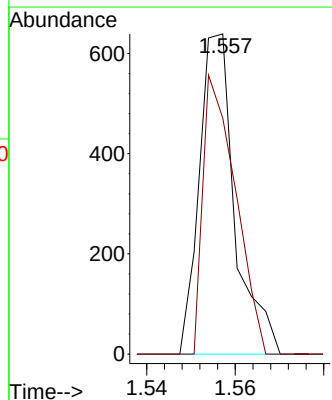
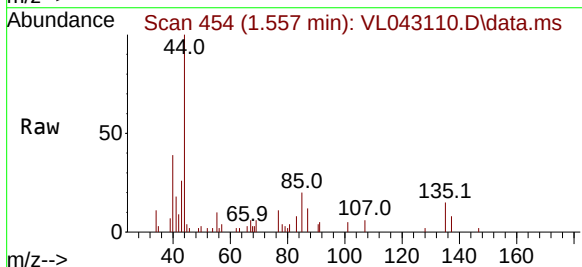
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

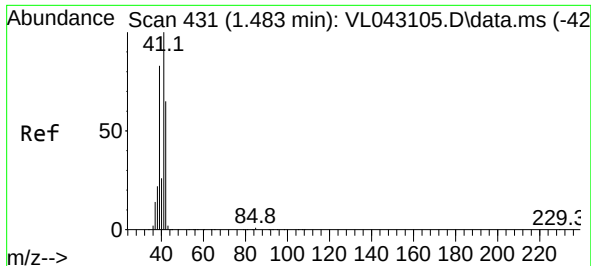
Tgt Ion: 64 Resp: 136  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.0 39.0#



#8  
Dichlorotetrafluoroethane  
Concen: 0.031 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 85 Resp: 358  
Ion Ratio Lower Upper  
85 100  
135 79.6 48.2 72.4#





#9

Propene

Concen: 0.077 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_1

ClientSampleId :

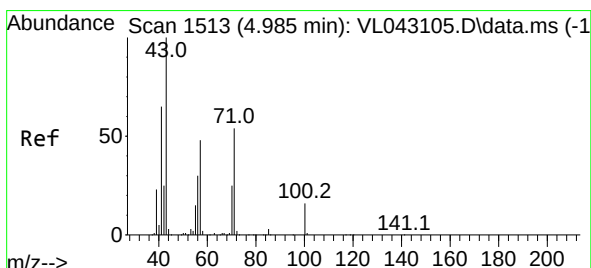
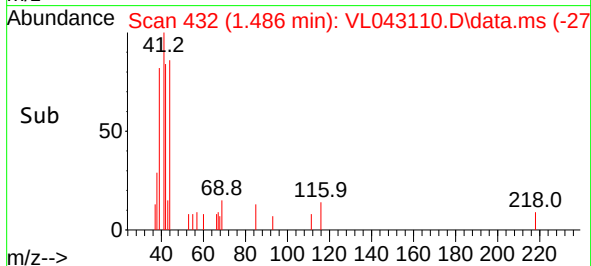
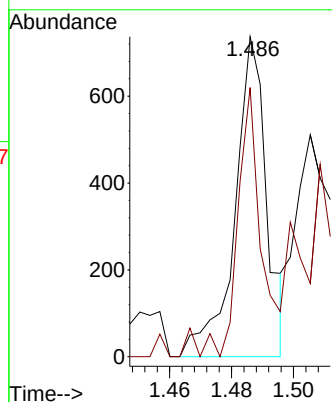
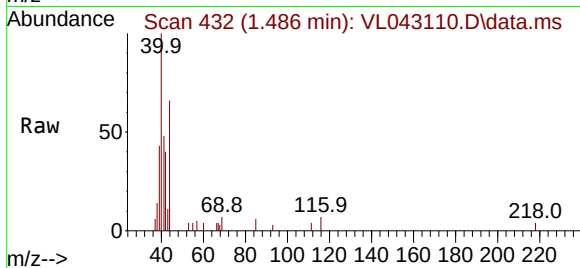
VSTDIC0.03

Tgt Ion: 41 Resp: 524

Ion Ratio Lower Upper

41 100

42 154.8 55.1 82.7#



#10

Heptane

Concen: 0.010 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.003 min

Lab File: VL043110.D

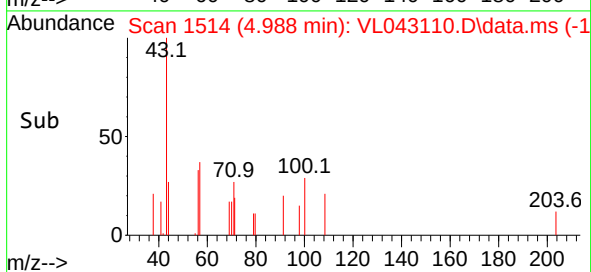
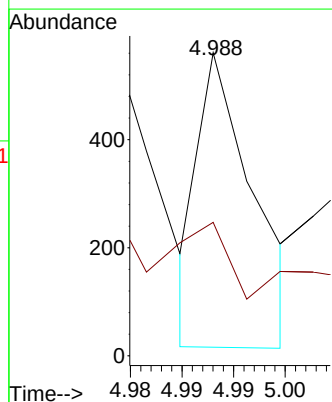
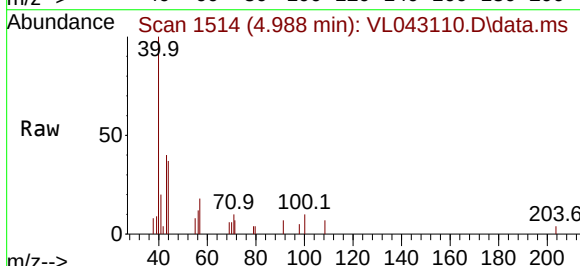
Acq: 14 Oct 2025 13:42

Tgt Ion: 43 Resp: 203

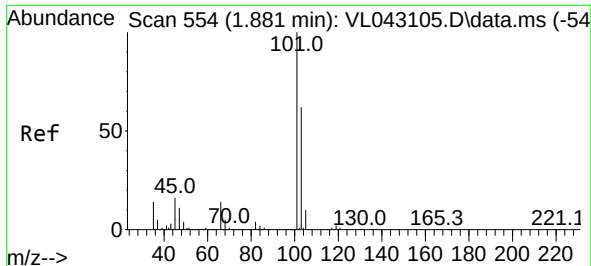
Ion Ratio Lower Upper

43 100

57 0.0 40.8 61.2#



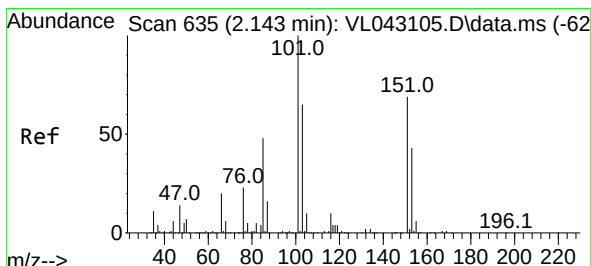
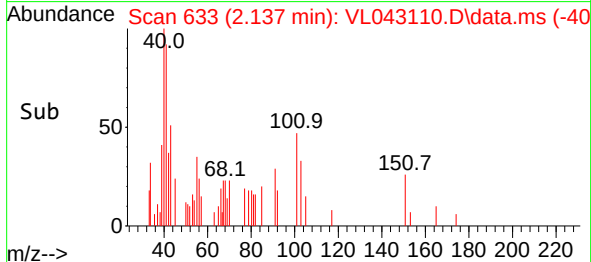
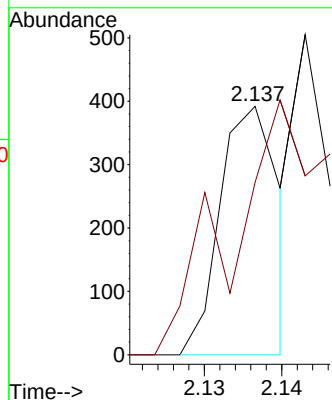
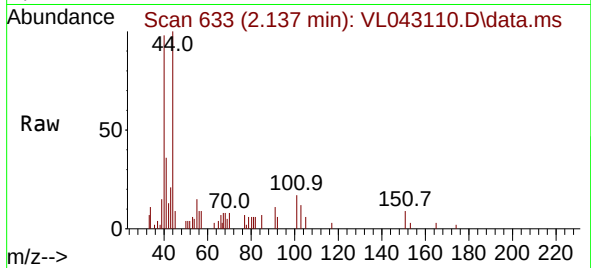




#11  
Trichlorofluoromethane  
Concen: 0.015 ppbv  
RT: 2.137 min Scan# 611  
Delta R.T. 0.256 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

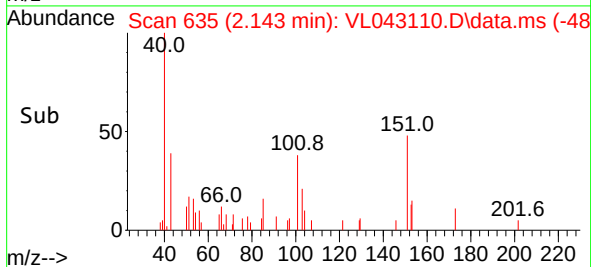
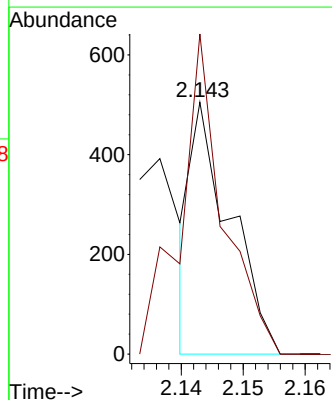
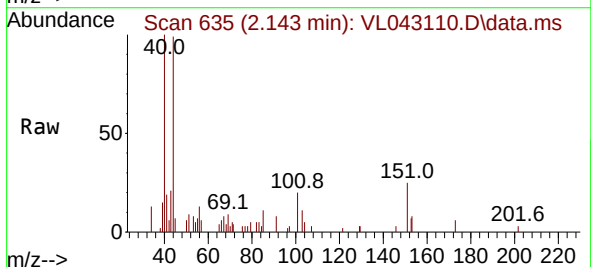
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

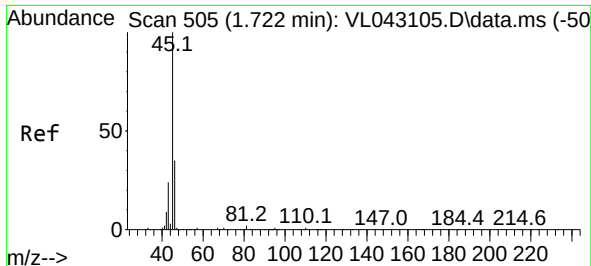
Tgt Ion:101 Resp: 209  
Ion Ratio Lower Upper  
101 100  
103 49.7 49.3 73.9



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.020 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion:101 Resp: 220  
Ion Ratio Lower Upper  
101 100  
151 139.1 54.7 82.1#

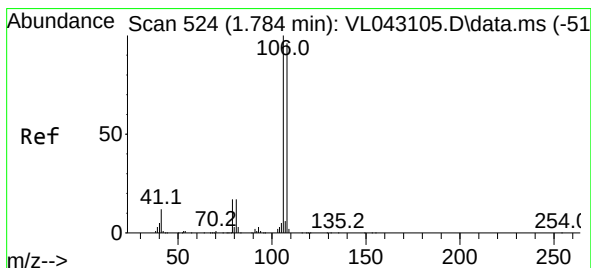
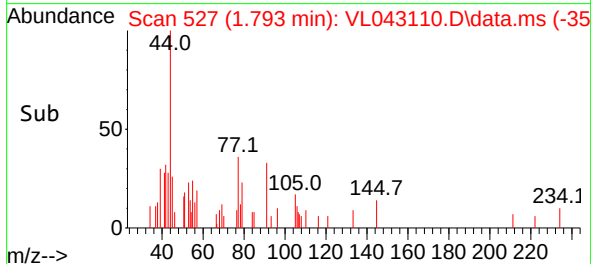
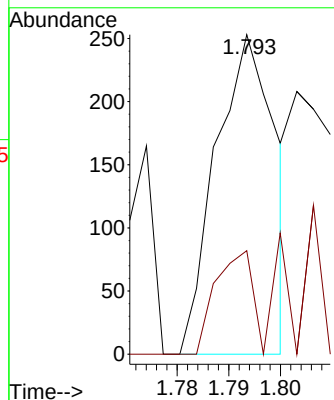
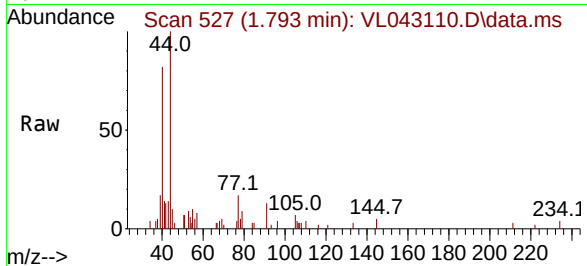




#13  
Ethanol  
Concen: 0.080 ppbv  
RT: 1.793 min Scan# 51  
Delta R.T. 0.071 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

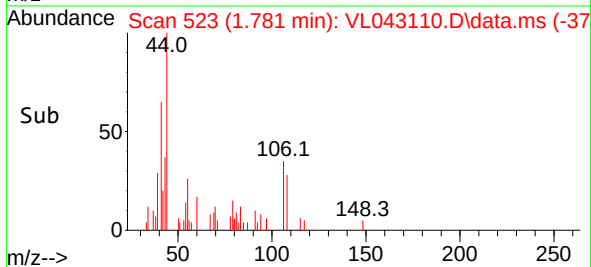
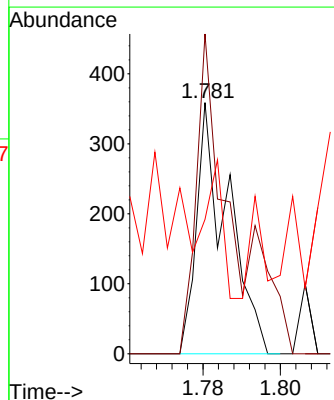
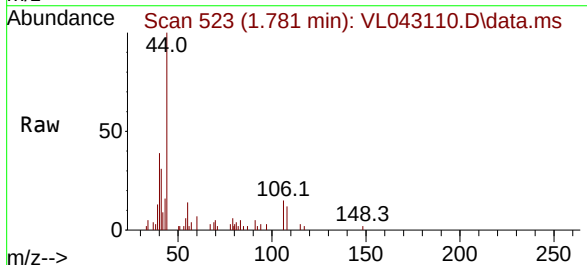
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

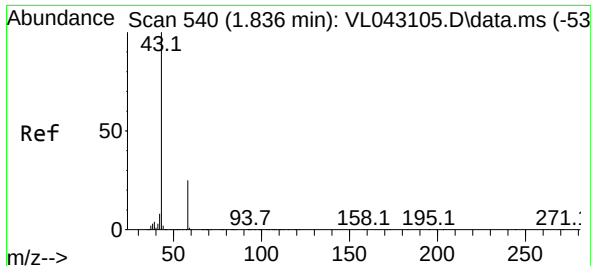
Tgt Ion: 45 Resp: 201  
Ion Ratio Lower Upper  
45 100  
46 146.3 14.7 58.9#



#14  
Bromoethene  
Concen: 0.049 ppbv  
RT: 1.781 min Scan# 523  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 108 Resp: 202  
Ion Ratio Lower Upper  
108 100  
106 144.6 84.4 126.6#  
79 154.0 15.3 22.9#

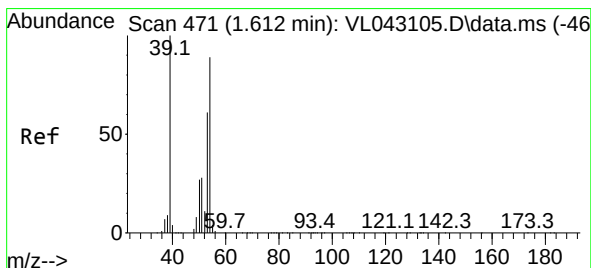
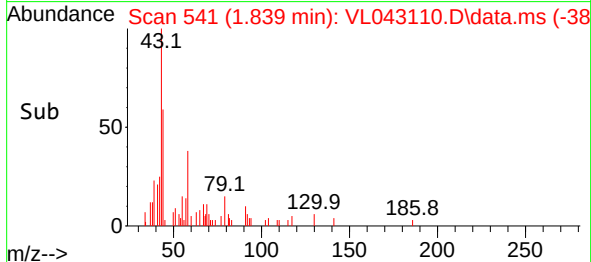
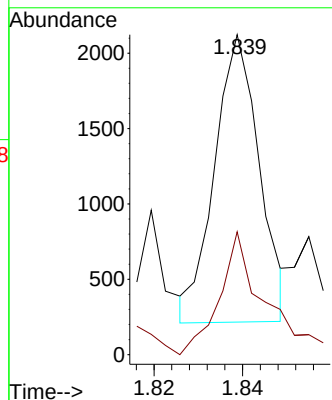
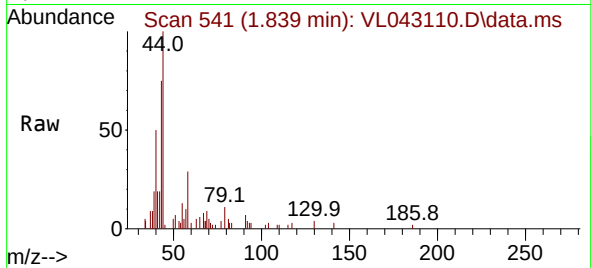




#15  
Acetone  
Concen: 0.099 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

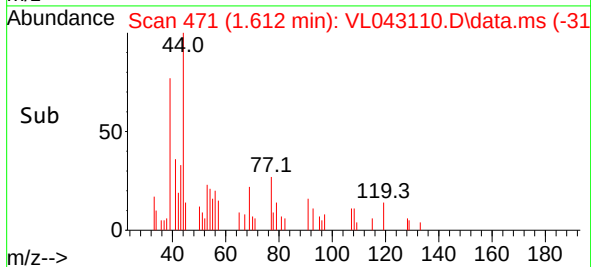
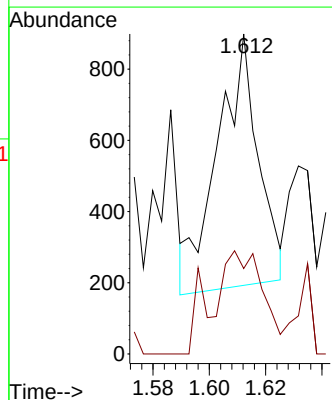
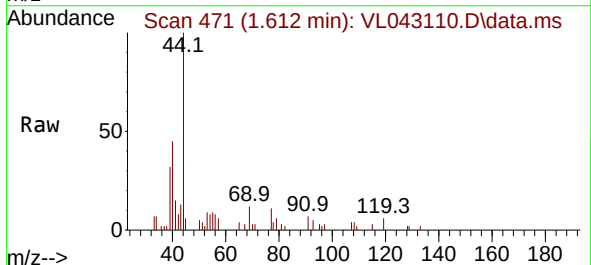
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

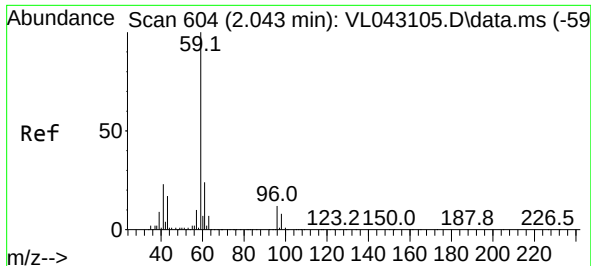
Tgt Ion: 43 Resp: 1339  
Ion Ratio Lower Upper  
43 100  
58 48.2 20.8 31.2#



#16  
1,3-Butadiene  
Concen: 0.110 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 39 Resp: 710  
Ion Ratio Lower Upper  
39 100  
54 63.4 59.0 88.4





#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_1

ClientSampleId :

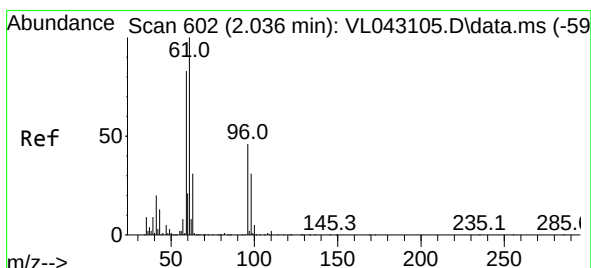
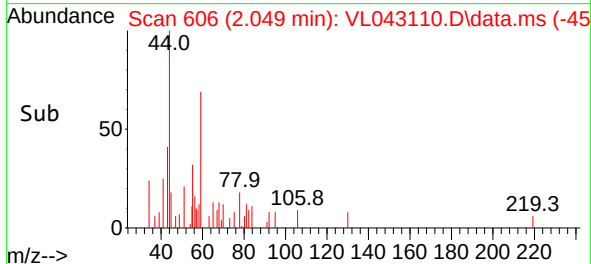
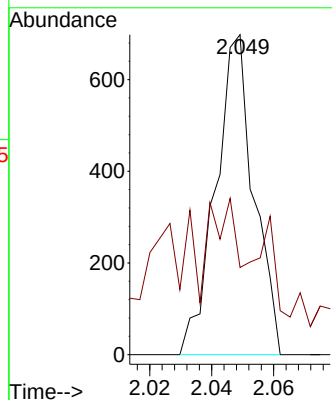
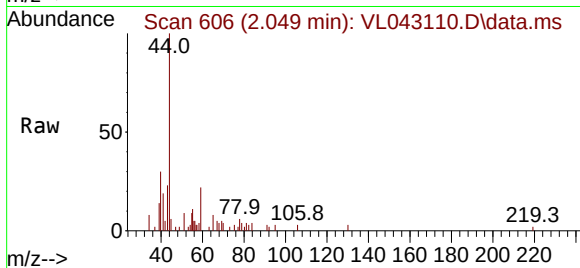
VSTDIC0.03

Tgt Ion: 59 Resp: 599

Ion Ratio Lower Upper

59 100

57 72.6 8.2 12.4#



#18

1,1-Dichloroethene

Concen: 0.048 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

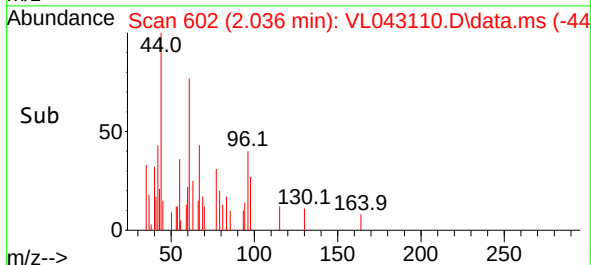
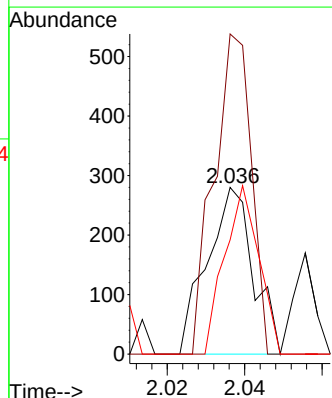
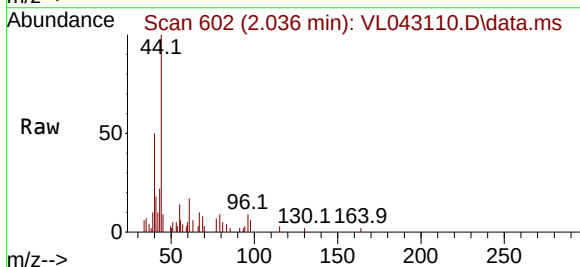
Tgt Ion: 96 Resp: 232

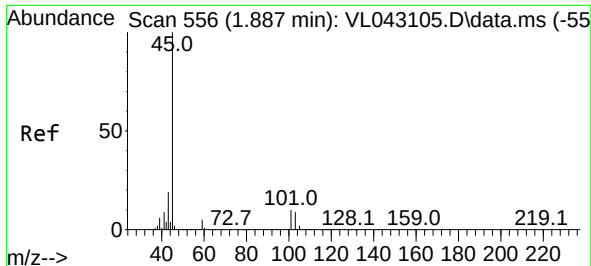
Ion Ratio Lower Upper

96 100

61 192.1 173.4 260.0

98 68.6 53.2 79.8

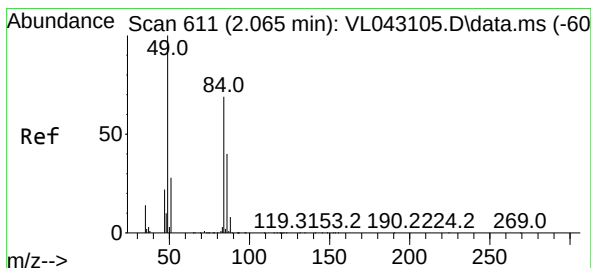
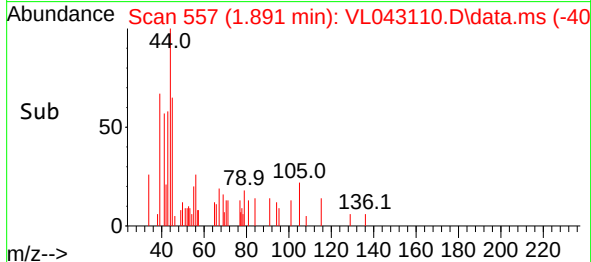
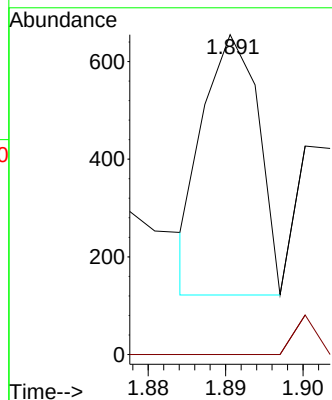
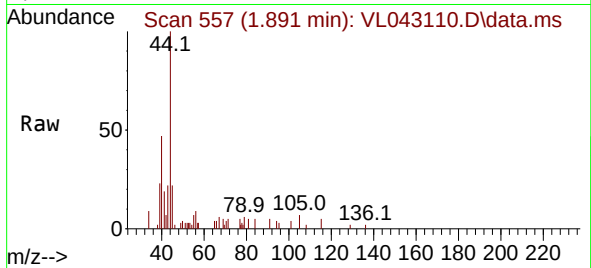




#19  
Isopropyl Alcohol  
Concen: 0.031 ppbv  
RT: 1.891 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

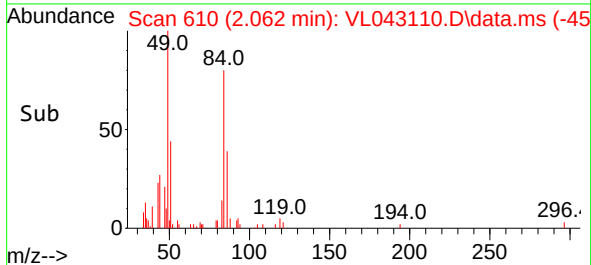
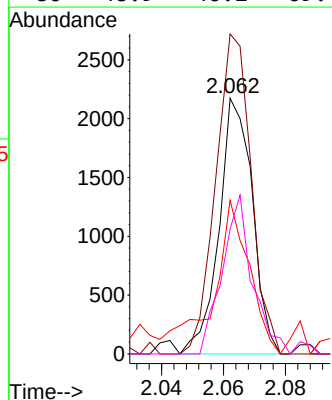
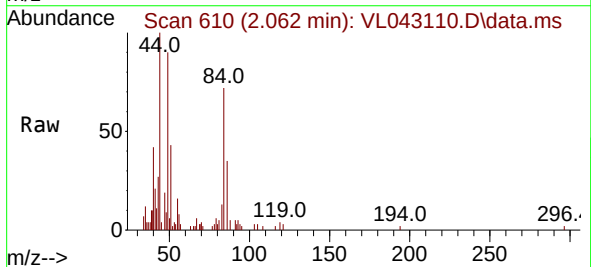
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

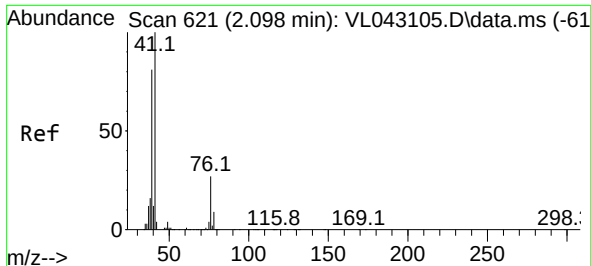
Tgt Ion: 45 Resp: 263  
Ion Ratio Lower Upper  
45 100  
58 35.7 31.3 46.9



#20  
Methylene Chloride  
Concen: 0.305 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 84 Resp: 1624  
Ion Ratio Lower Upper  
84 100  
49 125.2 116.6 175.0  
51 60.1 34.8 52.2#  
86 48.9 46.2 69.4

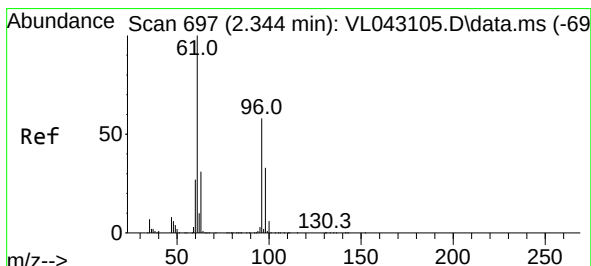
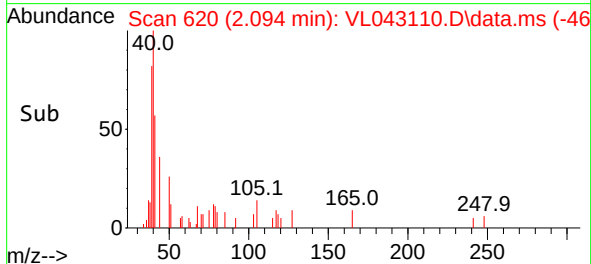
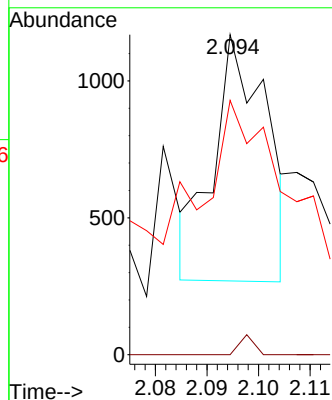
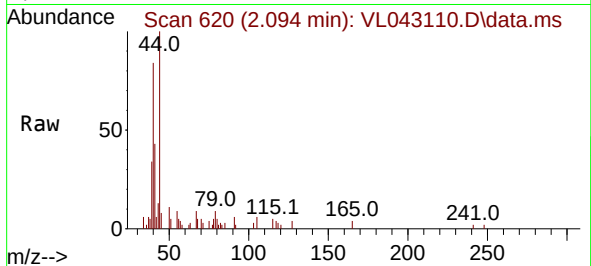




#21  
 Allyl Chloride  
 Concen: 0.065 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.003 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

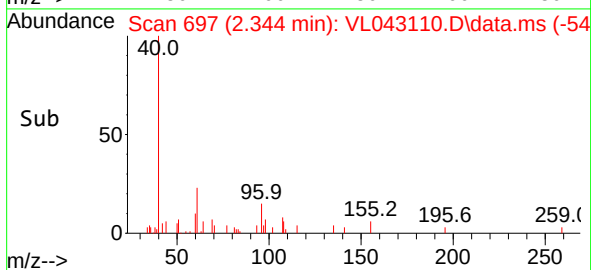
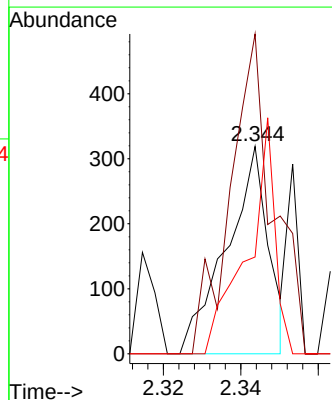
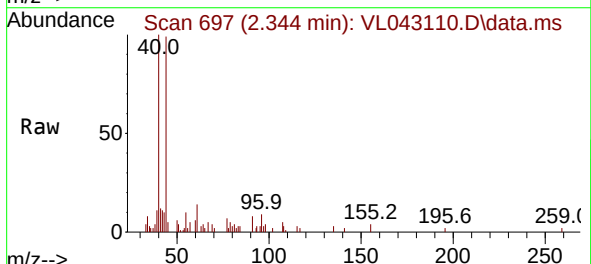
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

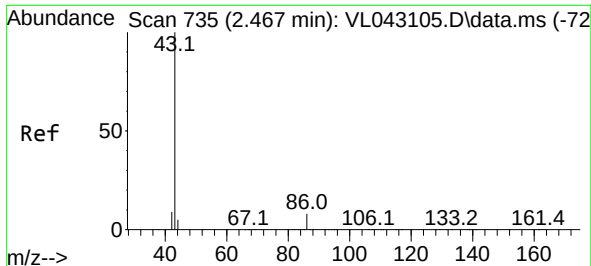
Tgt Ion: 41 Resp: 645  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 21.5 32.3#  
 39 263.7 60.8 91.2#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.041 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. -0.000 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

Tgt Ion: 96 Resp: 240  
 Ion Ratio Lower Upper  
 96 100  
 61 154.2 137.0 205.6  
 98 46.7 45.5 68.3

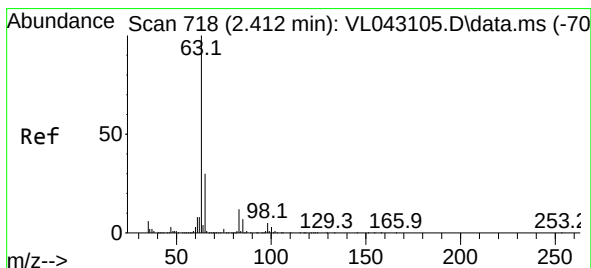
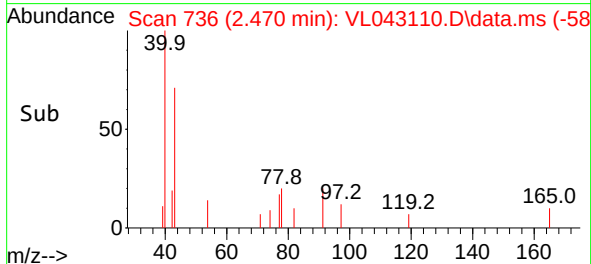
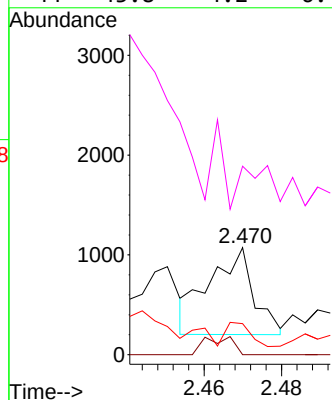
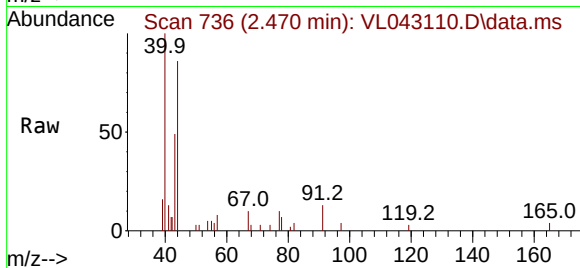




#23  
 Vinyl Acetate  
 Concen: 0.035 ppbv  
 RT: 2.470 min Scan# 718  
 Delta R.T. 0.003 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

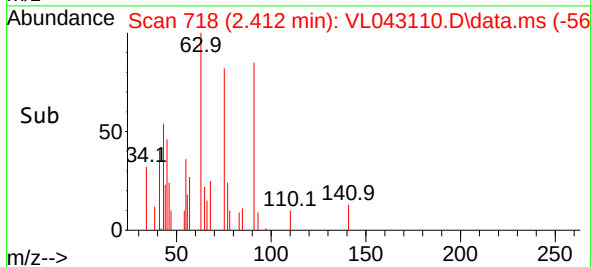
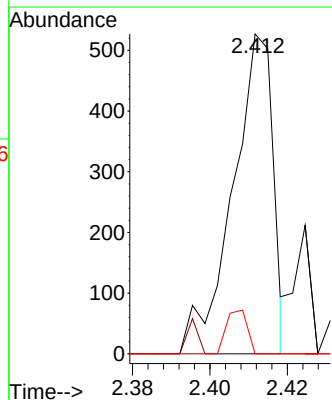
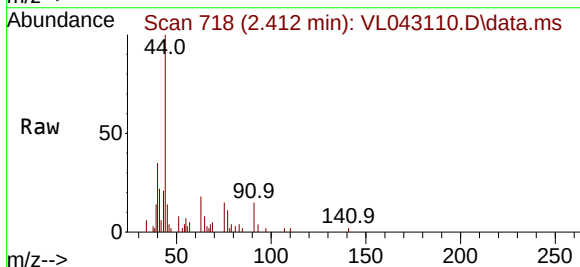
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

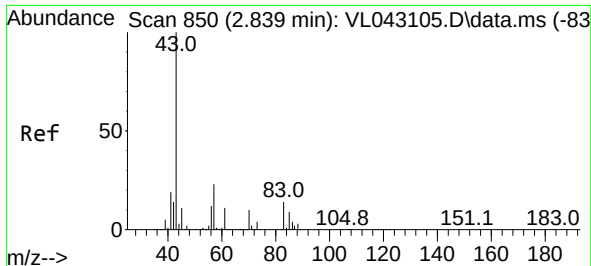
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 699   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 6.2   | 9.2#  |
| 42       | 27.9  | 7.6   | 11.4# |
| 44       | 43.8  | 4.2   | 6.4#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.034 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 383   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 2.6   | 7.8#  |
| 100      | 0.0   | 1.5   | 4.4#  |

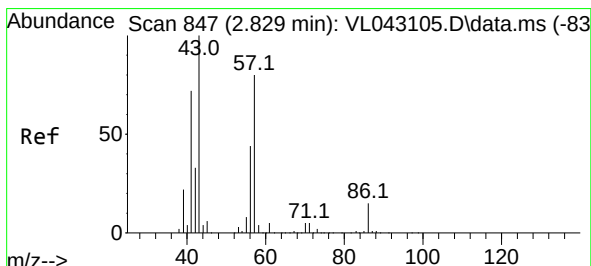
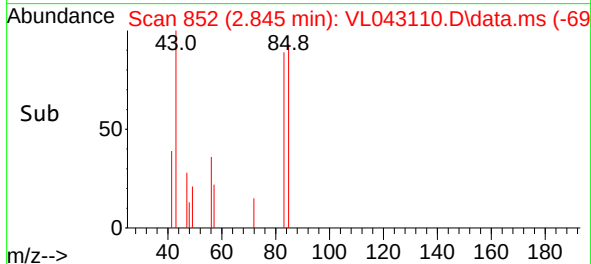
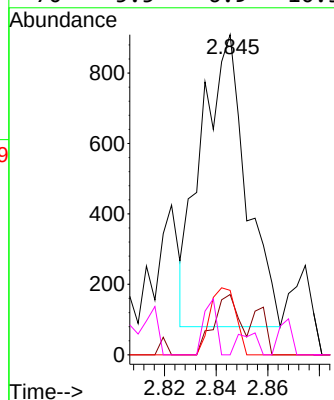
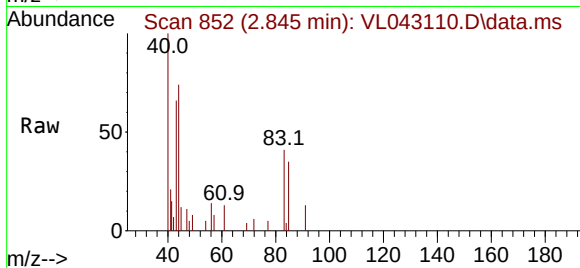




#25  
Ethyl Acetate  
Concen: 0.030 ppbv  
RT: 2.845 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

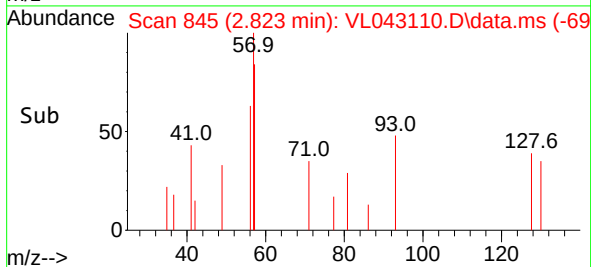
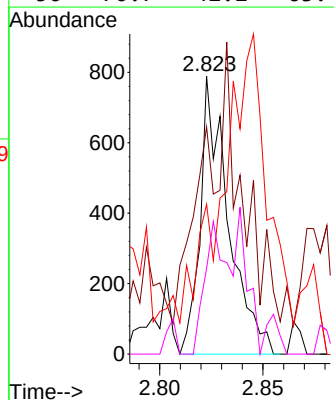
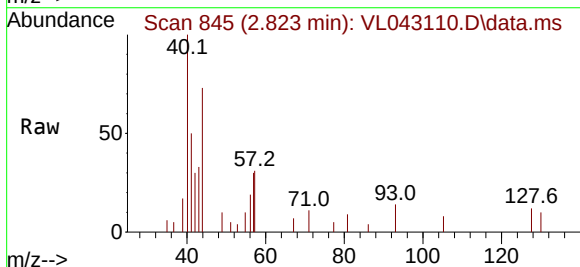
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 998   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 18.0     | 7.8 11.8#   |
| 61 13.2     | 7.0 10.6#   |
| 70 5.5      | 6.9 10.3#   |

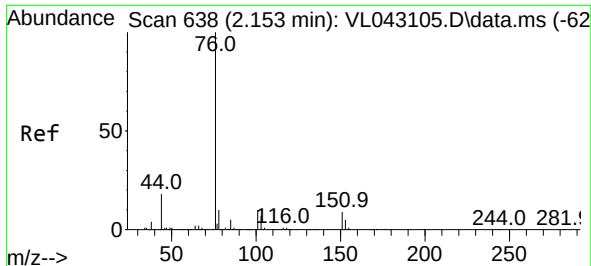


#26  
Hexane  
Concen: 0.048 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 740   |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 136.4    | 71.4 107.0# |
| 43 230.5    | 178.5 267.7 |
| 56 70.7     | 42.2 63.4#  |



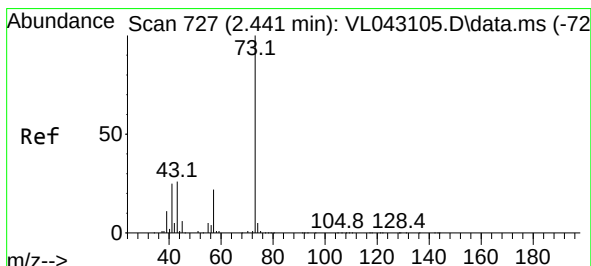
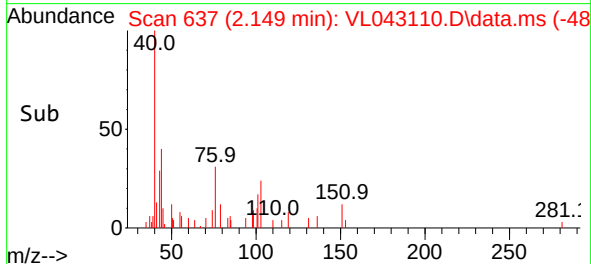
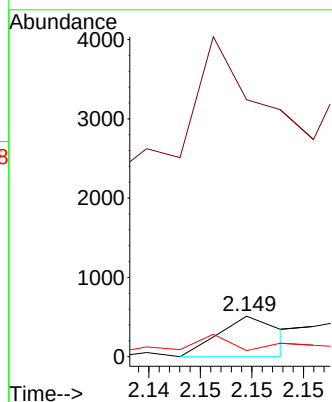
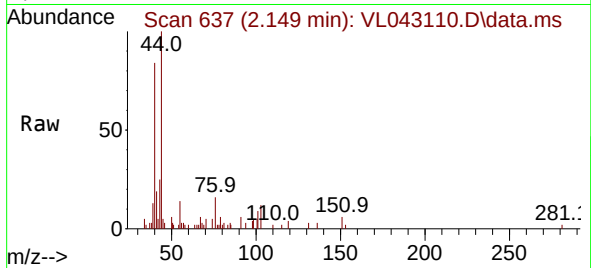




#27  
Carbon Disulfide  
Concen: 0.015 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

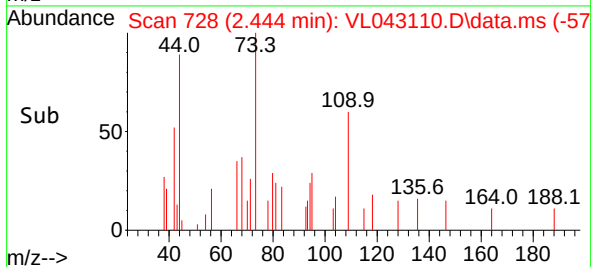
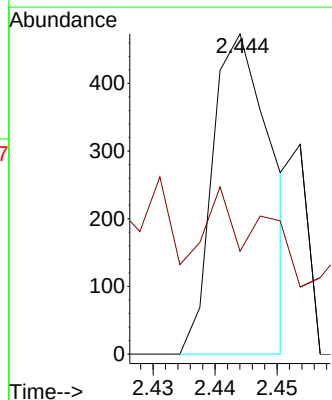
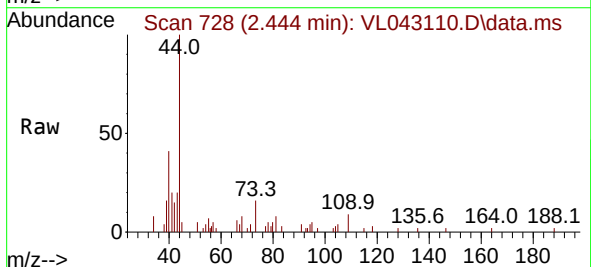
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

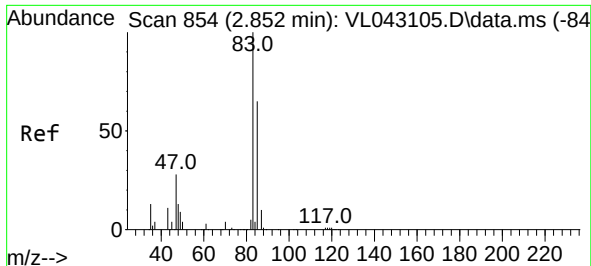
Tgt Ion: 76 Resp: 215  
Ion Ratio Lower Upper  
76 100  
44 0.0 16.7 25.1#  
78 209.8 9.3 13.9#



#28  
Methyl tert-Butyl Ether  
Concen: 0.044 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 73 Resp: 309  
Ion Ratio Lower Upper  
73 100  
57 184.8 20.5 30.7#





#29

Chloroform

Concen: 0.038 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_L

ClientSampleId :

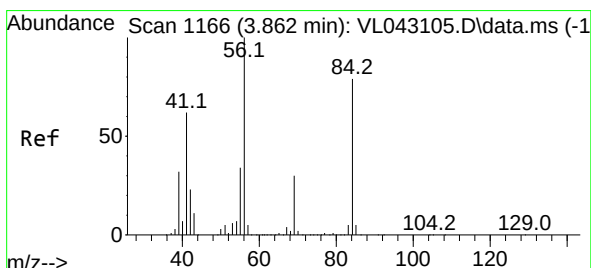
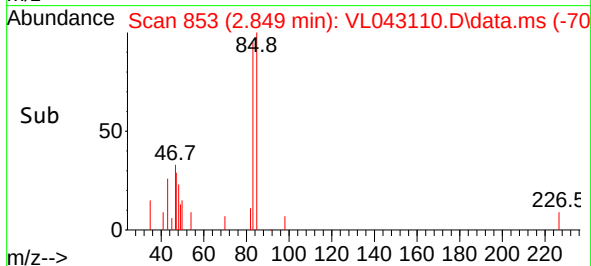
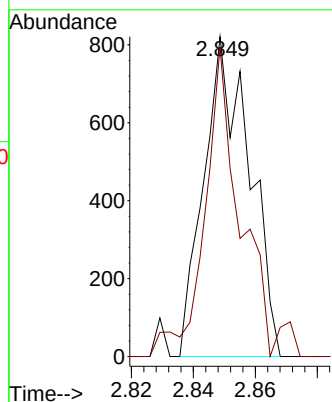
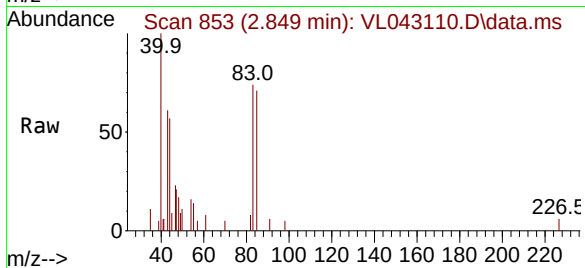
VSTDICC0.03

Tgt Ion: 83 Resp: 839

Ion Ratio Lower Upper

83 100

85 90.7 51.8 77.6#



#30

Cyclohexane

Concen: 0.021 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

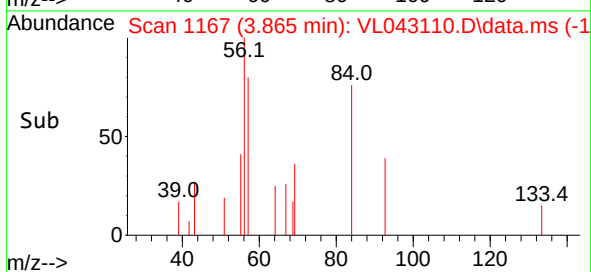
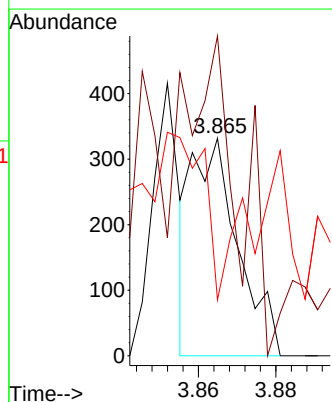
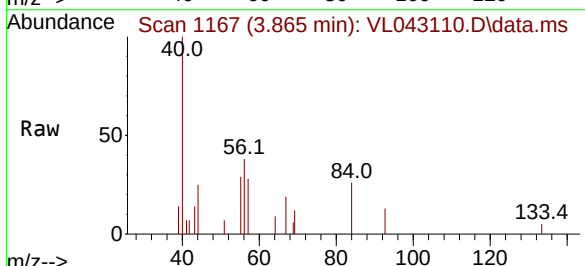
Tgt Ion: 84 Resp: 276

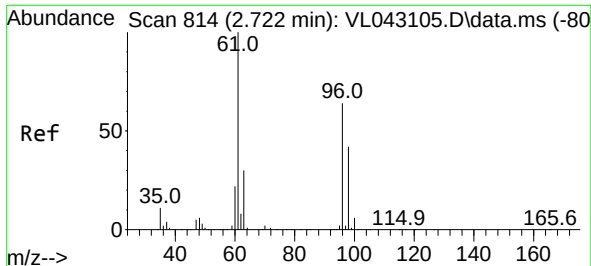
Ion Ratio Lower Upper

84 100

56 324.3 100.9 151.3#

41 0.0 63.8 95.6#

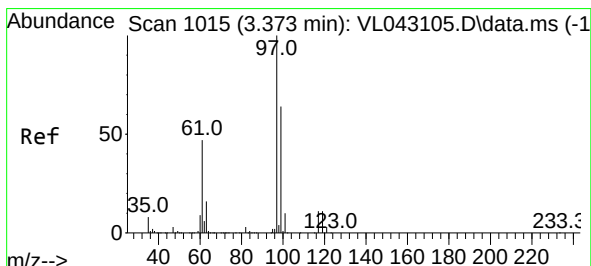
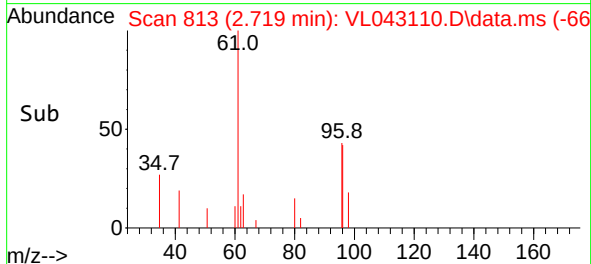
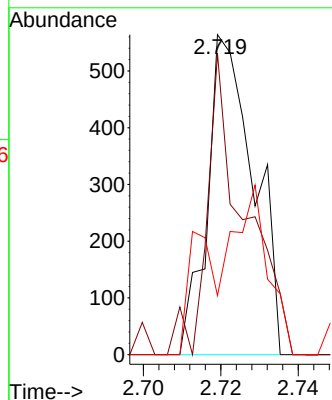
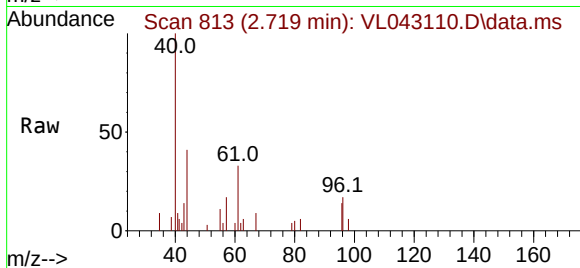




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.032 ppbv  
 RT: 2.719 min Scan# 814  
 Delta R.T. -0.003 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

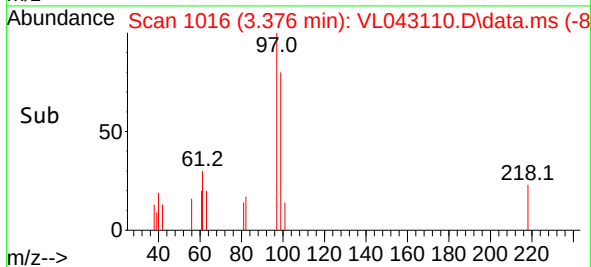
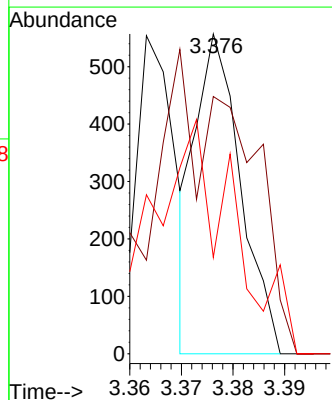
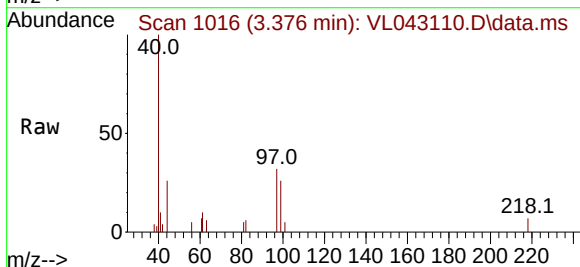
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

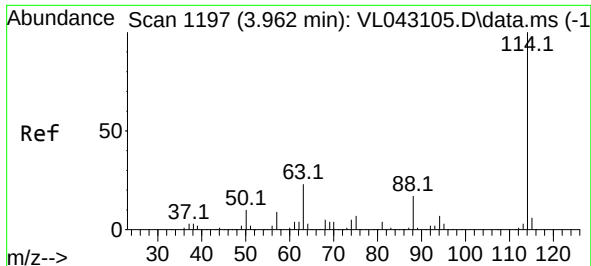
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 467   |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 79.3  | 51.0  | 76.6# |
| 98       | 18.4  | 33.5  | 50.3# |



#32  
 1,1,1-Trichloroethane  
 Concen: 0.014 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.003 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 336   |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 185.7 | 51.3  | 76.9# |
| 61       | 149.7 | 38.4  | 57.6# |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.03

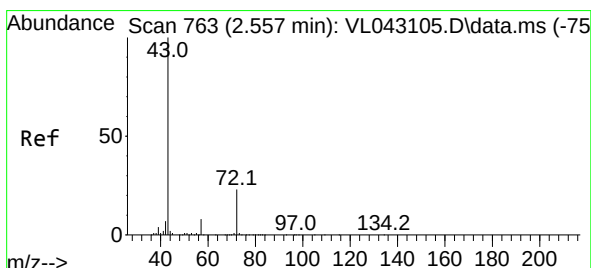
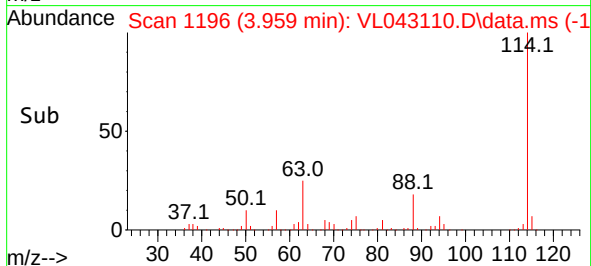
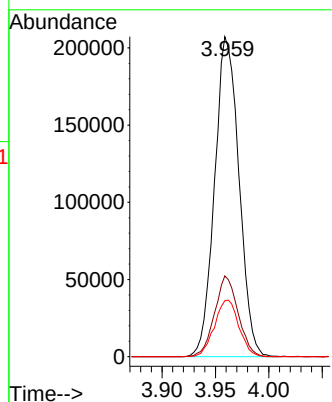
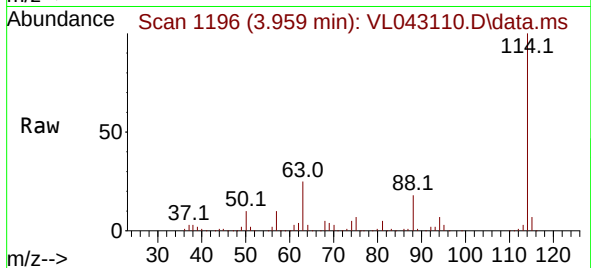
Tgt Ion:114 Resp: 328897

Ion Ratio Lower Upper

114 100

63 24.3 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 0.041 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043110.D

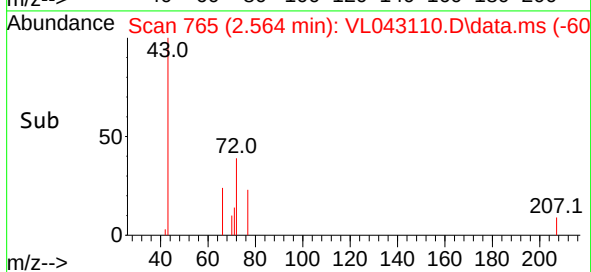
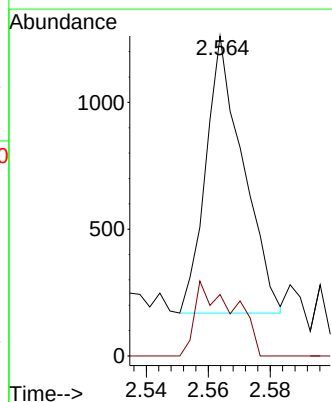
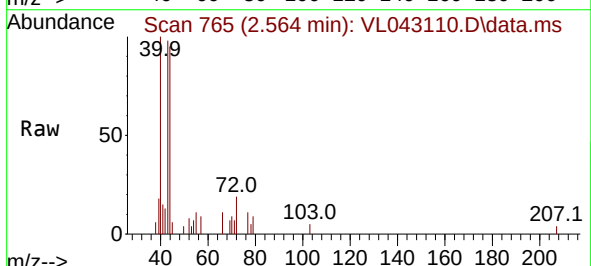
Acq: 14 Oct 2025 13:42

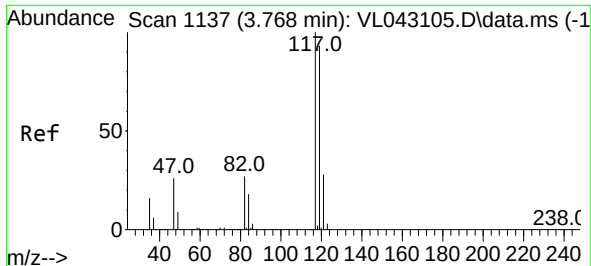
Tgt Ion: 43 Resp: 909

Ion Ratio Lower Upper

43 100

72 28.4 18.4 27.6#

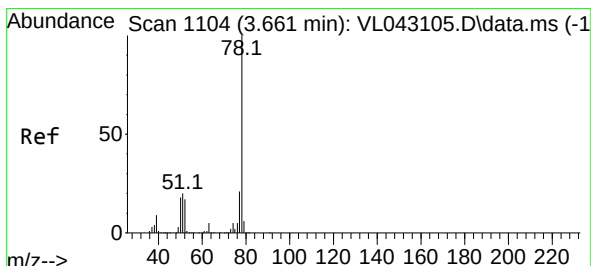
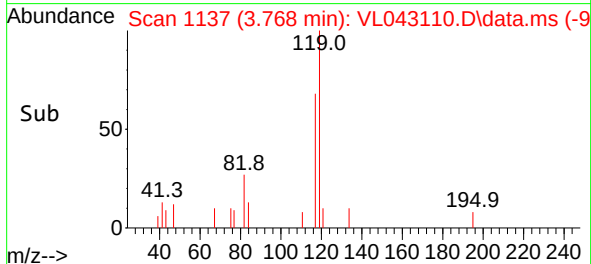
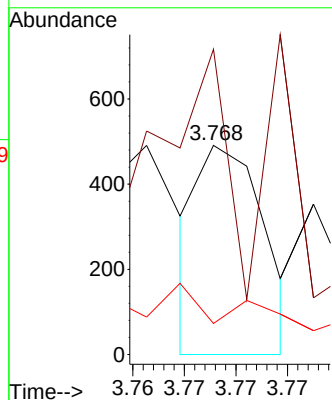
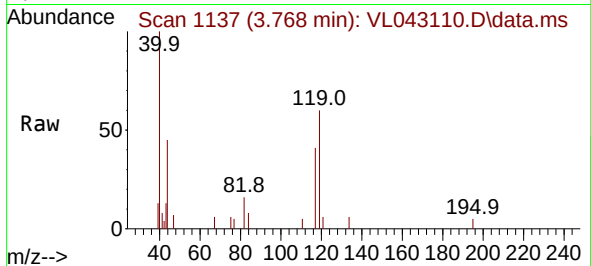




#35  
Carbon Tetrachloride  
Concen: 0.009 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

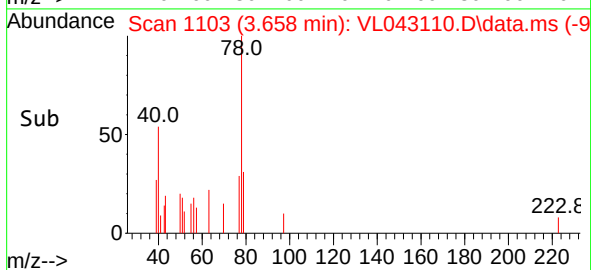
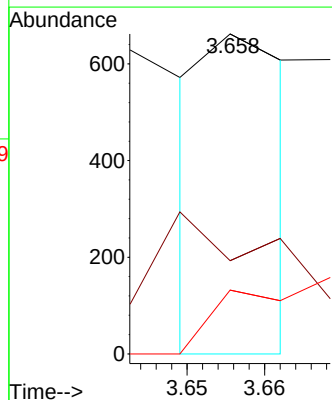
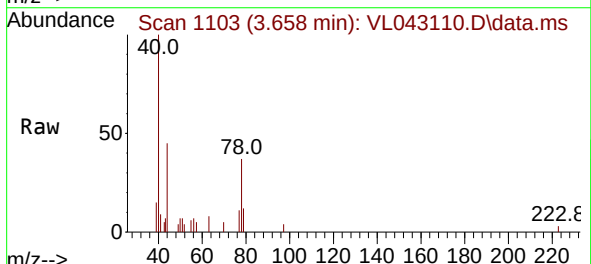
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

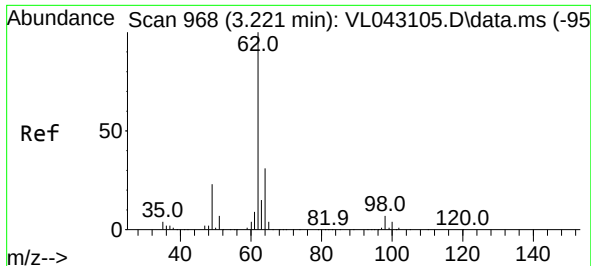
Tgt Ion:117 Resp: 216  
Ion Ratio Lower Upper  
117 100  
119 74.1 74.1 111.1  
121 0.0 22.2 33.2#



#36  
Benzene  
Concen: 0.008 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 78 Resp: 246  
Ion Ratio Lower Upper  
78 100  
77 0.0 17.0 25.6#  
50 244.4 14.6 22.0#

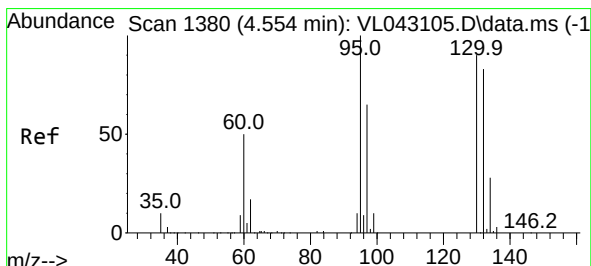
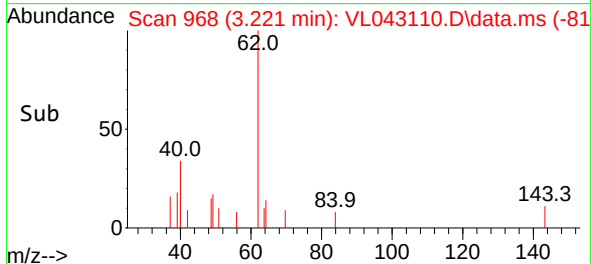
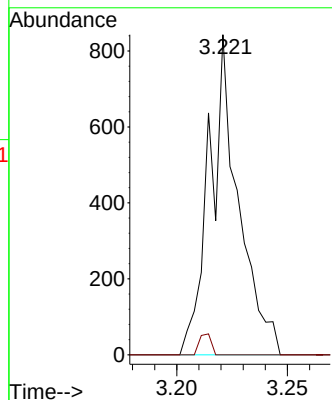
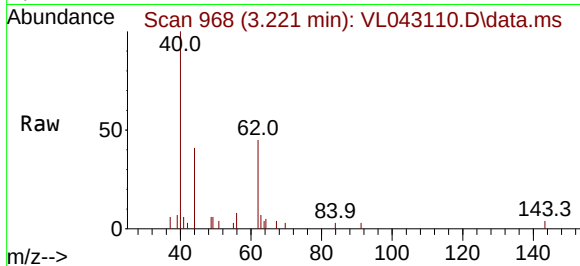




#37  
1,2-Dichloroethane  
Concen: 0.043 ppbv  
RT: 3.221 min Scan# 968  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

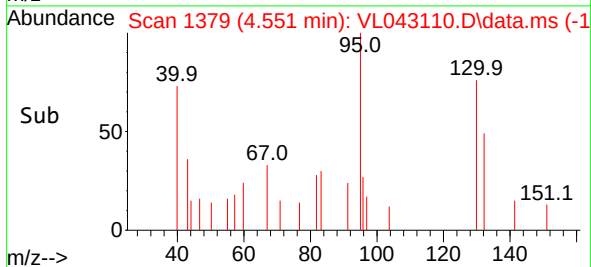
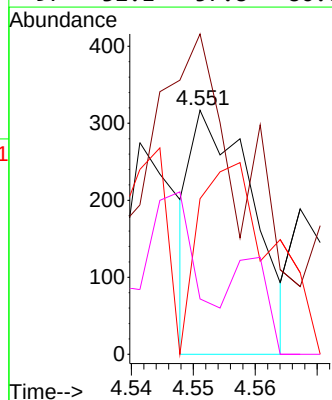
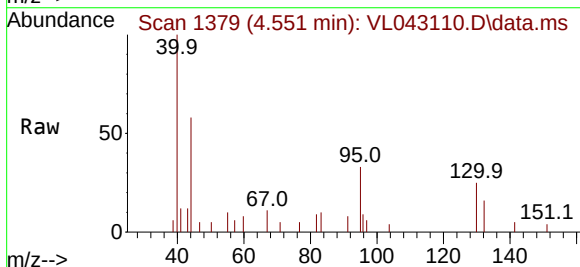
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

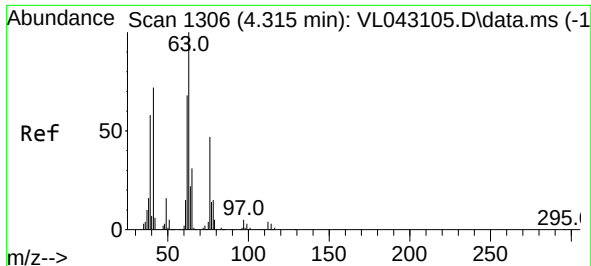
Tgt Ion: 62 Resp: 772  
Ion Ratio Lower Upper  
62 100  
98 2.7 5.8 8.6#



#38  
Trichloroethene  
Concen: 0.017 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 130 Resp: 216  
Ion Ratio Lower Upper  
130 100  
95 136.6 88.6 133.0#  
132 90.2 73.4 110.0  
97 32.1 57.8 86.6#





#39

1,2-Dichloropropane

Concen: 7.052 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.356 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

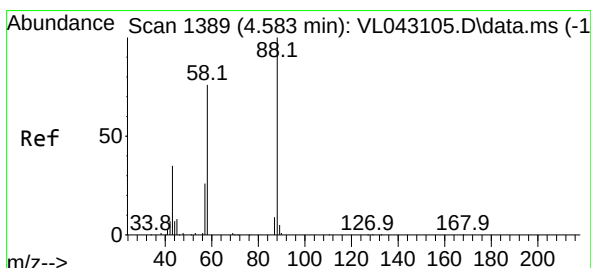
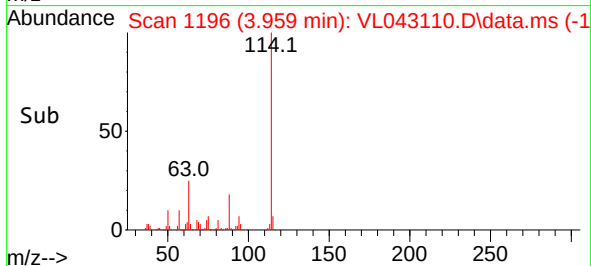
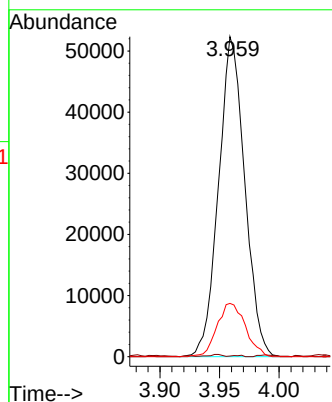
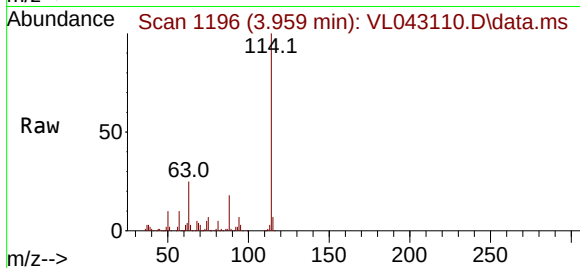
Tgt Ion: 63 Resp: 79938

Ion Ratio Lower Upper

63 100

41 0.2 58.0 87.0#

62 16.7 54.7 82.1#



#40

1,4-Dioxane

Concen: 0.007 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.026 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Tgt Ion: 88 Resp: 33

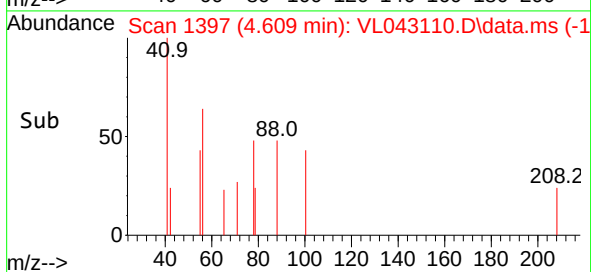
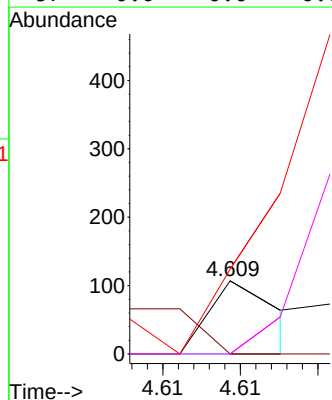
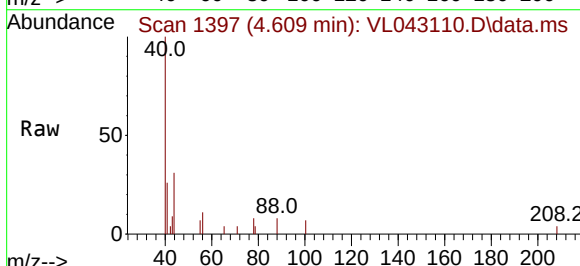
Ion Ratio Lower Upper

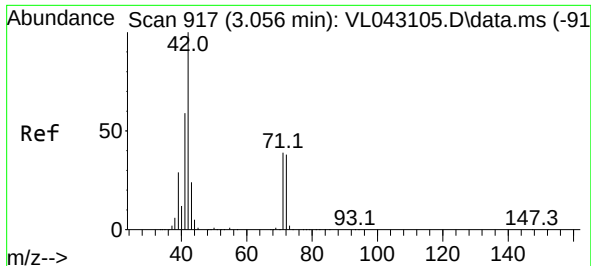
88 100

58 0.0 61.1 91.7#

43 303.0 24.0 36.0#

57 0.0 0.0 0.0

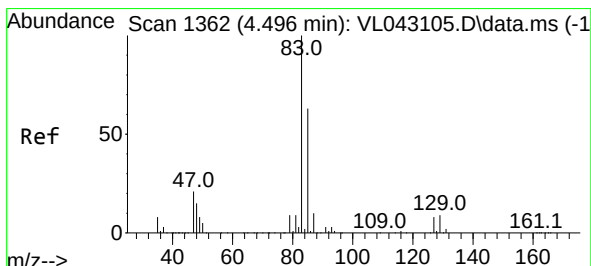
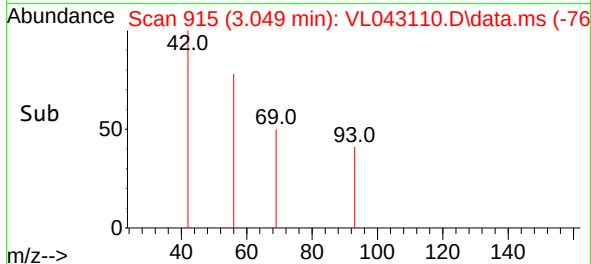
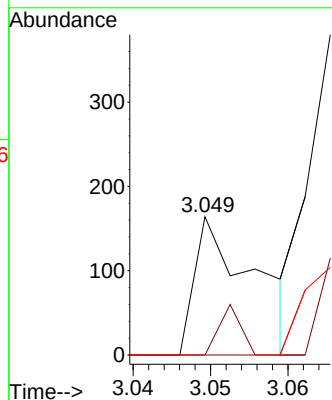
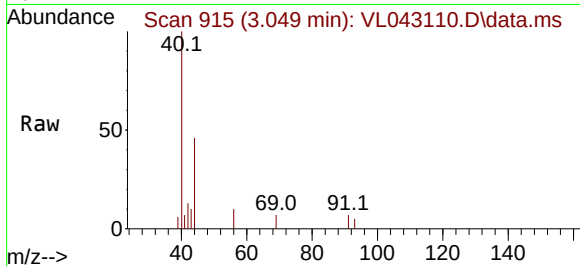




#41  
Tetrahydrofuran  
Concen: 0.007 ppbv  
RT: 3.049 min Scan# 917  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

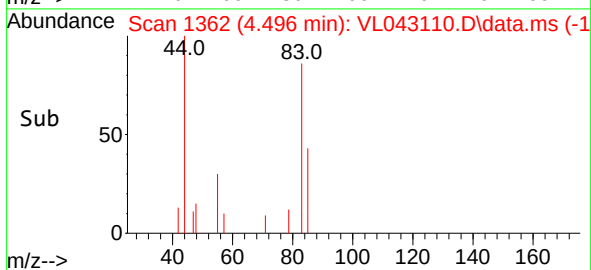
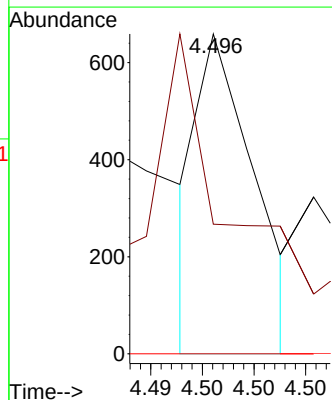
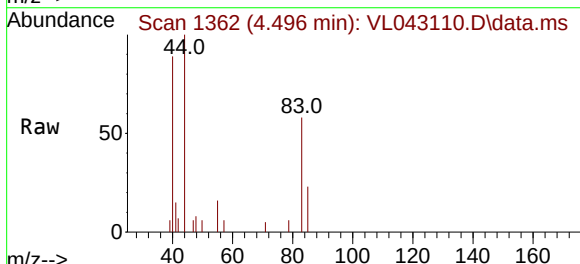
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 42 Resp: 87  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.3 46.9#  
71 0.0 30.4 45.6#

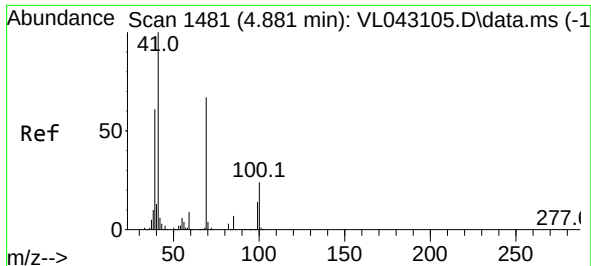


#42  
Bromodichloromethane  
Concen: 0.010 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 83 Resp: 250  
Ion Ratio Lower Upper  
83 100  
85 0.9 50.6 75.8#  
127 0.0 6.3 9.5#



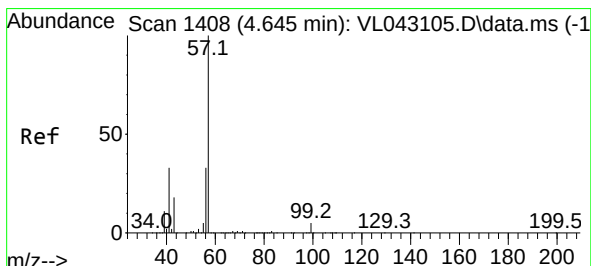
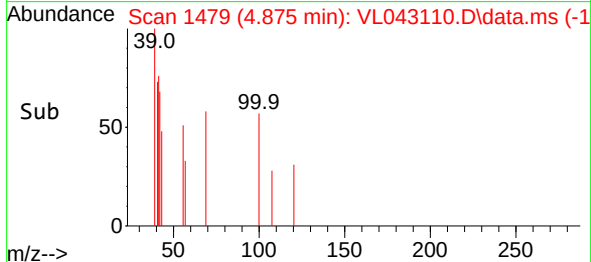
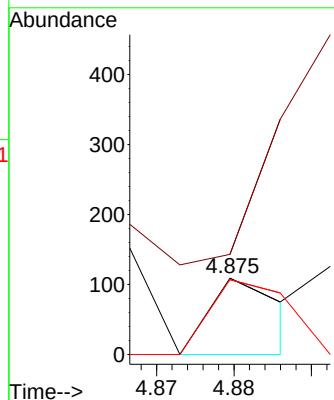
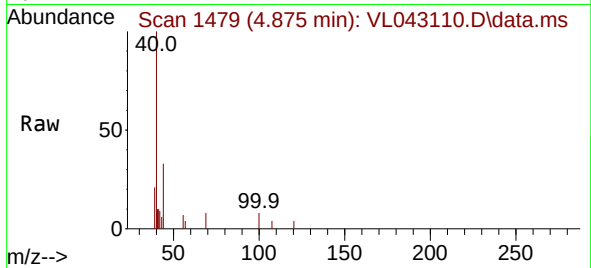




#43  
Methyl Methacrylate  
Concen: 0.002 ppbv  
RT: 4.875 min Scan# 1479  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

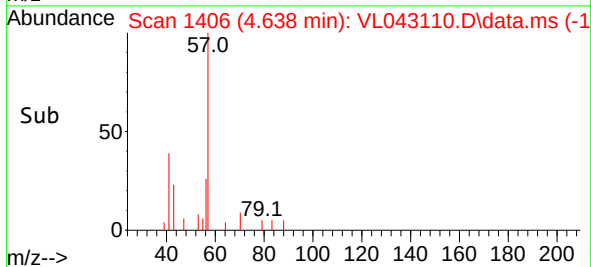
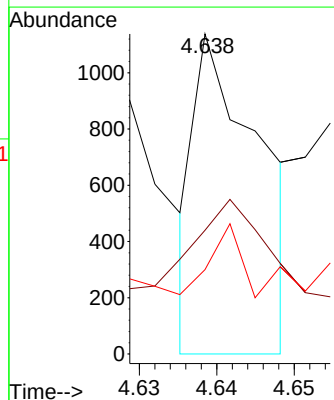
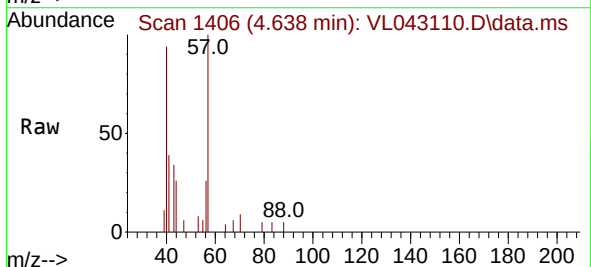
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

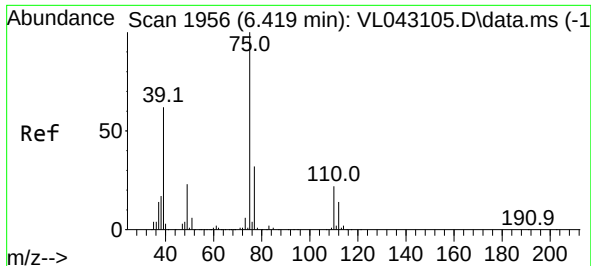
Tgt Ion: 69 Resp: 36  
Ion Ratio Lower Upper  
69 100  
41 0.0 120.5 180.7#  
100 0.0 29.0 43.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.013 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 57 Resp: 669  
Ion Ratio Lower Upper  
57 100  
41 234.7 26.3 39.5#  
56 122.3 25.9 38.9#

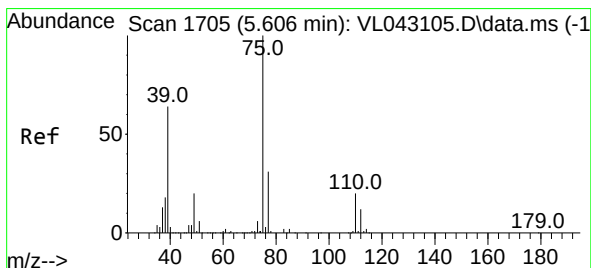
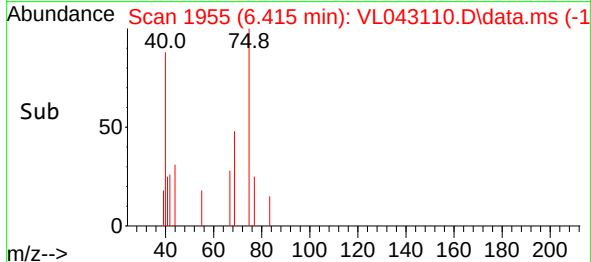
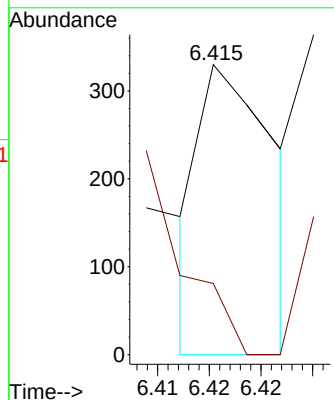
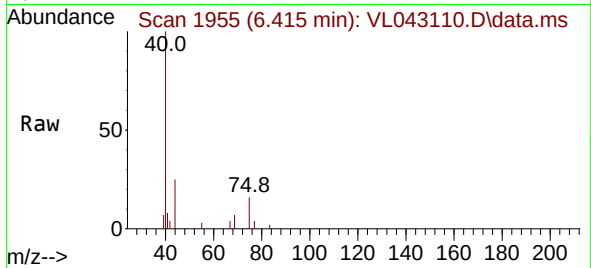




#45  
t-1,3-Dichloropropene  
Concen: 0.010 ppbv  
RT: 6.415 min Scan# 1955  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

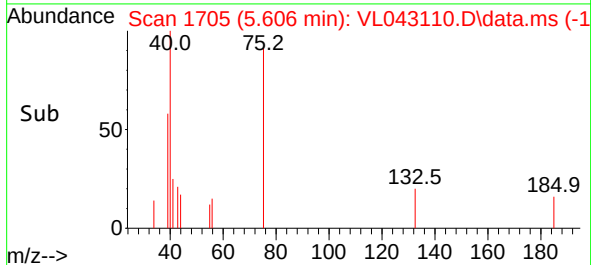
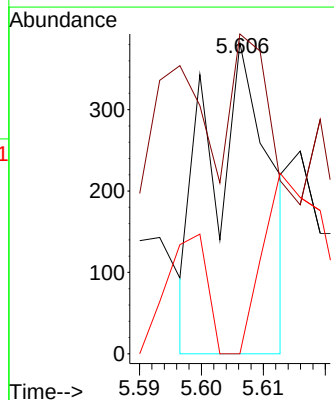
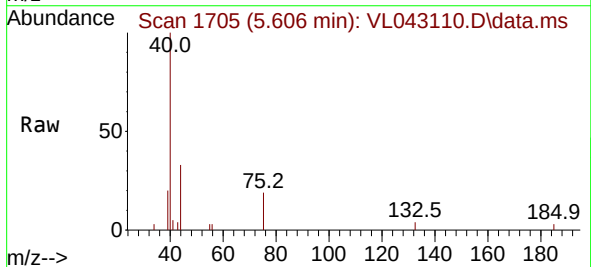
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

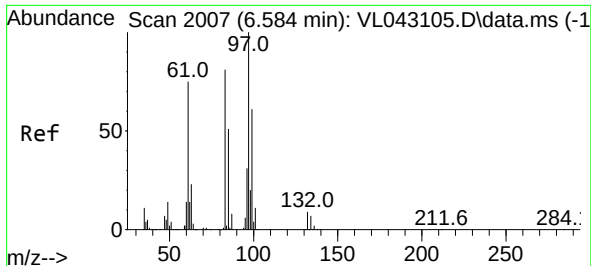
Tgt Ion: 75 Resp: 165  
Ion Ratio Lower Upper  
75 100  
77 24.5 25.4 38.2#



#46  
cis-1,3-Dichloropropene  
Concen: 0.014 ppbv  
RT: 5.606 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 75 Resp: 261  
Ion Ratio Lower Upper  
75 100  
39 62.3 51.0 76.6  
77 0.0 25.0 37.4#

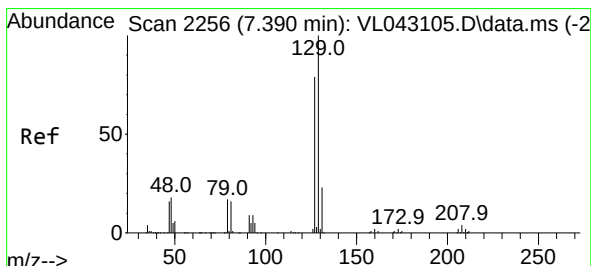
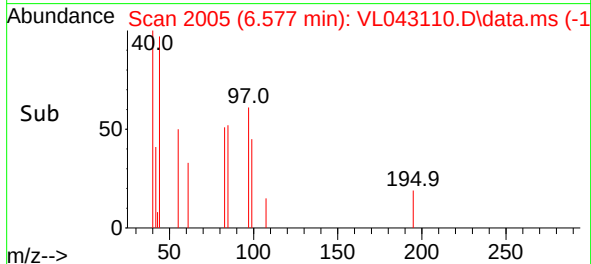
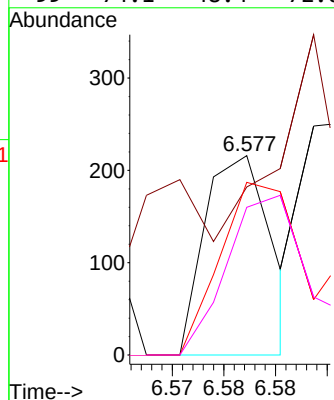
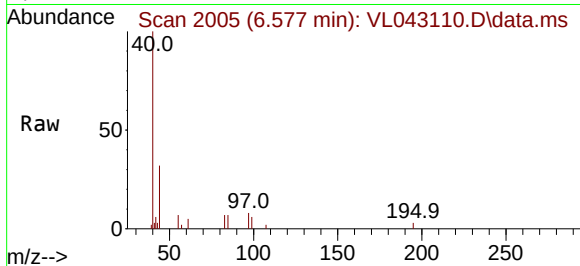




#47  
1,1,2-Trichloroethane  
Concen: 0.008 ppbv  
RT: 6.577 min Scan# 2005  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

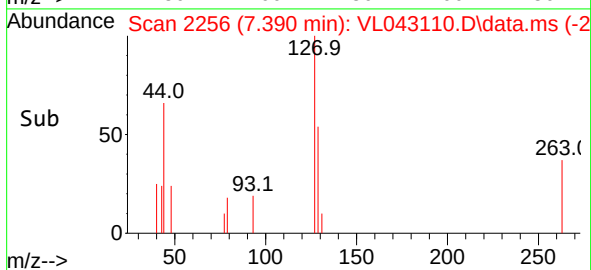
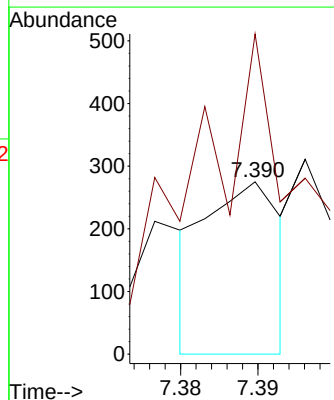
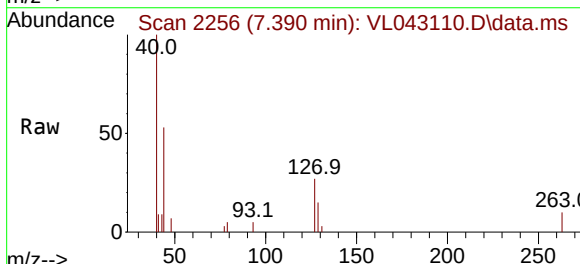
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

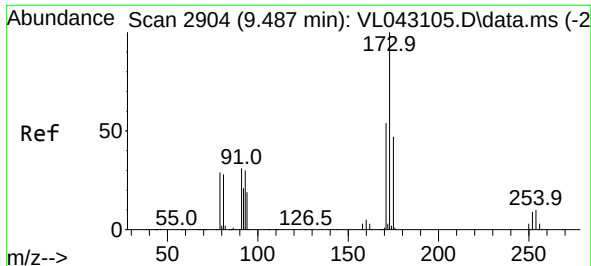
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 98    |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 0.0   | 64.6  | 96.8# |
| 85       | 86.6  | 40.6  | 60.8# |
| 99       | 74.1  | 48.4  | 72.6# |



#48  
Dibromochloromethane  
Concen: 0.009 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 186    |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 311.3 | 39.3  | 117.9# |





#49

Bromoform

Concen: 0.019 ppbv

RT: 9.480 min Scan# 2904

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

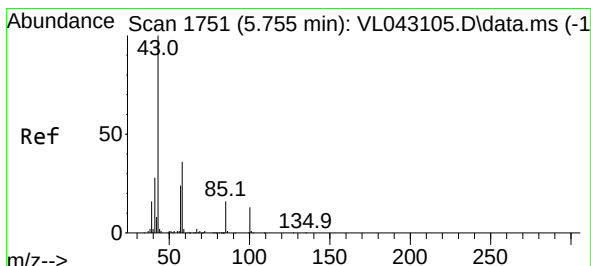
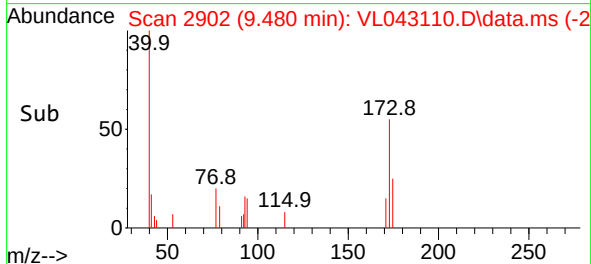
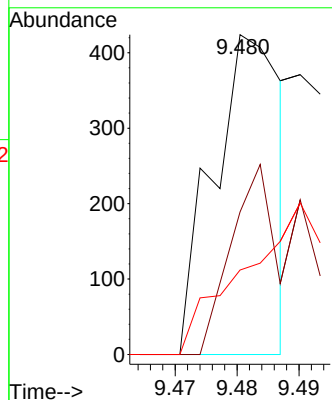
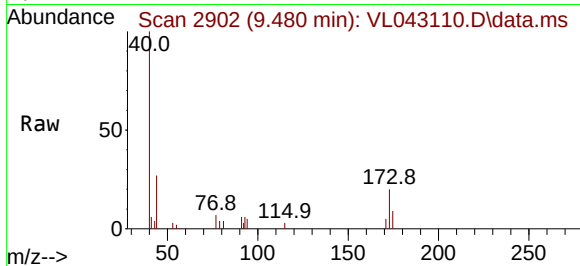
Tgt Ion:173 Resp: 323

Ion Ratio Lower Upper

173 100

175 56.3 38.8 58.2

171 0.0 41.7 62.5#



#50

4-Methyl-2-Pentanone

Concen: 0.009 ppbv

RT: 5.762 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VL043110.D

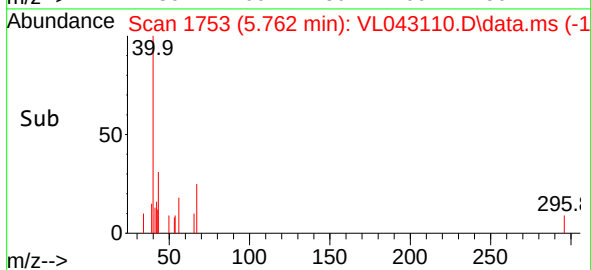
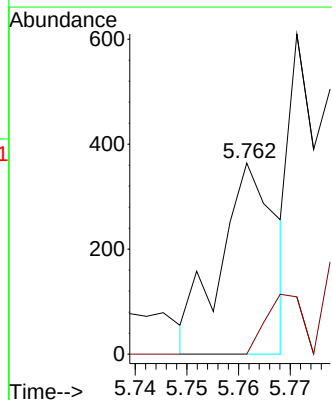
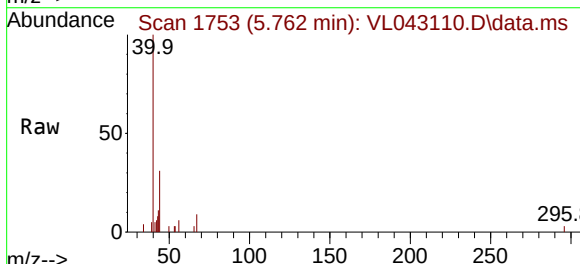
Acq: 14 Oct 2025 13:42

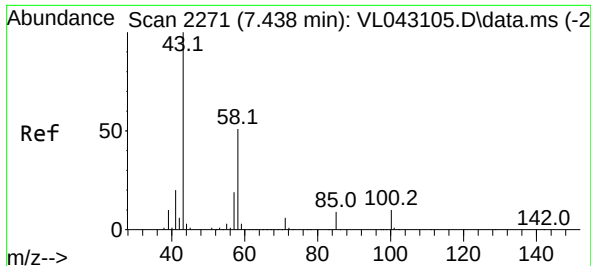
Tgt Ion: 43 Resp: 271

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

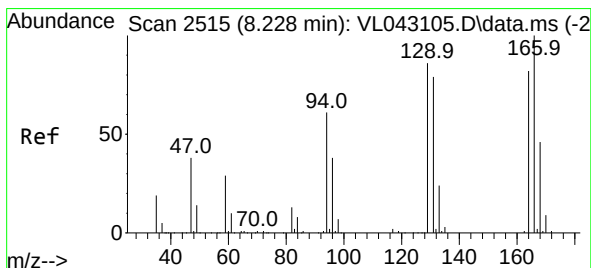
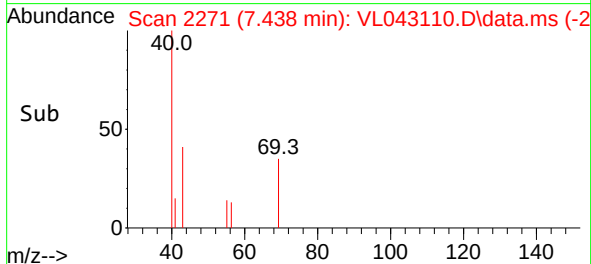
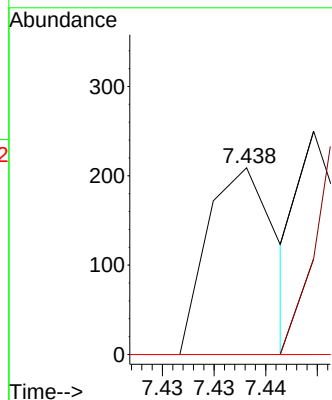
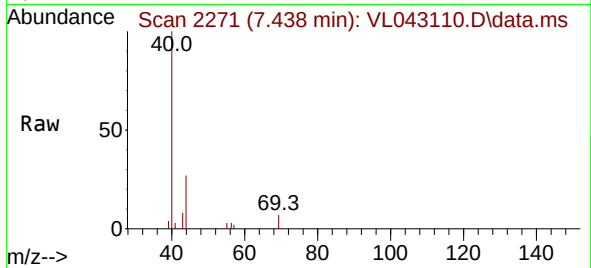




#51  
2-Hexanone  
Concen: 0.004 ppbv  
RT: 7.438 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

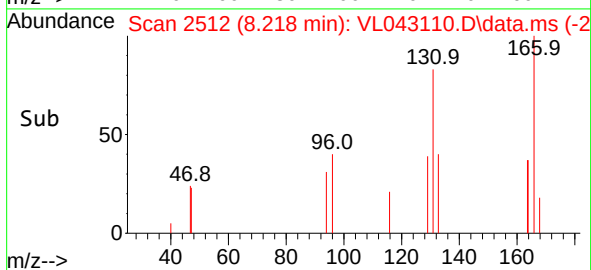
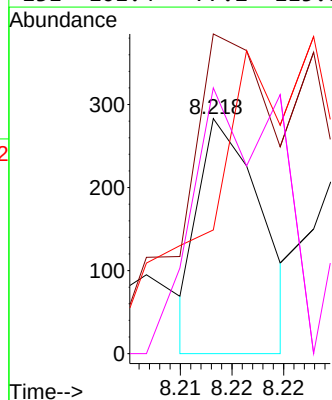
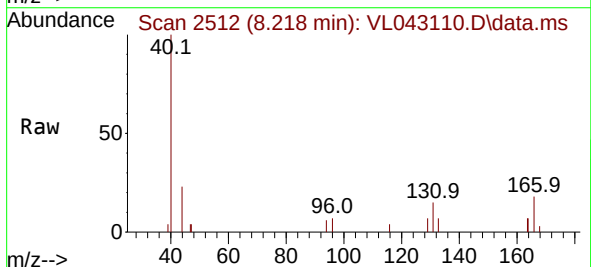
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

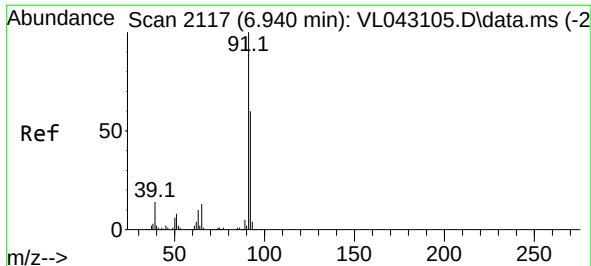
Tgt Ion: 43 Resp: 98  
Ion Ratio Lower Upper  
43 100  
58 0.0 40.4 60.6#  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.011 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. -0.010 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 164 Resp: 120  
Ion Ratio Lower Upper  
164 100  
166 125.2 97.6 146.4  
129 8.9 84.5 126.7#  
131 101.4 77.2 115.8

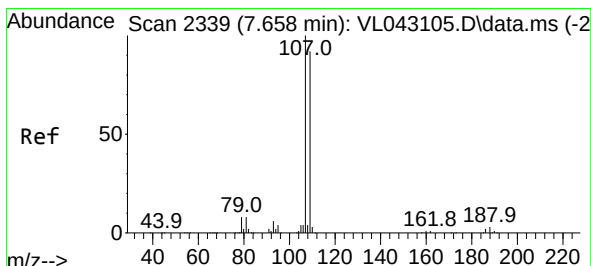
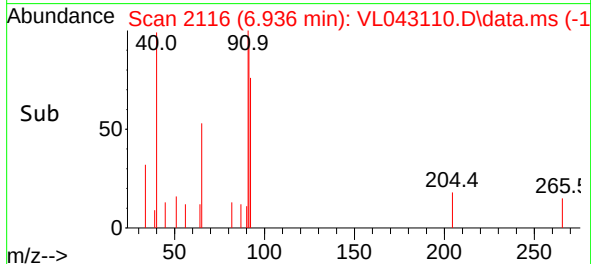
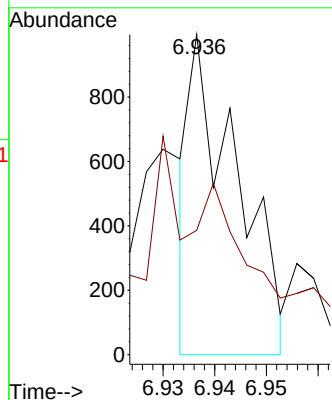
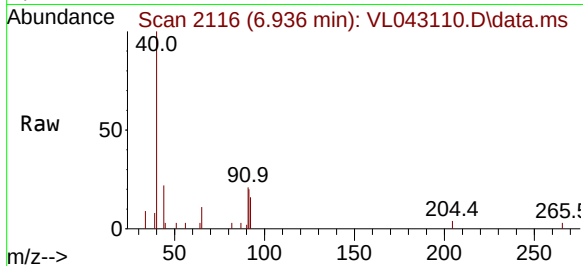




#53  
Toluene  
Concen: 0.017 ppbv  
RT: 6.936 min Scan# 2116  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

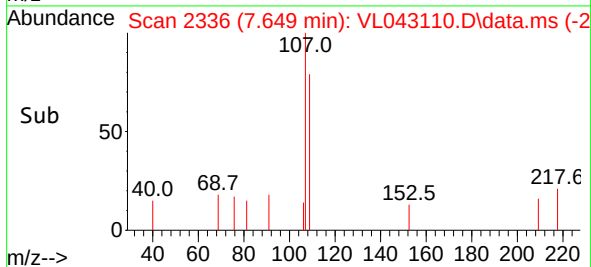
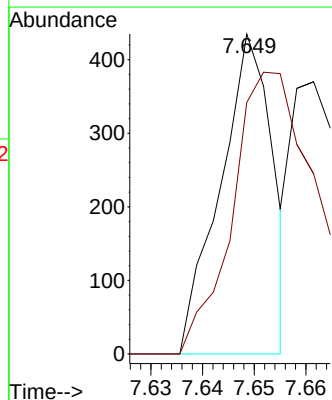
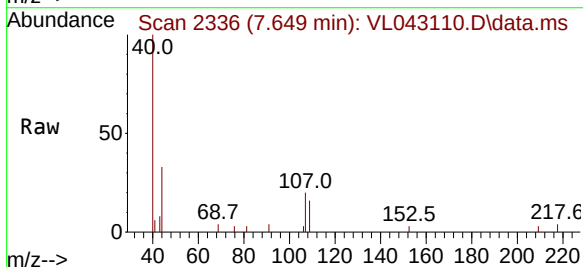
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

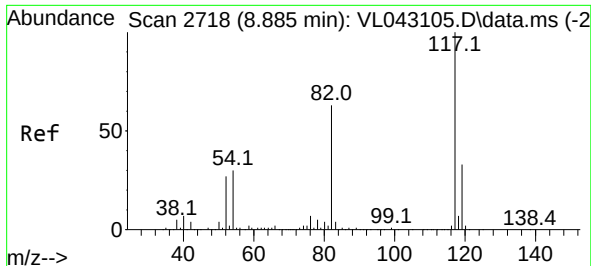
Tgt Ion: 91 Resp: 632  
Ion Ratio Lower Upper  
91 100  
92 0.0 48.8 73.2#



#54  
1,2-Dibromoethane  
Concen: 0.016 ppbv  
RT: 7.649 min Scan# 2336  
Delta R.T. -0.010 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 107 Resp: 308  
Ion Ratio Lower Upper  
107 100  
109 78.6 73.4 110.2

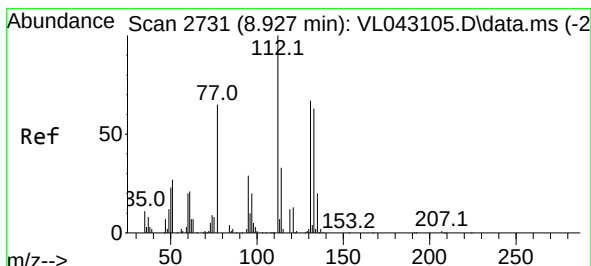
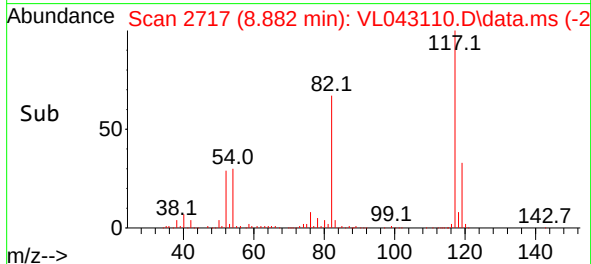
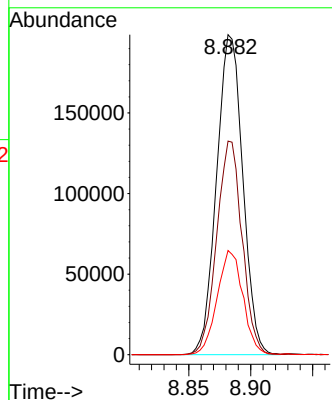
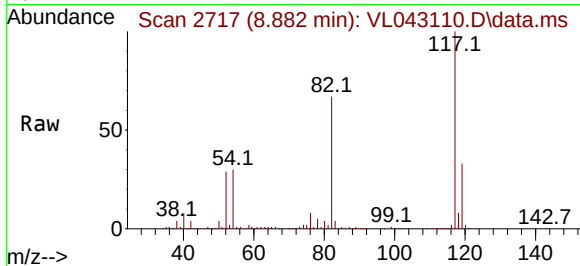




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 217  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

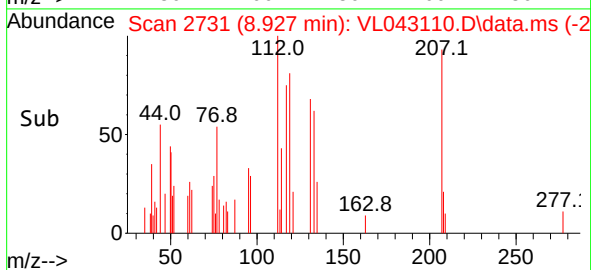
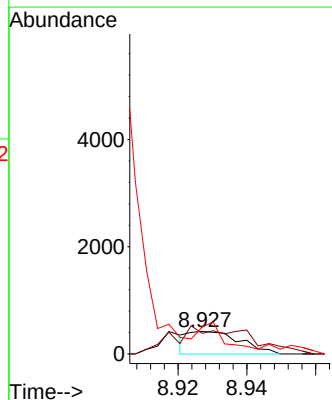
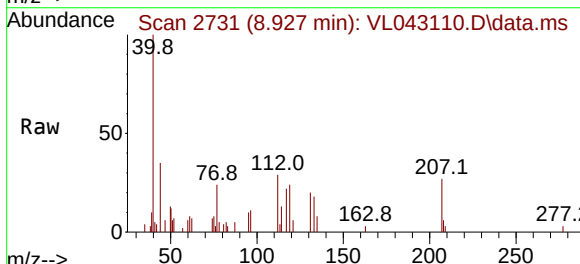
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

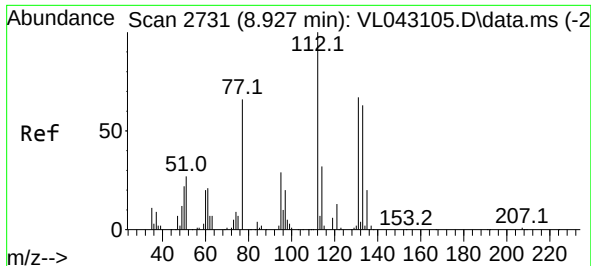
Tgt Ion:117 Resp: 292884  
Ion Ratio Lower Upper  
117 100  
82 64.7 53.8 80.8  
119 32.1 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.024 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion:131 Resp: 441  
Ion Ratio Lower Upper  
131 100  
133 181.0 75.7 113.5#  
119 0.0 50.6 76.0#

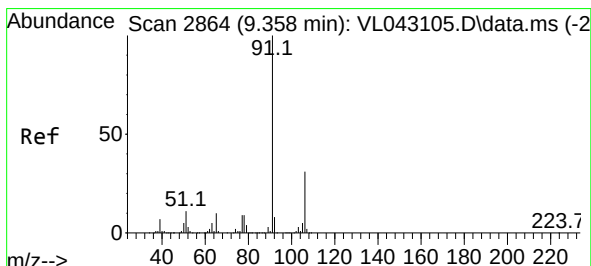
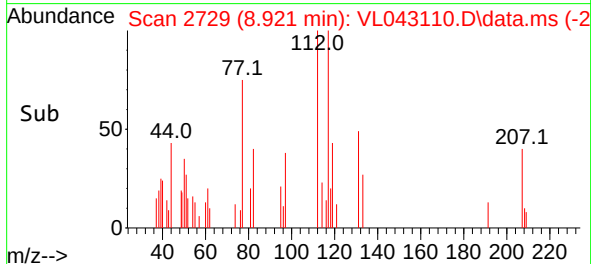
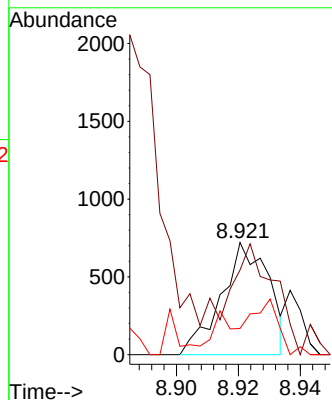
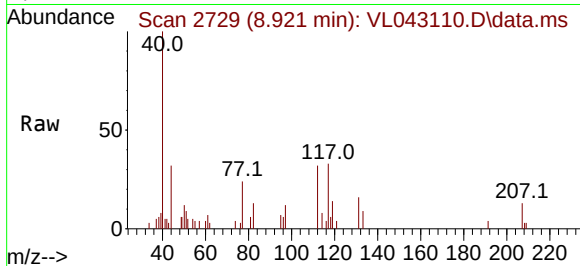




#57  
Chlorobenzene  
Concen: 0.028 ppbv  
RT: 8.921 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

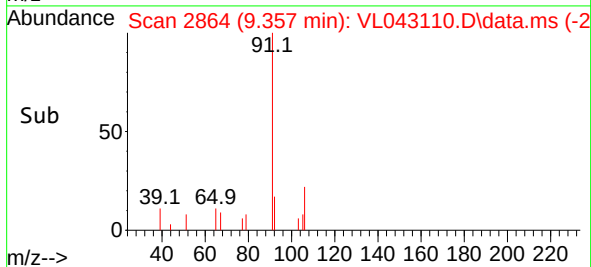
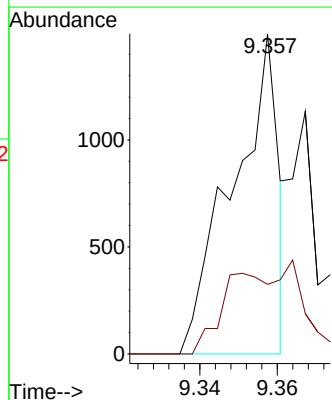
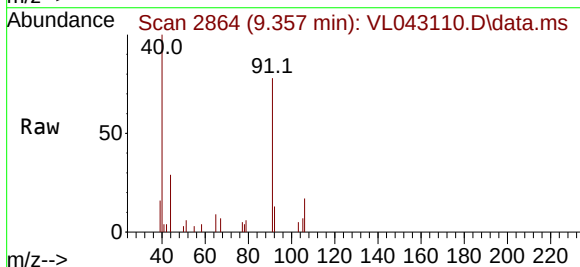
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 33.7  | 53.3  | 79.9# |
| 114     | 16.0  | 29.3  | 35.8# |

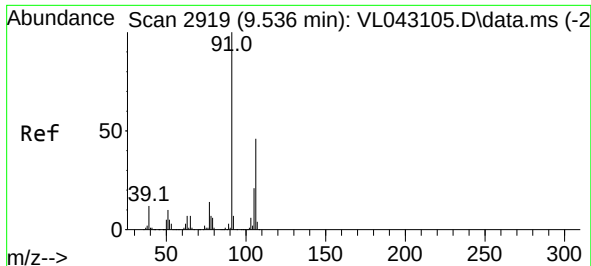


#58  
Ethyl Benzene  
Concen: 0.024 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 21.7  | 24.8  | 37.2# |







#59

m/p-Xylene

Concen: 0.019 ppbv

RT: 9.529 min Scan# 2919

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_L

ClientSampleId :

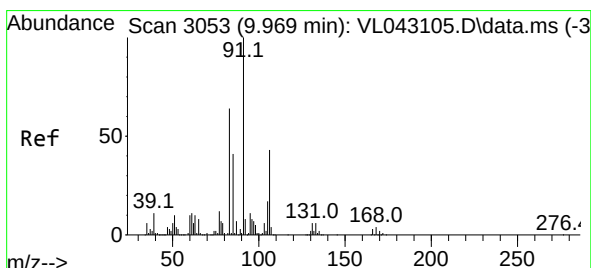
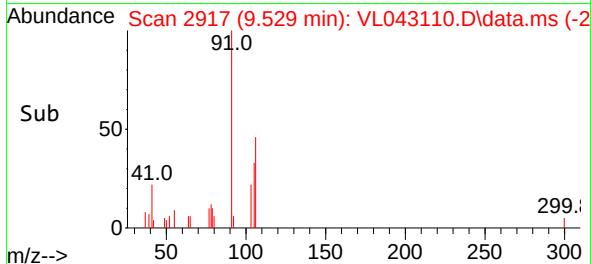
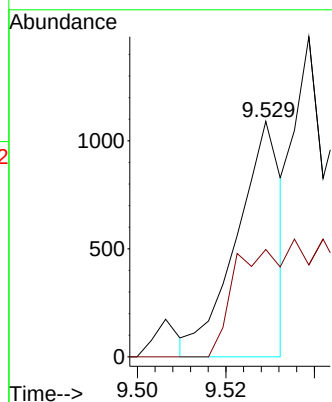
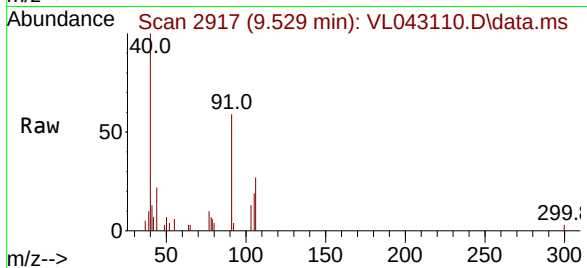
VSTDIC0.03

Tgt Ion: 91 Resp: 759

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 0.018 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.003 min

Lab File: VL043110.D

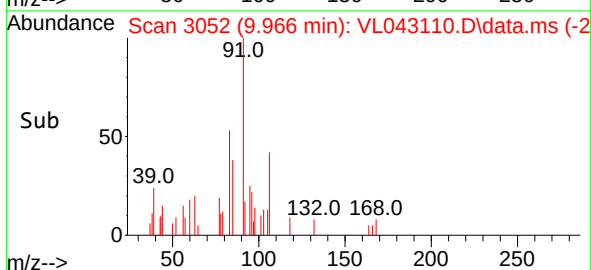
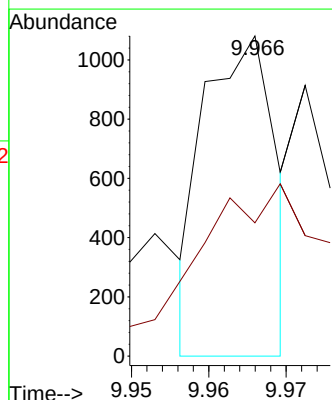
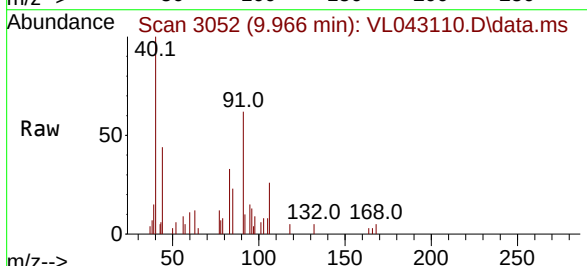
Acq: 14 Oct 2025 13:42

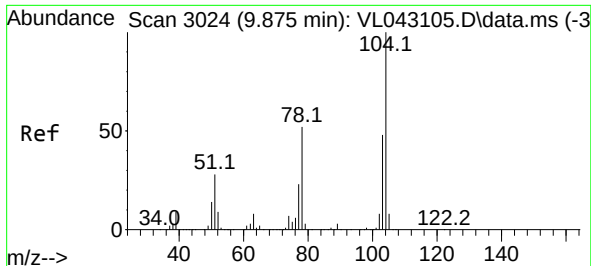
Tgt Ion: 91 Resp: 693

Ion Ratio Lower Upper

91 100

106 0.0 21.9 65.8#

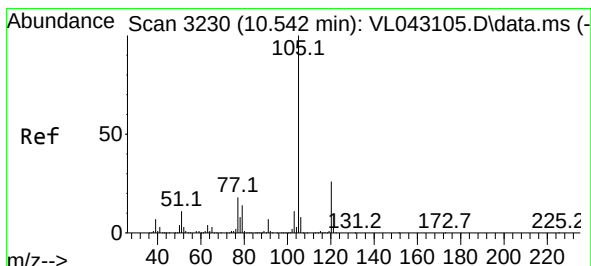
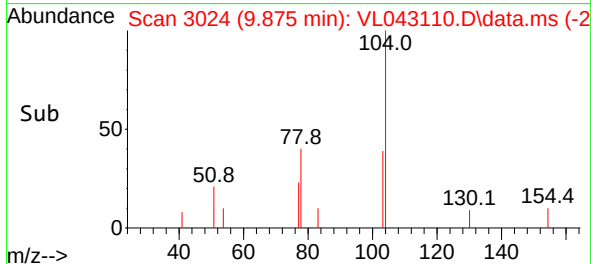
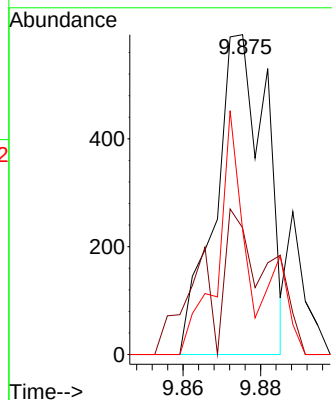
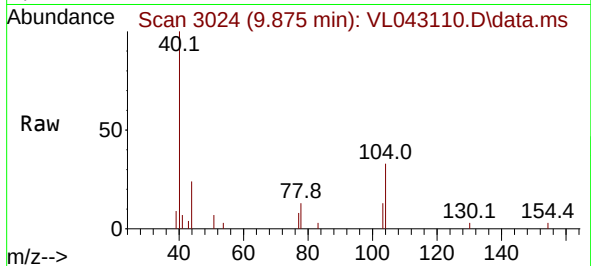




#61  
Styrene  
Concen: 0.030 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

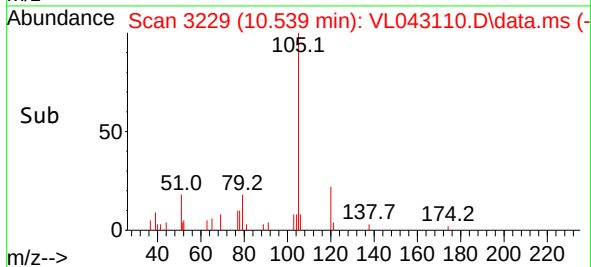
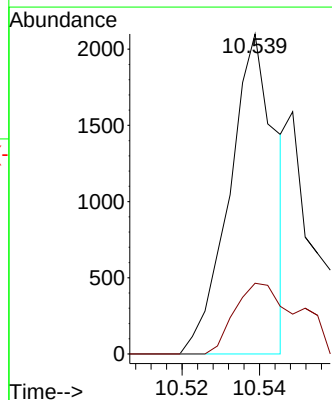
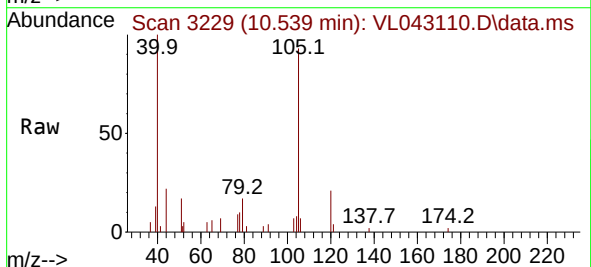
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

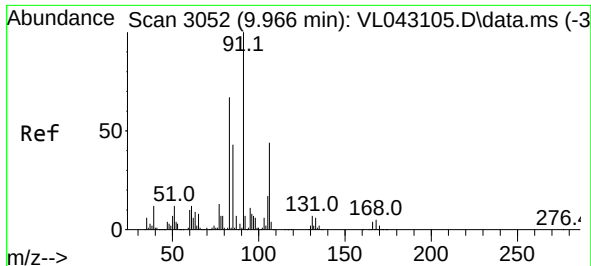
Tgt Ion:104 Resp: 538  
Ion Ratio Lower Upper  
104 100  
78 61.7 40.2 60.2#  
103 50.9 36.9 55.3



#62  
Isopropylbenzene  
Concen: 0.024 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 1735  
Ion Ratio Lower Upper  
105 100  
120 30.3 20.2 30.4

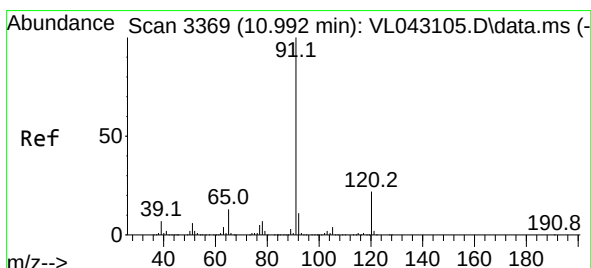
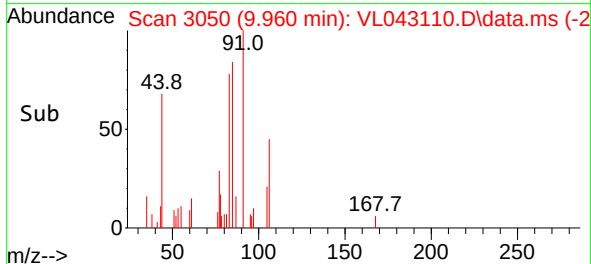
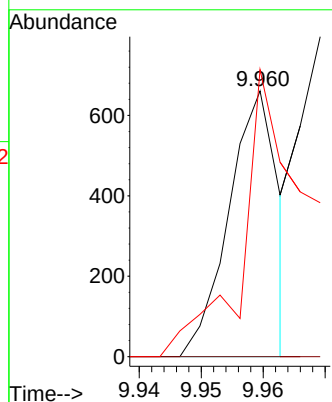
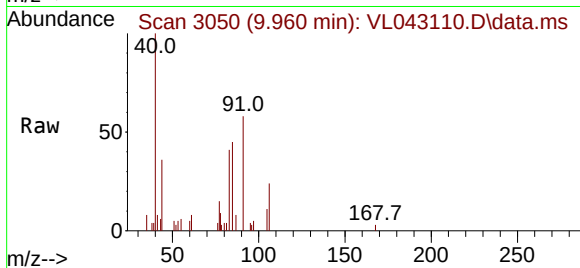




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.014 ppbv  
RT: 9.960 min Scan# 3052  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

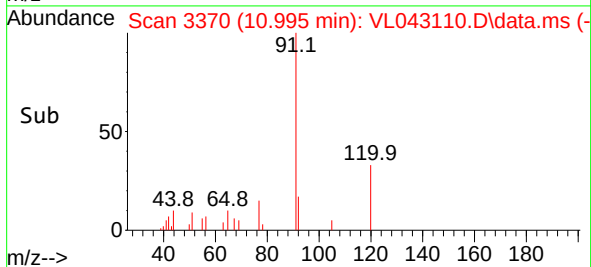
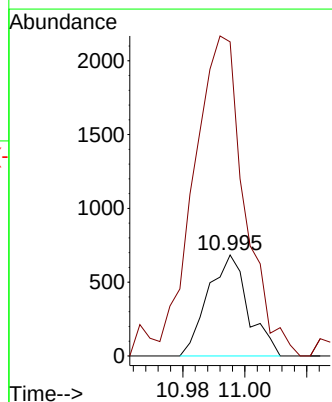
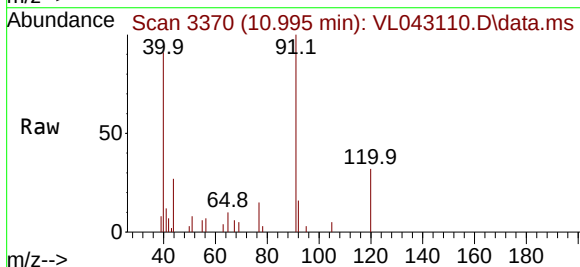
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC0.03

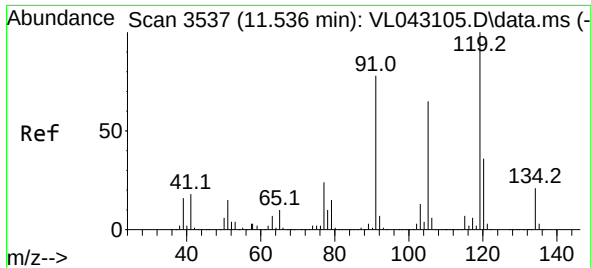
Tgt Ion: 83 Resp: 369  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3#  
85 181.6 32.0 96.0#



#64  
n-propylbenzene  
Concen: 0.033 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 120 Resp: 616  
Ion Ratio Lower Upper  
120 100  
91 432.5 361.6 542.4

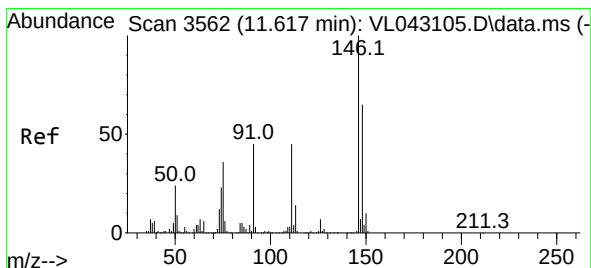
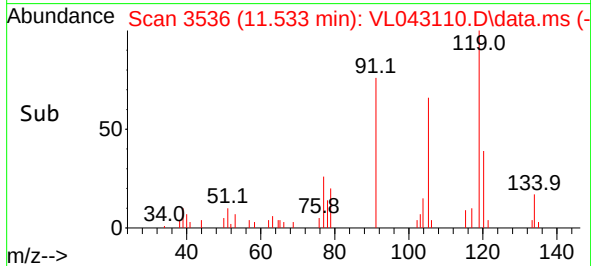
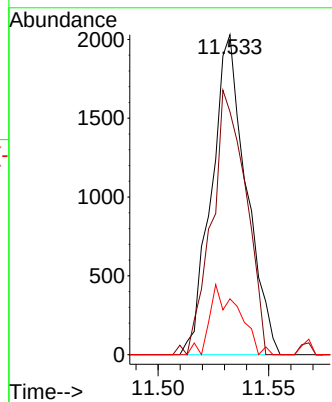
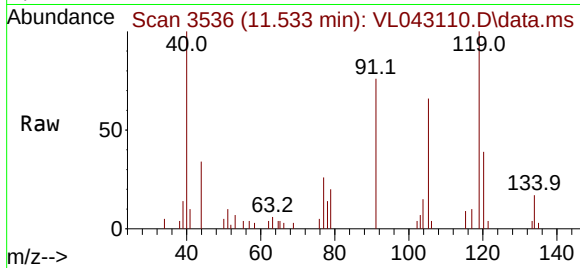




#65  
tert-Butylbenzene  
Concen: 0.035 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

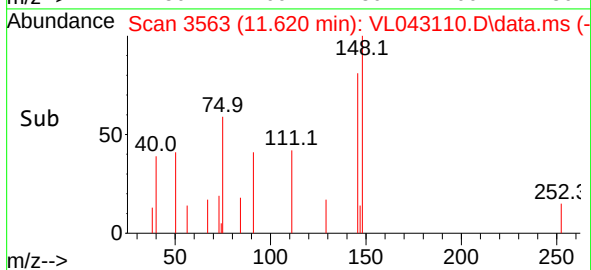
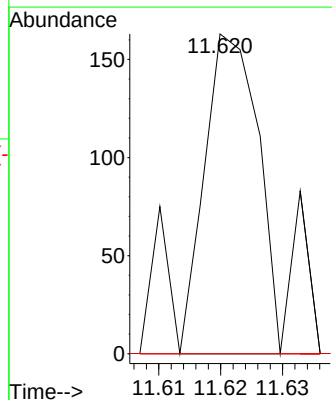
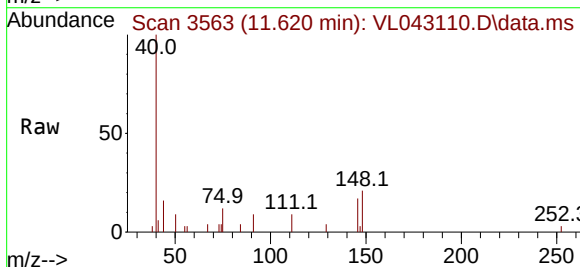
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

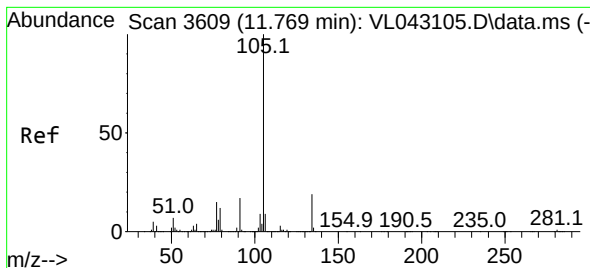
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 2219  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 82.6  | 63.4  | 95.0  |
| 134      | 18.3  | 17.3  | 25.9  |



#66  
Benzyl Chloride  
Concen: 0.014 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 98    |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 0.0   | 14.6  | 22.0# |
| 128      | 0.0   | 4.6   | 6.8#  |

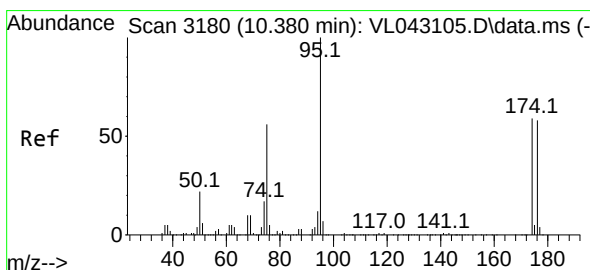
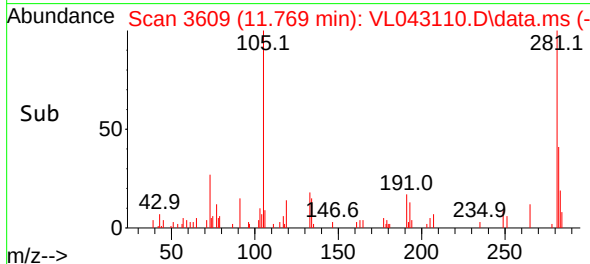
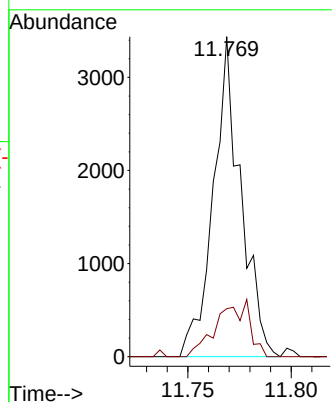
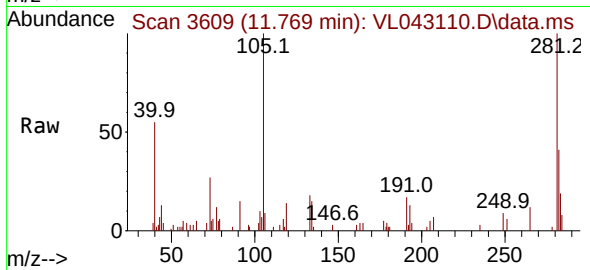




#67  
sec-Butylbenzene  
Concen: 0.035 ppbv  
RT: 11.769 min Scan# 3170  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

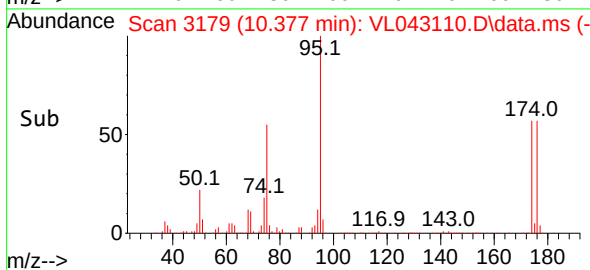
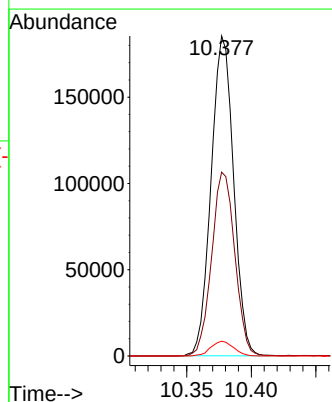
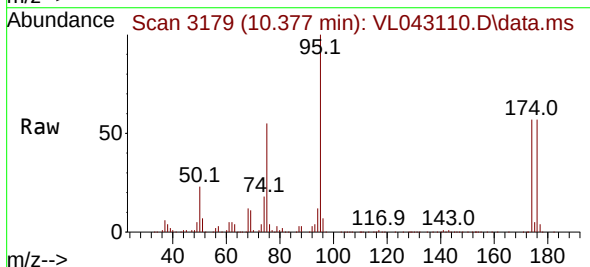
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

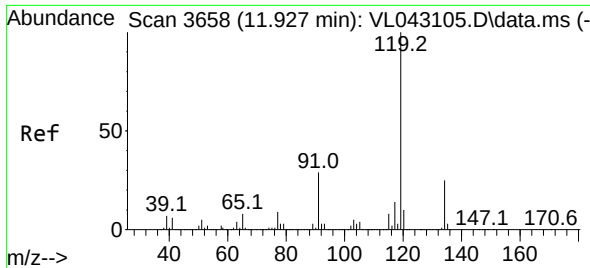
Tgt Ion:105 Resp: 3170  
Ion Ratio Lower Upper  
105 100  
134 21.1 15.5 23.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.841 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 95 Resp: 224043  
Ion Ratio Lower Upper  
95 100  
174 59.2 48.3 72.5  
175 4.7 3.8 5.8

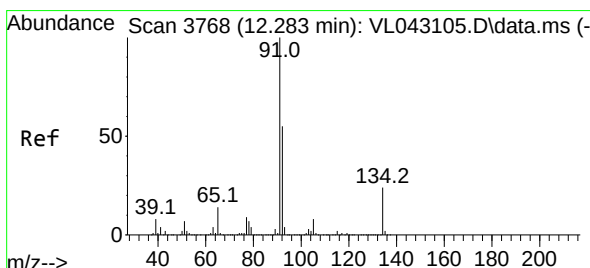
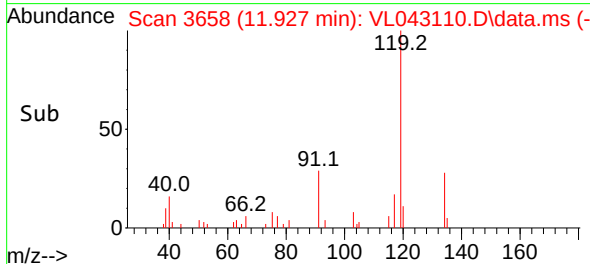
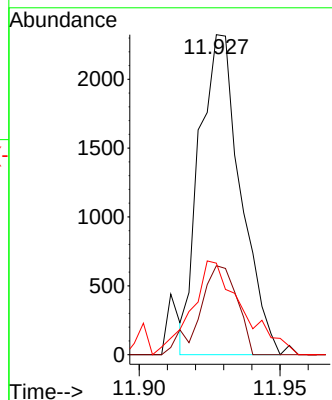
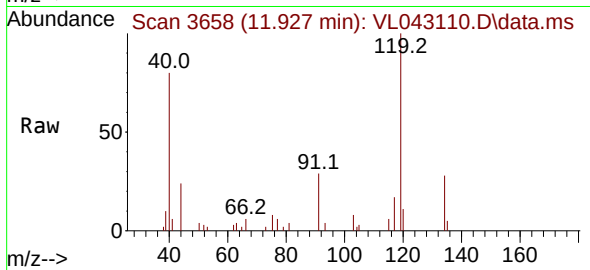




#69  
 p-Isopropyltoluene  
 Concen: 0.031 ppbv  
 RT: 11.927 min Scan# 3770  
 Delta R.T. -0.000 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

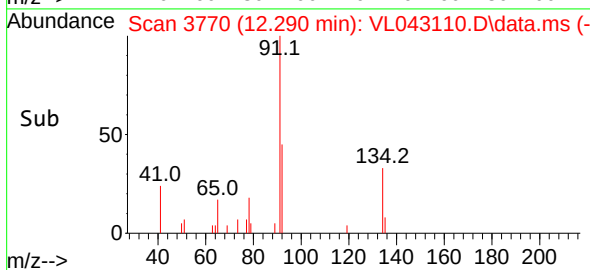
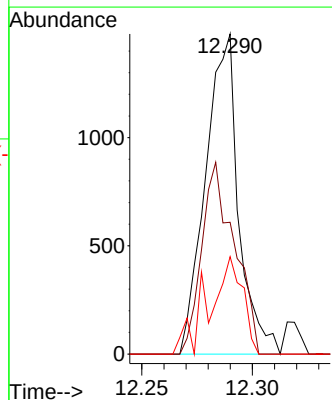
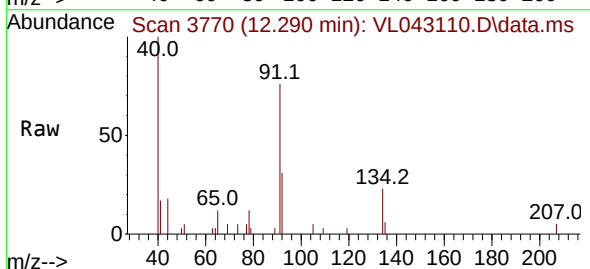
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

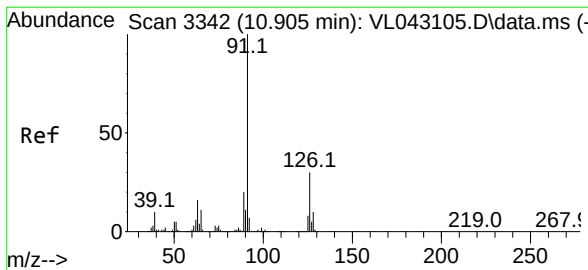
Tgt Ion: 119 Resp: 2370  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 20.3 30.5  
 91 38.4 22.6 33.8#



#70  
 n-Butylbenzene  
 Concen: 0.020 ppbv  
 RT: 12.290 min Scan# 3770  
 Delta R.T. 0.006 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

Tgt Ion: 91 Resp: 1534  
 Ion Ratio Lower Upper  
 91 100  
 92 59.6 44.5 66.7  
 134 31.5 19.3 28.9#

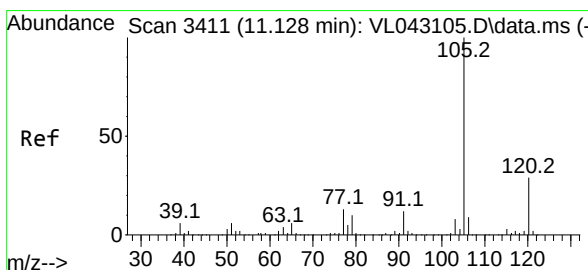
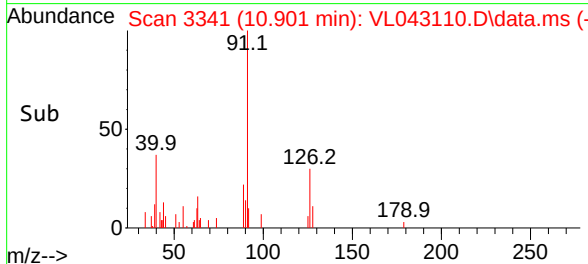
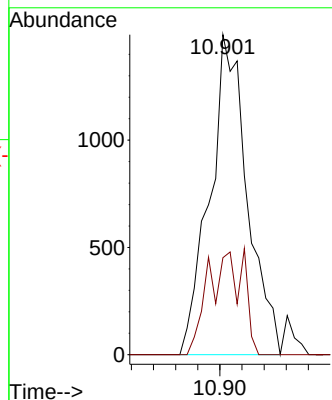
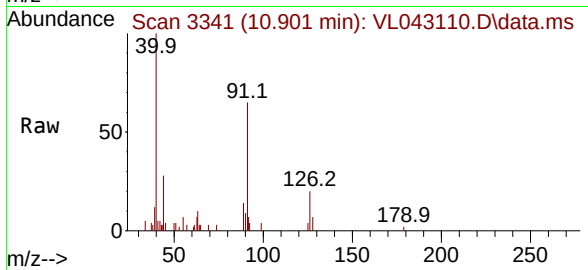




#71  
2-Chlorotoluene  
Concen: 0.032 ppbv  
RT: 10.901 min Scan# 311  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

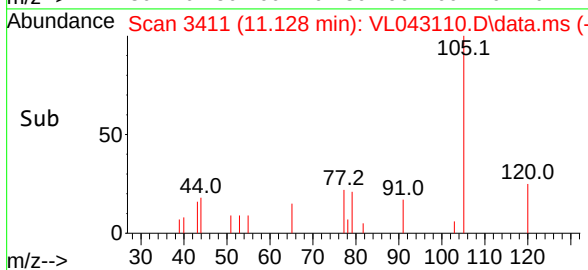
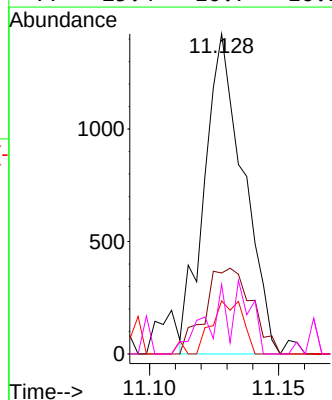
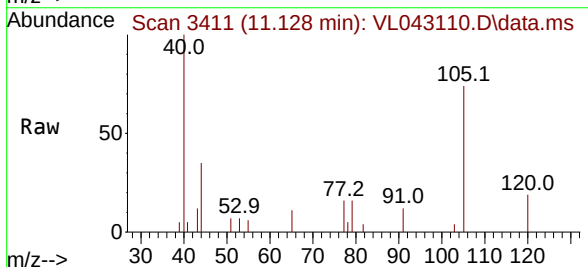
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

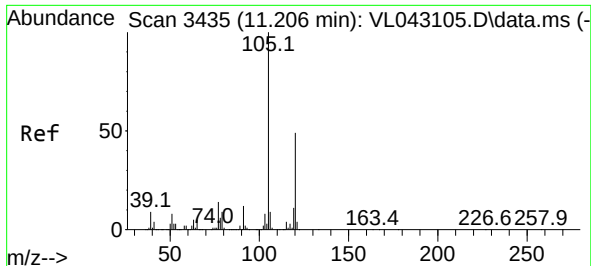
Tgt Ion: 91 Resp: 1757  
Ion Ratio Lower Upper  
91 100  
126 30.1 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 0.031 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion: 105 Resp: 1502  
Ion Ratio Lower Upper  
105 100  
120 32.0 24.2 36.4  
91 13.9 10.0 15.0  
77 25.4 10.7 16.1#

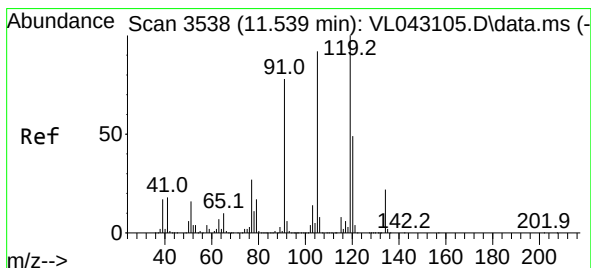
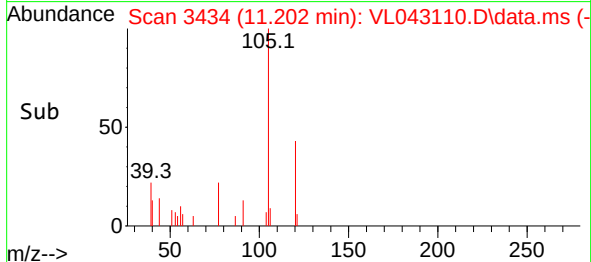
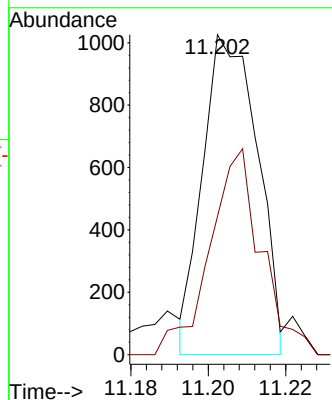
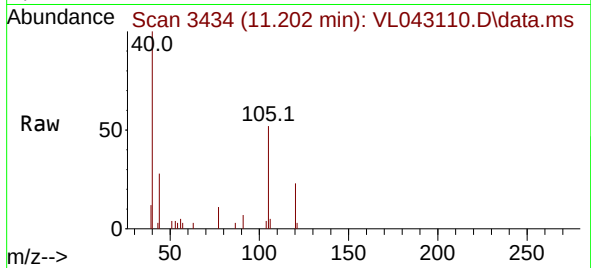




#73  
1,3,5-Trimethylbenzene  
Concen: 0.025 ppbv  
RT: 11.202 min Scan# 3435  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

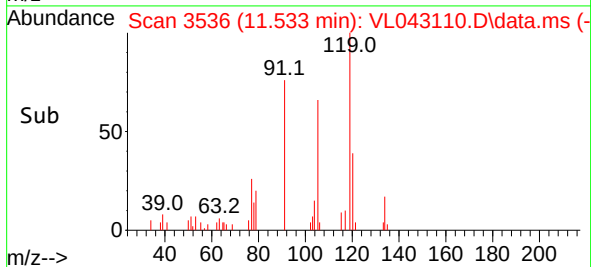
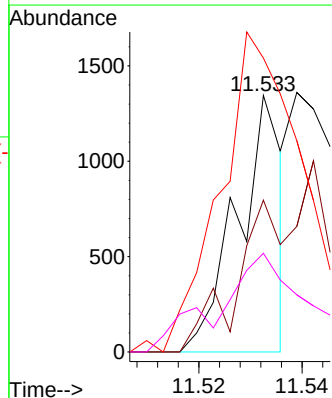
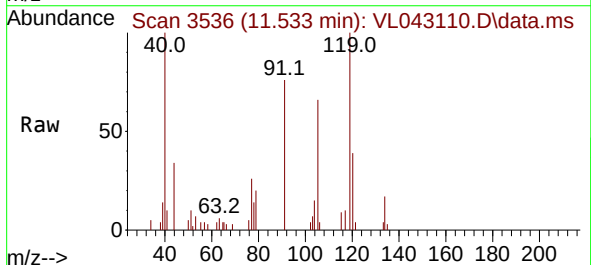
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

Tgt Ion:105 Resp: 1005  
Ion Ratio Lower Upper  
105 100  
120 37.2 39.0 58.6#

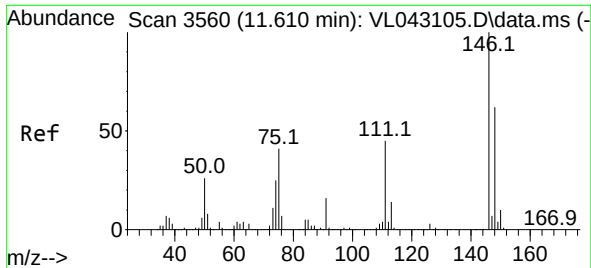


#74  
1,2,4-Trimethylbenzene  
Concen: 0.018 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. -0.007 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion:105 Resp: 806  
Ion Ratio Lower Upper  
105 100  
120 59.2 42.8 64.2  
91 98.1 68.3 102.5  
77 23.7 23.4 35.0



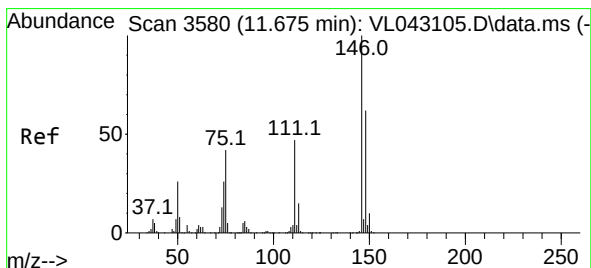
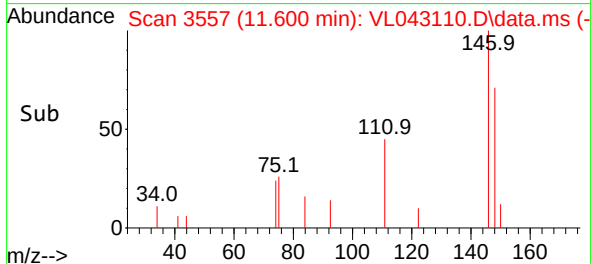
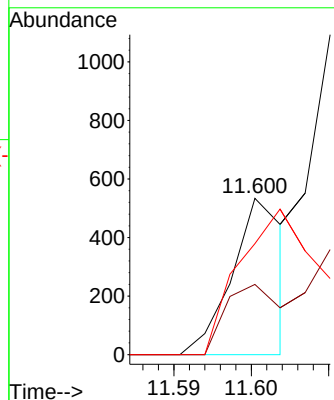
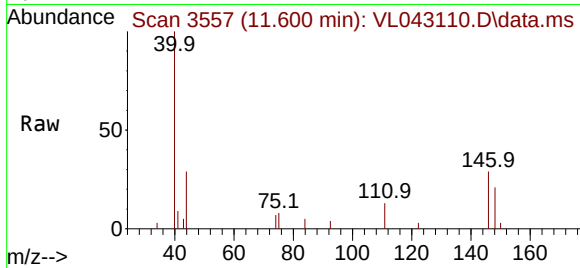




#75  
1,3-Dichlorobenzene  
Concen: 0.010 ppbv  
RT: 11.600 min Scan# 3557  
Delta R.T. -0.010 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

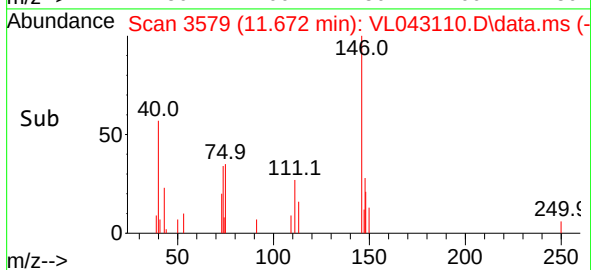
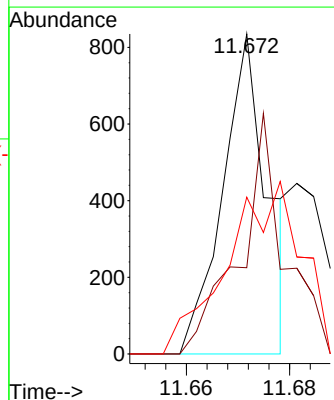
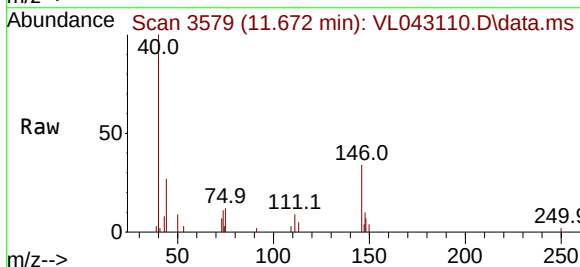
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

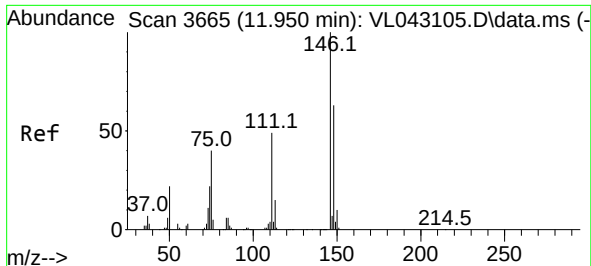
Tgt Ion:146 Resp: 251  
Ion Ratio Lower Upper  
146 100  
111 0.0 23.3 69.9#  
148 222.3 31.6 95.0#



#76  
1,4-Dichlorobenzene  
Concen: 0.019 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion:146 Resp: 504  
Ion Ratio Lower Upper  
146 100  
111 0.0 22.4 67.0#  
148 0.0 31.6 94.7#

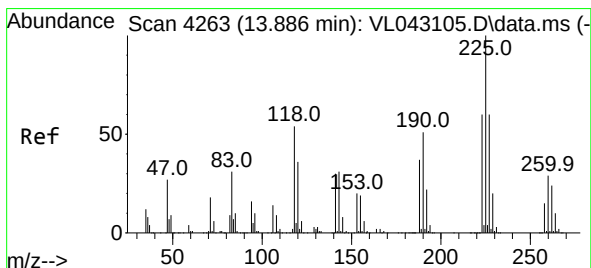
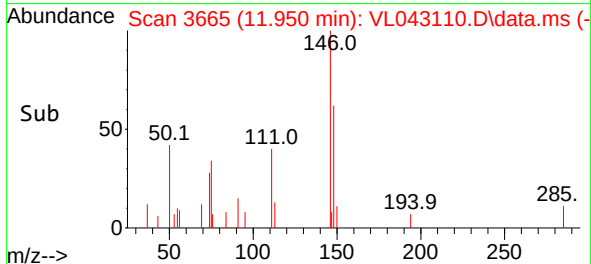
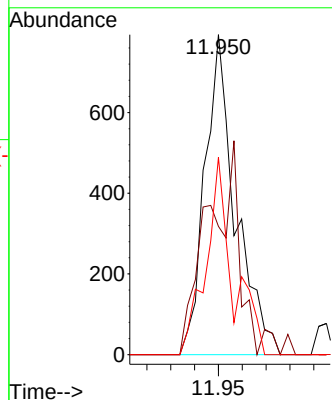
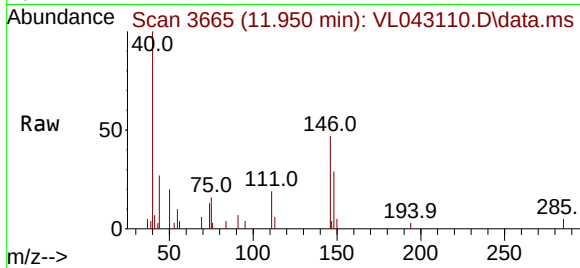




#77  
1,2-Dichlorobenzene  
Concen: 0.028 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

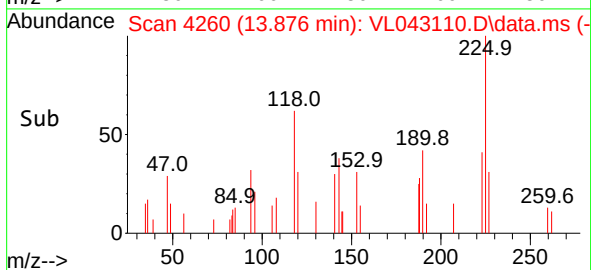
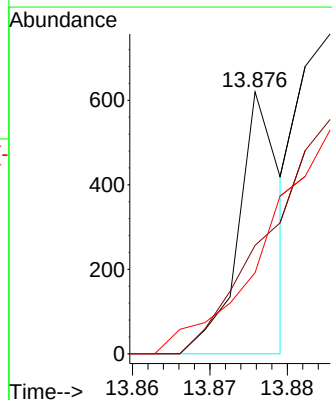
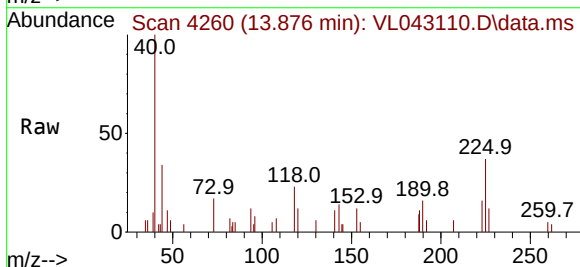
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

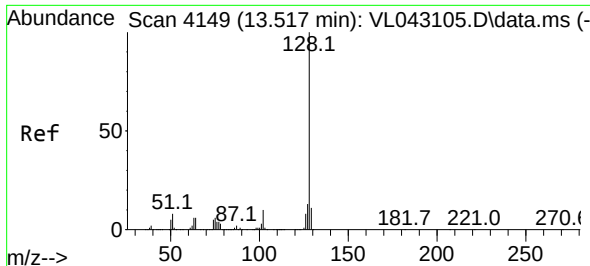
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 709   |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 71.2  | 24.0  | 72.0  |
| 148      | 53.5  | 31.1  | 93.3  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.012 ppbv  
RT: 13.876 min Scan# 4260  
Delta R.T. -0.010 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 239   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 50.2  | 75.4# |
| 227      | 0.0   | 49.6  | 74.4# |

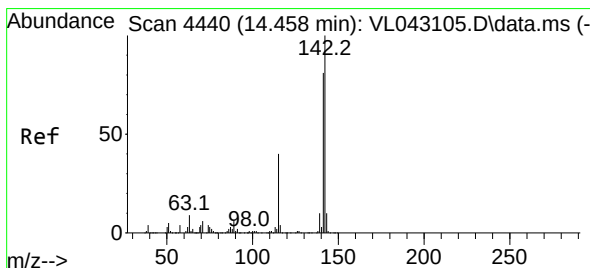
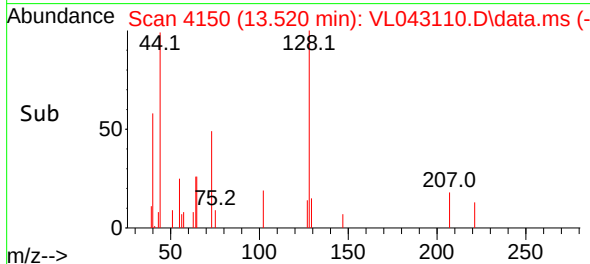
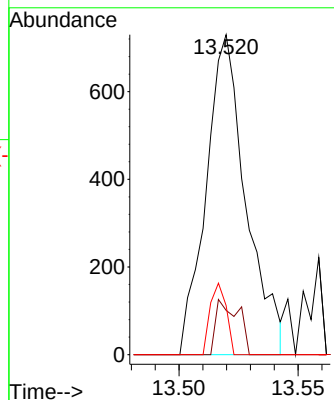
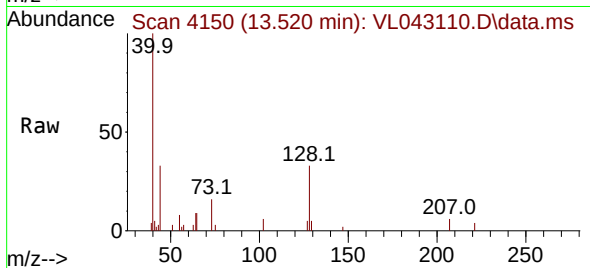




#79  
Naphthalene  
Concen: 0.018 ppbv  
RT: 13.520 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

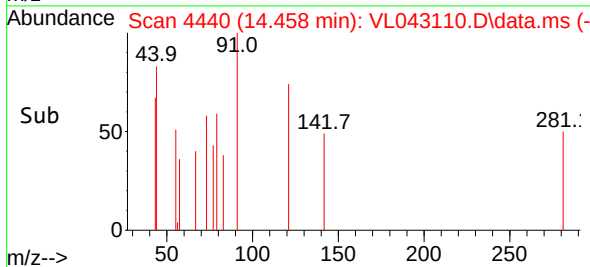
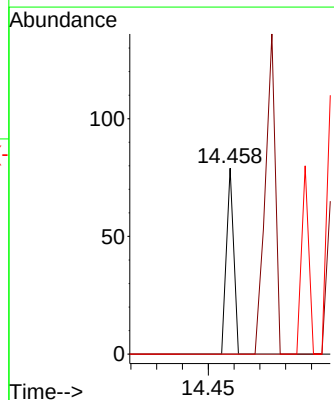
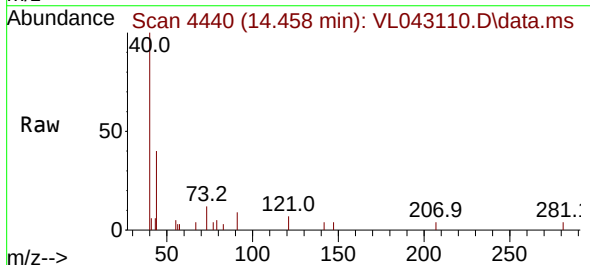
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

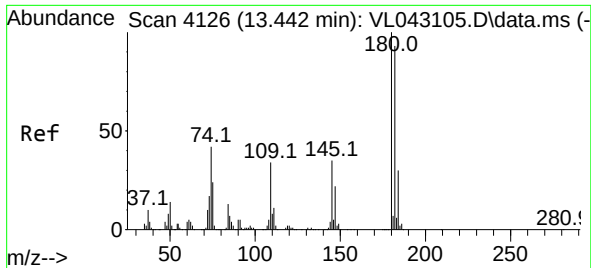
Tgt Ion:128 Resp: 851  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.5 15.7  
129 15.3 9.1 13.7#



#80  
Naphthalene,2-methyl-  
Concen: 0.001 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

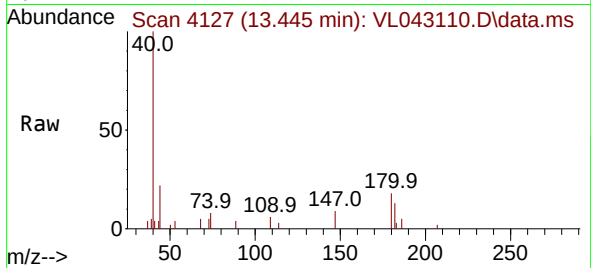
Tgt Ion:142 Resp: 15  
Ion Ratio Lower Upper  
142 100  
141 546.7 64.6 97.0#  
115 340.0 30.2 45.4#



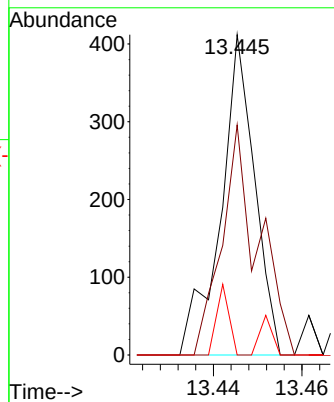
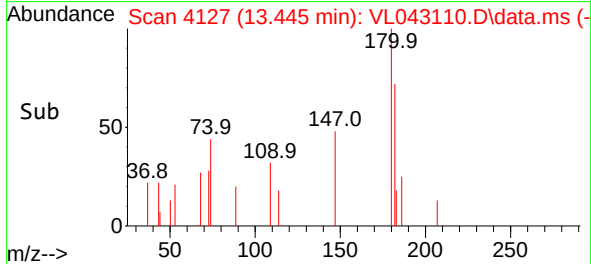


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.011 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL043110.D  
 Acq: 14 Oct 2025 13:42

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 76.7  | 75.5  | 113.3 |
| 184     | 12.8  | 23.9  | 35.9  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043111.D  
 Acq On : 14 Oct 2025 14:18  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Oct 15 01:55:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 100858   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 321665   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 292542   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 233522 10.270 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

#### Target Compounds

|                               |       |     |        |        | Qvalue |     |
|-------------------------------|-------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 193353 | 13.485 | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 205650 | 13.255 | ppbv   | 98  |
| 4) Chloromethane              | 1.534 | 50  | 72111  | 12.695 | ppbv   | 98  |
| 5) Vinyl Chloride             | 1.583 | 62  | 69909  | 12.548 | ppbv   | 99  |
| 6) Bromomethane               | 1.670 | 94  | 39756  | 13.013 | ppbv   | 98  |
| 7) Chloroethane               | 1.706 | 64  | 27709  | 12.164 | ppbv   | 95  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 156753 | 13.526 | ppbv   | 100 |
| 9) Propene                    | 1.486 | 41  | 88451  | 12.854 | ppbv   | 98  |
| 10) Heptane                   | 4.985 | 43  | 249682 | 12.658 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 191307 | 13.640 | ppbv   | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 150640 | 13.341 | ppbv   | 98  |
| 13) Ethanol                   | 1.722 | 45  | 25828  | 10.148 | ppbv   | 98  |
| 14) Bromoethene               | 1.784 | 108 | 54818  | 13.068 | ppbv   | 99  |
| 15) Acetone                   | 1.835 | 43  | 160069 | 11.710 | ppbv   | 100 |
| 16) 1,3-Butadiene             | 1.612 | 39  | 80403  | 12.411 | ppbv   | 98  |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 237633 | 12.735 | ppbv   | 99  |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 65634  | 13.333 | ppbv   | 98  |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 102035 | 12.051 | ppbv   | 98  |
| 20) Methylene Chloride        | 2.065 | 84  | 60549  | 11.268 | ppbv   | 90  |
| 21) Allyl Chloride            | 2.097 | 41  | 131539 | 13.105 | ppbv   | 95  |
| 22) trans-1,2-Dichloroethene  | 2.343 | 96  | 76780  | 13.048 | ppbv   | 97  |
| 23) Vinyl Acetate             | 2.463 | 43  | 288274 | 14.476 | ppbv   | 98  |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 152663 | 13.428 | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.835 | 43  | 434350 | 12.884 | ppbv   | 100 |
| 26) Hexane                    | 2.829 | 57  | 199384 | 12.836 | ppbv   | 98  |
| 27) Carbon Disulfide          | 2.152 | 76  | 192452 | 13.522 | ppbv   | 100 |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 96464  | 13.650 | ppbv   | 94  |
| 29) Chloroform                | 2.852 | 83  | 302154 | 13.425 | ppbv   | 98  |
| 30) Cyclohexane               | 3.858 | 84  | 177947 | 13.133 | ppbv   | 95  |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 203888 | 13.745 | ppbv   | 97  |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 316442 | 13.500 | ppbv   | 99  |
| 34) 2-Butanone                | 2.557 | 43  | 283134 | 13.020 | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 325078 | 14.056 | ppbv   | 98  |
| 36) Benzene                   | 3.661 | 78  | 415823 | 13.725 | ppbv   | 99  |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 241983 | 13.865 | ppbv   | 98  |
| 38) Trichloroethene           | 4.551 | 130 | 159136 | 12.590 | ppbv   | 97  |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 147155 | 13.274 | ppbv   | 95  |
| 40) 1,4-Dioxane               | 4.580 | 88  | 65323  | 13.180 | ppbv # | 94  |
| 41) Tetrahydrofuran           | 3.052 | 42  | 160247 | 13.200 | ppbv   | 99  |
| 42) Bromodichloromethane      | 4.493 | 83  | 343817 | 14.234 | ppbv   | 99  |
| 43) Methyl Methacrylate       | 4.881 | 69  | 210756 | 13.633 | ppbv   | 98  |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 675770 | 13.340 | ppbv   | 99  |
| 45) t-1,3-Dichloropropene     | 6.418 | 75  | 218386 | 14.142 | ppbv   | 97  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043111.D  
 Acq On : 14 Oct 2025 14:18  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

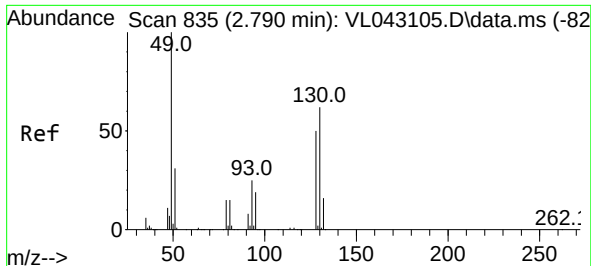
Quant Time: Oct 15 01:55:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 258355   | 14.018 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 163113   | 13.638 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.393  | 129  | 280993   | 14.051 | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 230561   | 14.184 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 401849   | 13.396 | ppbv   | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 317288   | 14.176 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.231  | 164  | 143954   | 13.177 | ppbv   | 98       |
| 53) Toluene                   | 6.936  | 91   | 483870   | 13.457 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 254024   | 13.461 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 250303   | 13.573 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.927  | 112  | 355301   | 12.983 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 676918   | 13.375 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.535  | 91   | 626074   | 15.622 | ppbv # | 29       |
| 60) o-Xylene                  | 9.966  | 91   | 516660   | 13.063 | ppbv   | 99       |
| 61) Styrene                   | 9.875  | 104  | 247585   | 13.867 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 931508   | 13.034 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 331423   | 12.515 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 241719   | 12.775 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 788234   | 12.490 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.620 | 91   | 97114    | 13.778 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1125489  | 12.566 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 959206   | 12.602 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 973466   | 12.979 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 721827   | 13.242 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 647315   | 13.310 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 534006   | 13.314 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 560932   | 12.498 | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 339203   | 13.031 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 341936   | 13.027 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 318800   | 12.660 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 226294   | 11.606 | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 661098   | 14.260 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 212784   | 17.384 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 266712   | 13.698 | ppbv   | 100      |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC015

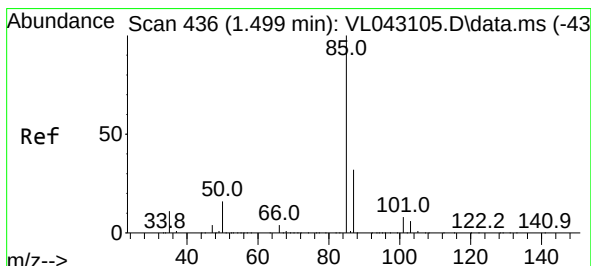
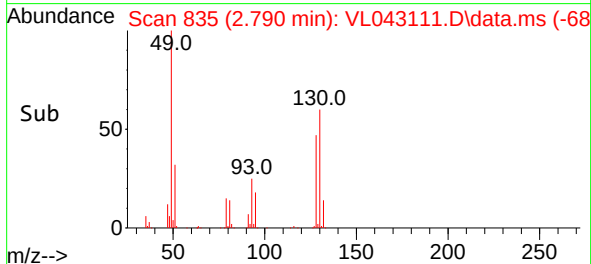
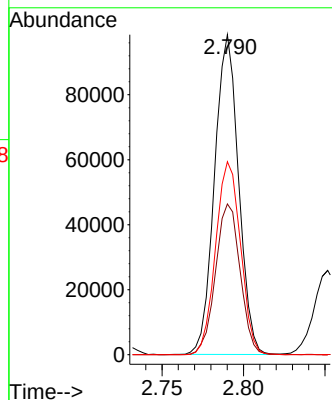
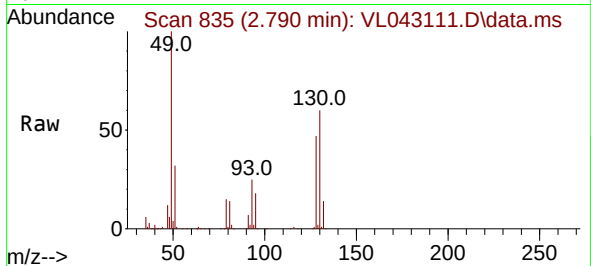
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- 2
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- 17
- 18



#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

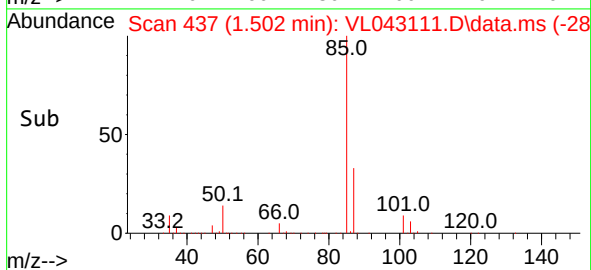
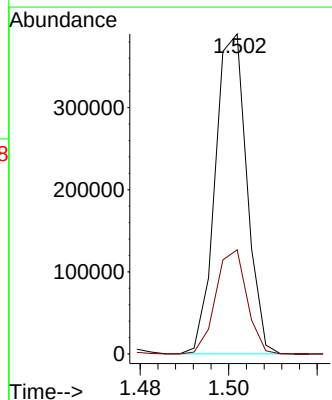
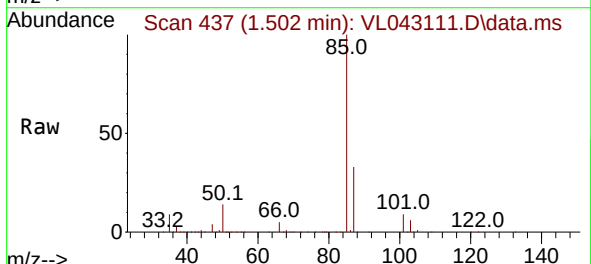
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 49 Resp: 100858  
Ion Ratio Lower Upper  
49 100  
128 48.4 24.4 73.4  
130 62.4 31.0 93.0

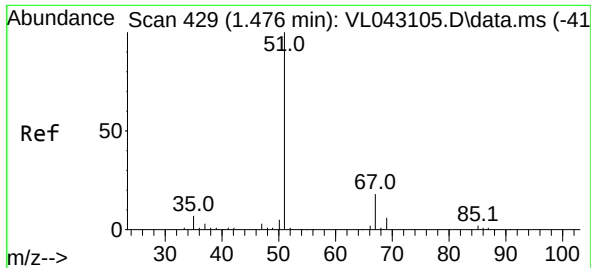


#2  
Dichlorodifluoromethane  
Concen: 13.485 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 193353  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.3 37.9



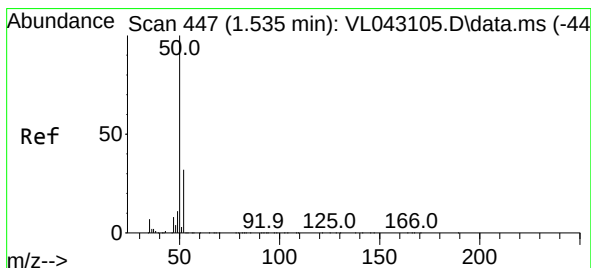
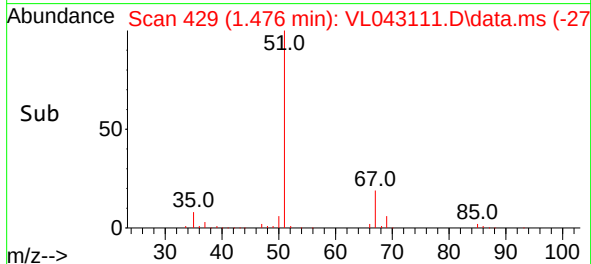
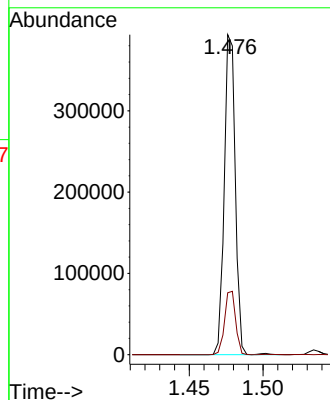
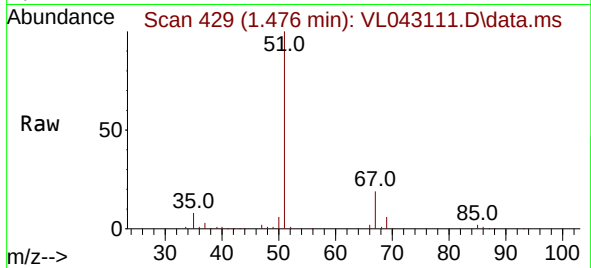




#3  
Chlorodifluoromethane  
Concen: 13.255 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

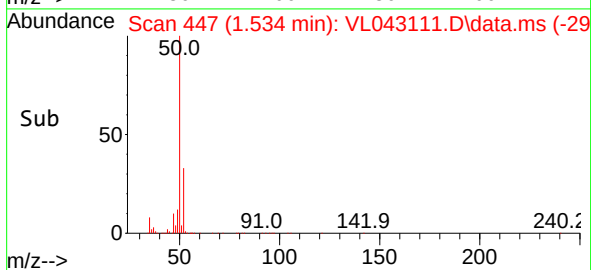
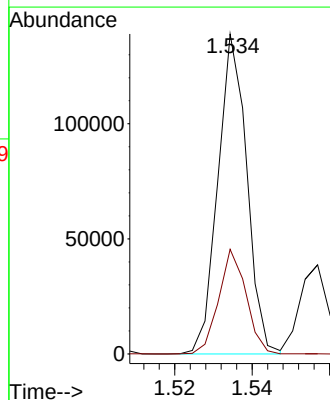
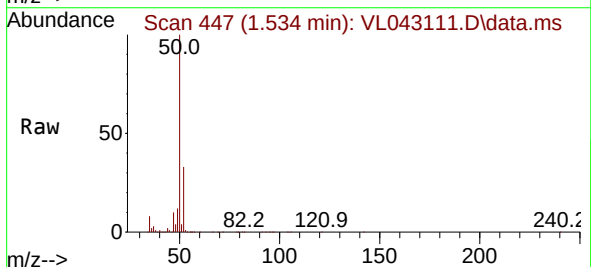
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

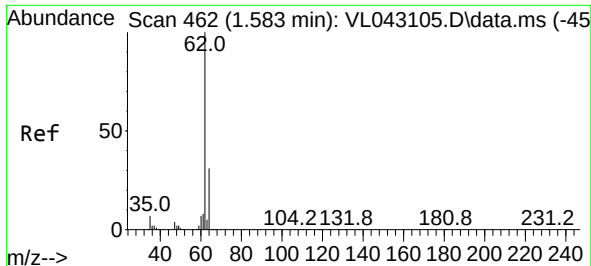
Tgt Ion: 51 Resp: 205650  
Ion Ratio Lower Upper  
51 100  
67 20.0 15.1 22.7



#4  
Chloromethane  
Concen: 12.695 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 50 Resp: 72111  
Ion Ratio Lower Upper  
50 100  
52 32.7 25.2 37.8

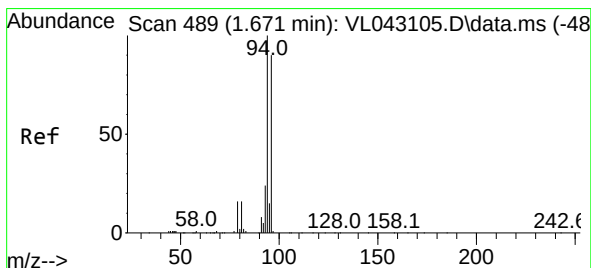
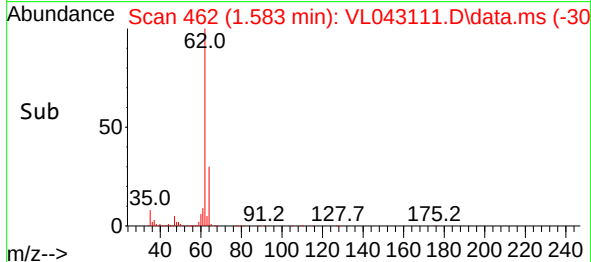
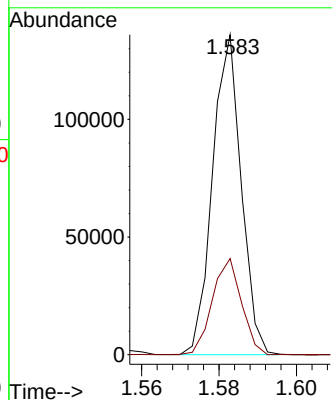
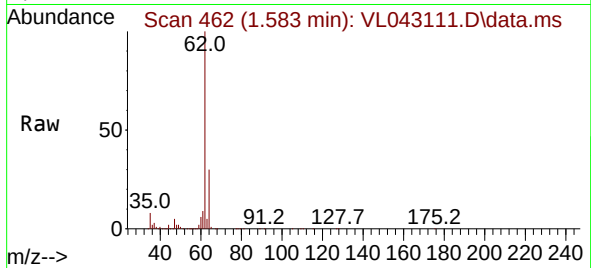




#5  
 Vinyl Chloride  
 Concen: 12.548 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

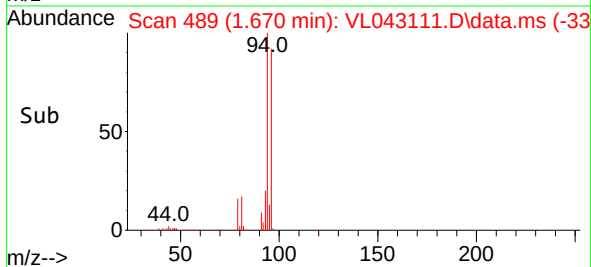
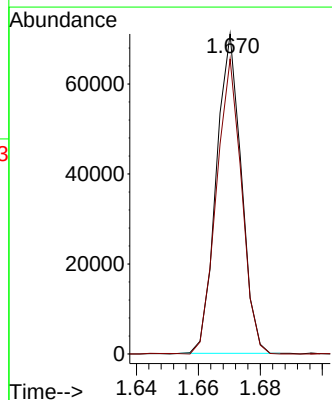
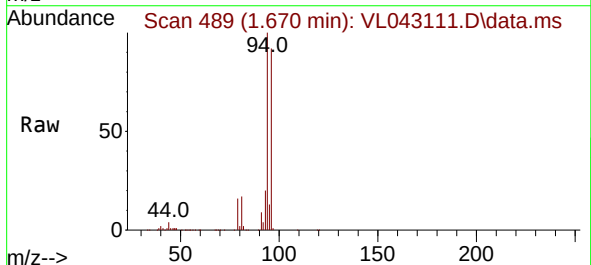
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

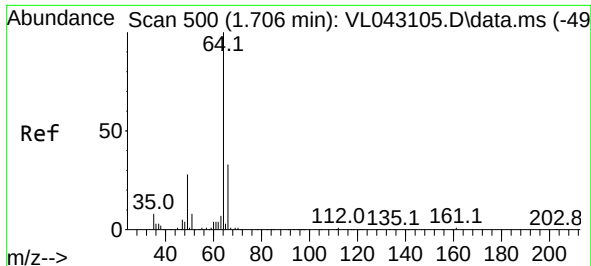
Tgt Ion: 62 Resp: 69909  
 Ion Ratio Lower Upper  
 62 100  
 64 30.0 24.6 36.8



#6  
 Bromomethane  
 Concen: 13.013 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Tgt Ion: 94 Resp: 39756  
 Ion Ratio Lower Upper  
 94 100  
 96 92.4 72.2 108.4

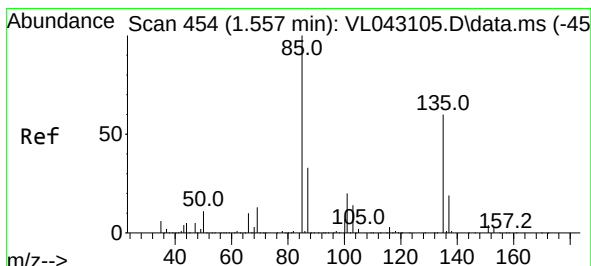
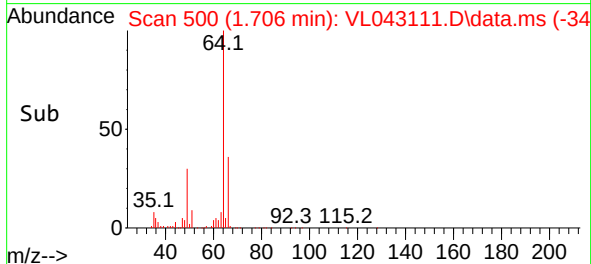
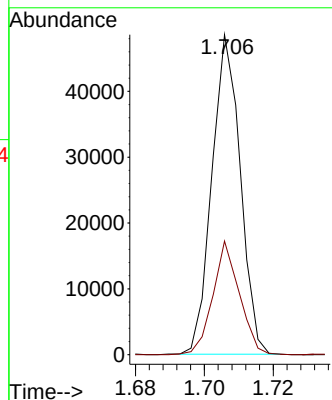
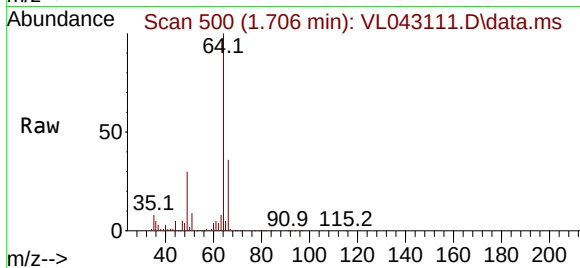




#7  
Chloroethane  
Concen: 12.164 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

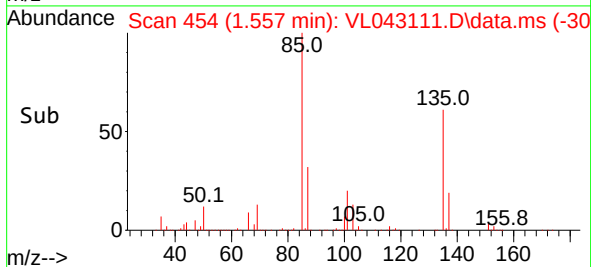
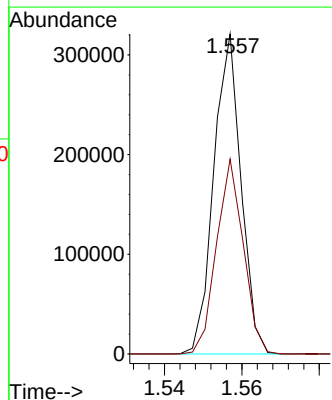
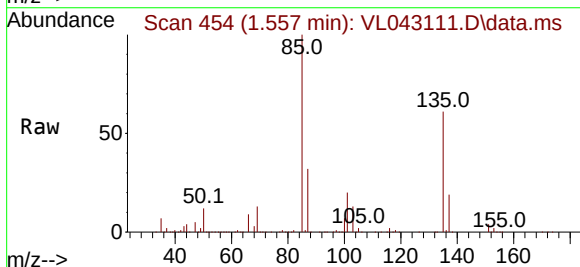
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

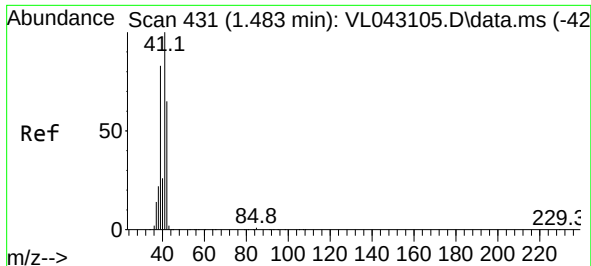
Tgt Ion: 64 Resp: 27709  
Ion Ratio Lower Upper  
64 100  
66 35.5 26.0 39.0



#8  
Dichlorotetrafluoroethane  
Concen: 13.526 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 85 Resp: 156753  
Ion Ratio Lower Upper  
85 100  
135 60.1 48.2 72.4





#9

Propene

Concen: 12.854 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_1

ClientSampleId :

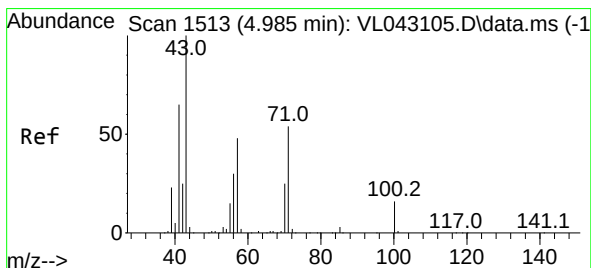
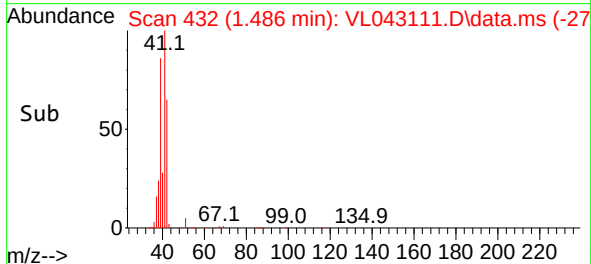
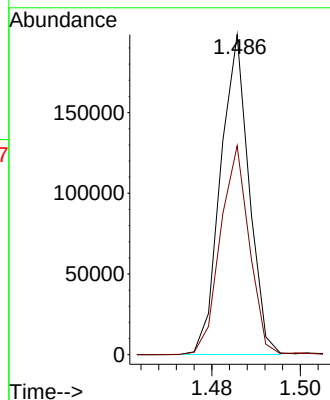
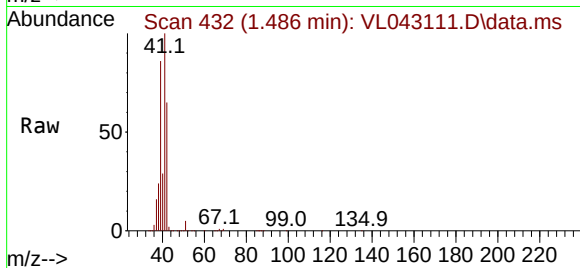
VSTDIC015

Tgt Ion: 41 Resp: 88451

Ion Ratio Lower Upper

41 100

42 67.2 55.1 82.7



#10

Heptane

Concen: 12.658 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043111.D

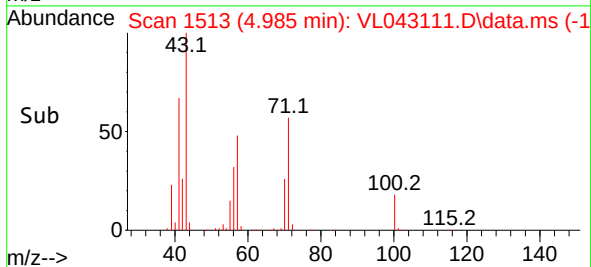
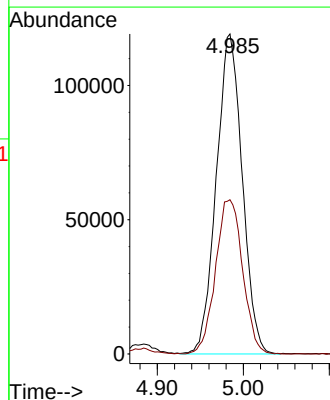
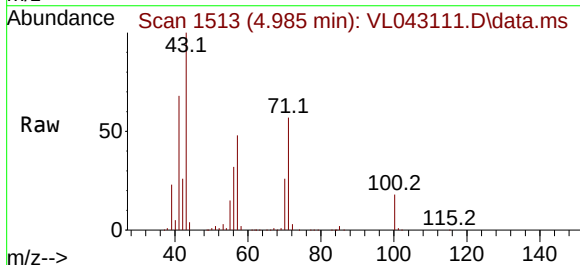
Acq: 14 Oct 2025 14:18

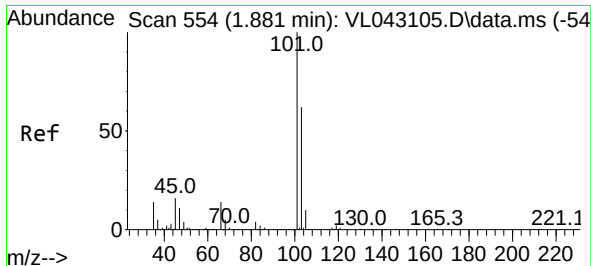
Tgt Ion: 43 Resp: 249682

Ion Ratio Lower Upper

43 100

57 50.3 40.8 61.2

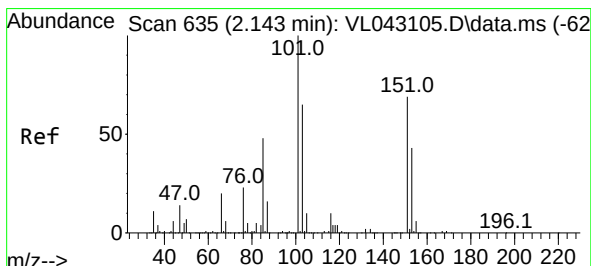
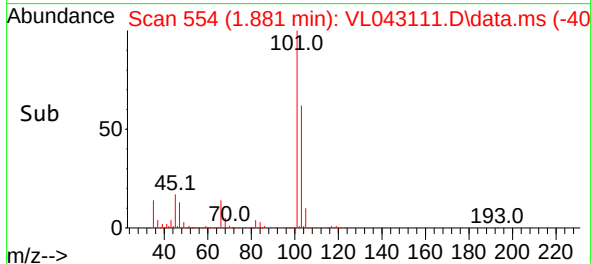
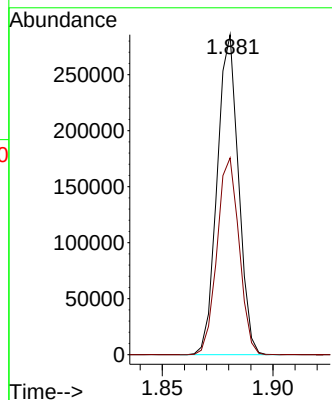
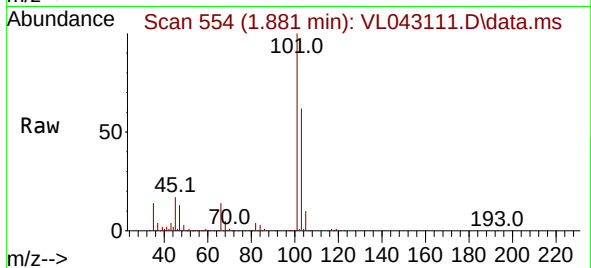




#11  
 Trichlorofluoromethane  
 Concen: 13.640 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

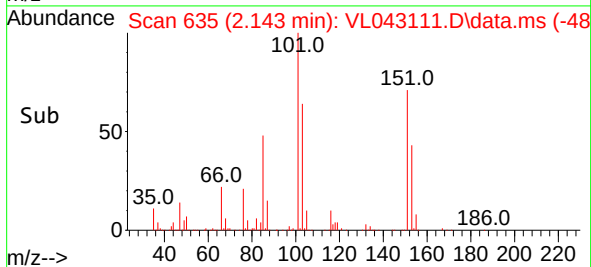
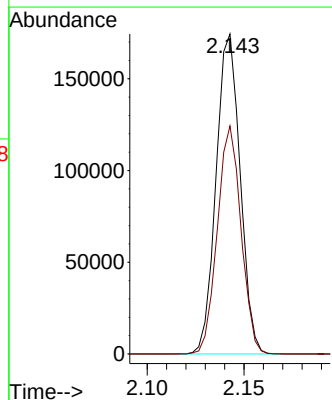
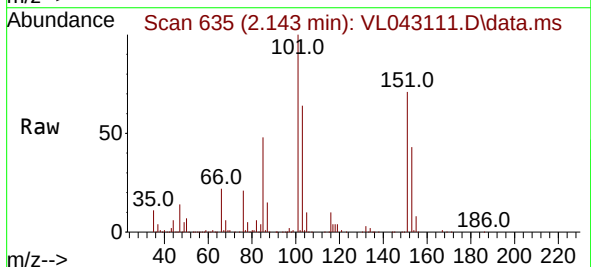
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

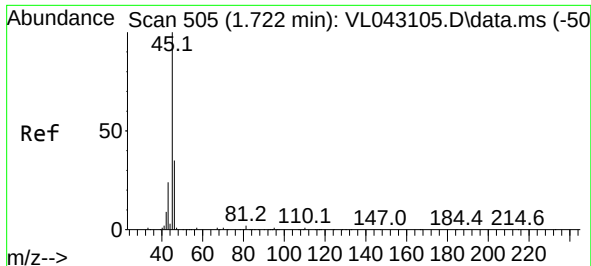
Tgt Ion:101 Resp: 191307  
 Ion Ratio Lower Upper  
 101 100  
 103 61.5 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 13.341 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Tgt Ion:101 Resp: 150640  
 Ion Ratio Lower Upper  
 101 100  
 151 70.0 54.7 82.1

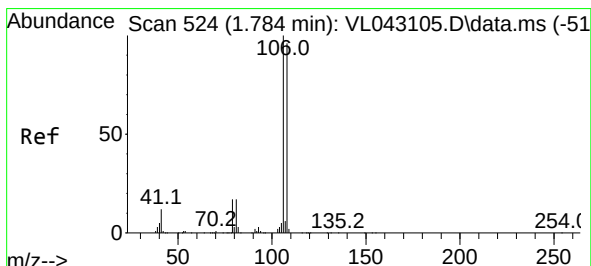
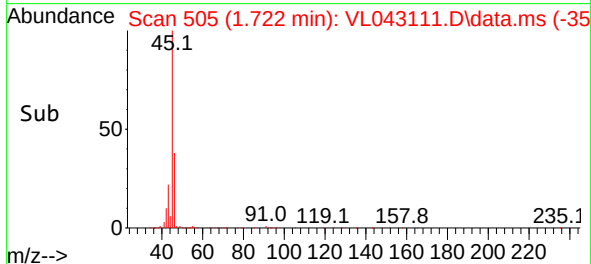
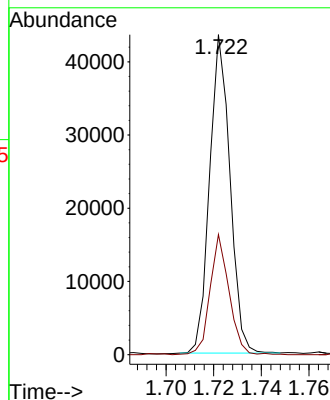
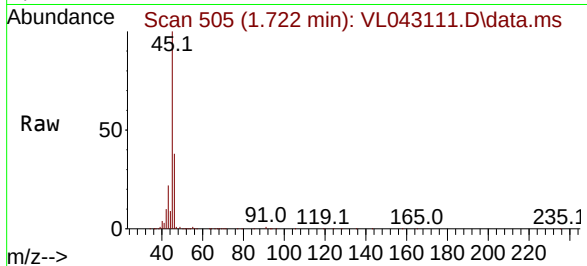




#13  
Ethanol  
Concen: 10.148 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

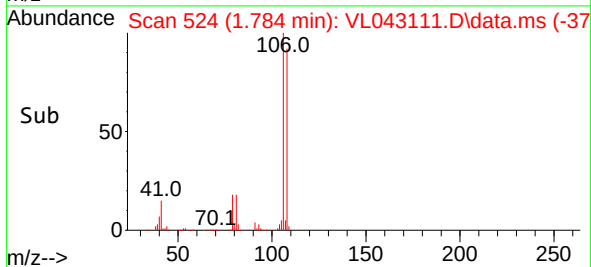
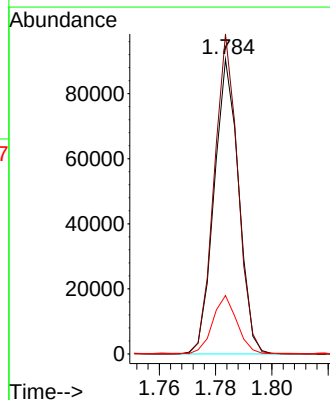
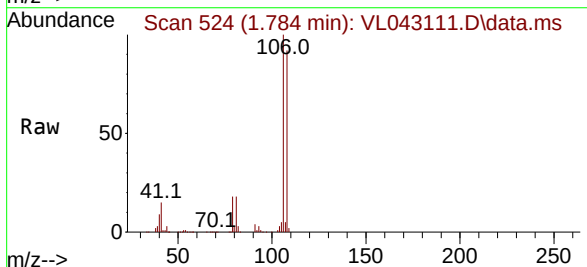
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

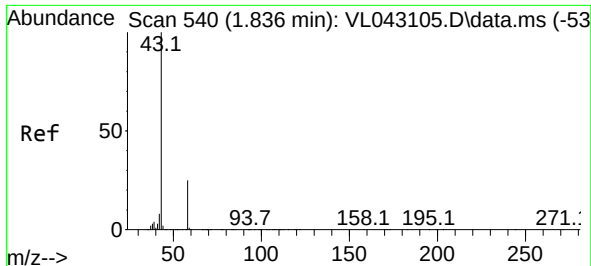
Tgt Ion: 45 Resp: 25828  
Ion Ratio Lower Upper  
45 100  
46 35.5 14.7 58.9



#14  
Bromoethene  
Concen: 13.068 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 108 Resp: 54818  
Ion Ratio Lower Upper  
108 100  
106 104.9 84.4 126.6  
79 20.2 15.3 22.9

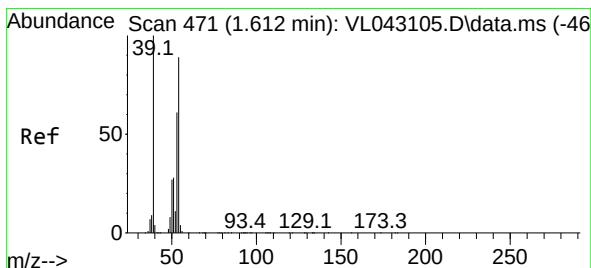
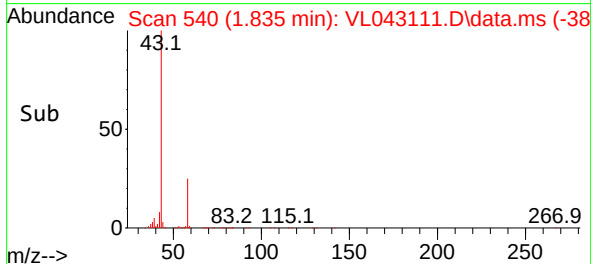
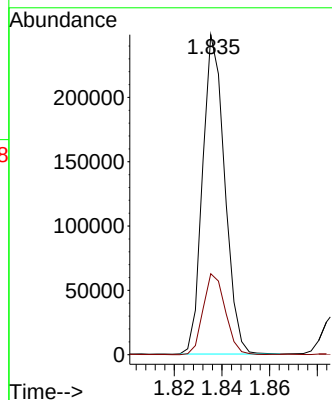
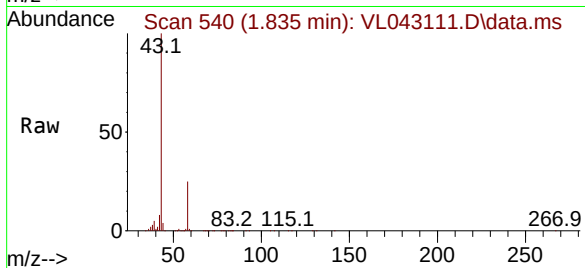




#15  
Acetone  
Concen: 11.710 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

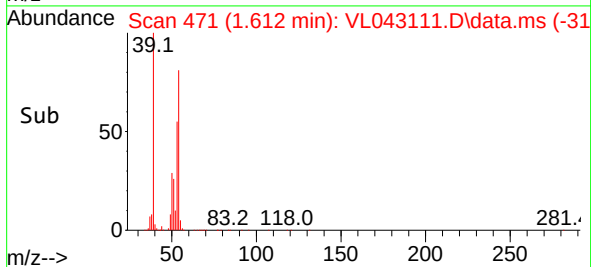
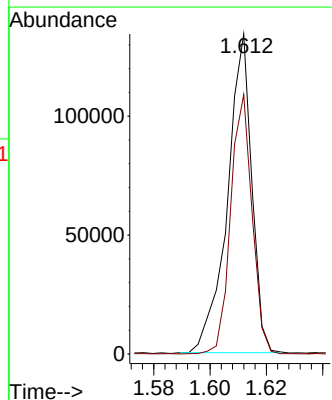
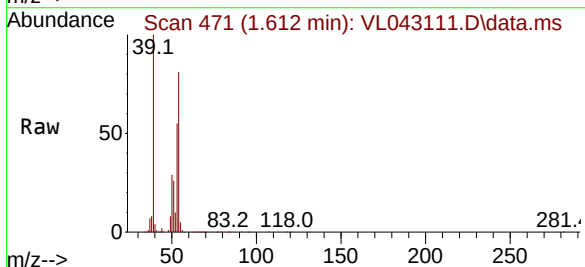
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

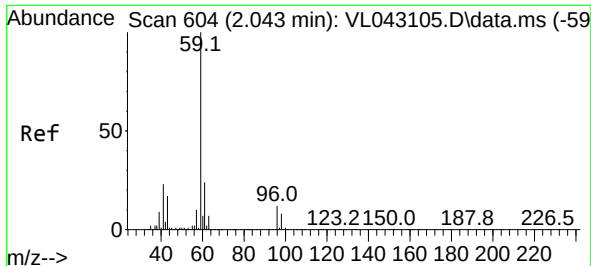
Tgt Ion: 43 Resp: 160069  
Ion Ratio Lower Upper  
43 100  
58 26.0 20.8 31.2



#16  
1,3-Butadiene  
Concen: 12.411 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 39 Resp: 80403  
Ion Ratio Lower Upper  
39 100  
54 71.8 59.0 88.4





#17

tert-Butyl alcohol

Concen: 12.735 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

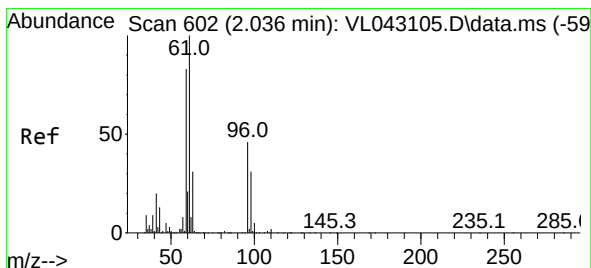
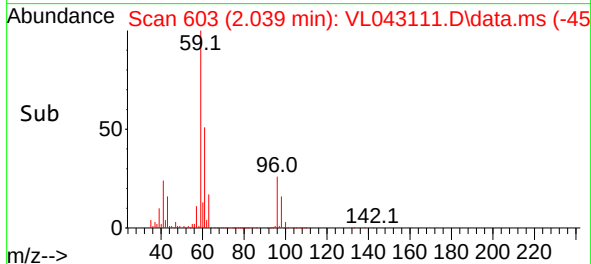
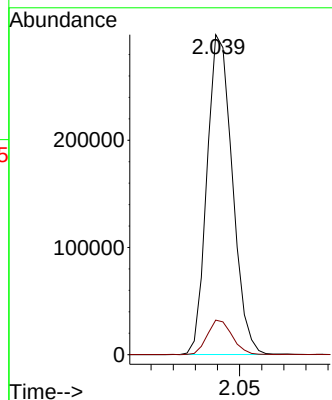
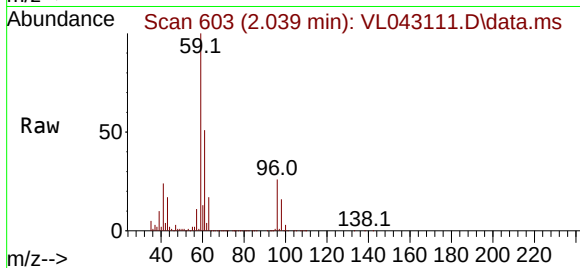
VSTDICC015

Tgt Ion: 59 Resp: 237633

Ion Ratio Lower Upper

59 100

57 10.6 8.2 12.4



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

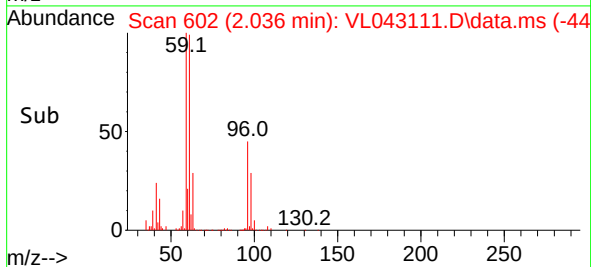
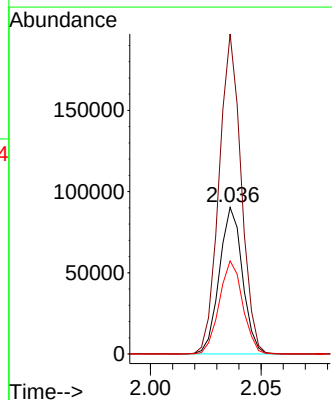
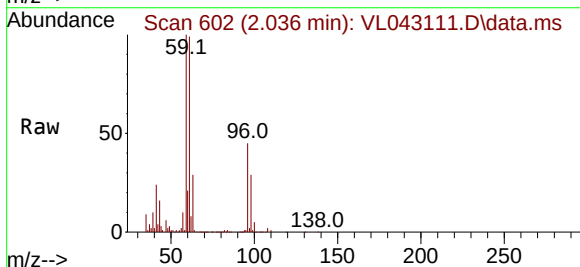
Tgt Ion: 96 Resp: 65634

Ion Ratio Lower Upper

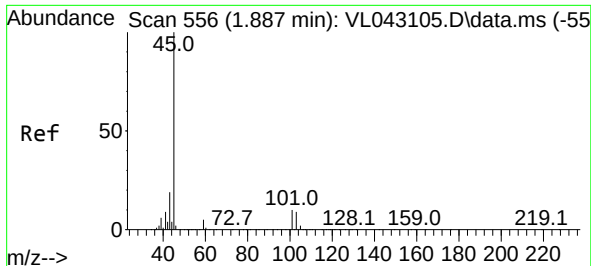
96 100

61 218.2 173.4 260.0

98 63.5 53.2 79.8



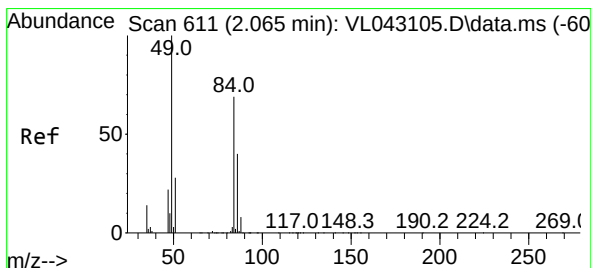
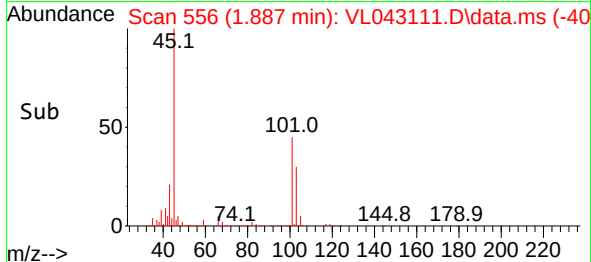
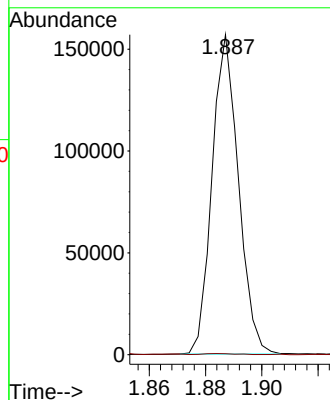
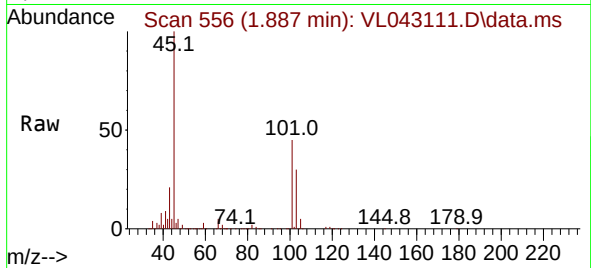




#19  
Isopropyl Alcohol  
Concen: 12.051 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

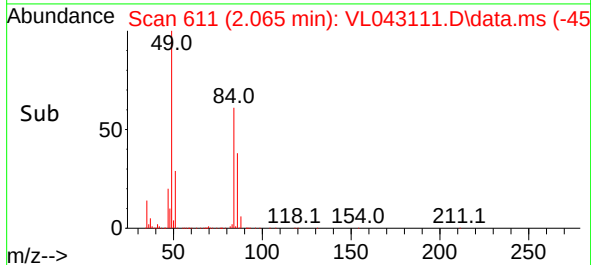
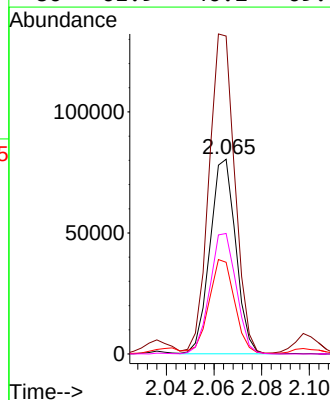
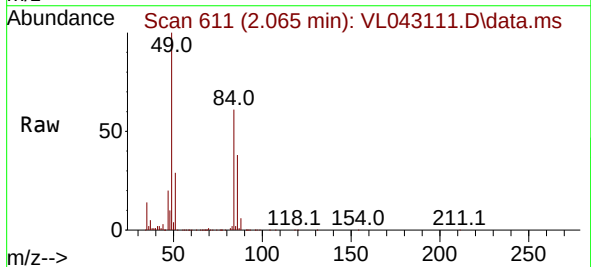
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

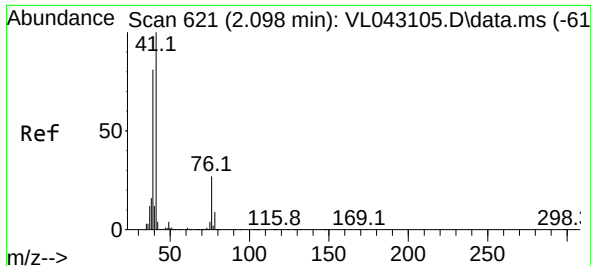
Tgt Ion: 45 Resp: 102035  
Ion Ratio Lower Upper  
45 100  
58 40.2 31.3 46.9



#20  
Methylene Chloride  
Concen: 11.268 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 84 Resp: 60549  
Ion Ratio Lower Upper  
84 100  
49 162.4 116.6 175.0  
51 46.6 34.8 52.2  
86 61.9 46.2 69.4

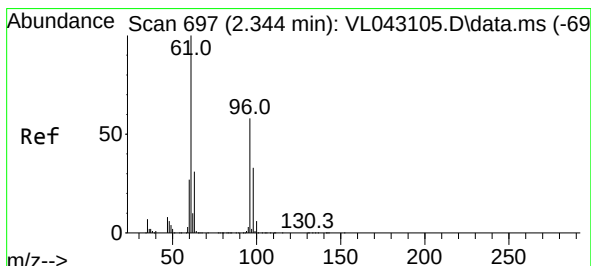
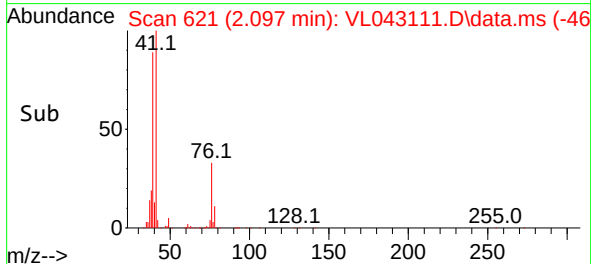
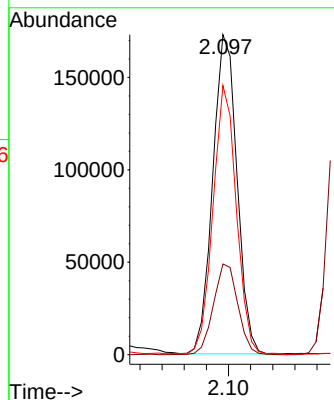
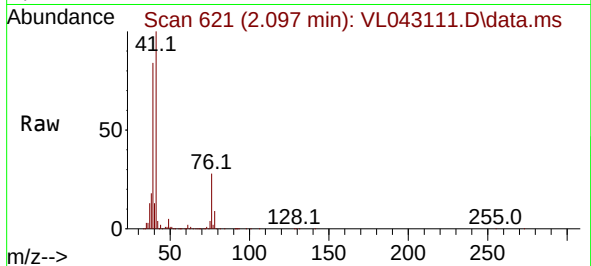




#21  
 Allyl Chloride  
 Concen: 13.105 ppbv  
 RT: 2.097 min Scan# 611  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

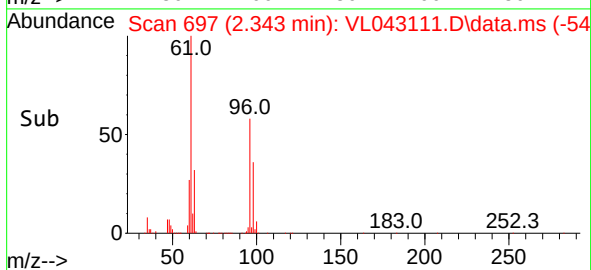
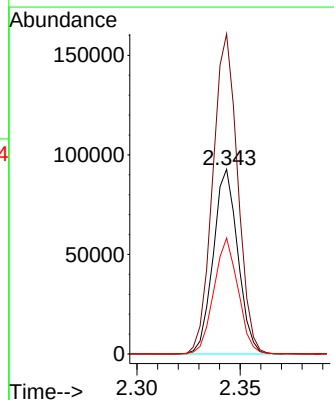
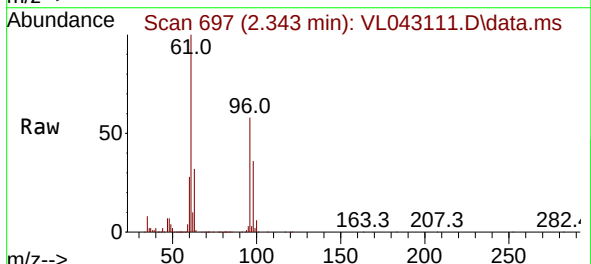
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

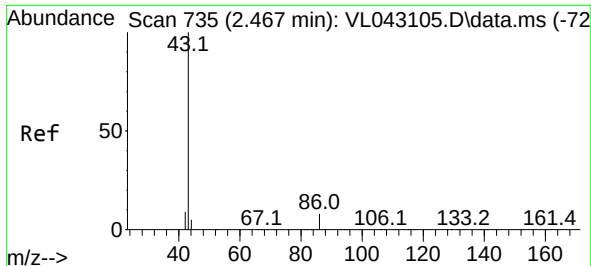
Tgt Ion: 41 Resp: 131539  
 Ion Ratio Lower Upper  
 41 100  
 76 28.8 21.5 32.3  
 39 80.9 60.8 91.2



#22  
 trans-1,2-Dichloroethene  
 Concen: 13.048 ppbv  
 RT: 2.343 min Scan# 697  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

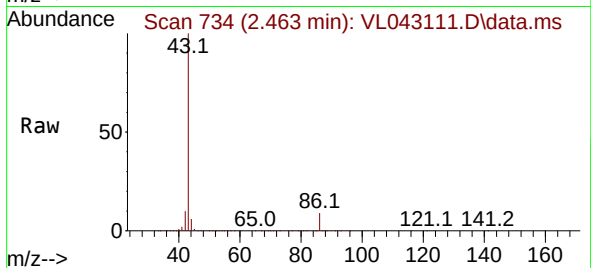
Tgt Ion: 96 Resp: 76780  
 Ion Ratio Lower Upper  
 96 100  
 61 173.2 137.0 205.6  
 98 62.8 45.5 68.3





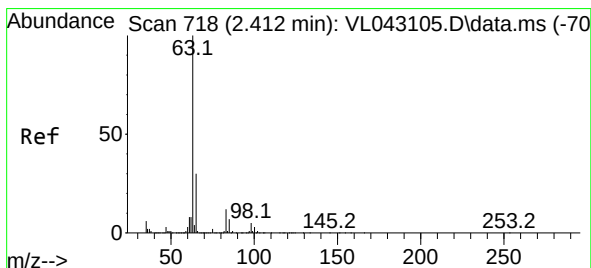
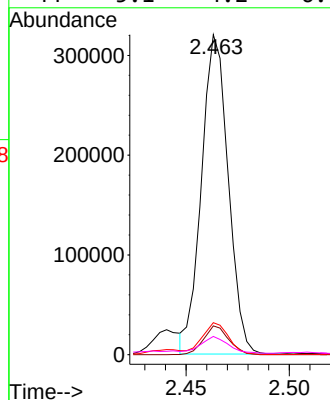
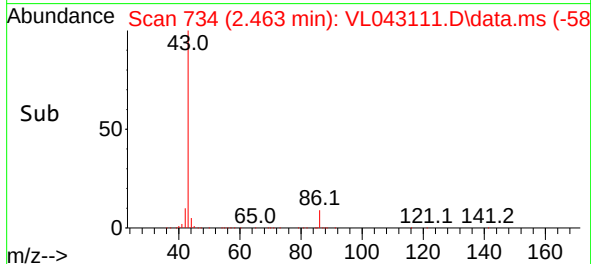
#23  
 Vinyl Acetate  
 Concen: 14.476 ppbv  
 RT: 2.463 min Scan# 718  
 Delta R.T. -0.004 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015



Tgt Ion: 43 Resp: 288274

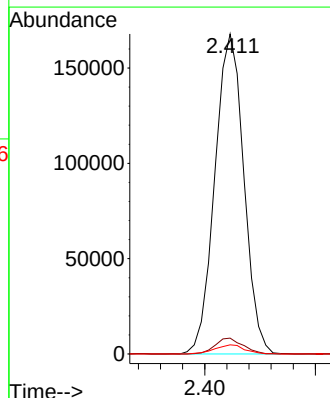
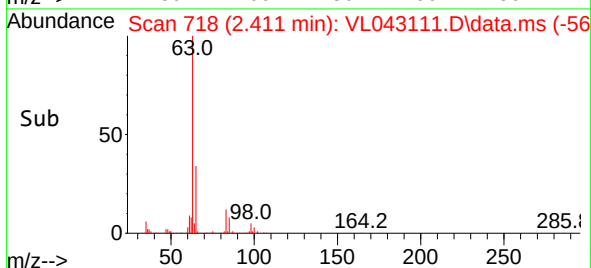
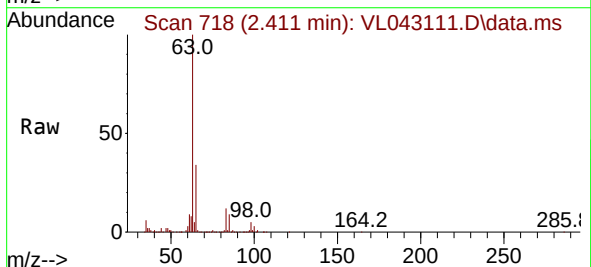
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 9.0   | 6.2   | 9.2   |
| 42  | 10.0  | 7.6   | 11.4  |
| 44  | 5.1   | 4.2   | 6.4   |

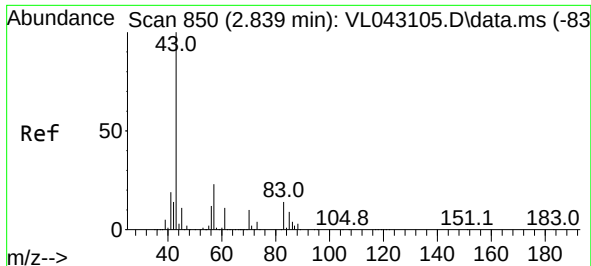


#24  
 1,1-Dichloroethane  
 Concen: 13.428 ppbv  
 RT: 2.411 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Tgt Ion: 63 Resp: 152663

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.9   | 2.6   | 7.8   |
| 100 | 2.8   | 1.5   | 4.4   |



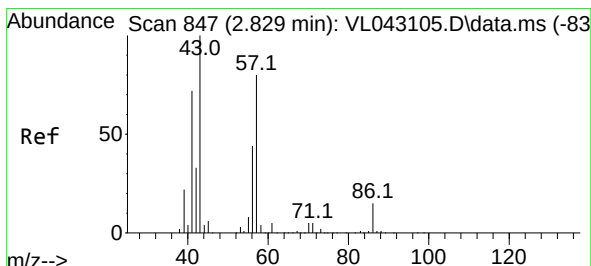
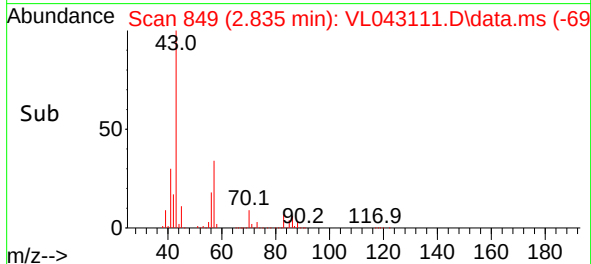
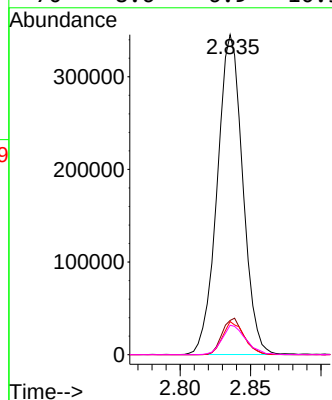
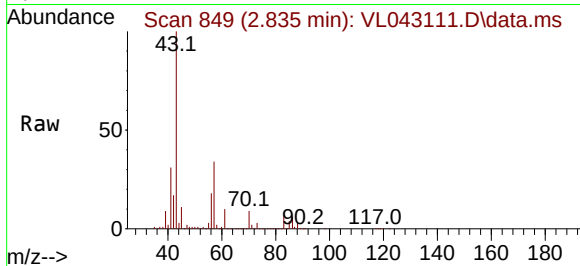


#25  
Ethyl Acetate  
Concen: 12.884 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 43 Resp: 434350

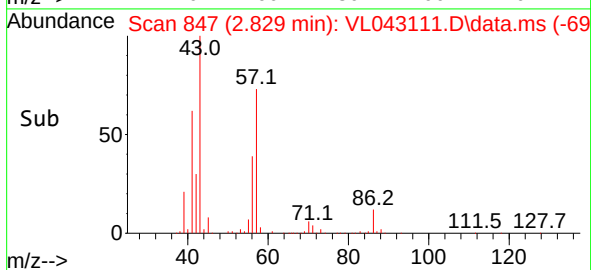
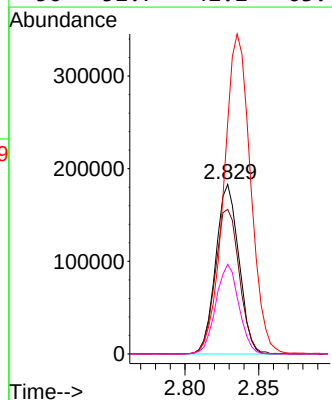
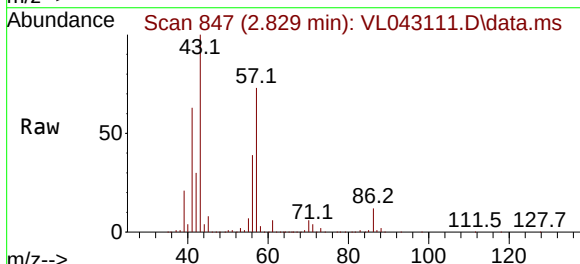
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.8   | 7.8   | 11.8  |
| 61  | 8.9   | 7.0   | 10.6  |
| 70  | 8.6   | 6.9   | 10.3  |

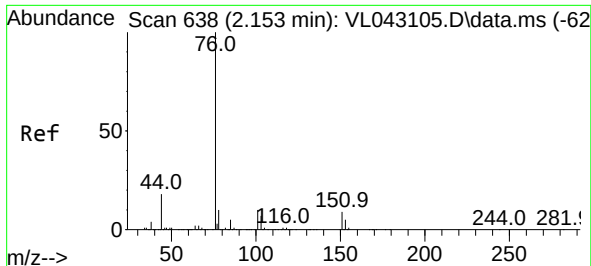


#26  
Hexane  
Concen: 12.836 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 199384

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 89.9  | 71.4  | 107.0 |
| 43  | 218.2 | 178.5 | 267.7 |
| 56  | 52.7  | 42.2  | 63.4  |

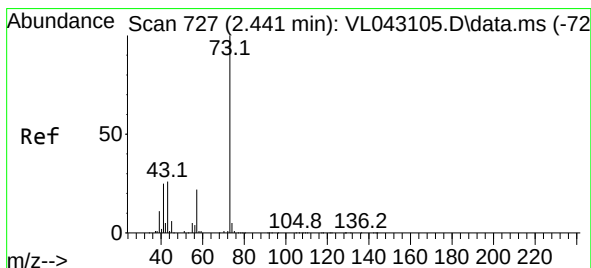
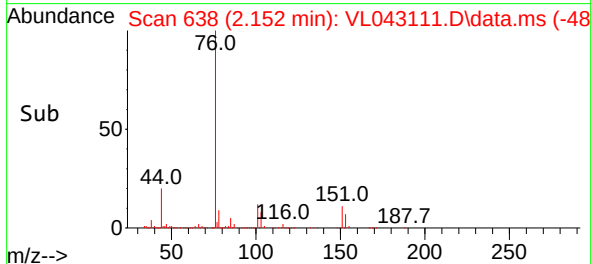
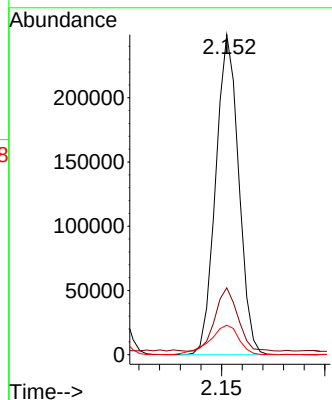
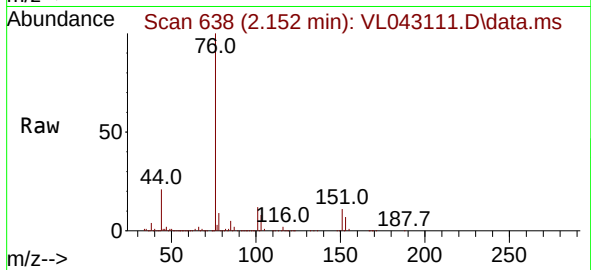




#27  
Carbon Disulfide  
Concen: 13.522 ppbv  
RT: 2.152 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

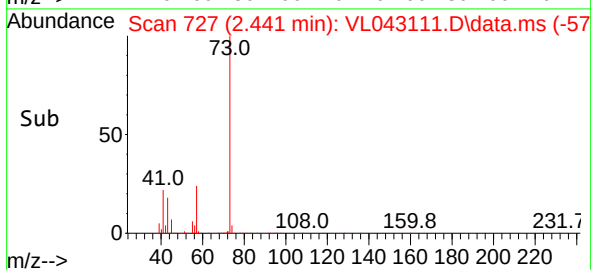
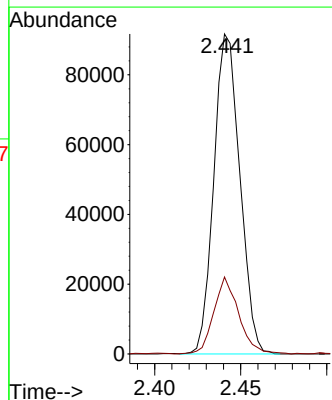
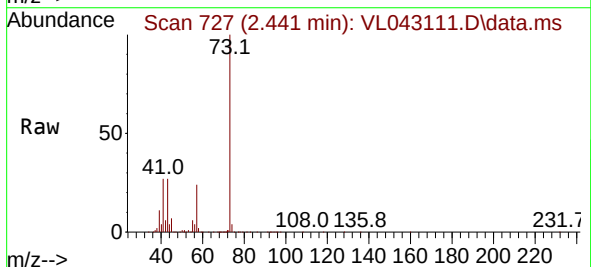
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

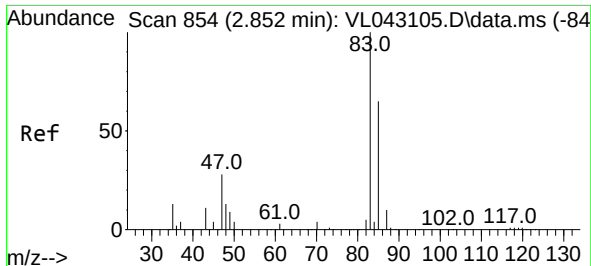
Tgt Ion: 76 Resp: 192452  
Ion Ratio Lower Upper  
76 100  
44 20.6 16.7 25.1  
78 11.6 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 13.650 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 73 Resp: 96464  
Ion Ratio Lower Upper  
73 100  
57 22.7 20.5 30.7





#29

Chloroform

Concen: 13.425 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

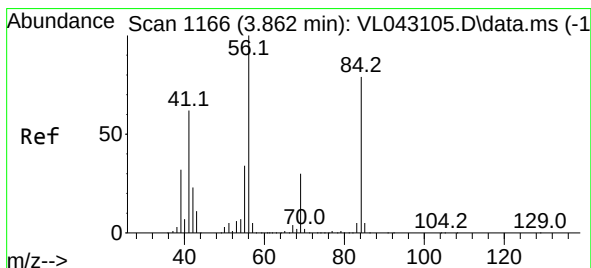
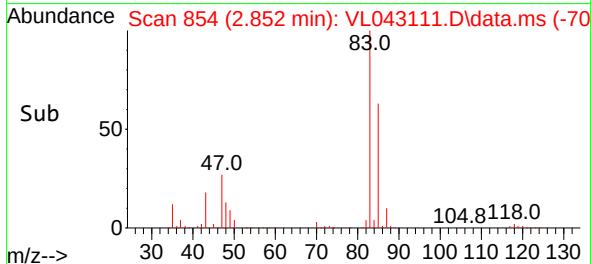
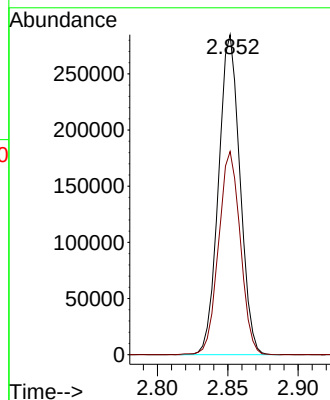
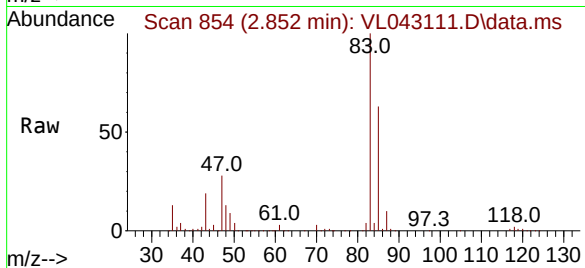
VSTDIC015

Tgt Ion: 83 Resp: 302154

Ion Ratio Lower Upper

83 100

85 63.5 51.8 77.6



#30

Cyclohexane

Concen: 13.133 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

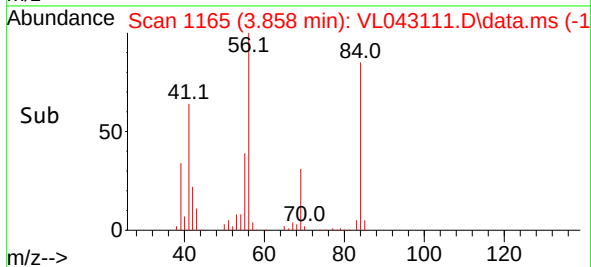
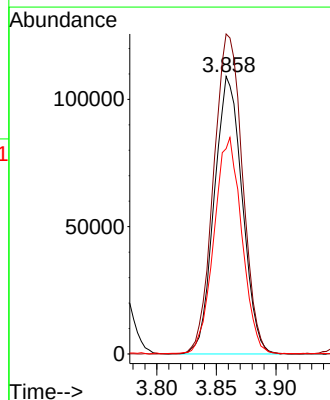
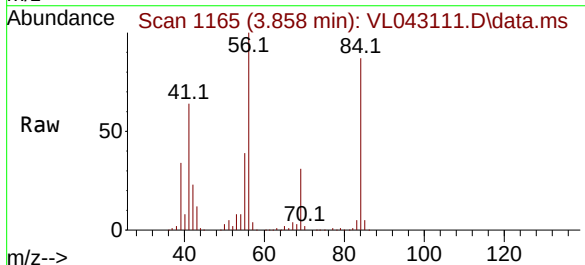
Tgt Ion: 84 Resp: 177947

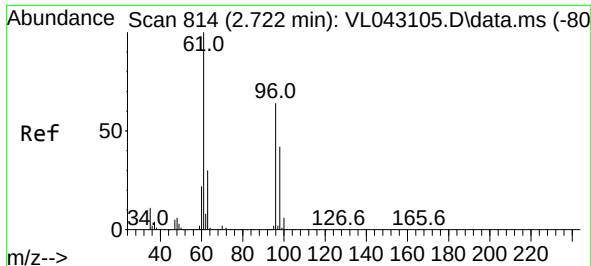
Ion Ratio Lower Upper

84 100

56 119.1 100.9 151.3

41 77.3 63.8 95.6

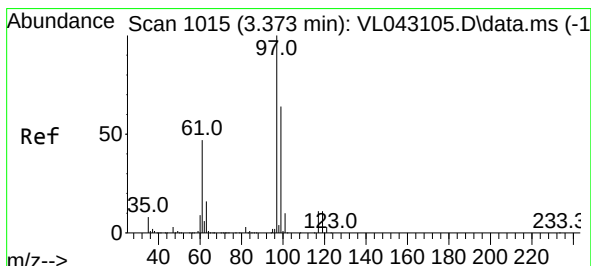
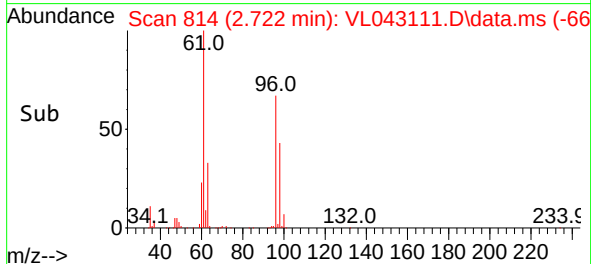
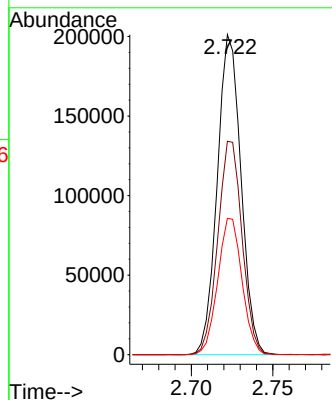
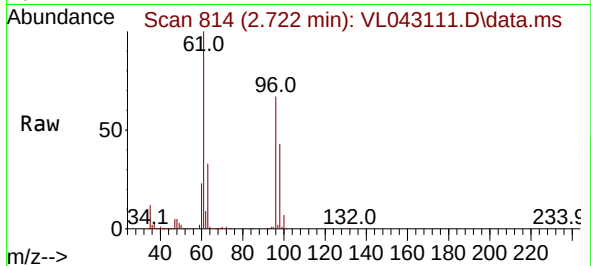




#31  
 cis-1,2-Dichloroethene  
 Concen: 13.745 ppbv  
 RT: 2.722 min Scan# 814  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

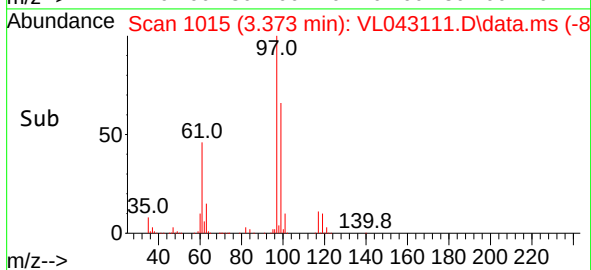
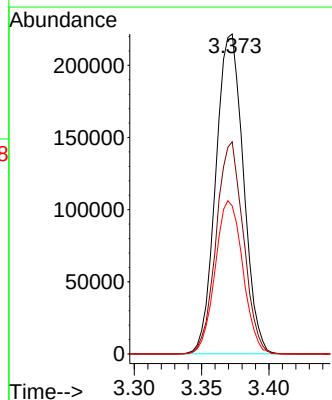
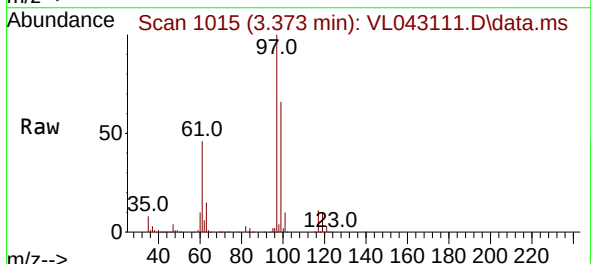
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

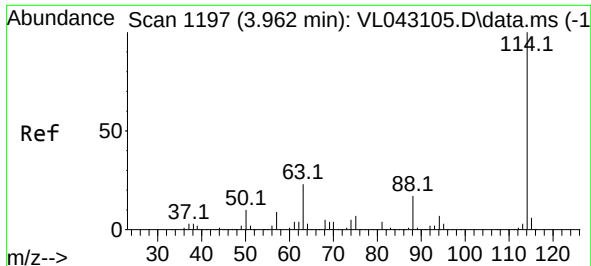
Tgt Ion: 61 Resp: 203888  
 Ion Ratio Lower Upper  
 61 100  
 96 66.7 51.0 76.6  
 98 42.6 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 13.500 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Tgt Ion: 97 Resp: 316442  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 51.3 76.9  
 61 48.0 38.4 57.6

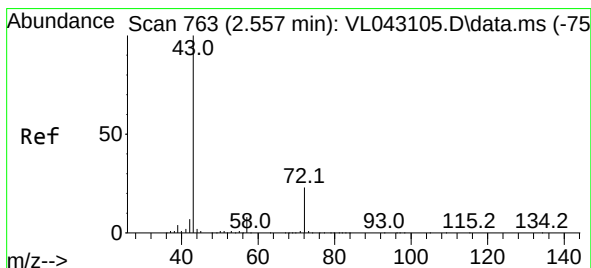
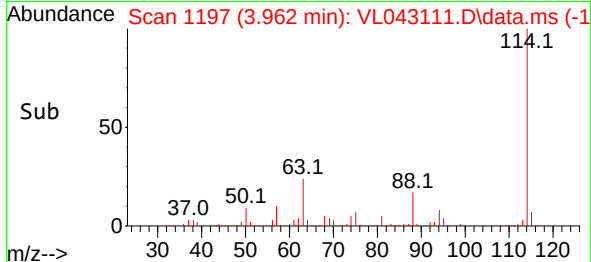
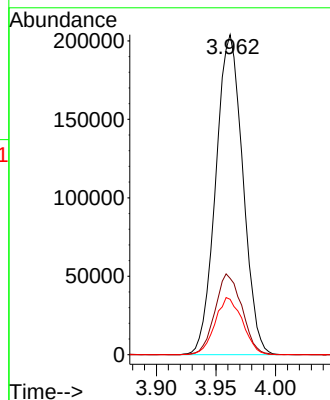
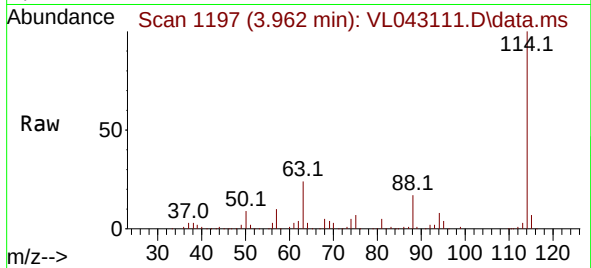




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

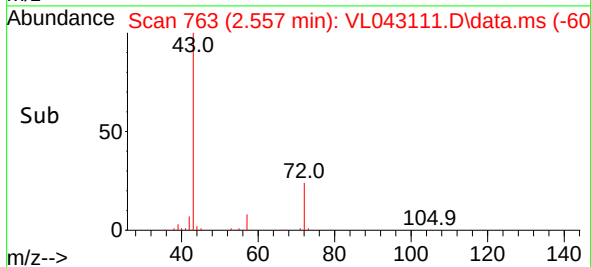
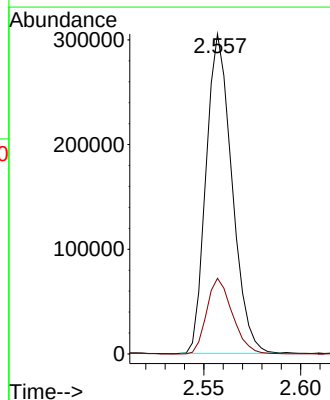
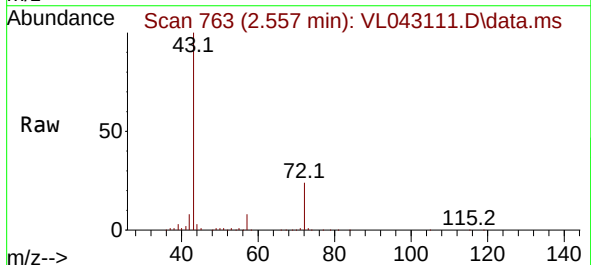
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion:114 Resp: 321665  
Ion Ratio Lower Upper  
114 100  
63 25.1 19.3 28.9  
88 18.1 13.9 20.9

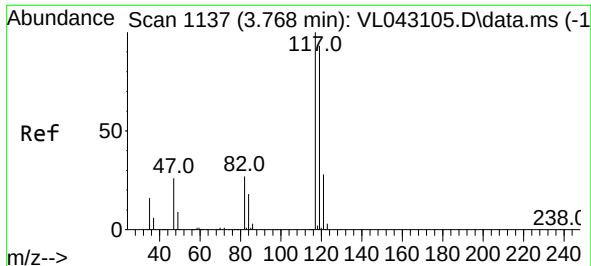


#34  
2-Butanone  
Concen: 13.020 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 283134  
Ion Ratio Lower Upper  
43 100  
72 23.6 18.4 27.6



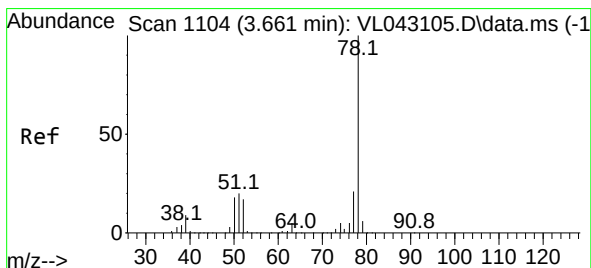
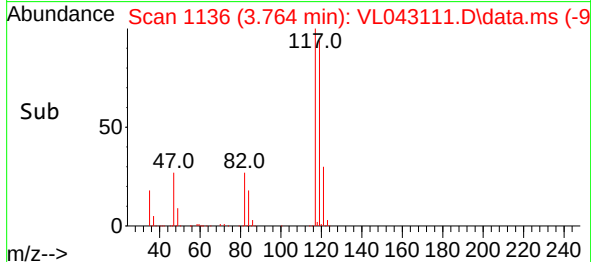
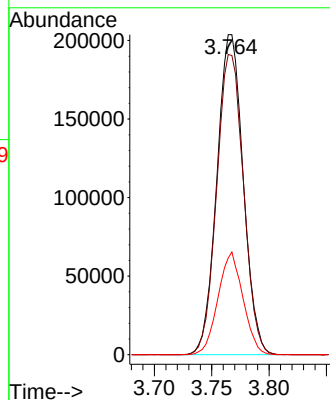
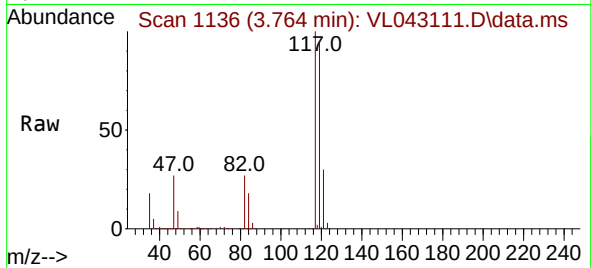




#35  
Carbon Tetrachloride  
Concen: 14.056 ppbv  
RT: 3.764 min Scan# 1136  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

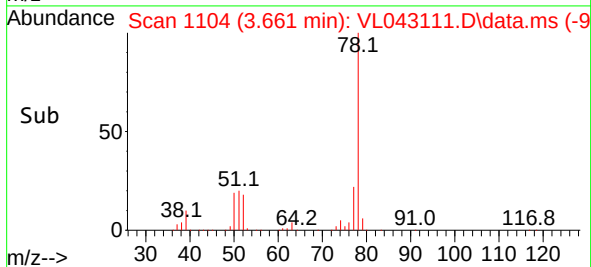
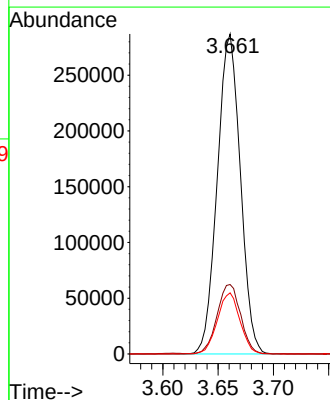
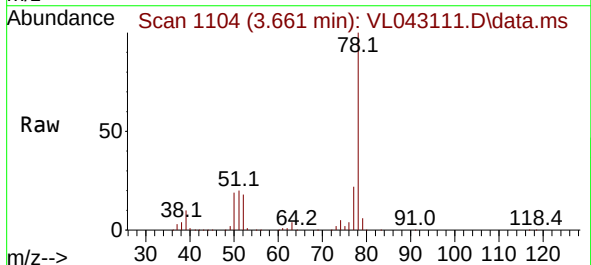
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

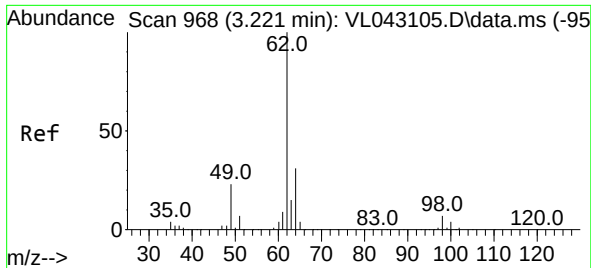
Tgt Ion: 117 Resp: 325078  
Ion Ratio Lower Upper  
117 100  
119 93.8 74.1 111.1  
121 30.2 22.2 33.2



#36  
Benzene  
Concen: 13.725 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 78 Resp: 415823  
Ion Ratio Lower Upper  
78 100  
77 21.6 17.0 25.6  
50 19.1 14.6 22.0

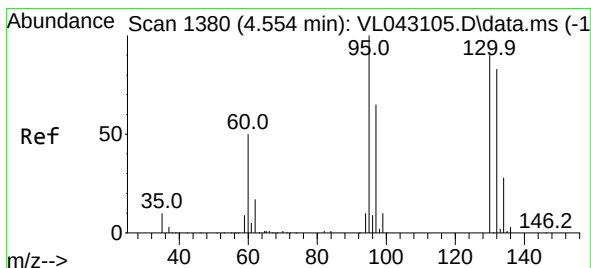
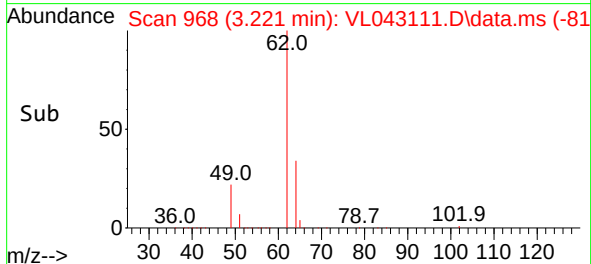
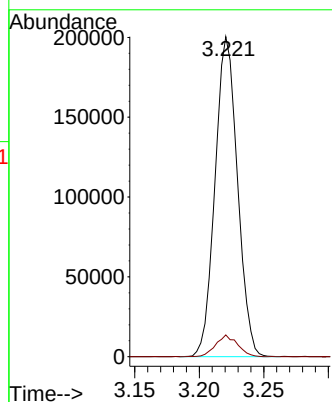
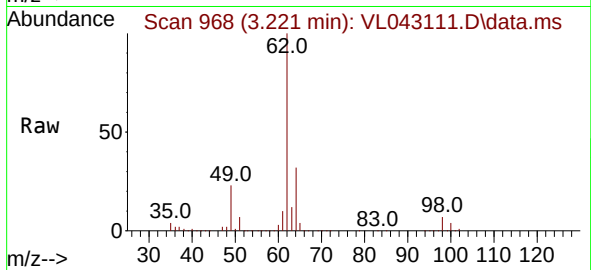




#37  
1,2-Dichloroethane  
Concen: 13.865 ppbv  
RT: 3.221 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

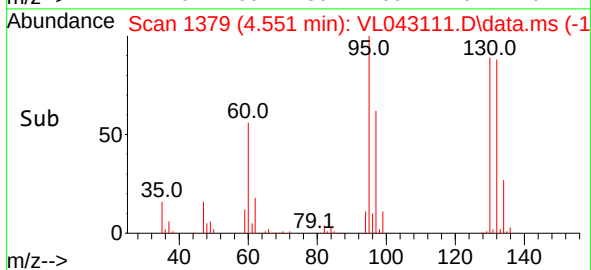
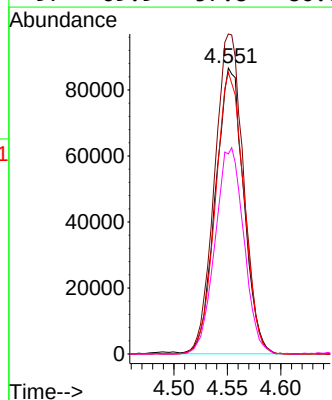
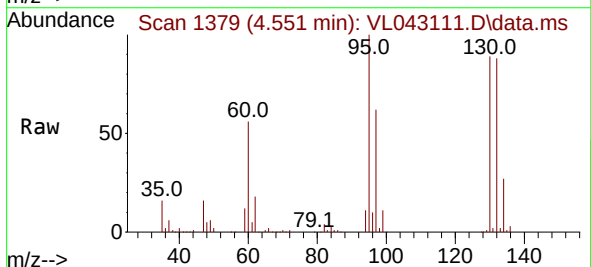
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

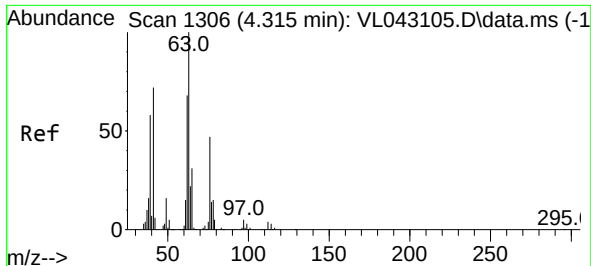
Tgt Ion: 62 Resp: 241983  
Ion Ratio Lower Upper  
62 100  
98 6.6 5.8 8.6



#38  
Trichloroethene  
Concen: 12.590 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:130 Resp: 159136  
Ion Ratio Lower Upper  
130 100  
95 111.8 88.6 133.0  
132 98.5 73.4 110.0  
97 69.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 13.274 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

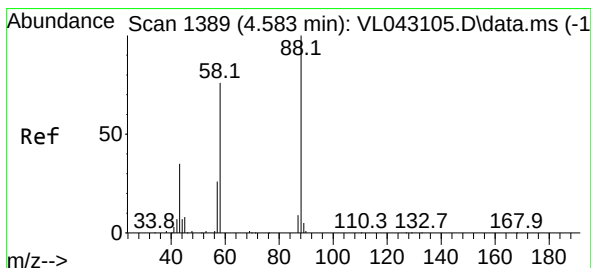
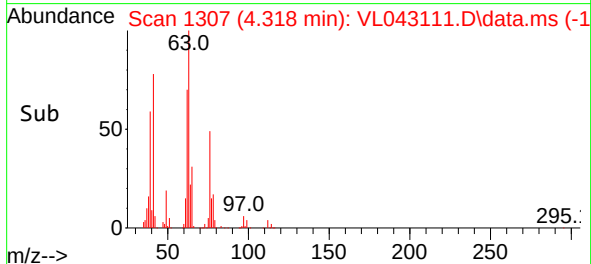
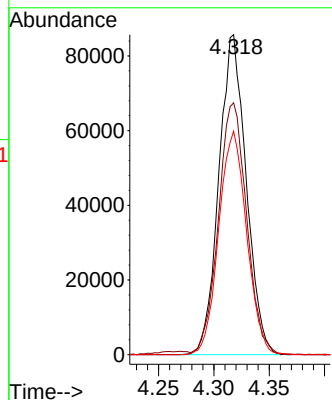
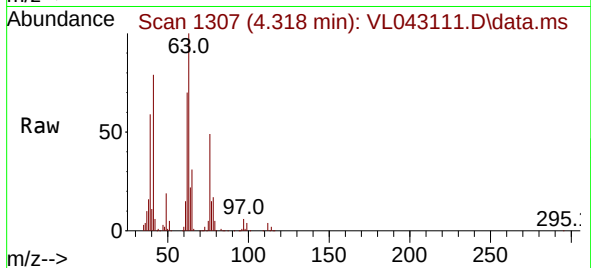
Tgt Ion: 63 Resp: 147155

Ion Ratio Lower Upper

63 100

41 78.4 58.0 87.0

62 69.9 54.7 82.1



#40

1,4-Dioxane

Concen: 13.180 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.004 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Tgt Ion: 88 Resp: 65323

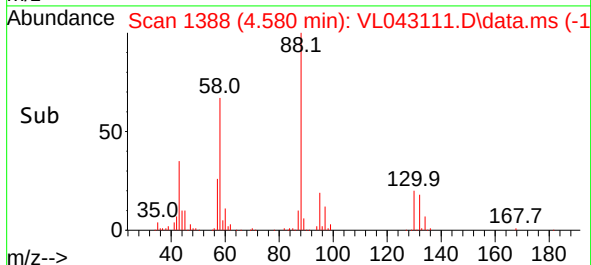
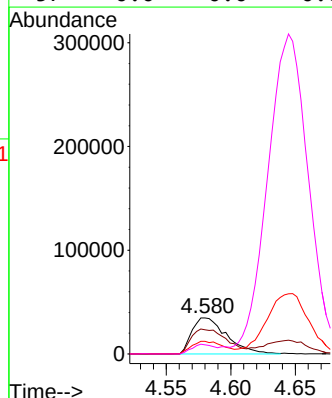
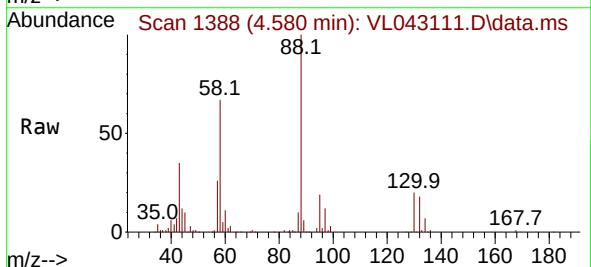
Ion Ratio Lower Upper

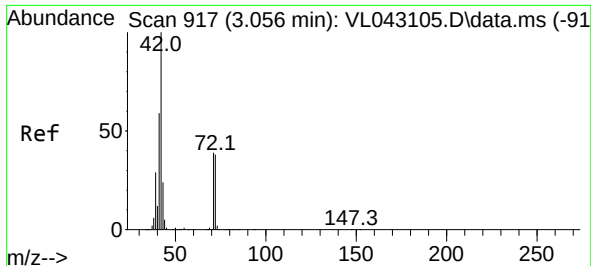
88 100

58 69.1 61.1 91.7

43 30.0 24.0 36.0

57 0.0 0.0 0.0

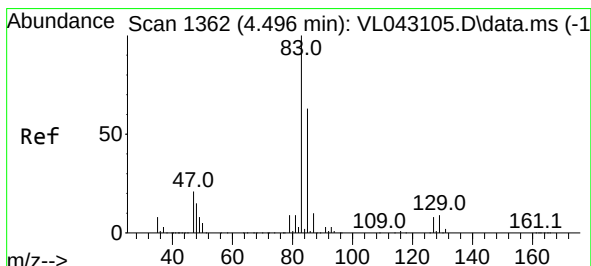
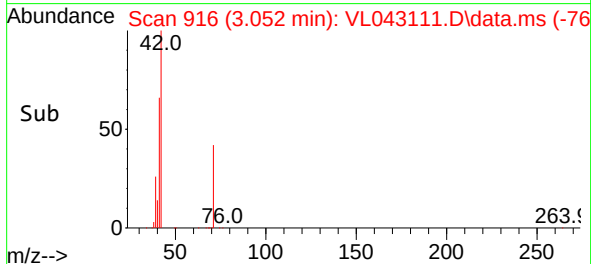
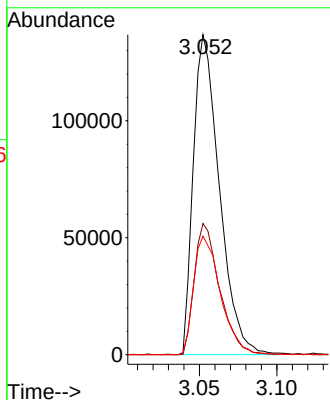
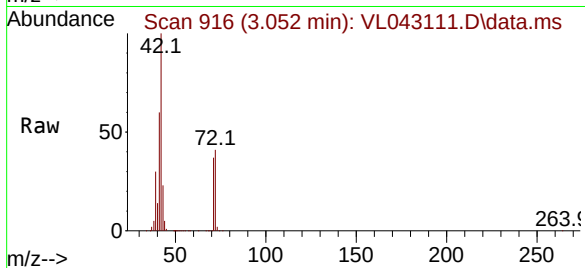




#41  
Tetrahydrofuran  
Concen: 13.200 ppbv  
RT: 3.052 min Scan# 916  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

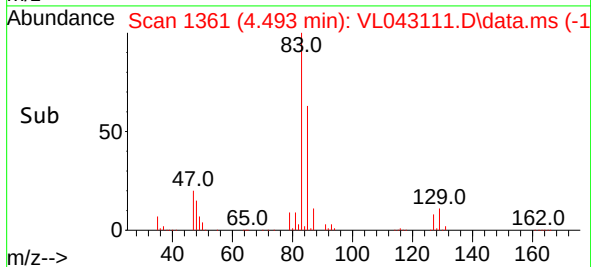
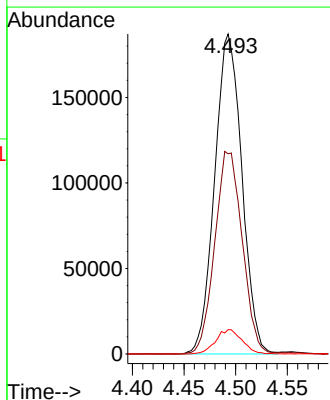
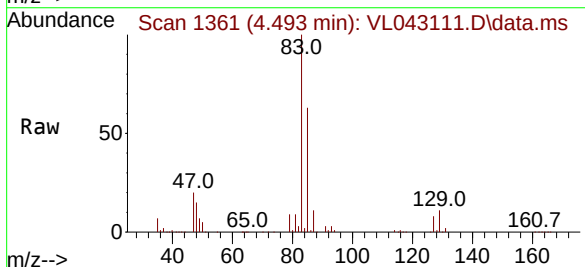
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

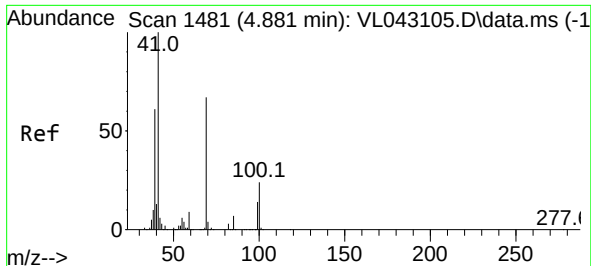
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 42    | Resp: | 160247 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 40.0  | 31.3  | 46.9   |
| 71       | 38.2  | 30.4  | 45.6   |



#42  
Bromodichloromethane  
Concen: 14.234 ppbv  
RT: 4.493 min Scan# 1361  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 343817 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 62.5  | 50.6  | 75.8   |
| 127      | 7.6   | 6.3   | 9.5    |

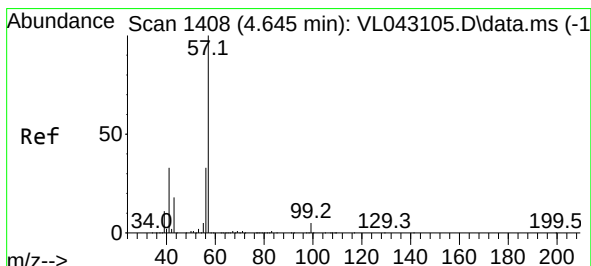
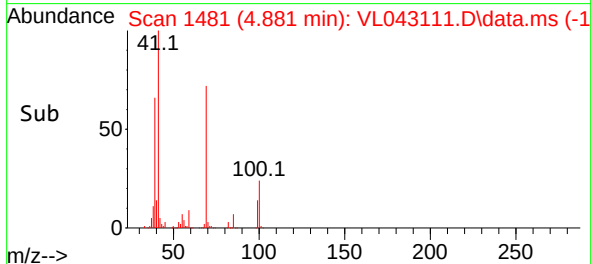
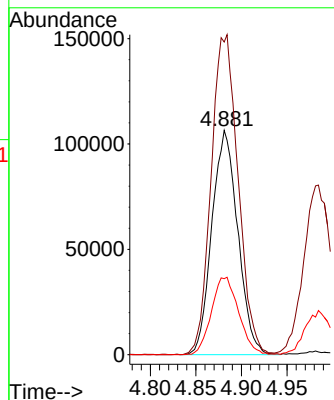
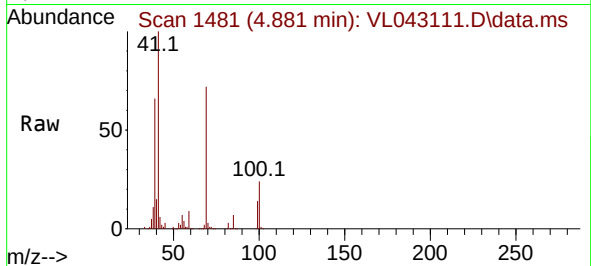




#43  
Methyl Methacrylate  
Concen: 13.633 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

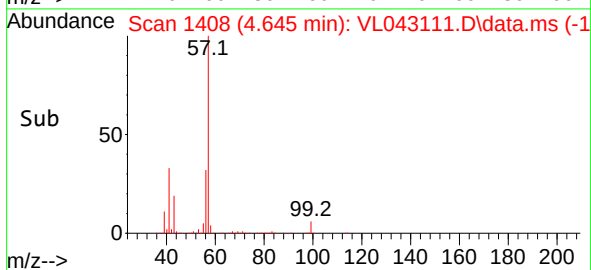
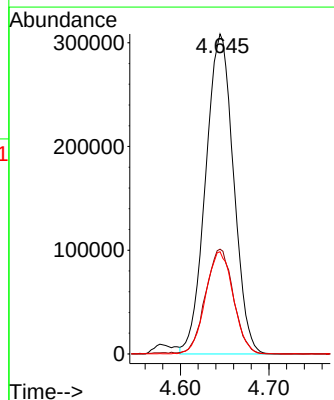
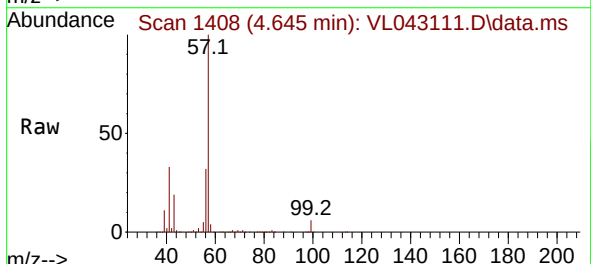
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

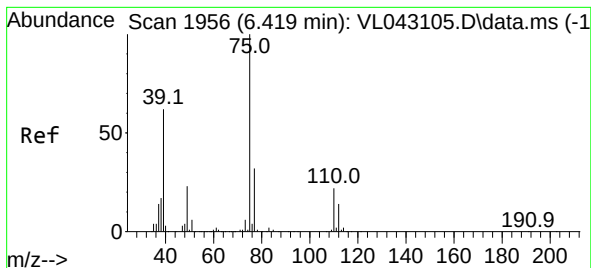
Tgt Ion: 69 Resp: 210756  
Ion Ratio Lower Upper  
69 100  
41 148.2 120.5 180.7  
100 36.3 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 13.340 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 57 Resp: 675770  
Ion Ratio Lower Upper  
57 100  
41 33.2 26.3 39.5  
56 31.9 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 14.142 ppbv

RT: 6.418 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_1

ClientSampleId :

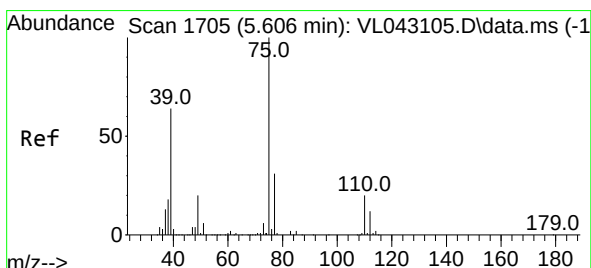
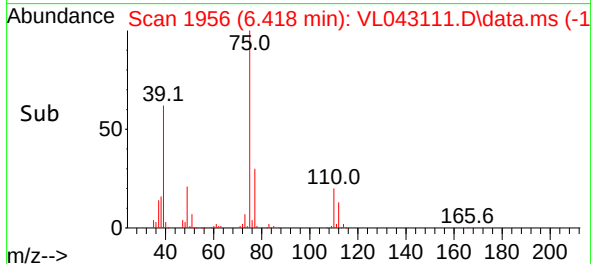
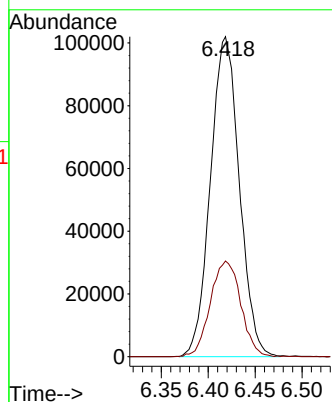
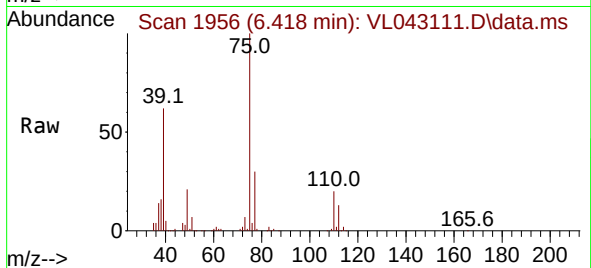
VSTDIC015

Tgt Ion: 75 Resp: 218386

Ion Ratio Lower Upper

75 100

77 29.9 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 14.018 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

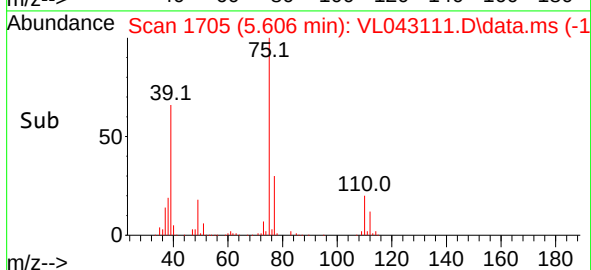
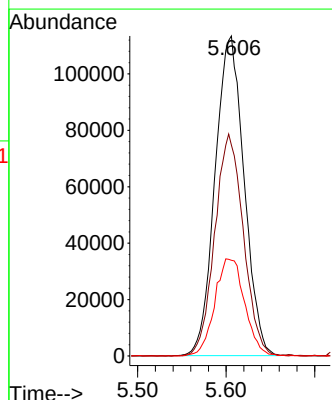
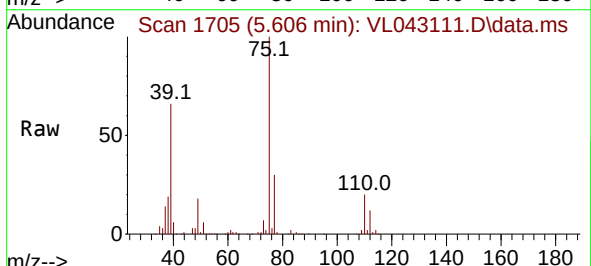
Tgt Ion: 75 Resp: 258355

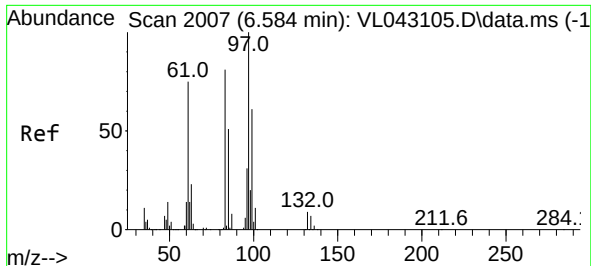
Ion Ratio Lower Upper

75 100

39 65.8 51.0 76.6

77 29.9 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 13.638 ppbv

RT: 6.583 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 163113

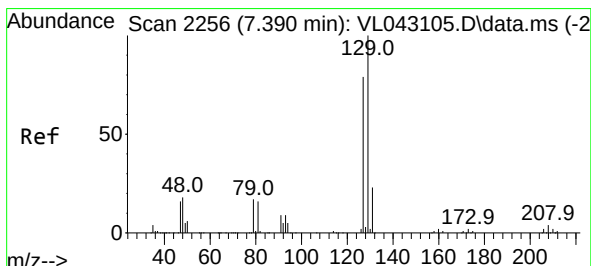
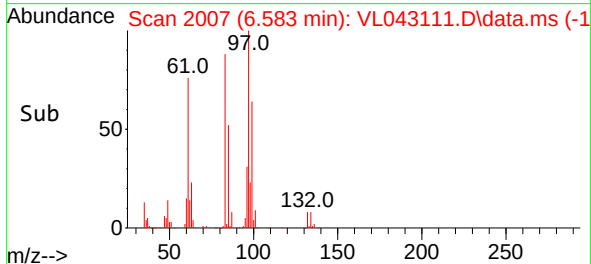
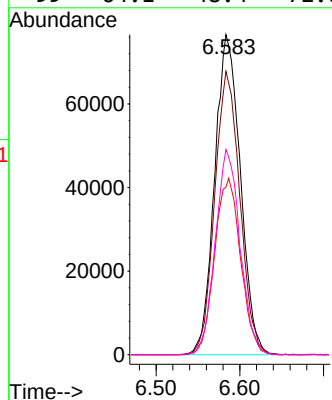
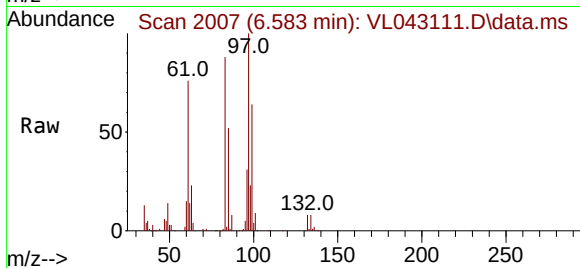
Ion Ratio Lower Upper

97 100

83 88.4 64.6 96.8

85 52.4 40.6 60.8

99 64.1 48.4 72.6



#48

Dibromochloromethane

Concen: 14.051 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VL043111.D

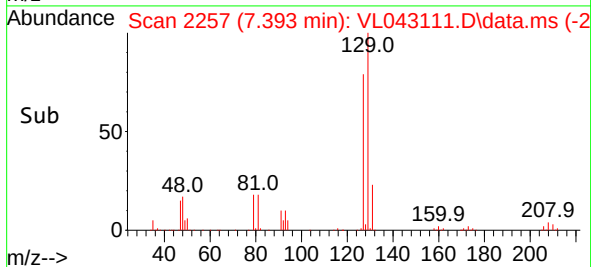
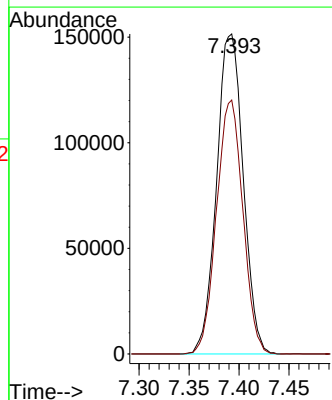
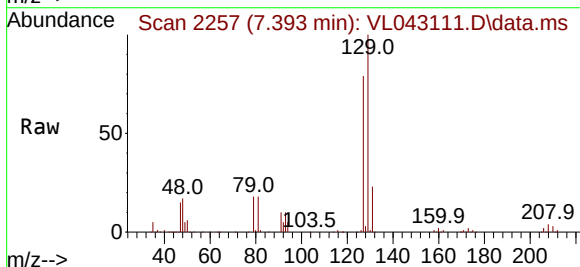
Acq: 14 Oct 2025 14:18

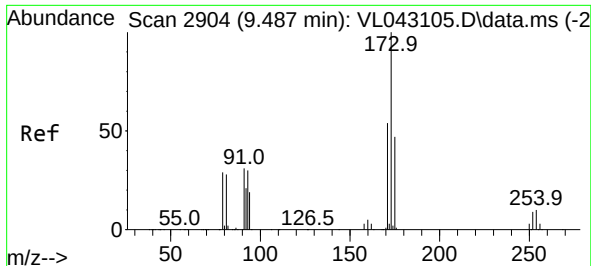
Tgt Ion: 129 Resp: 280993

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.9

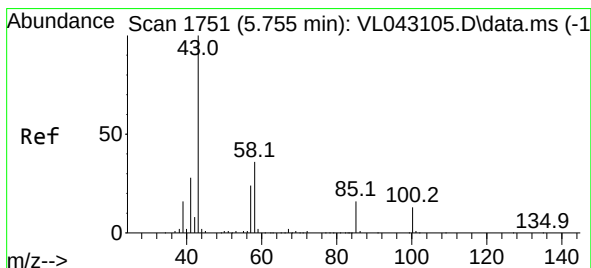
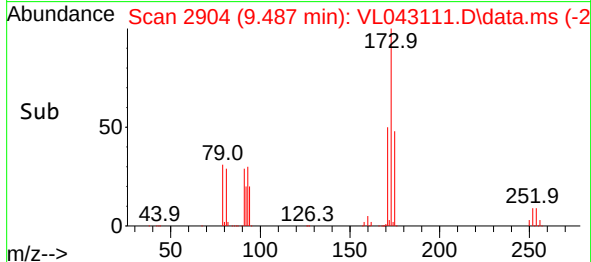
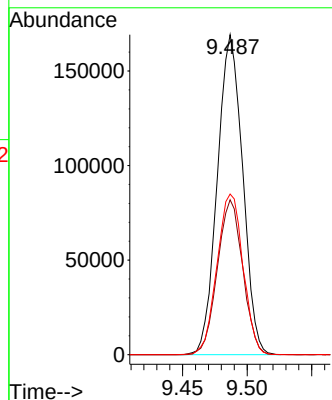
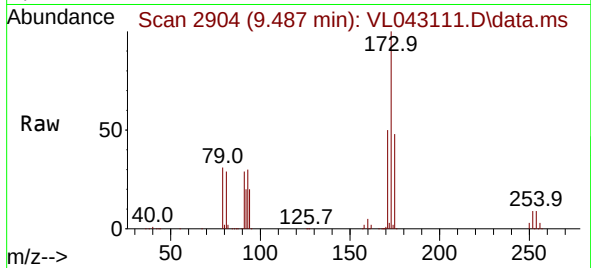




#49  
Bromoform  
Concen: 14.184 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

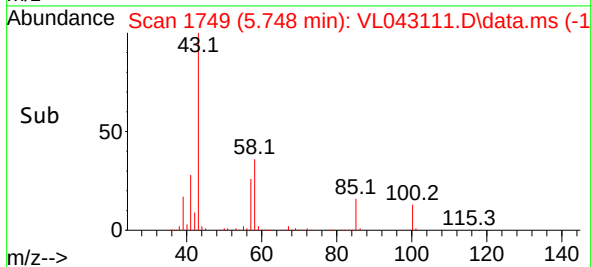
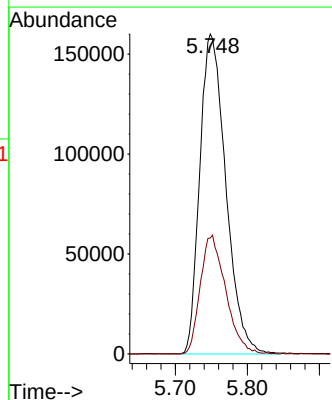
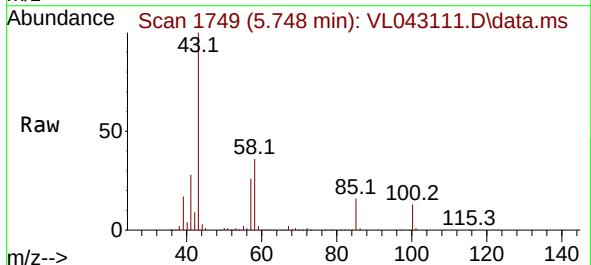
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion:173 Resp: 230561  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
171 51.7 41.7 62.5

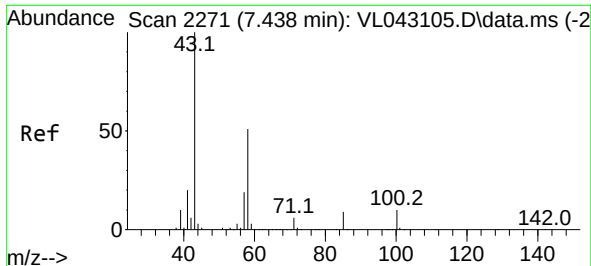


#50  
4-Methyl-2-Pentanone  
Concen: 13.396 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. -0.007 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 43 Resp: 401849  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.1 43.7



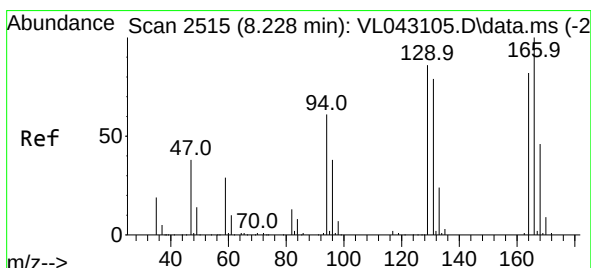
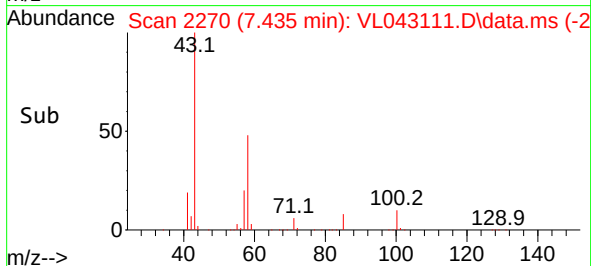
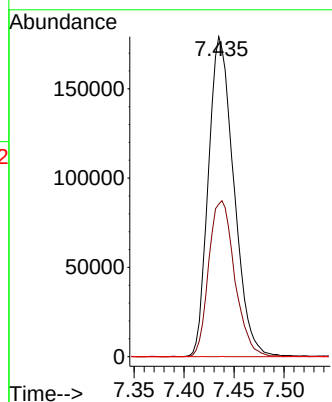
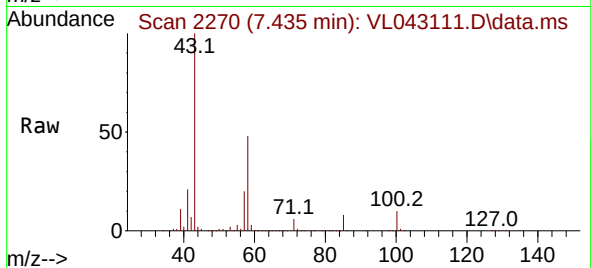




#51  
2-Hexanone  
Concen: 14.176 ppbv  
RT: 7.435 min Scan# 211  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

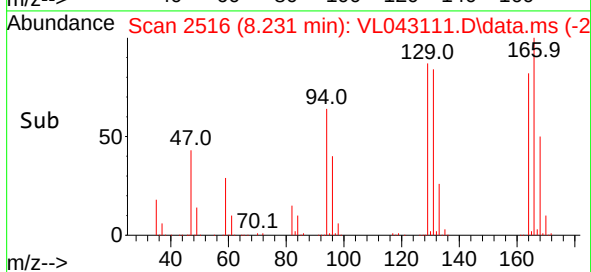
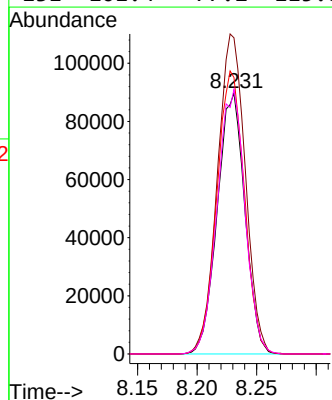
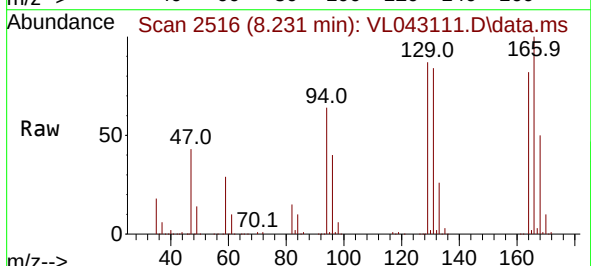
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

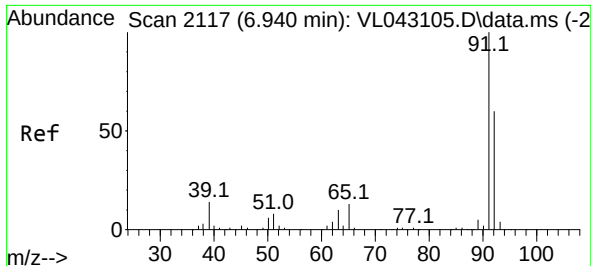
Tgt Ion: 43 Resp: 317288  
Ion Ratio Lower Upper  
43 100  
58 49.8 40.4 60.6  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 13.177 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:164 Resp: 143954  
Ion Ratio Lower Upper  
164 100  
166 121.3 97.6 146.4  
129 106.0 84.5 126.7  
131 101.4 77.2 115.8

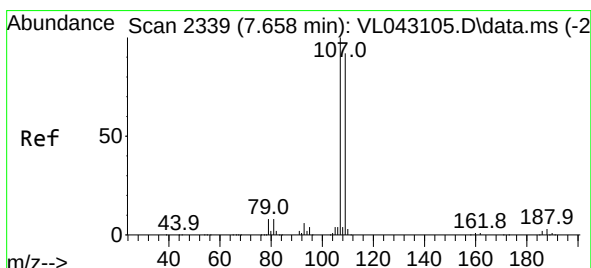
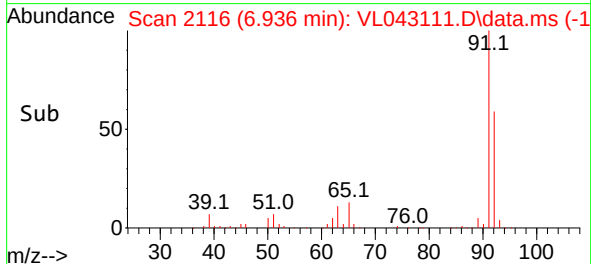
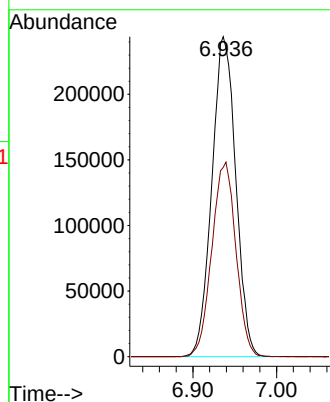
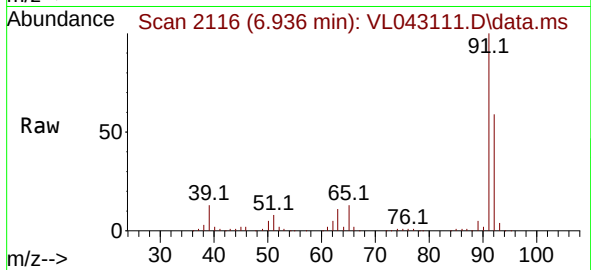




#53  
Toluene  
Concen: 13.457 ppbv  
RT: 6.936 min Scan# 2117  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

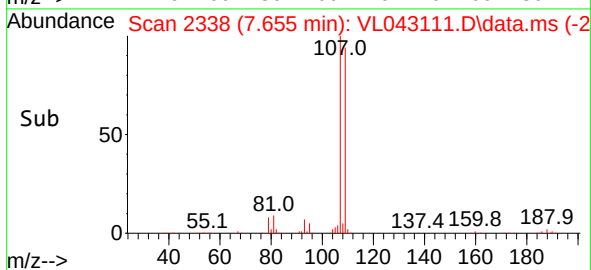
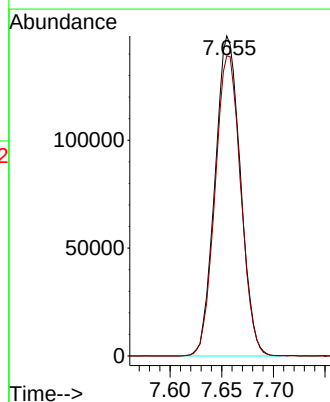
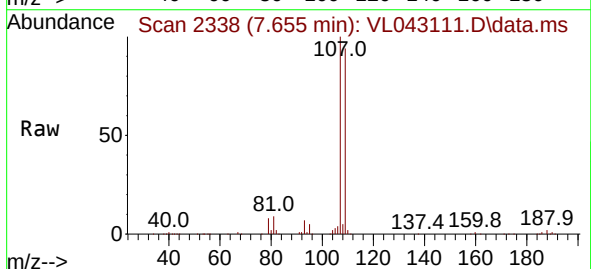
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

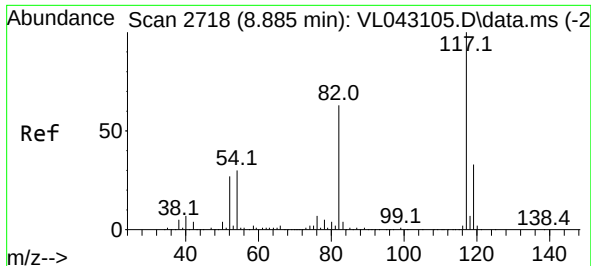
Tgt Ion: 91 Resp: 483870  
Ion Ratio Lower Upper  
91 100  
92 61.1 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 13.461 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 107 Resp: 254024  
Ion Ratio Lower Upper  
107 100  
109 93.8 73.4 110.2

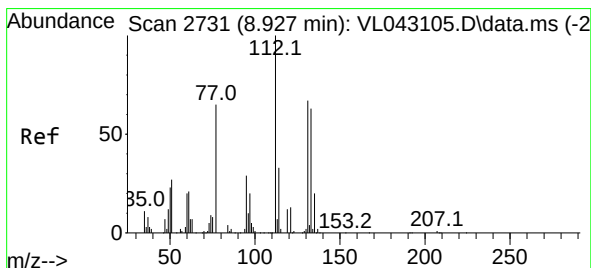
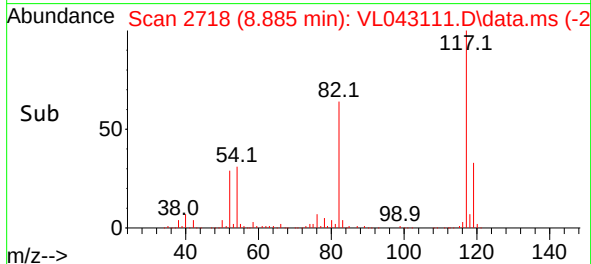
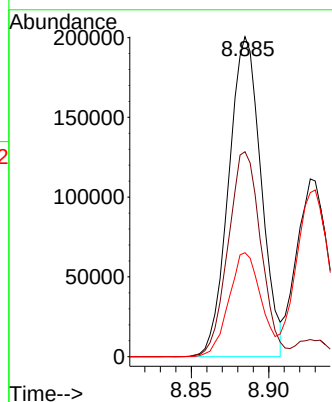
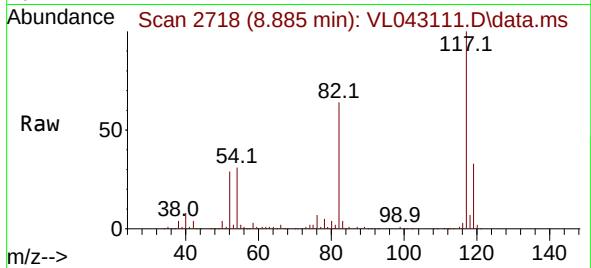




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

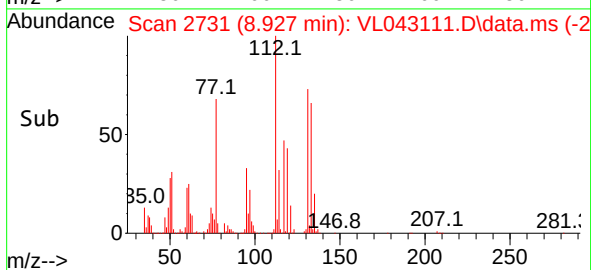
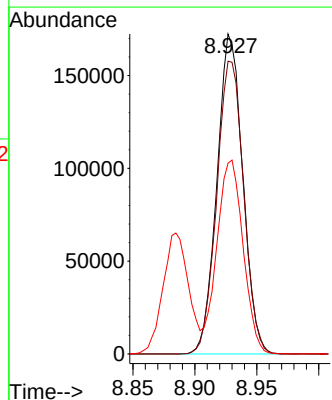
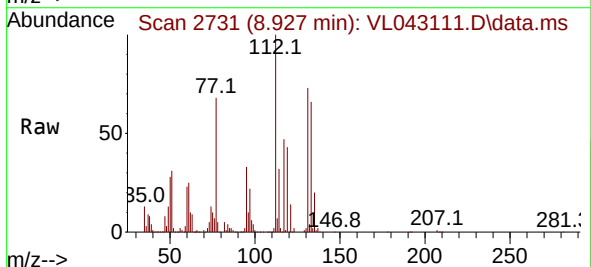
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

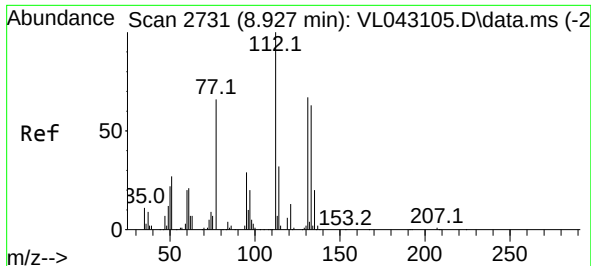
Tgt Ion:117 Resp: 292542  
Ion Ratio Lower Upper  
117 100  
82 70.2 53.8 80.8  
119 33.1 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 13.573 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:131 Resp: 250303  
Ion Ratio Lower Upper  
131 100  
133 95.1 75.7 113.5  
119 61.9 50.6 76.0

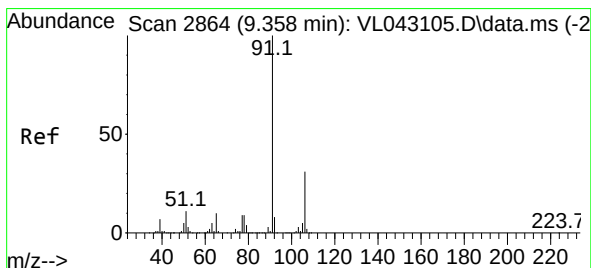
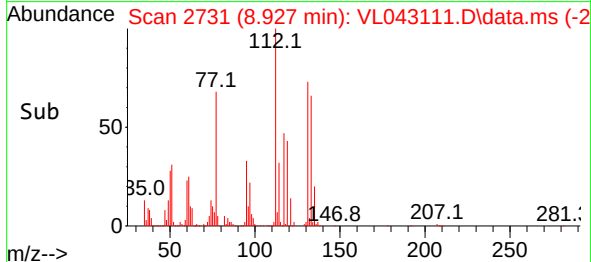
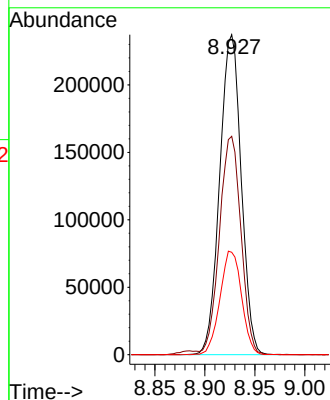
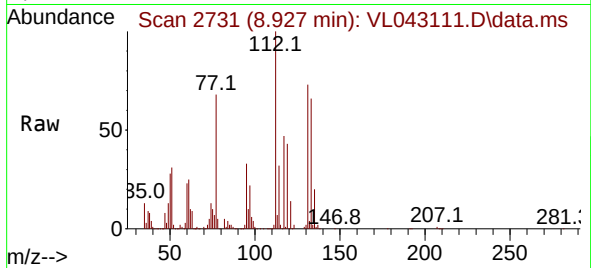




#57  
Chlorobenzene  
Concen: 12.983 ppbv  
RT: 8.927 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

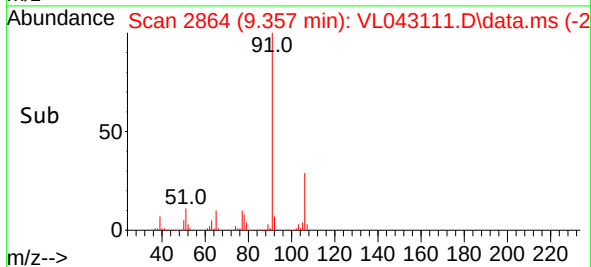
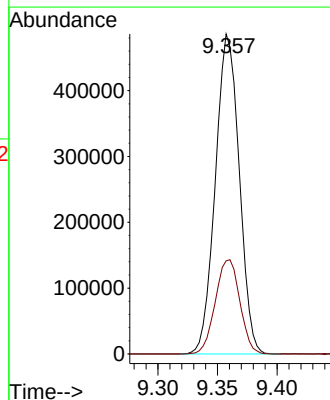
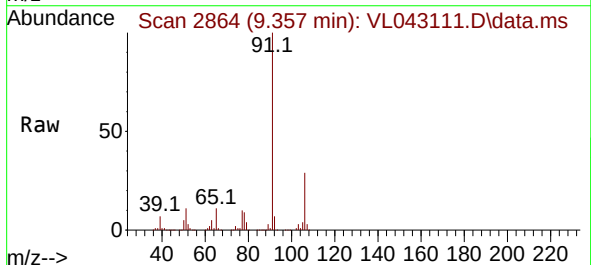
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

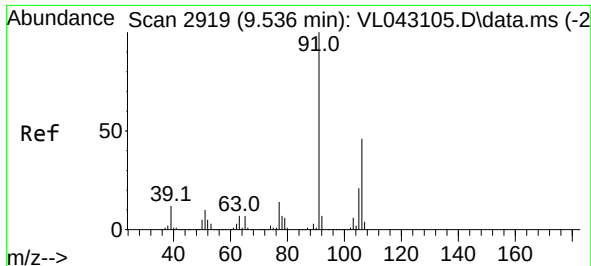
Tgt Ion:112 Resp: 355301  
Ion Ratio Lower Upper  
112 100  
77 68.2 53.3 79.9  
114 32.0 29.3 35.8



#58  
Ethyl Benzene  
Concen: 13.375 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 676918  
Ion Ratio Lower Upper  
91 100  
106 29.1 24.8 37.2





#59

m/p-Xylene

Concen: 15.622 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_1

ClientSampleId :

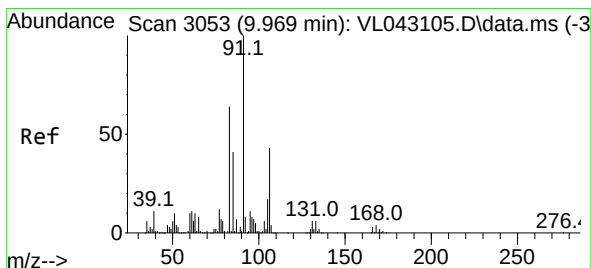
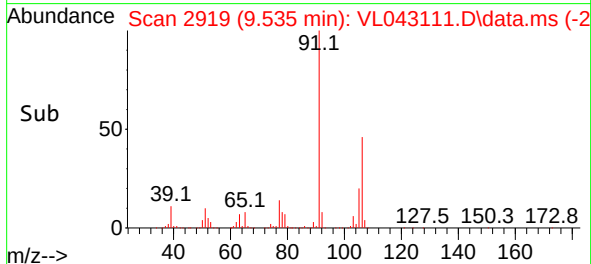
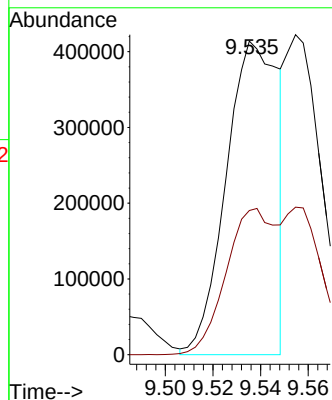
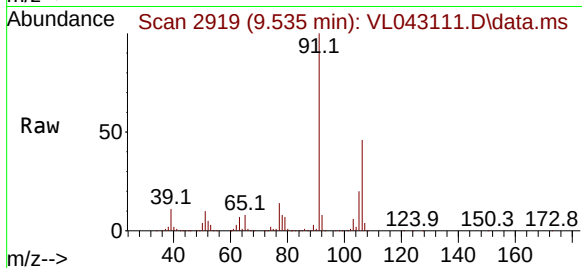
VSTDIC015

Tgt Ion: 91 Resp: 626074

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 13.063 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. -0.004 min

Lab File: VL043111.D

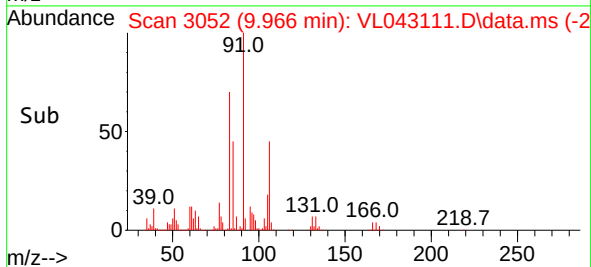
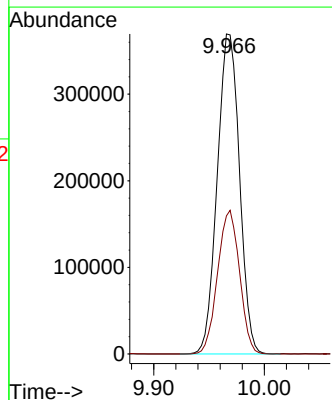
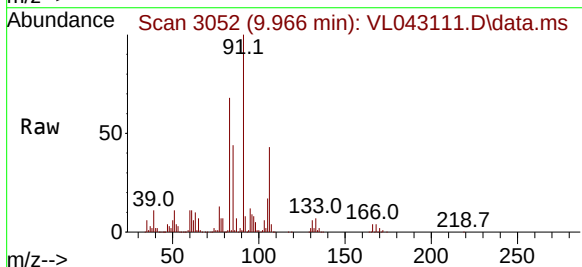
Acq: 14 Oct 2025 14:18

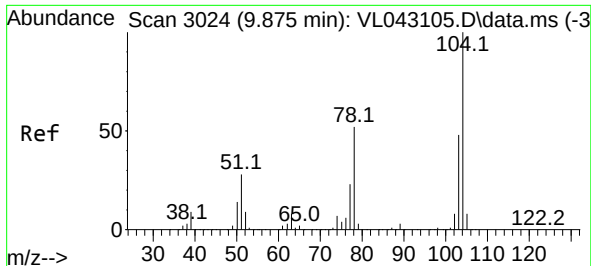
Tgt Ion: 91 Resp: 516660

Ion Ratio Lower Upper

91 100

106 44.3 21.9 65.8

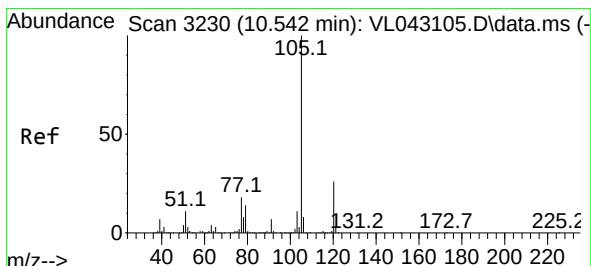
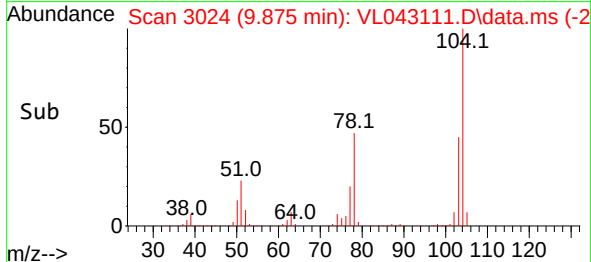
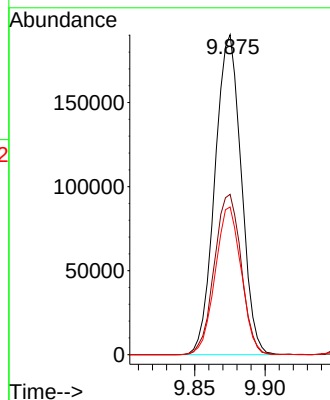
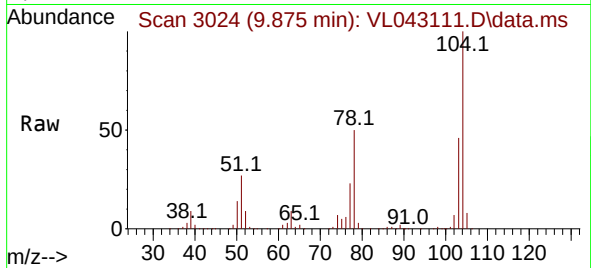




#61  
Styrene  
Concen: 13.867 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

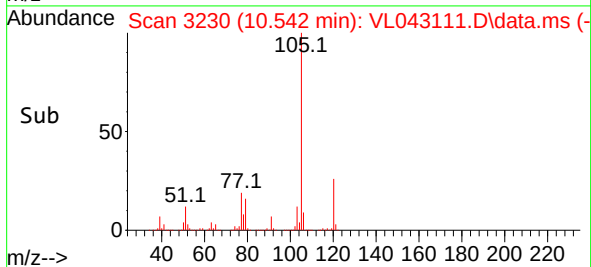
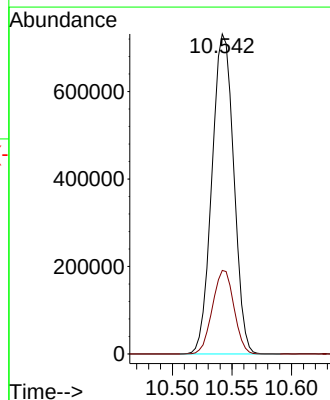
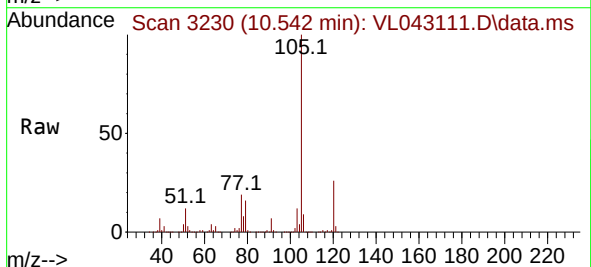
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

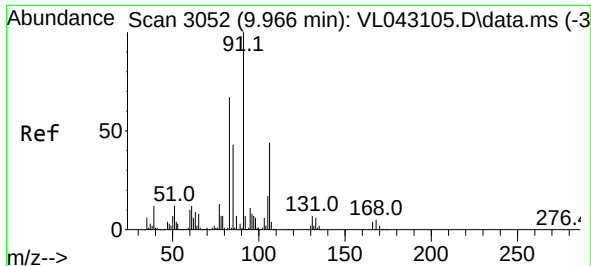
Tgt Ion:104 Resp: 247585  
Ion Ratio Lower Upper  
104 100  
78 51.2 40.2 60.2  
103 46.0 36.9 55.3



#62  
Isopropylbenzene  
Concen: 13.034 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 931508  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.2 30.4

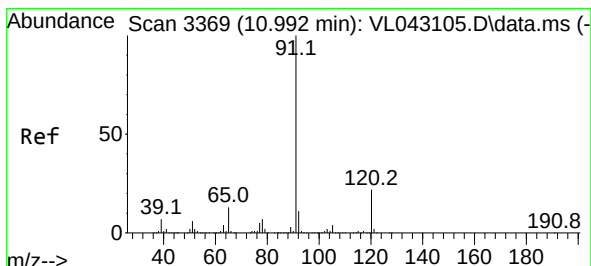
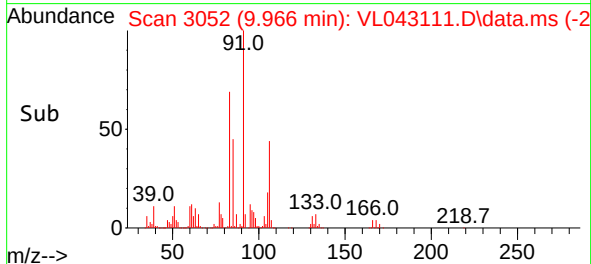
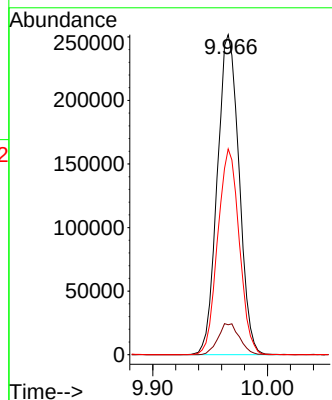
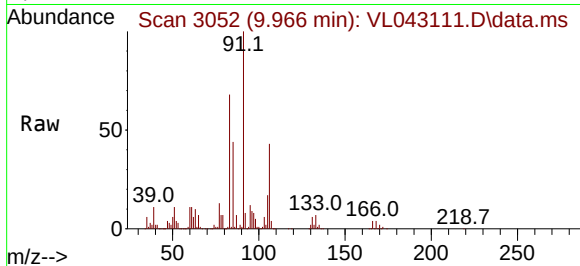




#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.515 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

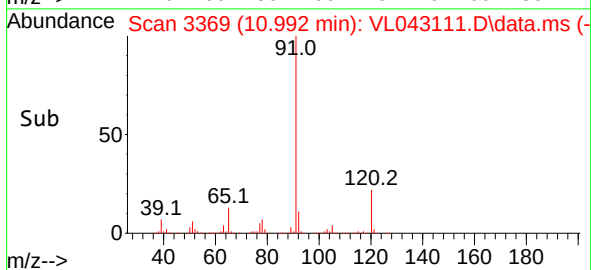
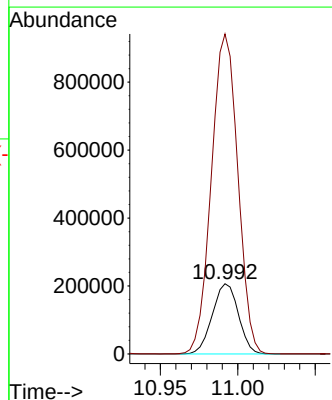
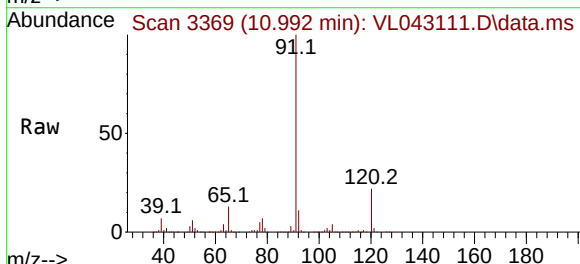
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC015

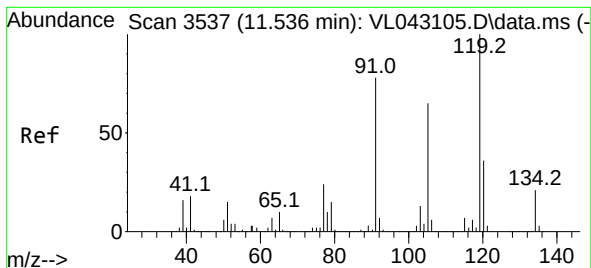
Tgt Ion: 83 Resp: 331423  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.8 14.3  
85 63.6 32.0 96.0



#64  
n-propylbenzene  
Concen: 12.775 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 120 Resp: 241719  
Ion Ratio Lower Upper  
120 100  
91 463.5 361.6 542.4

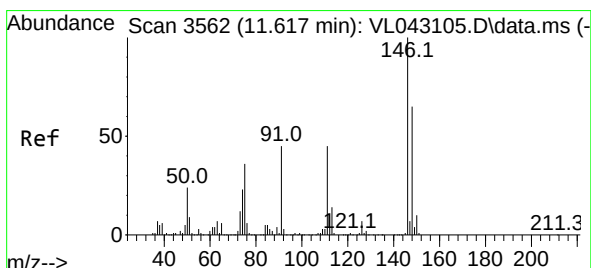
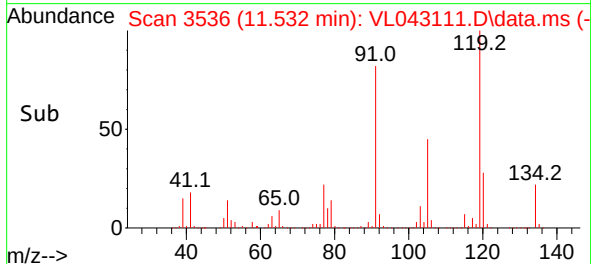
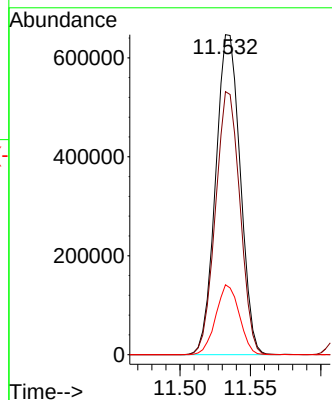
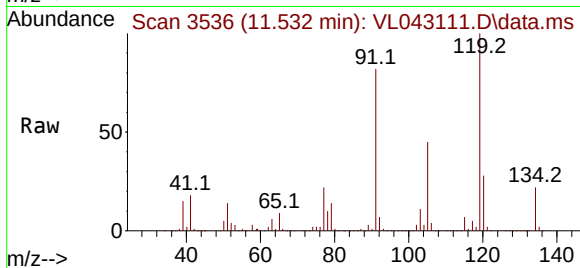




#65  
tert-Butylbenzene  
Concen: 12.490 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

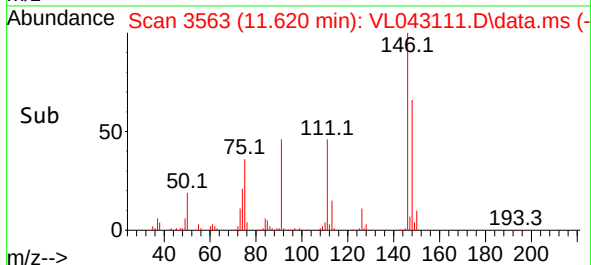
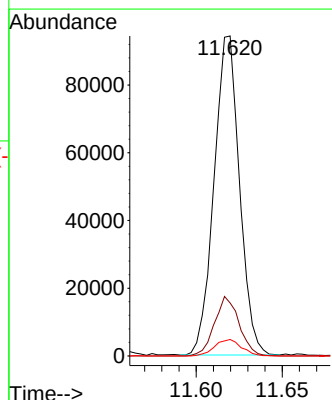
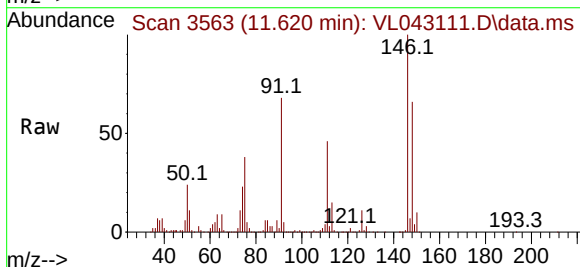
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion:119 Resp: 788234  
Ion Ratio Lower Upper  
119 100  
91 81.8 63.4 95.0  
134 20.8 17.3 25.9

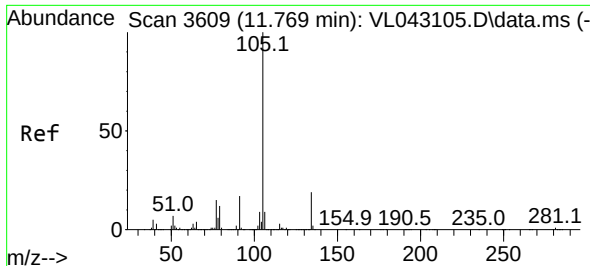


#66  
Benzyl Chloride  
Concen: 13.778 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 97114  
Ion Ratio Lower Upper  
91 100  
126 18.0 14.6 22.0  
128 5.4 4.6 6.8



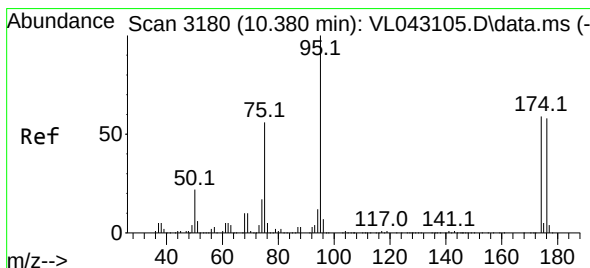
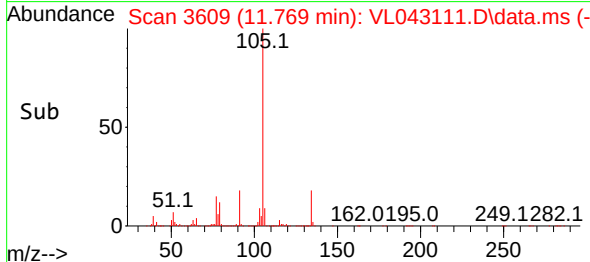
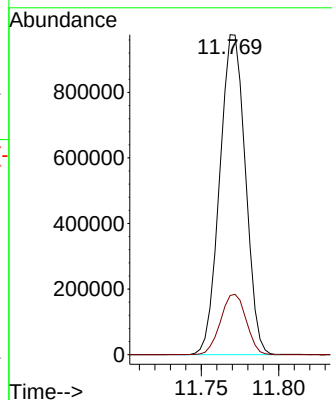
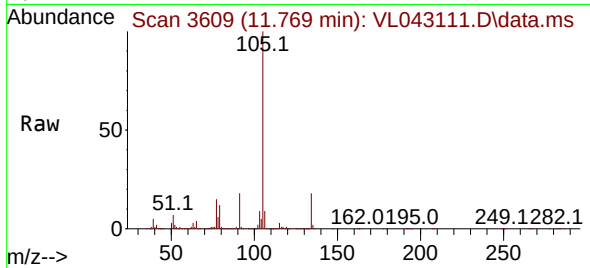




#67  
 sec-Butylbenzene  
 Concen: 12.566 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

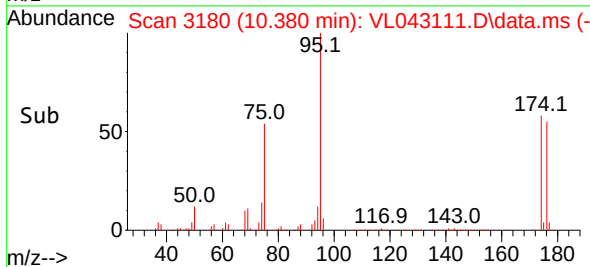
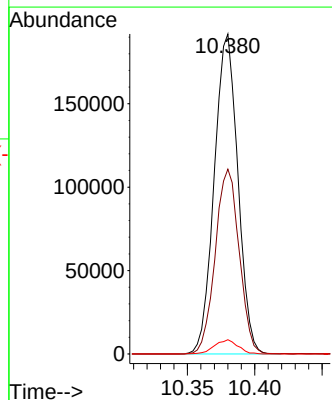
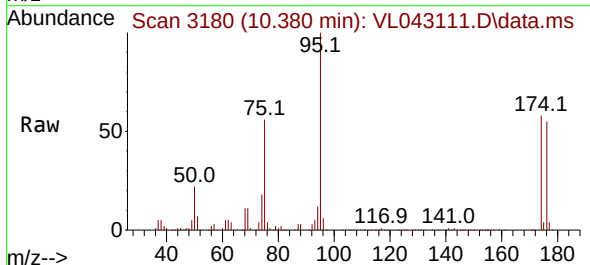
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

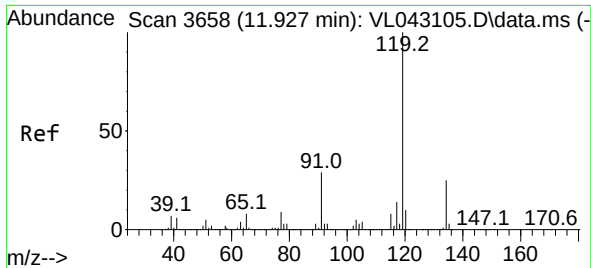
Tgt Ion:105 Resp: 1125489  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.270 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Tgt Ion: 95 Resp: 233522  
 Ion Ratio Lower Upper  
 95 100  
 174 58.7 48.3 72.5  
 175 4.4 3.8 5.8

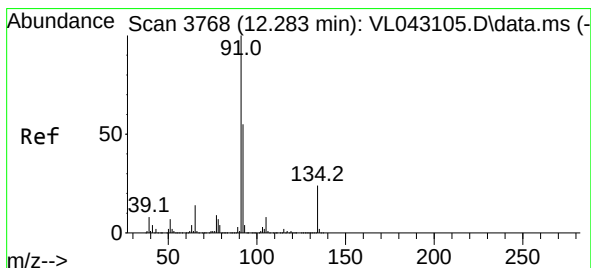
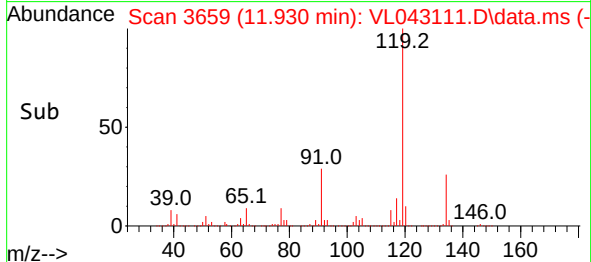
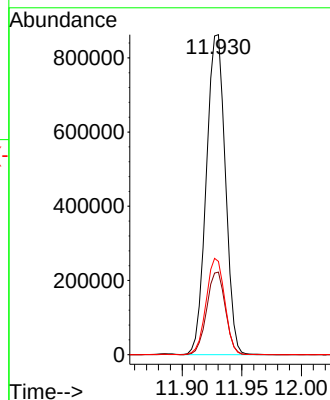
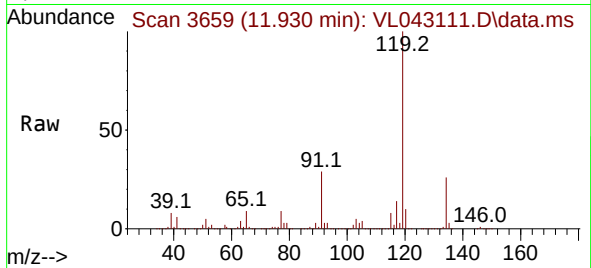




#69  
 p-Isopropyltoluene  
 Concen: 12.602 ppbv  
 RT: 11.930 min Scan# 3659  
 Delta R.T. 0.003 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

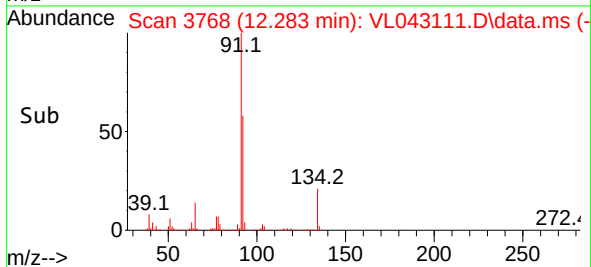
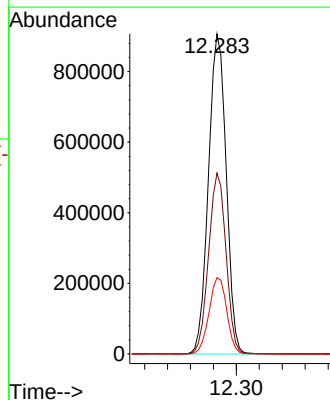
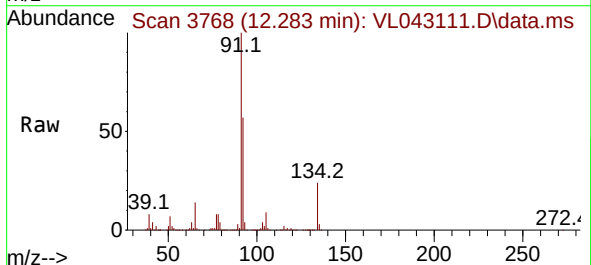
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

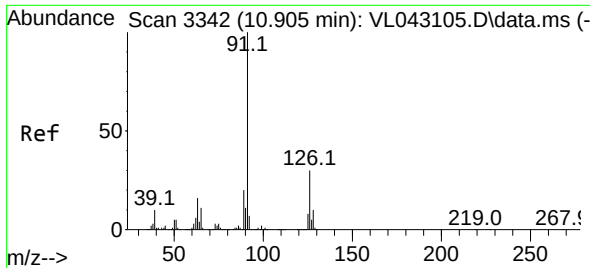
Tgt Ion:119 Resp: 959206  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 20.3 30.5  
 91 29.5 22.6 33.8



#70  
 n-Butylbenzene  
 Concen: 12.979 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Tgt Ion: 91 Resp: 973466  
 Ion Ratio Lower Upper  
 91 100  
 92 55.6 44.5 66.7  
 134 23.8 19.3 28.9

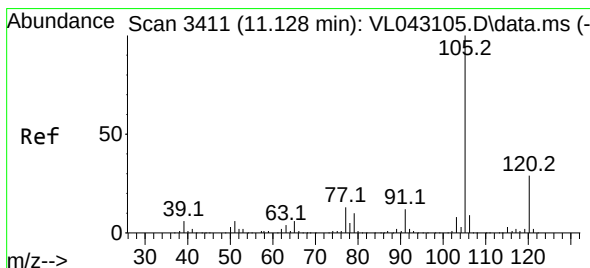
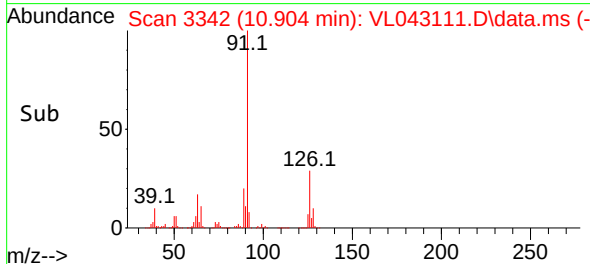
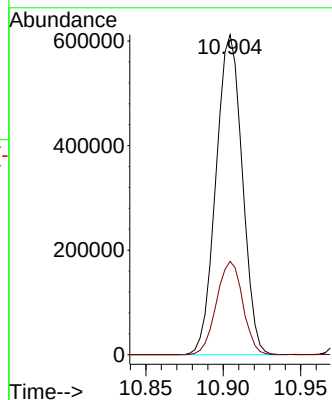
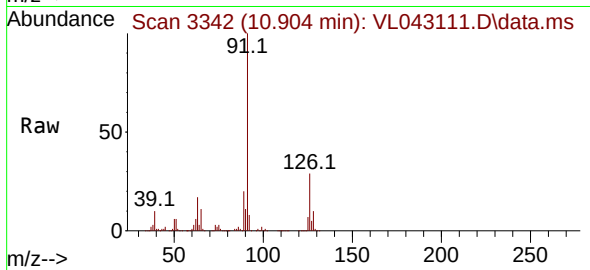




#71  
2-Chlorotoluene  
Concen: 13.242 ppbv  
RT: 10.904 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

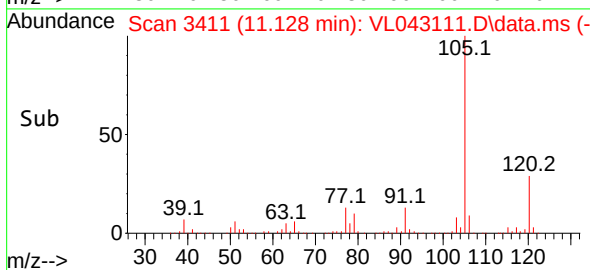
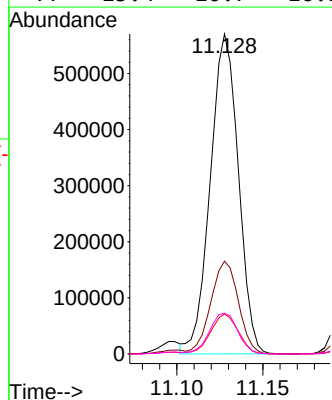
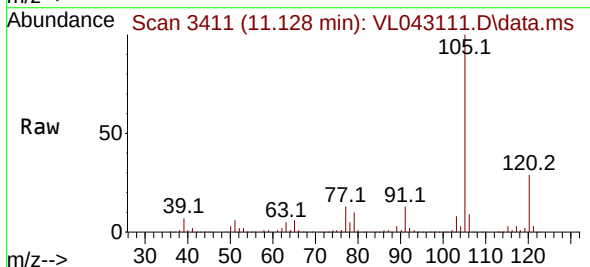
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

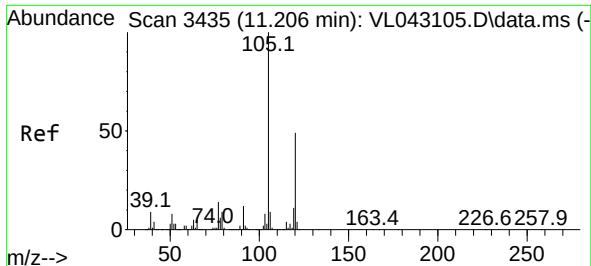
Tgt Ion: 91 Resp: 721827  
Ion Ratio Lower Upper  
91 100  
126 29.1 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 13.310 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion: 105 Resp: 647315  
Ion Ratio Lower Upper  
105 100  
120 29.6 24.2 36.4  
91 12.7 10.0 15.0  
77 13.4 10.7 16.1

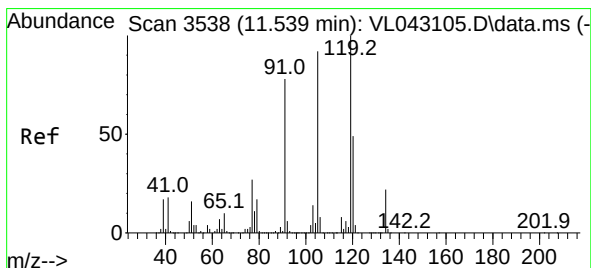
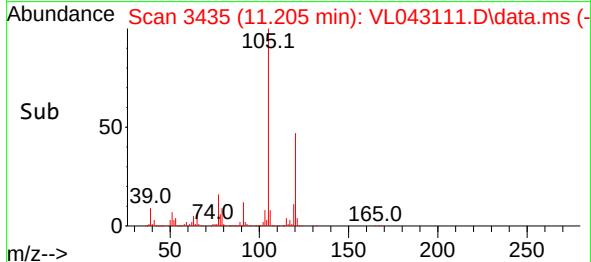
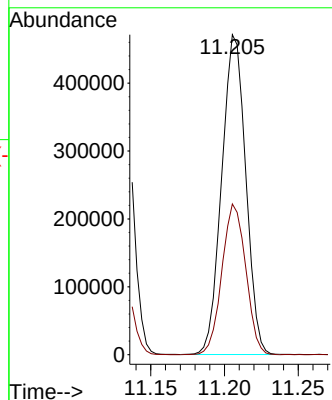
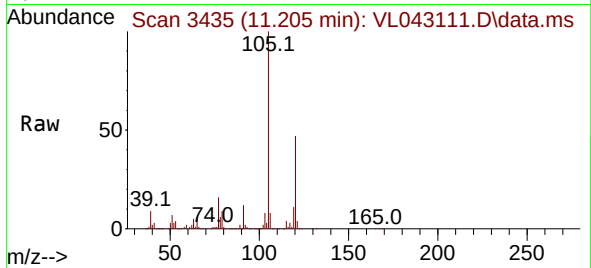




#73  
1,3,5-Trimethylbenzene  
Concen: 13.314 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

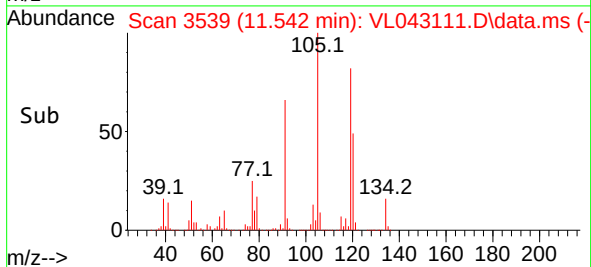
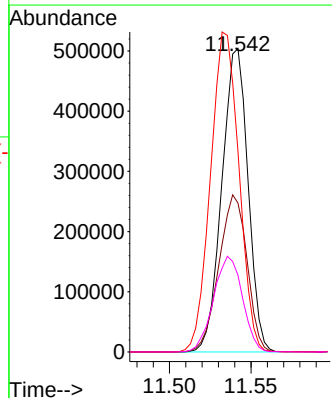
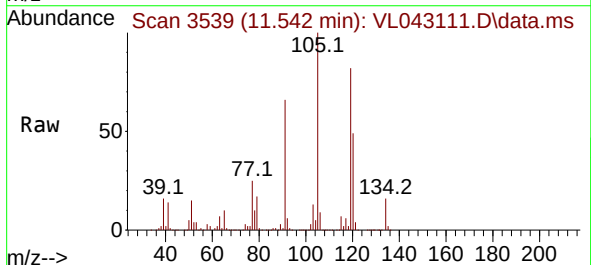
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

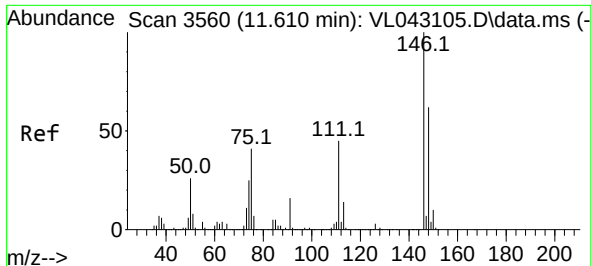
Tgt Ion:105 Resp: 534006  
Ion Ratio Lower Upper  
105 100  
120 47.1 39.0 58.6



#74  
1,2,4-Trimethylbenzene  
Concen: 12.498 ppbv  
RT: 11.542 min Scan# 3539  
Delta R.T. 0.003 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:105 Resp: 560932  
Ion Ratio Lower Upper  
105 100  
120 49.0 42.8 64.2  
91 66.0 68.3 102.5#  
77 25.2 23.4 35.0

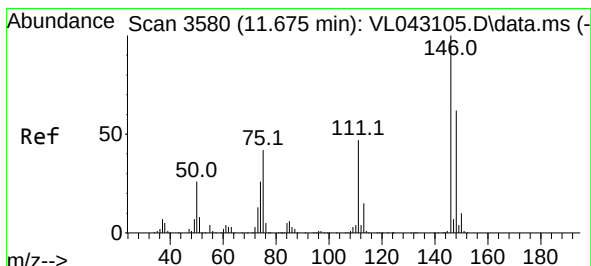
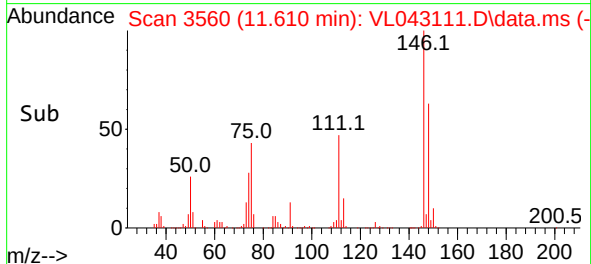
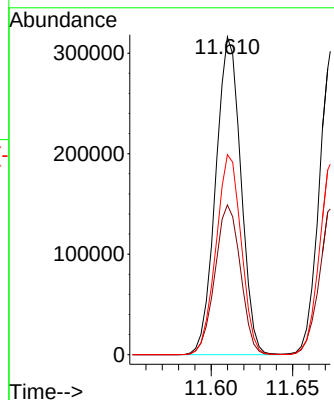
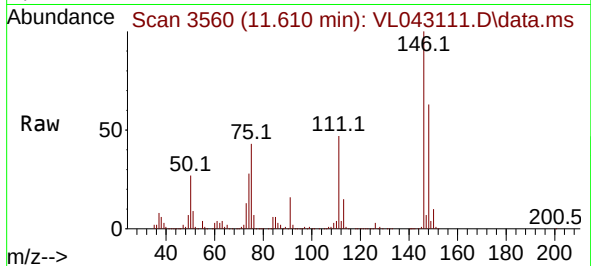




#75  
1,3-Dichlorobenzene  
Concen: 13.031 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

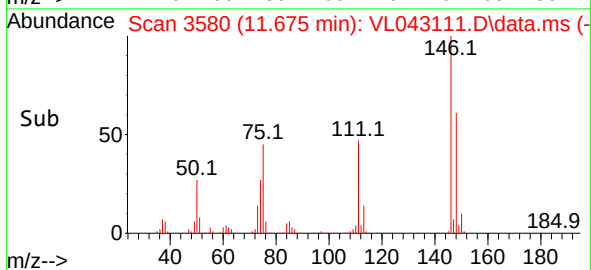
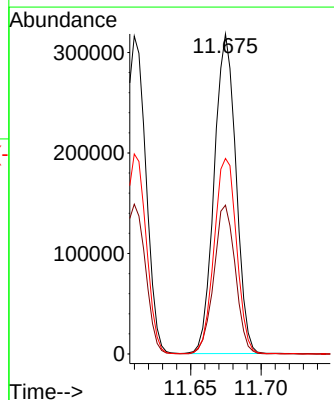
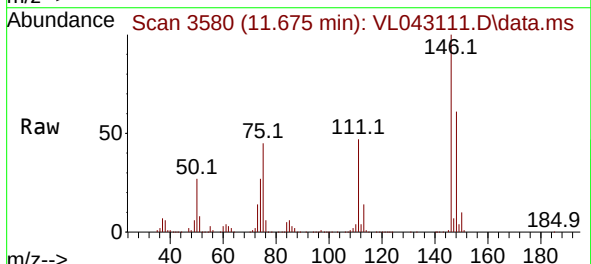
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

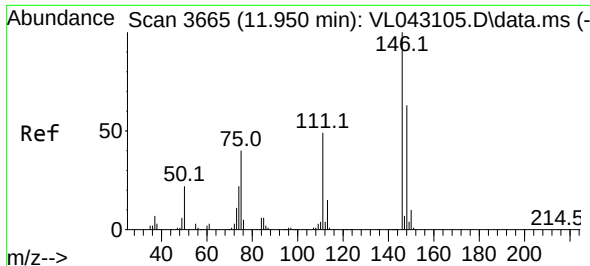
Tgt Ion:146 Resp: 339203  
Ion Ratio Lower Upper  
146 100  
111 47.7 23.3 69.9  
148 63.0 31.6 95.0



#76  
1,4-Dichlorobenzene  
Concen: 13.027 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:146 Resp: 341936  
Ion Ratio Lower Upper  
146 100  
111 46.1 22.4 67.0  
148 63.4 31.6 94.7

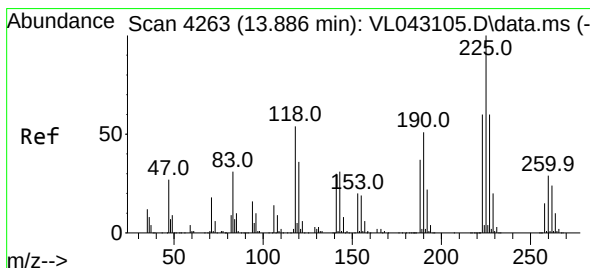
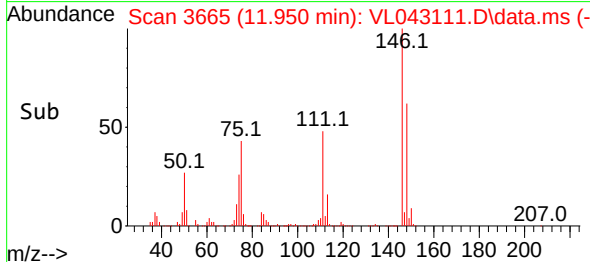
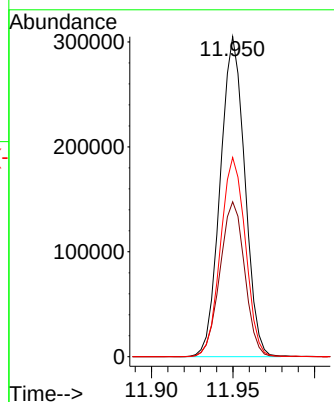
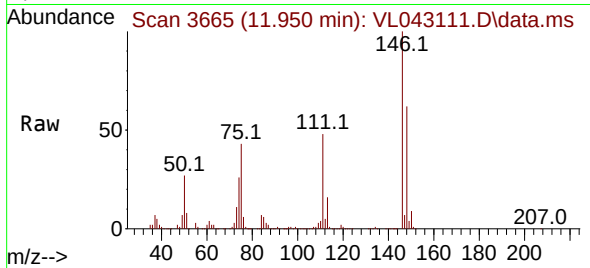




#77  
1,2-Dichlorobenzene  
Concen: 12.660 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. -0.000 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

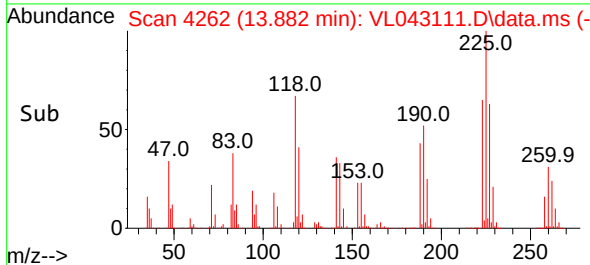
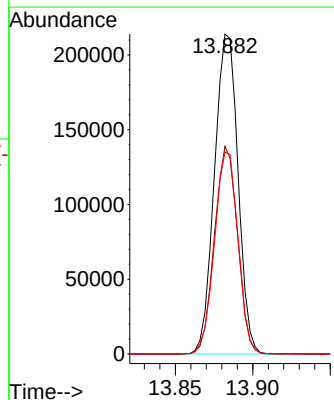
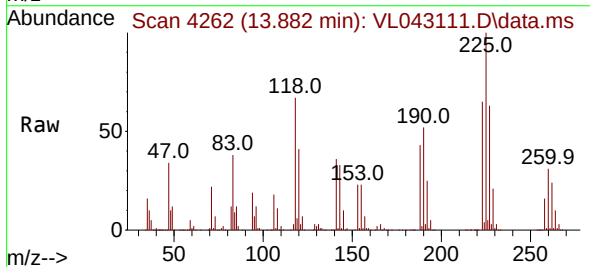
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

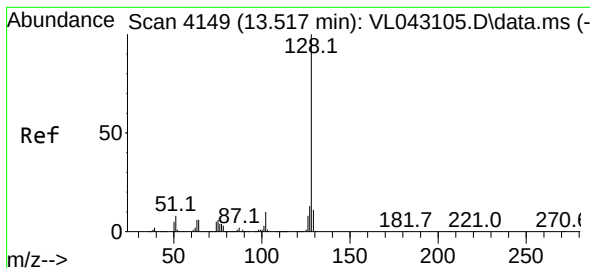
Tgt Ion:146 Resp: 318800  
Ion Ratio Lower Upper  
146 100  
111 48.8 24.0 72.0  
148 63.2 31.1 93.3



#78  
Hexachloro-1,3-Butadiene  
Concen: 11.606 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. -0.004 min  
Lab File: VL043111.D  
Acq: 14 Oct 2025 14:18

Tgt Ion:225 Resp: 226294  
Ion Ratio Lower Upper  
225 100  
223 63.5 50.2 75.4  
227 63.1 49.6 74.4





#79

Naphthalene

Concen: 14.260 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

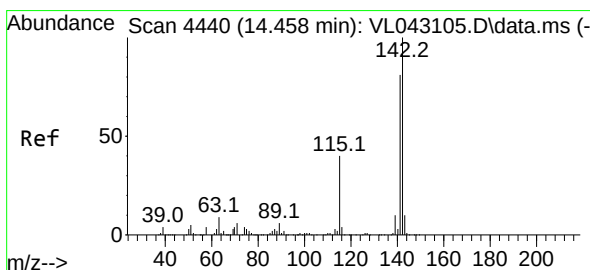
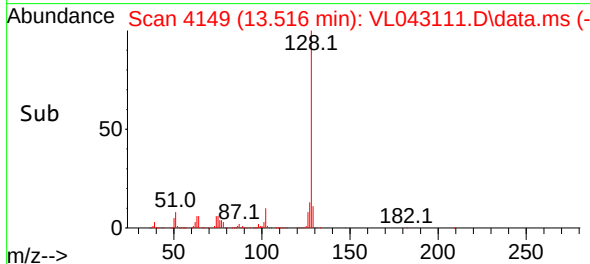
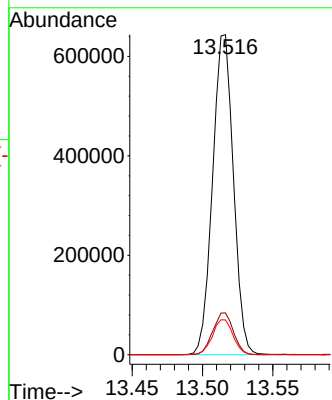
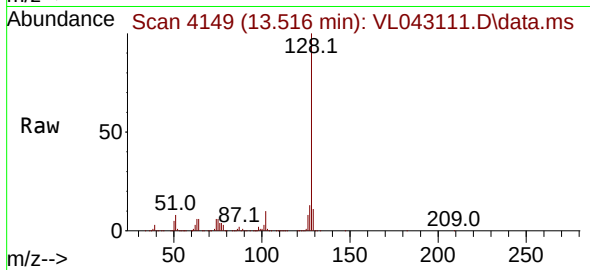
Tgt Ion:128 Resp: 661098

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 10.8 9.1 13.7



#80

Naphthalene, 2-methyl-

Concen: 17.384 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL043111.D

Acq: 14 Oct 2025 14:18

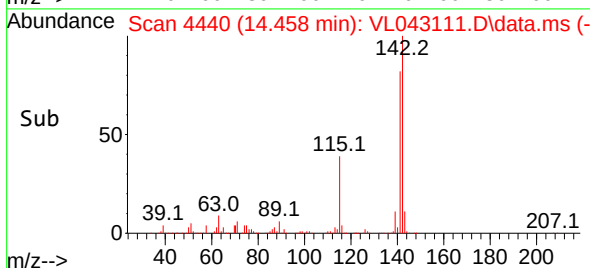
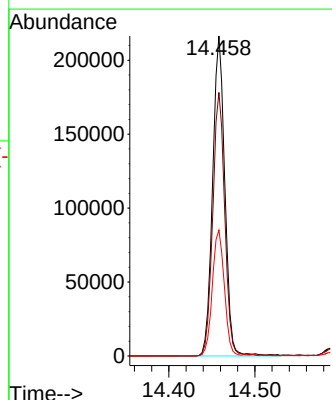
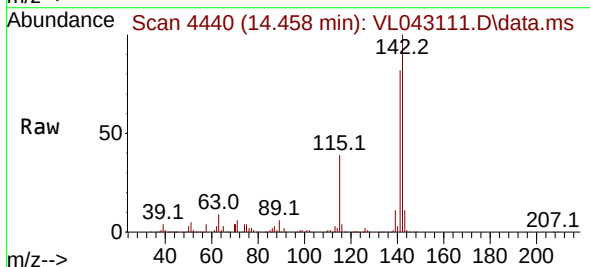
Tgt Ion:142 Resp: 212784

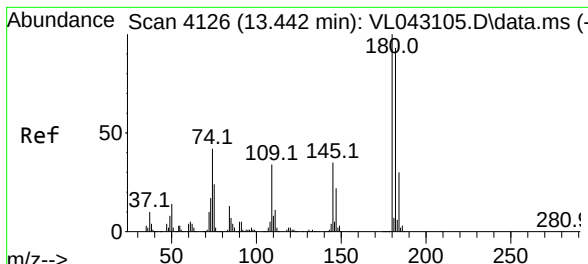
Ion Ratio Lower Upper

142 100

141 81.9 64.6 97.0

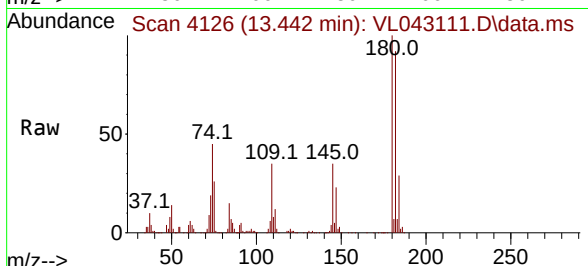
115 39.4 30.2 45.4



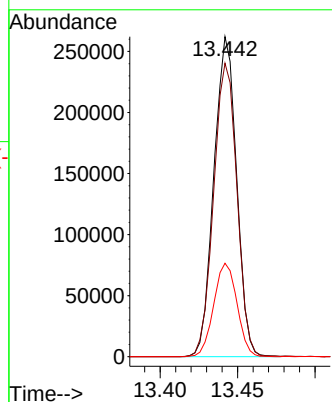
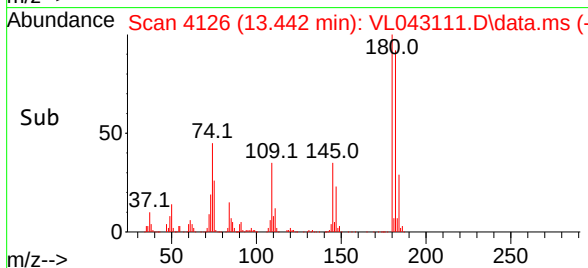


#81  
 1,2,4-Trichlorobenzene  
 Concen: 13.698 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL043111.D  
 Acq: 14 Oct 2025 14:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 266712 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.2  | 75.5  | 113.3  |
| 184      | 30.0  | 23.9  | 35.9   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043112.D  
 Acq On : 14 Oct 2025 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL101425

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 97563    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 325610   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 291676   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 229010 10.101 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

#### Target Compounds

|                               |       |     |        |       | Qvalue |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 130726 | 9.425 | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 138956 | 9.260 | ppbv   | 99  |
| 4) Chloromethane              | 1.538 | 50  | 48722  | 8.867 | ppbv   | 96  |
| 5) Vinyl Chloride             | 1.583 | 62  | 47005  | 8.722 | ppbv   | 97  |
| 6) Bromomethane               | 1.670 | 94  | 26304  | 8.901 | ppbv   | 98  |
| 7) Chloroethane               | 1.709 | 64  | 19138  | 8.685 | ppbv   | 100 |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 107147 | 9.558 | ppbv   | 99  |
| 9) Propene                    | 1.486 | 41  | 59287  | 8.908 | ppbv   | 98  |
| 10) Heptane                   | 4.991 | 43  | 165341 | 8.629 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 132447 | 9.762 | ppbv   | 94  |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 102449 | 9.380 | ppbv   | 98  |
| 13) Ethanol                   | 1.725 | 45  | 16837  | 6.839 | ppbv   | 96  |
| 14) Bromoethene               | 1.787 | 108 | 37835  | 9.324 | ppbv   | 100 |
| 15) Acetone                   | 1.839 | 43  | 108010 | 8.214 | ppbv   | 99  |
| 16) 1,3-Butadiene             | 1.612 | 39  | 55493  | 8.855 | ppbv   | 98  |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 162672 | 9.012 | ppbv   | 97  |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 46544  | 9.774 | ppbv   | 93  |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 67552  | 8.248 | ppbv   | 97  |
| 20) Methylene Chloride        | 2.065 | 84  | 40319  | 7.757 | ppbv   | 89  |
| 21) Allyl Chloride            | 2.101 | 41  | 88965  | 9.181 | ppbv   | 96  |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 51295  | 9.011 | ppbv   | 93  |
| 23) Vinyl Acetate             | 2.467 | 43  | 185329 | 9.621 | ppbv   | 98  |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 102877 | 9.355 | ppbv   | 98  |
| 25) Ethyl Acetate             | 2.839 | 43  | 292399 | 8.966 | ppbv   | 100 |
| 26) Hexane                    | 2.832 | 57  | 135463 | 9.015 | ppbv   | 97  |
| 27) Carbon Disulfide          | 2.156 | 76  | 131064 | 9.520 | ppbv   | 100 |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 67260  | 9.839 | ppbv   | 97  |
| 29) Chloroform                | 2.852 | 83  | 204925 | 9.412 | ppbv   | 95  |
| 30) Cyclohexane               | 3.865 | 84  | 119287 | 9.096 | ppbv   | 96  |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 137462 | 9.580 | ppbv   | 98  |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 219167 | 9.666 | ppbv   | 98  |
| 34) 2-Butanone                | 2.560 | 43  | 188755 | 8.624 | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.771 | 117 | 217678 | 9.298 | ppbv   | 96  |
| 36) Benzene                   | 3.664 | 78  | 278365 | 9.077 | ppbv   | 97  |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 161750 | 9.156 | ppbv   | 98  |
| 38) Trichloroethene           | 4.557 | 130 | 108261 | 8.453 | ppbv   | 96  |
| 39) 1,2-Dichloropropane       | 4.321 | 63  | 100580 | 8.971 | ppbv   | 96  |
| 40) 1,4-Dioxane               | 4.587 | 88  | 41464  | 8.265 | ppbv # | 95  |
| 41) Tetrahydrofuran           | 3.056 | 42  | 104701 | 8.553 | ppbv   | 99  |
| 42) Bromodichloromethane      | 4.496 | 83  | 228288 | 9.336 | ppbv   | 96  |
| 43) Methyl Methacrylate       | 4.884 | 69  | 138593 | 8.898 | ppbv   | 99  |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 452117 | 8.738 | ppbv   | 99  |
| 45) t-1,3-Dichloropropene     | 6.422 | 75  | 142964 | 9.146 | ppbv   | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043112.D  
 Acq On : 14 Oct 2025 14:51  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425

Quant Time: Oct 15 02:14:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 02:12:58 2025

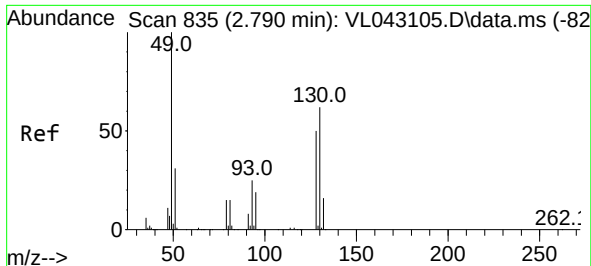
Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 170038   | 9.106  | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 108965   | 9.000  | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.396  | 129  | 184757   | 9.127  | ppbv   | 100      |
| 49) Bromoform                 | 9.490  | 173  | 147759   | 8.980  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 263070   | 8.709  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.441  | 43   | 203876   | 8.999  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.231  | 164  | 96000    | 8.681  | ppbv   | 97       |
| 53) Toluene                   | 6.943  | 91   | 324944   | 8.928  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 167936   | 8.856  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 166059   | 9.031  | ppbv   | 98       |
| 57) Chlorobenzene             | 8.930  | 112  | 239309   | 8.770  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.361  | 91   | 450029   | 8.990  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.539  | 91   | 392158   | 9.822  | ppbv # | 29       |
| 60) o-Xylene                  | 9.969  | 91   | 348346   | 8.834  | ppbv   | 100      |
| 61) Styrene                   | 9.878  | 104  | 161979   | 9.099  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.545 | 105  | 621758   | 8.726  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 215911   | 8.177  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 160411   | 8.503  | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 532570   | 8.464  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.620 | 91   | 58169    | 8.306  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 762711   | 8.541  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 638261   | 8.411  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.286 | 91   | 641547   | 8.579  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 479799   | 8.828  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 427034   | 8.807  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 354875   | 8.874  | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 372506   | 8.324  | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 219423   | 8.454  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 221364   | 8.458  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 204178   | 8.132  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 144646   | 7.440  | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 389814   | 8.334  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 123632   | 10.146 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 162553   | 8.373  | ppbv   | 98       |

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 9
- 10
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- 14
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- 16
- 17
- 18

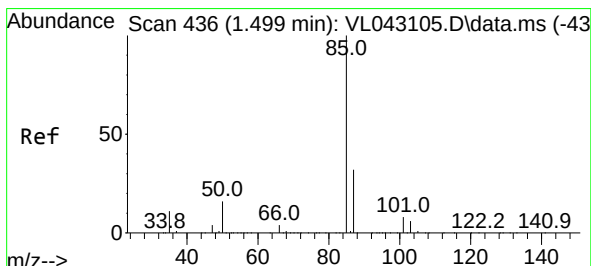
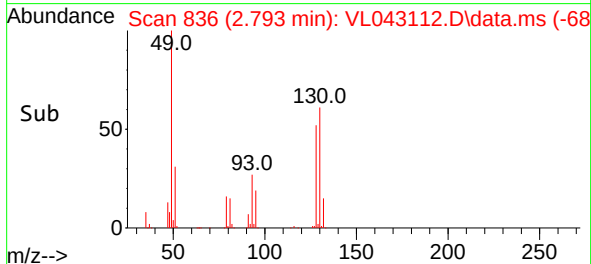
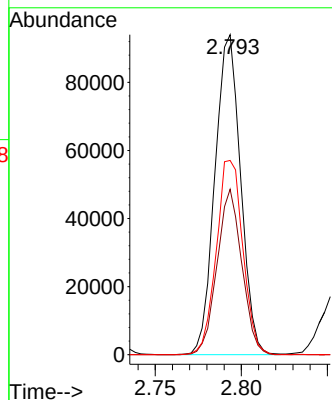
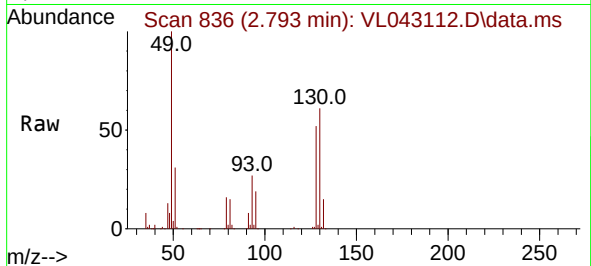




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.793 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

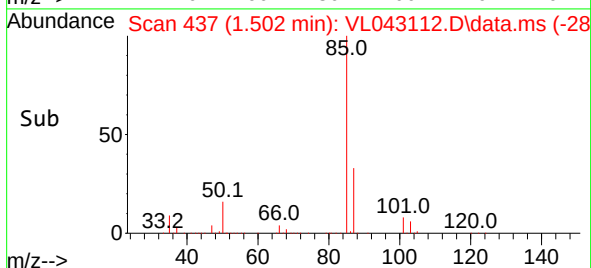
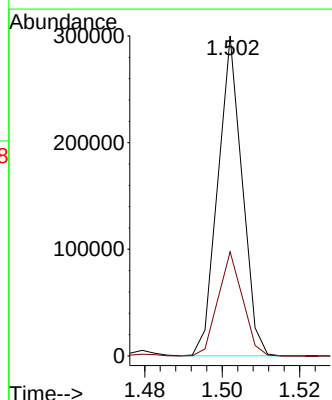
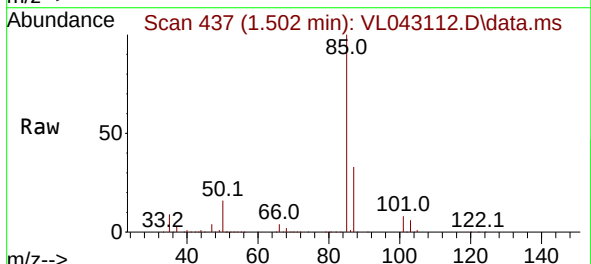
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

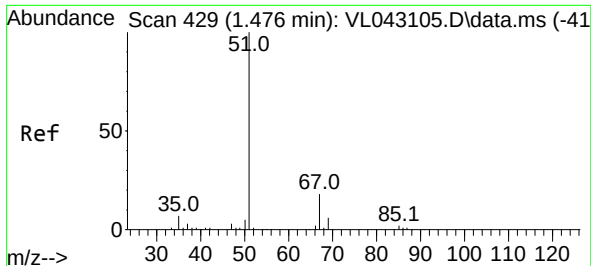
Tgt Ion: 49 Resp: 97563  
Ion Ratio Lower Upper  
49 100  
128 50.0 24.4 73.4  
130 62.8 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 9.425 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 130726  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.3 37.9

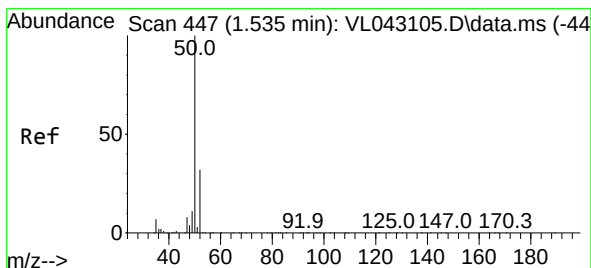
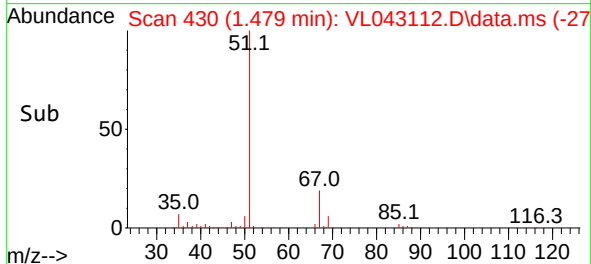
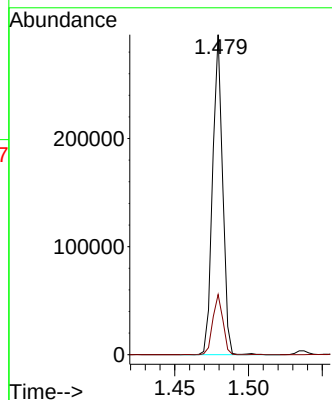
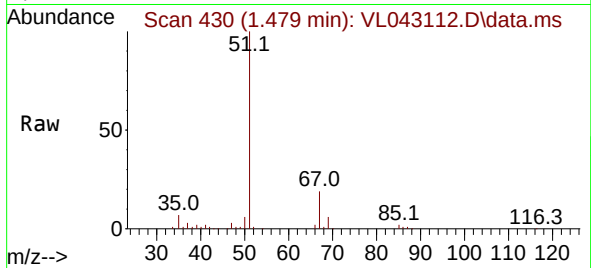




#3  
Chlorodifluoromethane  
Concen: 9.260 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

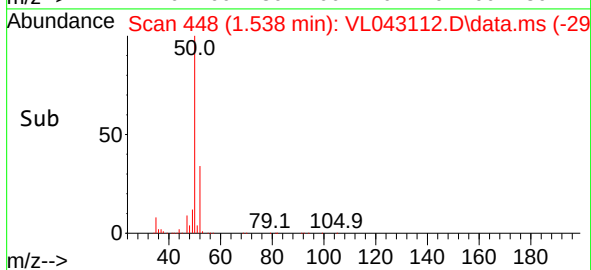
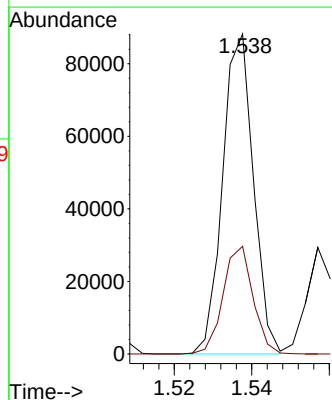
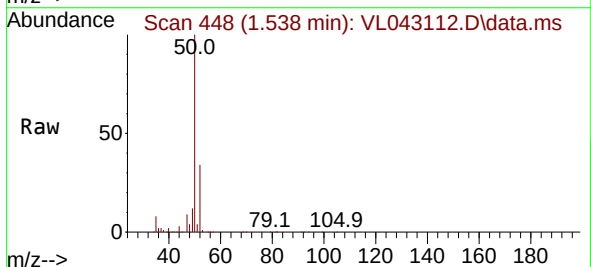
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

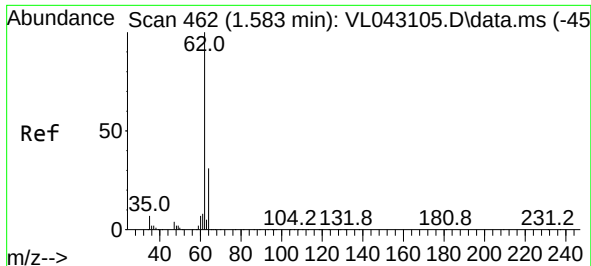
Tgt Ion: 51 Resp: 138956  
Ion Ratio Lower Upper  
51 100  
67 19.1 15.1 22.7



#4  
Chloromethane  
Concen: 8.867 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 50 Resp: 48722  
Ion Ratio Lower Upper  
50 100  
52 33.4 25.2 37.8

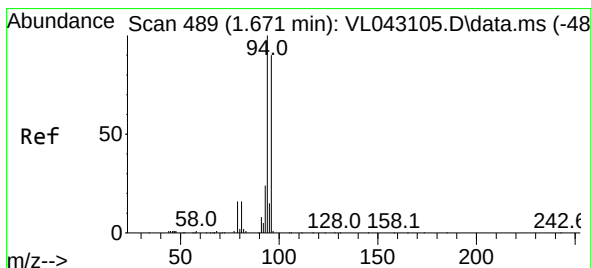
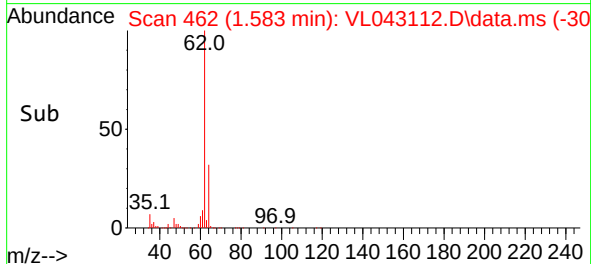
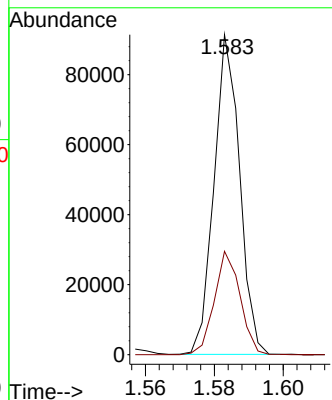
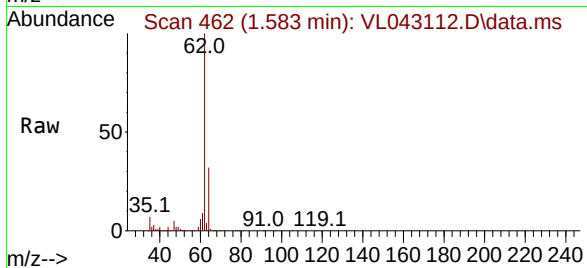




#5  
 Vinyl Chloride  
 Concen: 8.722 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

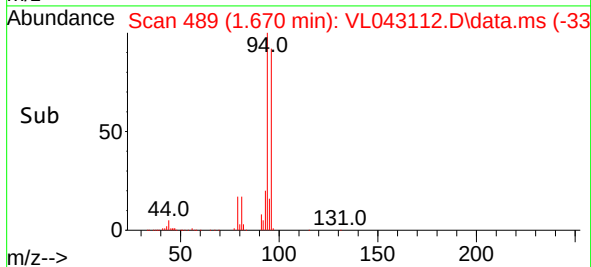
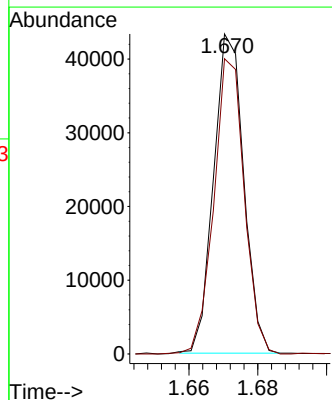
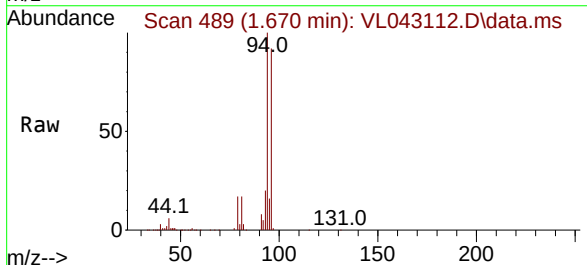
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL101425

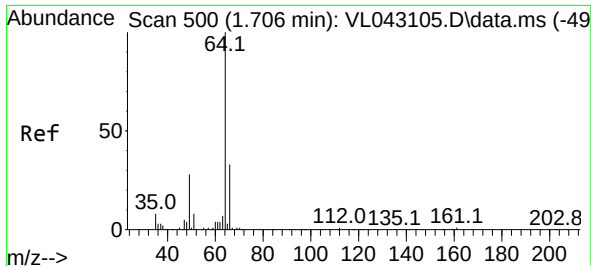
Tgt Ion: 62 Resp: 47005  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 24.6 36.8



#6  
 Bromomethane  
 Concen: 8.901 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Tgt Ion: 94 Resp: 26304  
 Ion Ratio Lower Upper  
 94 100  
 96 92.5 72.2 108.4

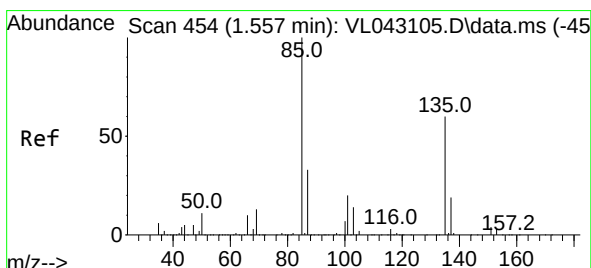
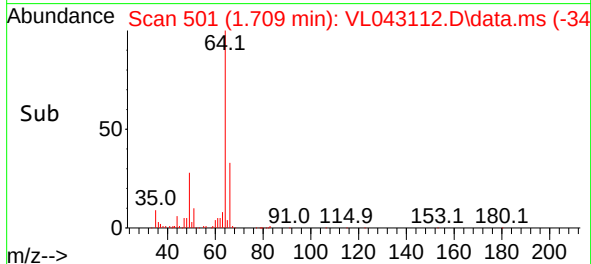
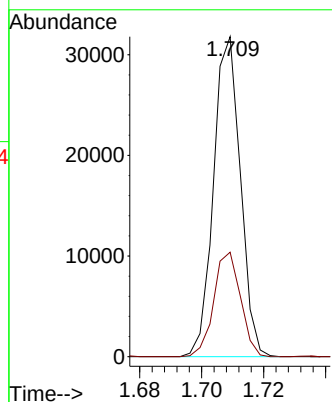
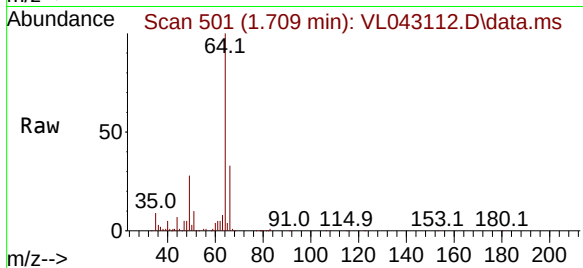




#7  
Chloroethane  
Concen: 8.685 ppbv  
RT: 1.709 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

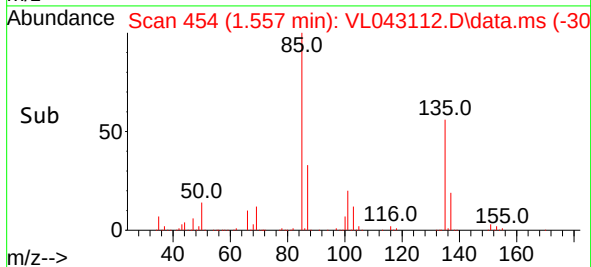
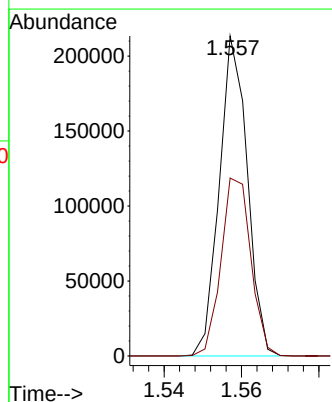
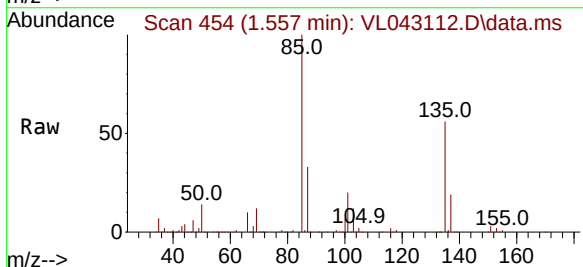
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

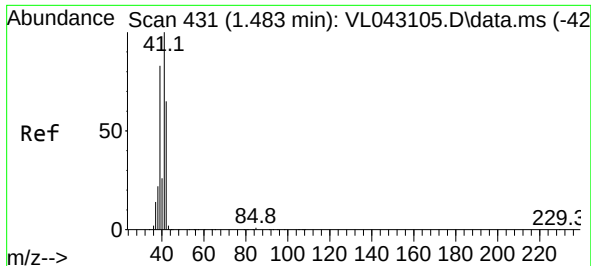
Tgt Ion: 64 Resp: 19138  
Ion Ratio Lower Upper  
64 100  
66 32.7 26.0 39.0



#8  
Dichlorotetrafluoroethane  
Concen: 9.558 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 85 Resp: 107147  
Ion Ratio Lower Upper  
85 100  
135 59.5 48.2 72.4

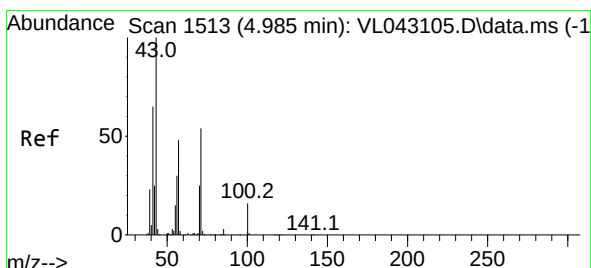
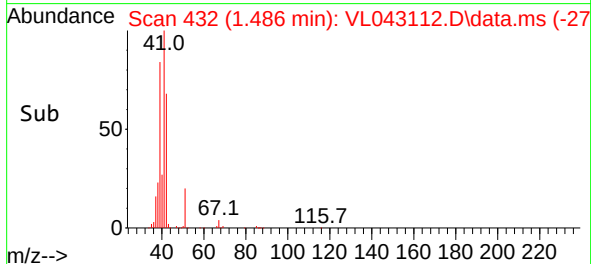
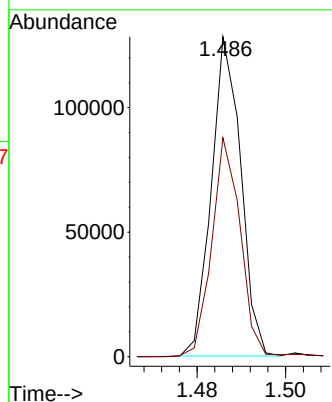
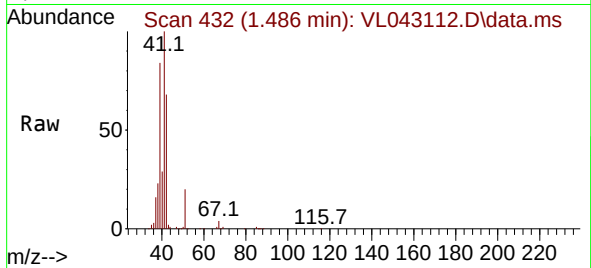




#9  
Propene  
Concen: 8.908 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

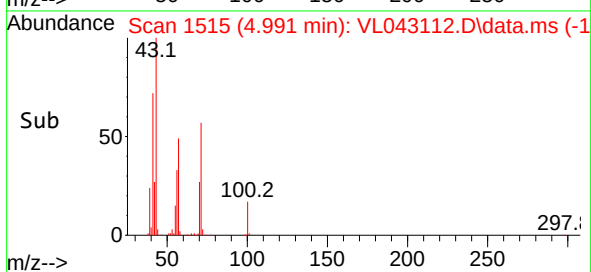
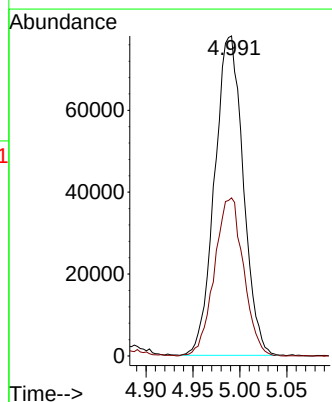
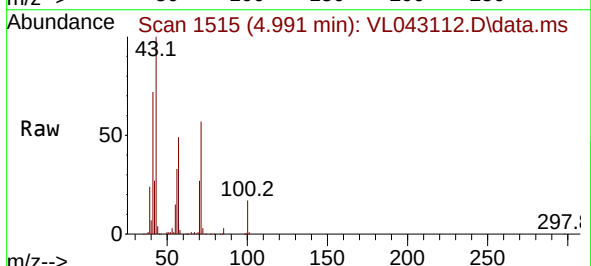
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 41 Resp: 59287  
Ion Ratio Lower Upper  
41 100  
42 67.3 55.1 82.7

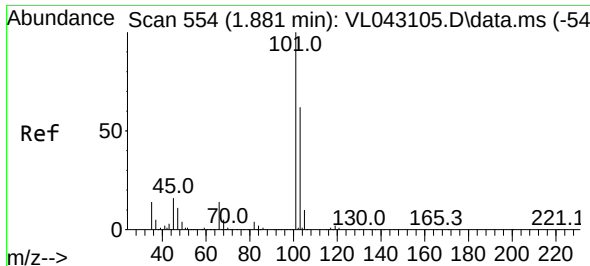


#10  
Heptane  
Concen: 8.629 ppbv  
RT: 4.991 min Scan# 1515  
Delta R.T. 0.006 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 165341  
Ion Ratio Lower Upper  
43 100  
57 50.4 40.8 61.2



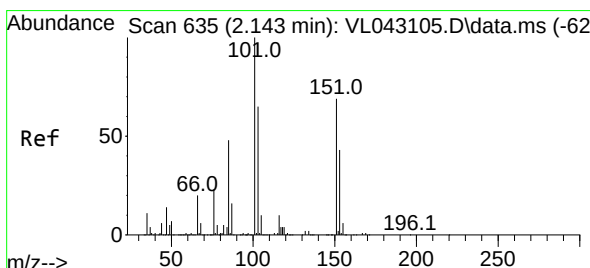
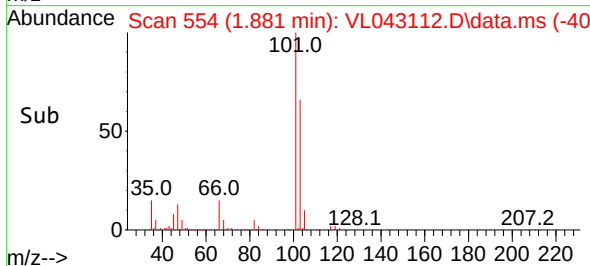
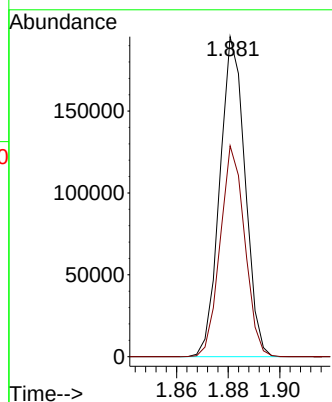
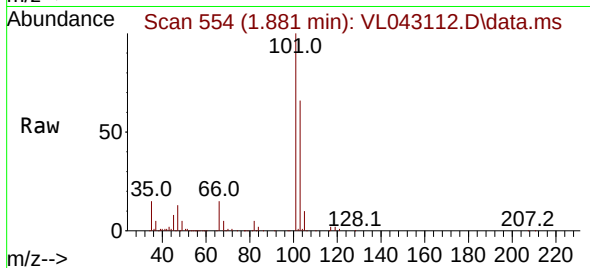




#11  
 Trichlorofluoromethane  
 Concen: 9.762 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

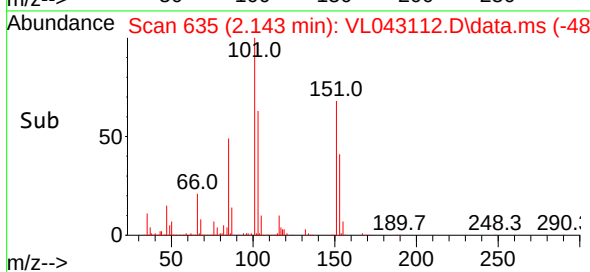
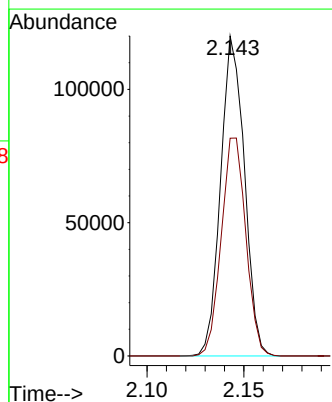
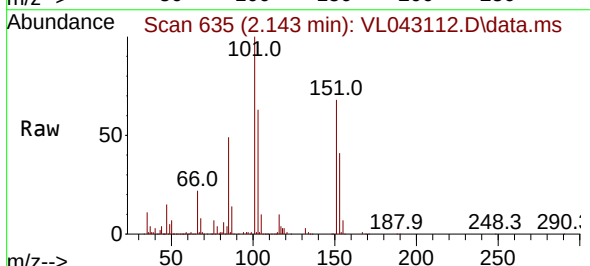
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425

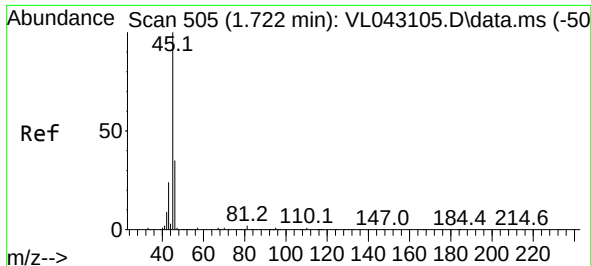
Tgt Ion:101 Resp: 132447  
 Ion Ratio Lower Upper  
 101 100  
 103 65.9 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.380 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Tgt Ion:101 Resp: 102449  
 Ion Ratio Lower Upper  
 101 100  
 151 70.4 54.7 82.1

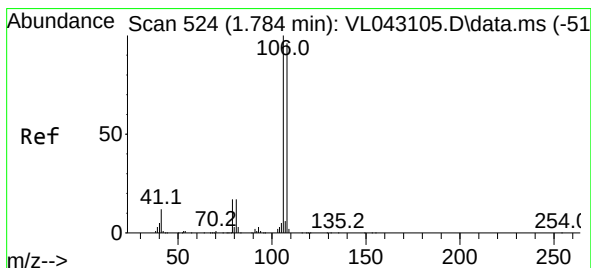
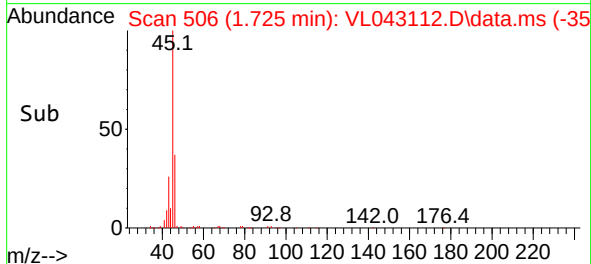
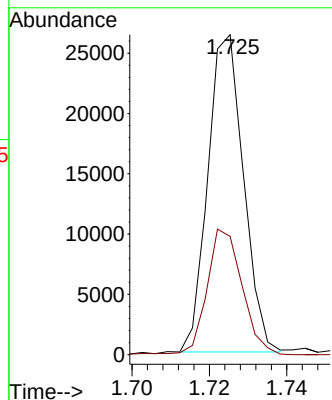
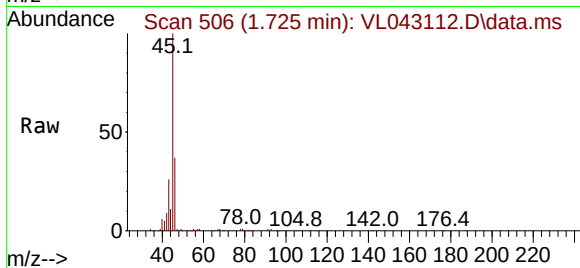




#13  
Ethanol  
Concen: 6.839 ppbv  
RT: 1.725 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

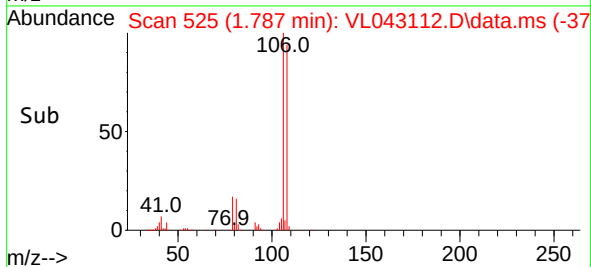
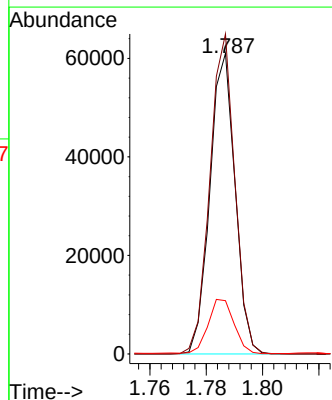
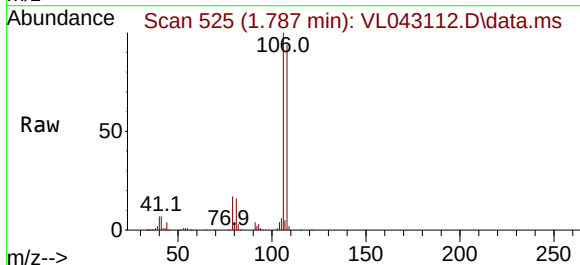
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

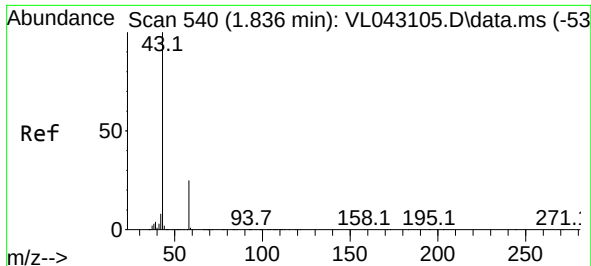
Tgt Ion: 45 Resp: 16837  
Ion Ratio Lower Upper  
45 100  
46 39.2 14.7 58.9



#14  
Bromoethene  
Concen: 9.324 ppbv  
RT: 1.787 min Scan# 525  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 108 Resp: 37835  
Ion Ratio Lower Upper  
108 100  
106 105.3 84.4 126.6  
79 18.7 15.3 22.9

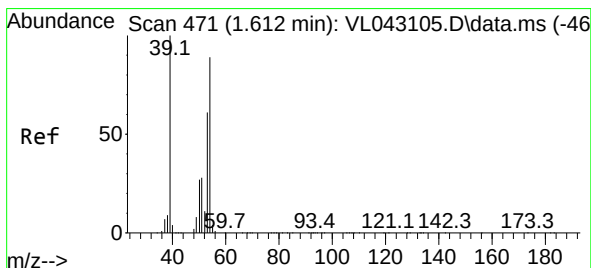
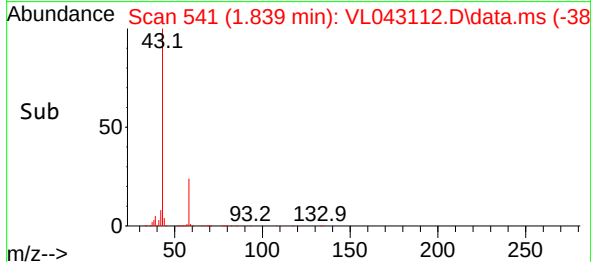
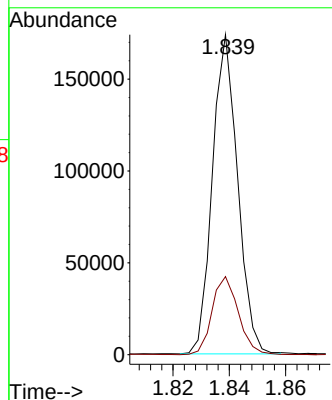
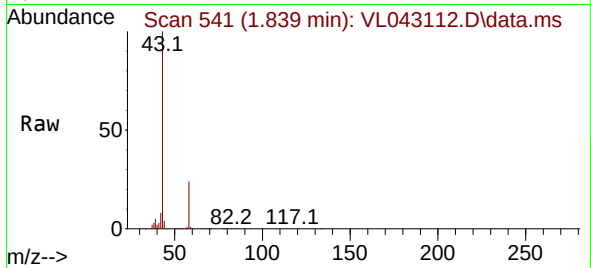




#15  
Acetone  
Concen: 8.214 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

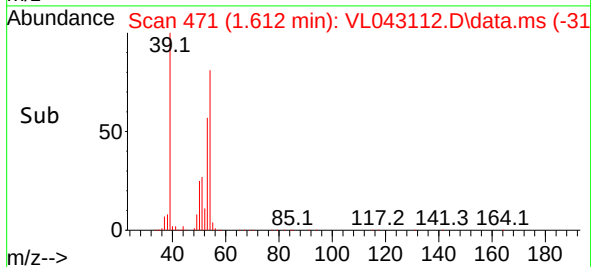
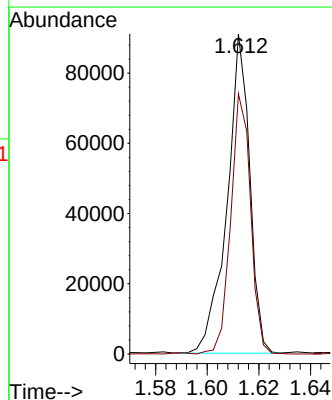
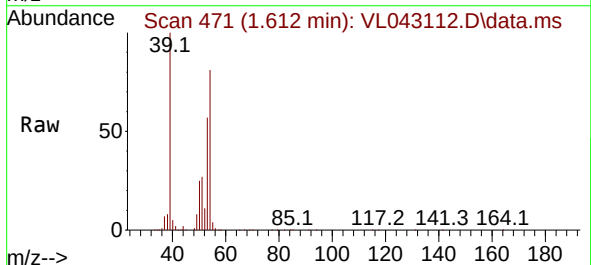
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

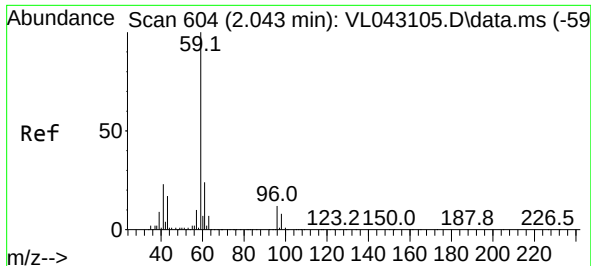
Tgt Ion: 43 Resp: 108010  
Ion Ratio Lower Upper  
43 100  
58 25.7 20.8 31.2



#16  
1,3-Butadiene  
Concen: 8.855 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 39 Resp: 55493  
Ion Ratio Lower Upper  
39 100  
54 72.0 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.012 ppbv

RT: 2.043 min Scan# 604

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_1

ClientSampleId :

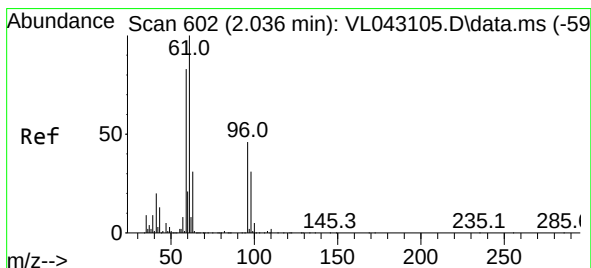
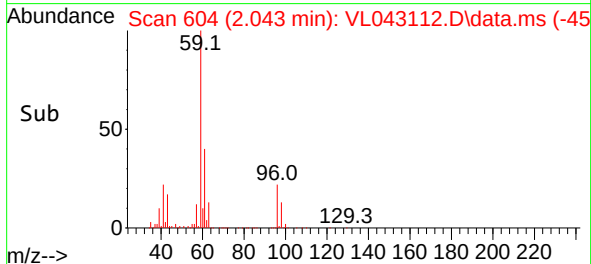
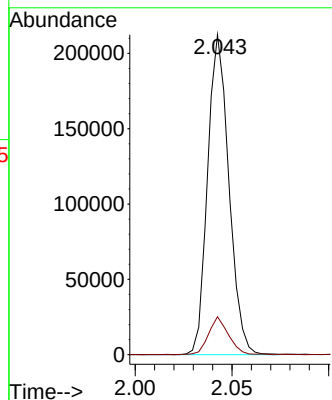
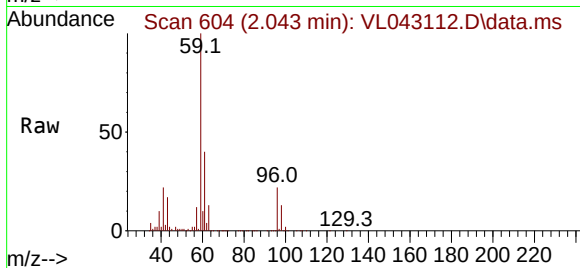
ICVVL101425

Tgt Ion: 59 Resp: 162672

Ion Ratio Lower Upper

59 100

57 11.4 8.2 12.4



#18

1,1-Dichloroethene

Concen: 9.774 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

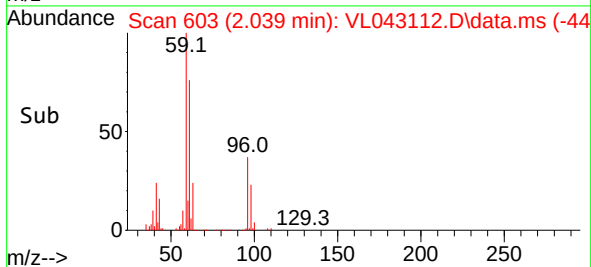
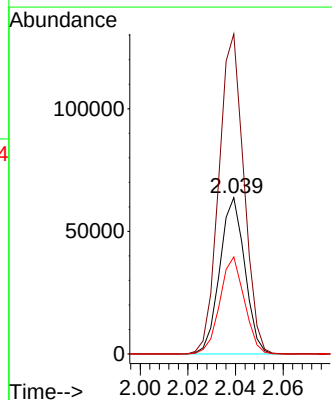
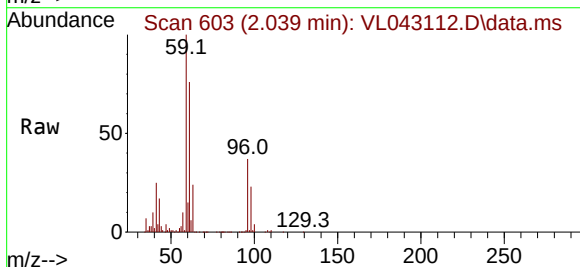
Tgt Ion: 96 Resp: 46544

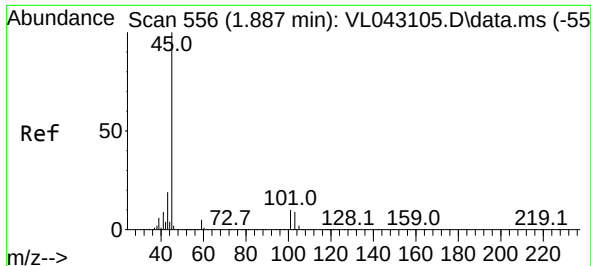
Ion Ratio Lower Upper

96 100

61 204.7 173.4 260.0

98 62.1 53.2 79.8

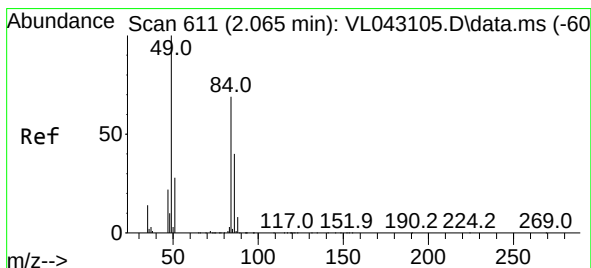
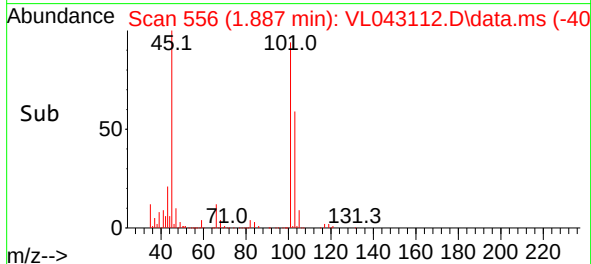
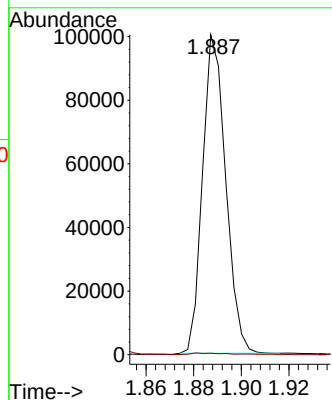
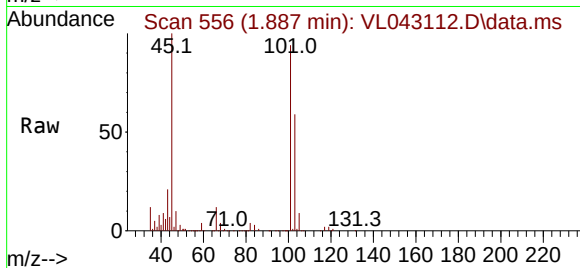




#19  
Isopropyl Alcohol  
Concen: 8.248 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

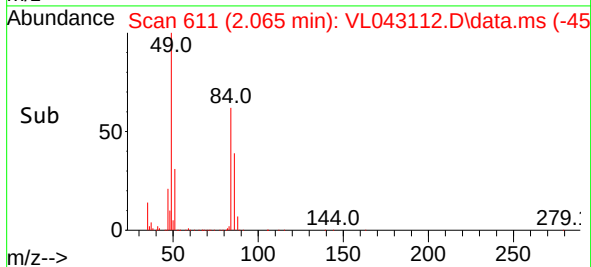
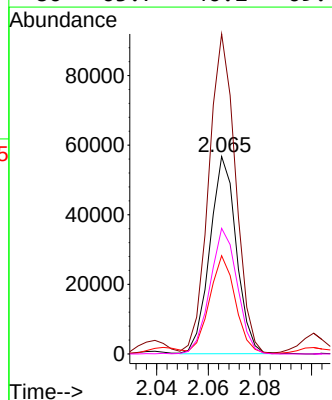
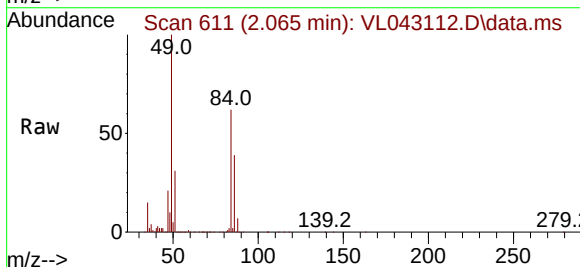
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

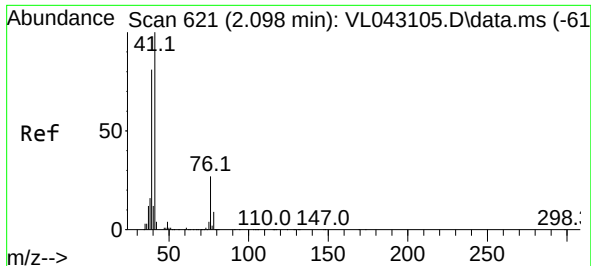
Tgt Ion: 45 Resp: 67552  
Ion Ratio Lower Upper  
45 100  
58 41.1 31.3 46.9



#20  
Methylene Chloride  
Concen: 7.757 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 84 Resp: 40319  
Ion Ratio Lower Upper  
84 100  
49 161.4 116.6 175.0  
51 49.4 34.8 52.2  
86 63.7 46.2 69.4

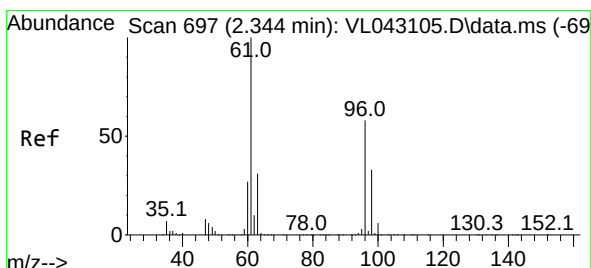
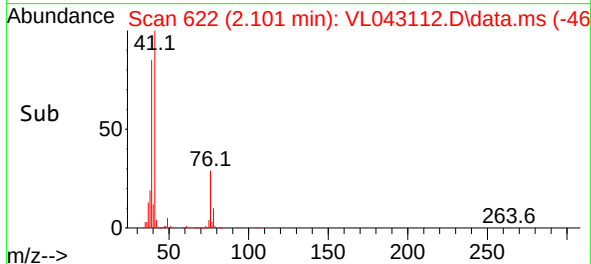
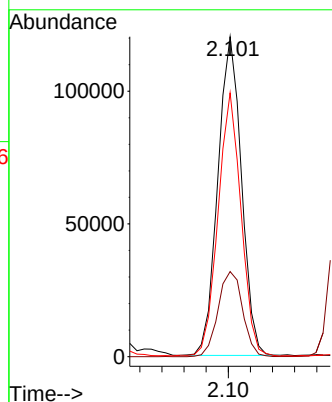
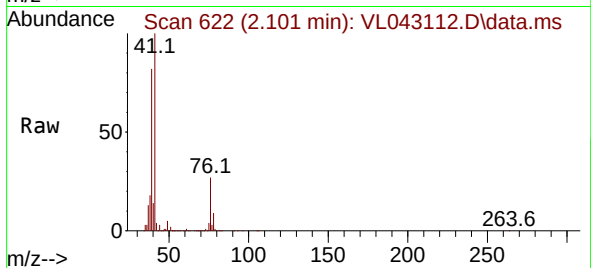




#21  
 Allyl Chloride  
 Concen: 9.181 ppbv  
 RT: 2.101 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

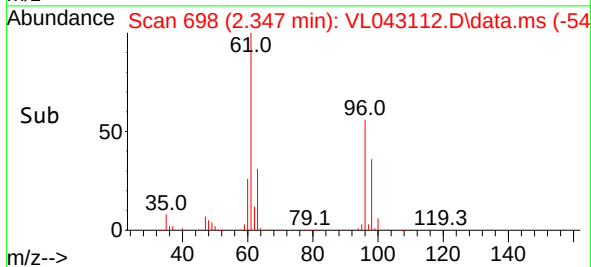
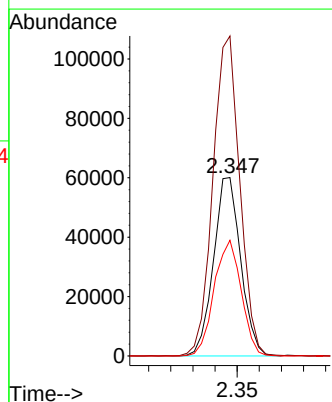
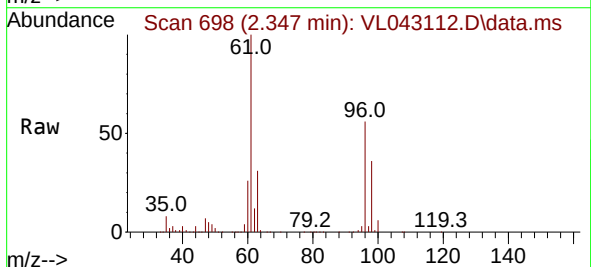
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425

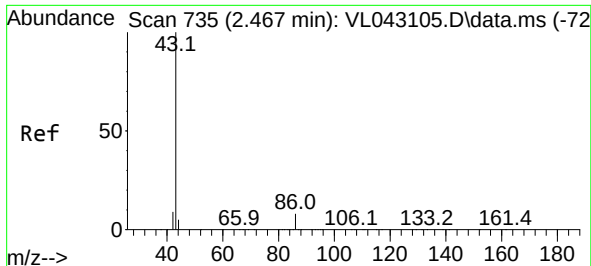
Tgt Ion: 41 Resp: 88965  
 Ion Ratio Lower Upper  
 41 100  
 76 27.7 21.5 32.3  
 39 80.2 60.8 91.2



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.011 ppbv  
 RT: 2.347 min Scan# 698  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Tgt Ion: 96 Resp: 51295  
 Ion Ratio Lower Upper  
 96 100  
 61 179.2 137.0 205.6  
 98 64.8 45.5 68.3



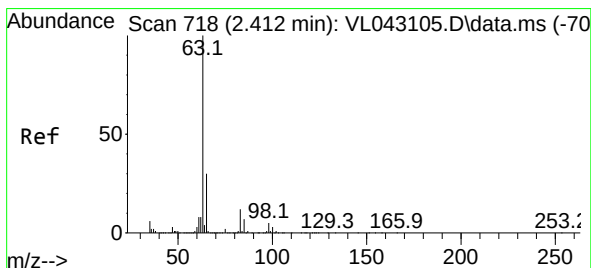
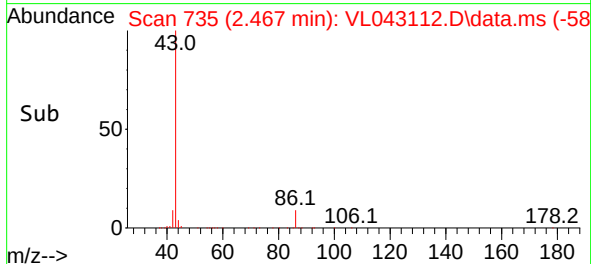
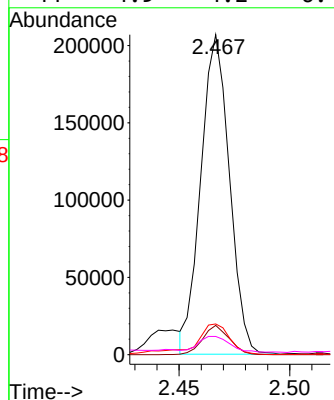
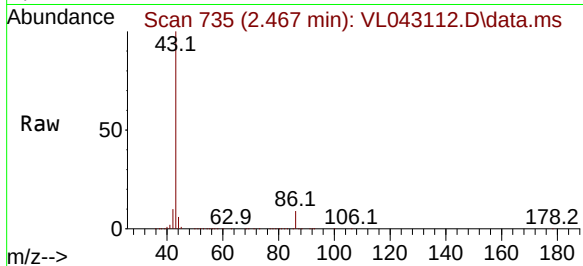


#23  
 Vinyl Acetate  
 Concen: 9.621 ppbv  
 RT: 2.467 min Scan# 719  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL101425

Tgt Ion: 43 Resp: 185329

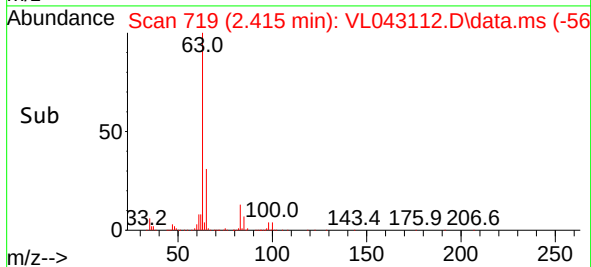
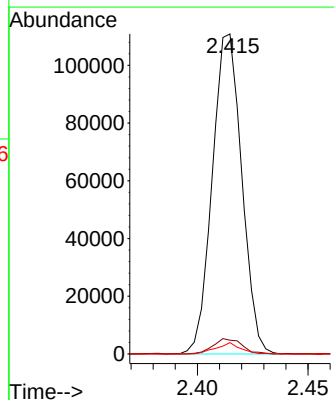
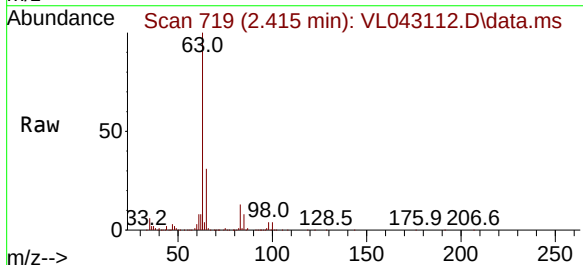
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 9.2   | 6.2   | 9.2   |
| 42  | 9.5   | 7.6   | 11.4  |
| 44  | 4.9   | 4.2   | 6.4   |

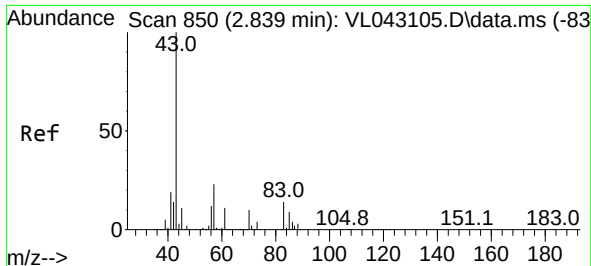


#24  
 1,1-Dichloroethane  
 Concen: 9.355 ppbv  
 RT: 2.415 min Scan# 719  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Tgt Ion: 63 Resp: 102877

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.3   | 2.6   | 7.8   |
| 100 | 3.5   | 1.5   | 4.4   |



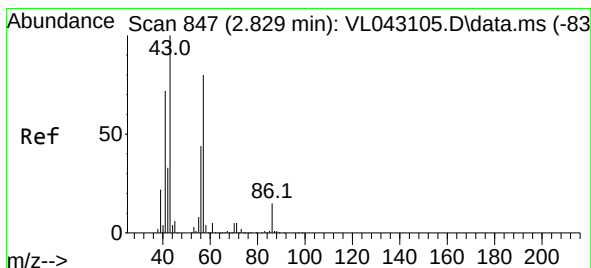
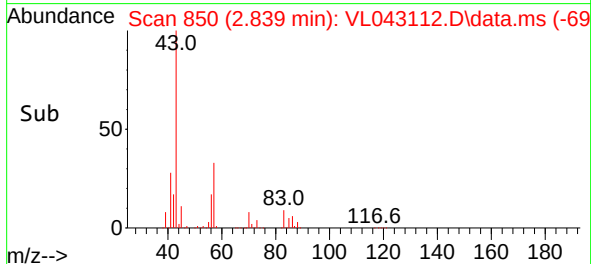
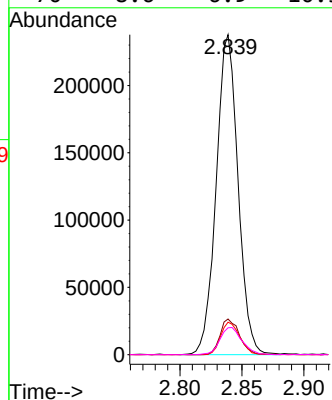
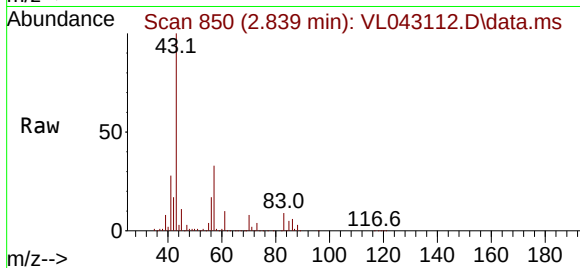


#25  
Ethyl Acetate  
Concen: 8.966 ppbv  
RT: 2.839 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 43 Resp: 292399

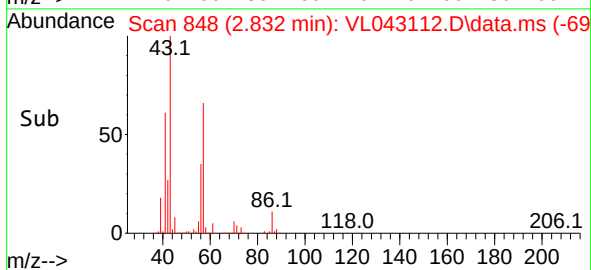
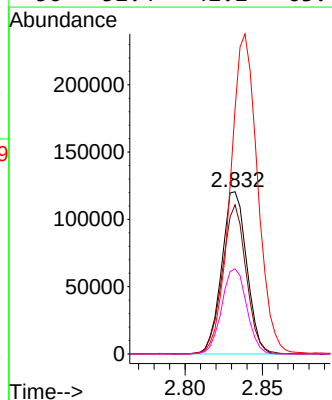
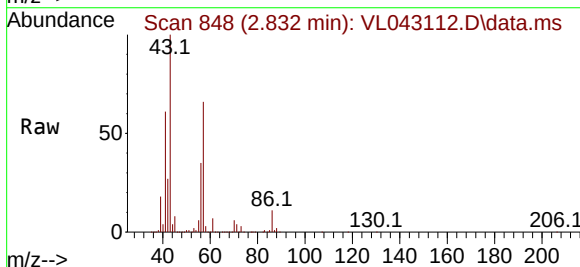
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 7.8   | 11.8  |
| 61  | 9.0   | 7.0   | 10.6  |
| 70  | 8.6   | 6.9   | 10.3  |



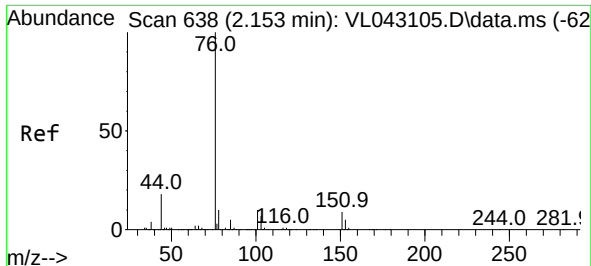
#26  
Hexane  
Concen: 9.015 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 135463

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 88.9  | 71.4  | 107.0 |
| 43  | 216.8 | 178.5 | 267.7 |
| 56  | 52.4  | 42.2  | 63.4  |



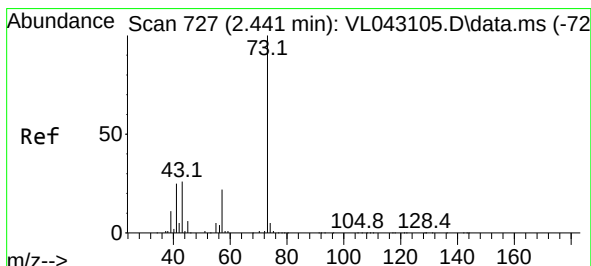
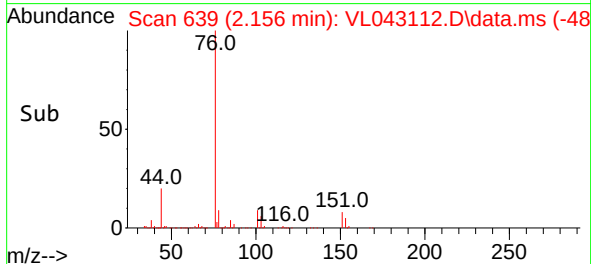
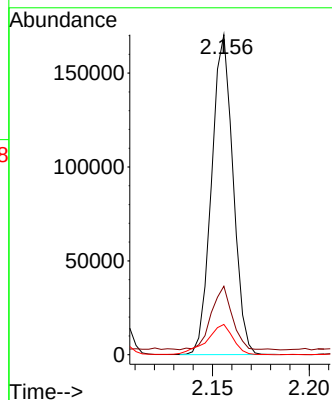
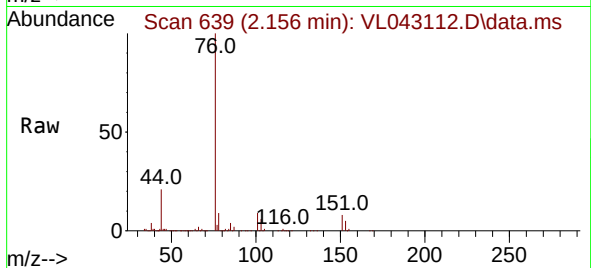




#27  
Carbon Disulfide  
Concen: 9.520 ppbv  
RT: 2.156 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

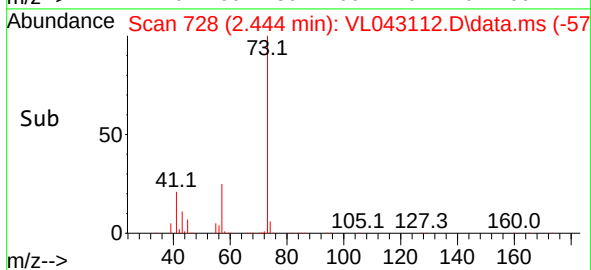
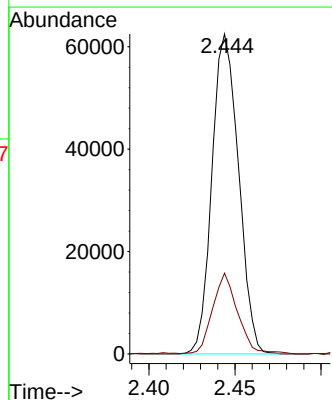
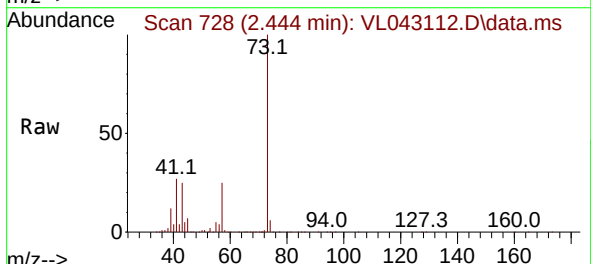
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

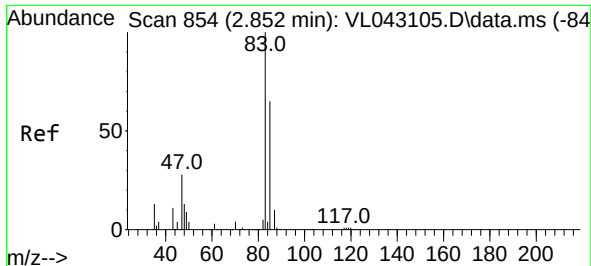
Tgt Ion: 76 Resp: 131064  
Ion Ratio Lower Upper  
76 100  
44 20.7 16.7 25.1  
78 11.7 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 9.839 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 73 Resp: 67260  
Ion Ratio Lower Upper  
73 100  
57 24.1 20.5 30.7





#29

Chloroform

Concen: 9.412 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

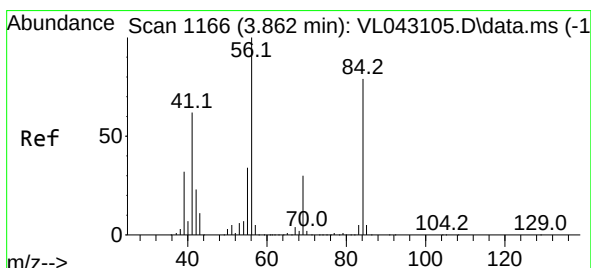
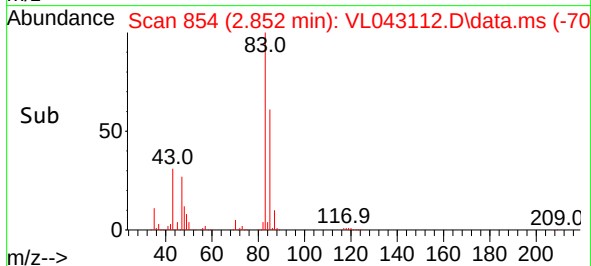
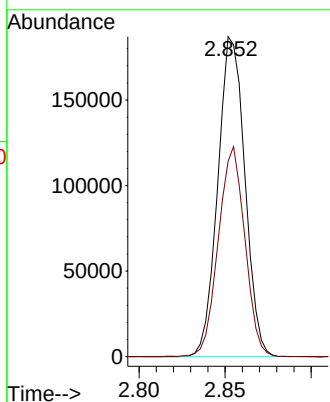
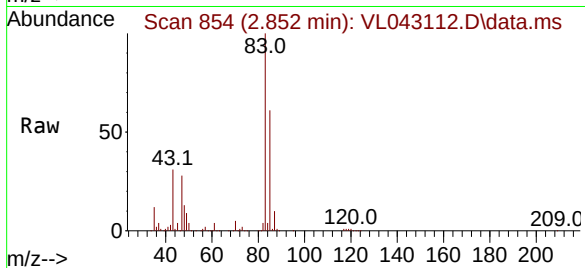
ICVVL101425

Tgt Ion: 83 Resp: 204925

Ion Ratio Lower Upper

83 100

85 61.0 51.8 77.6



#30

Cyclohexane

Concen: 9.096 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

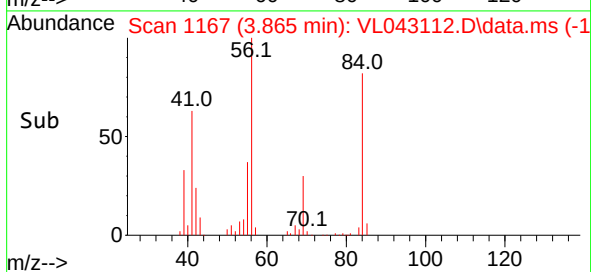
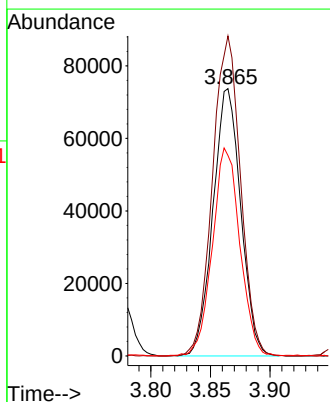
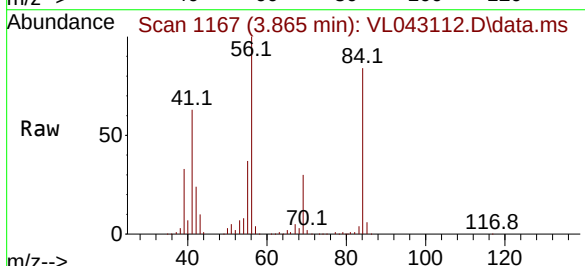
Tgt Ion: 84 Resp: 119287

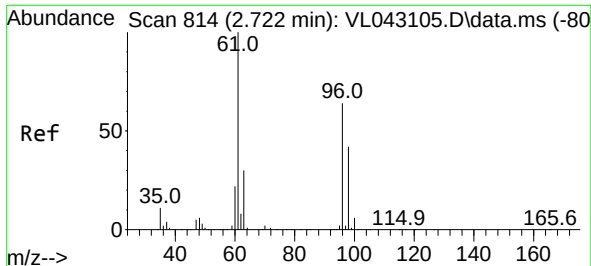
Ion Ratio Lower Upper

84 100

56 120.8 100.9 151.3

41 77.4 63.8 95.6

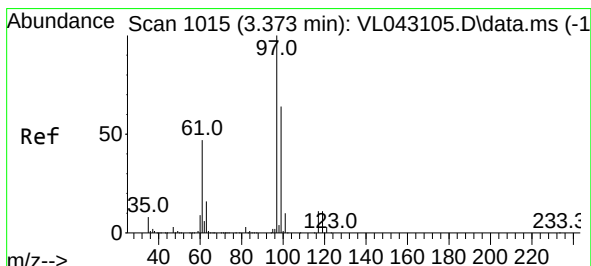
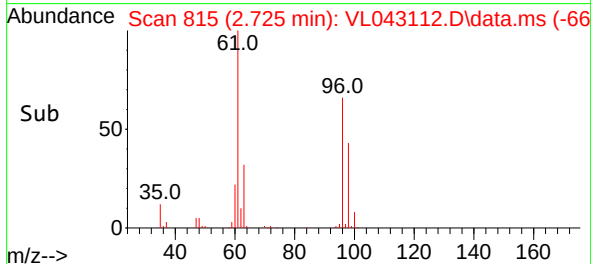
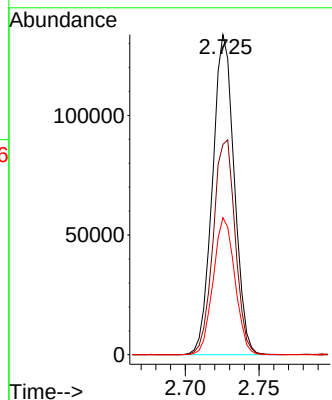
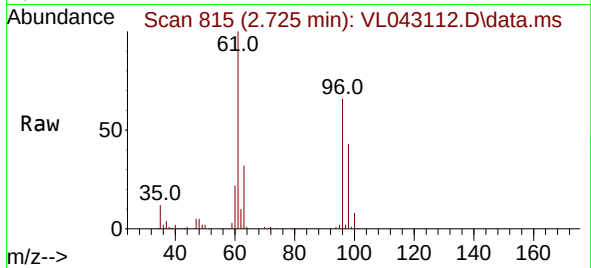




#31  
cis-1,2-Dichloroethene  
Concen: 9.580 ppbv  
RT: 2.725 min Scan# 814  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

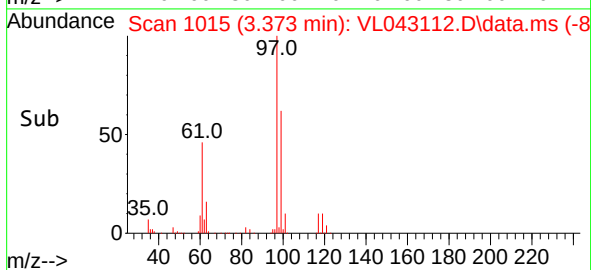
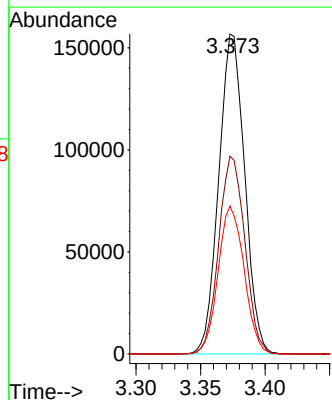
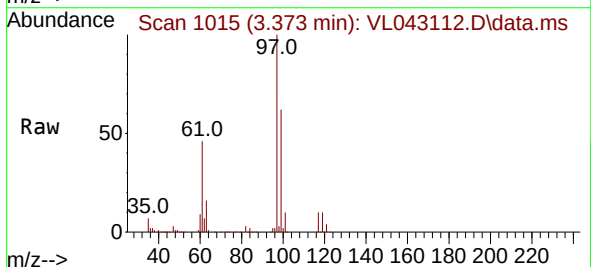
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

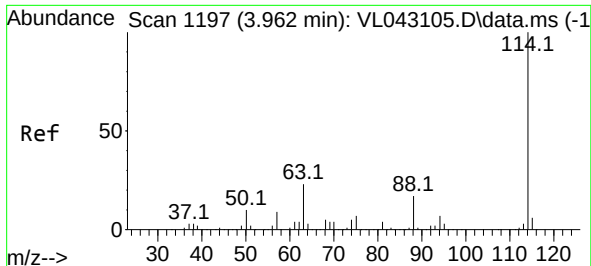
Tgt Ion: 61 Resp: 137462  
Ion Ratio Lower Upper  
61 100  
96 65.7 51.0 76.6  
98 42.8 33.5 50.3



#32  
1,1,1-Trichloroethane  
Concen: 9.666 ppbv  
RT: 3.373 min Scan# 1015  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 97 Resp: 219167  
Ion Ratio Lower Upper  
97 100  
99 62.3 51.3 76.9  
61 46.4 38.4 57.6

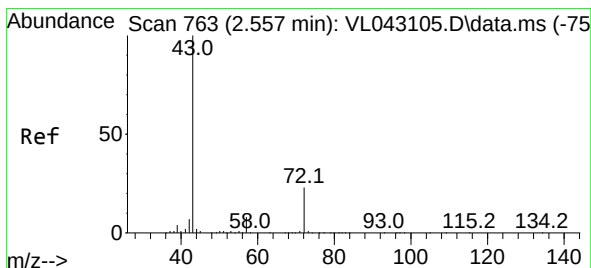
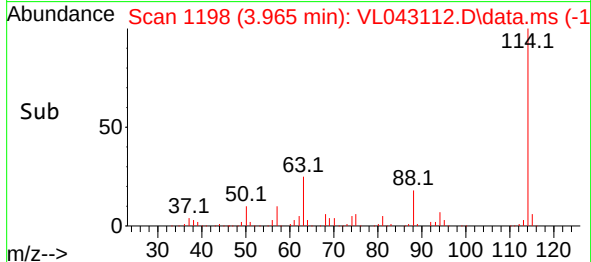
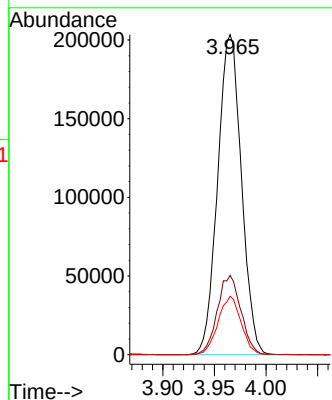
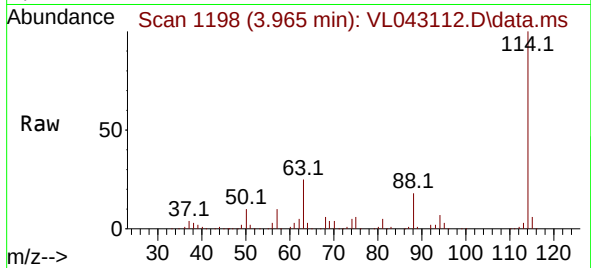




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.965 min Scan# 1198  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

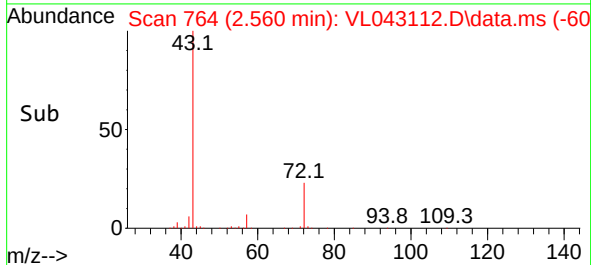
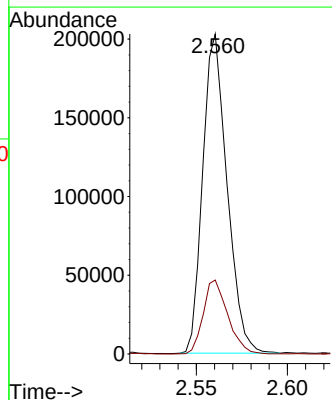
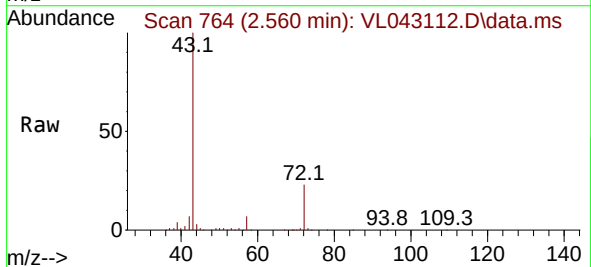
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL101425

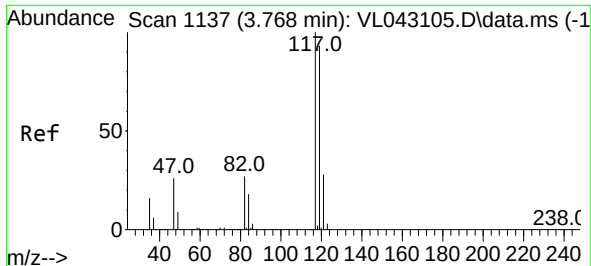
Tgt Ion:114 Resp: 325610  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 19.3 28.9  
 88 17.6 13.9 20.9



#34  
 2-Butanone  
 Concen: 8.624 ppbv  
 RT: 2.560 min Scan# 764  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 188755  
 Ion Ratio Lower Upper  
 43 100  
 72 23.4 18.4 27.6

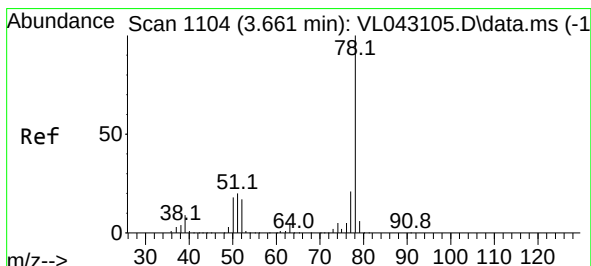
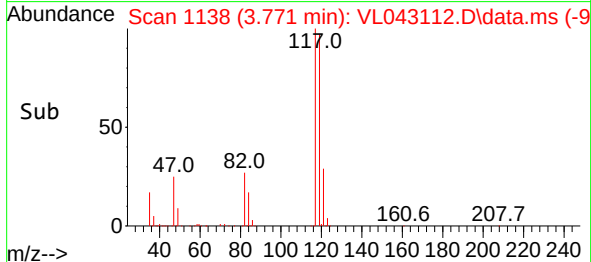
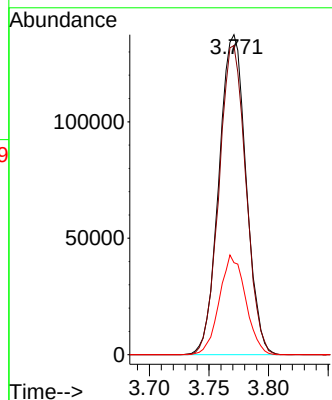
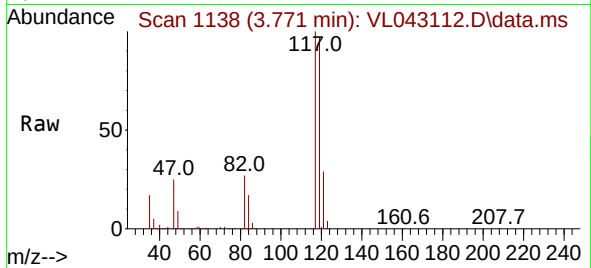




#35  
Carbon Tetrachloride  
Concen: 9.298 ppbv  
RT: 3.771 min Scan# 1137  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

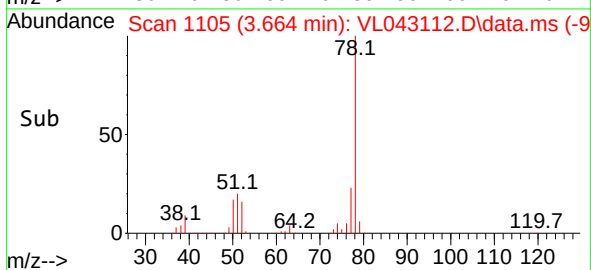
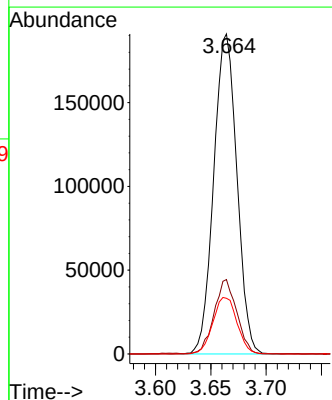
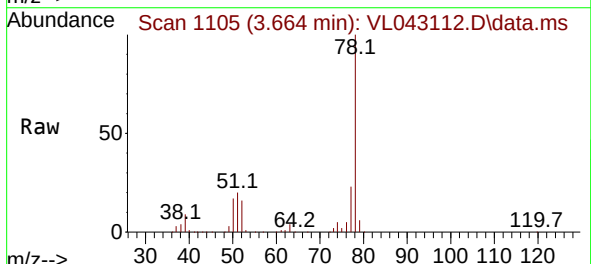
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

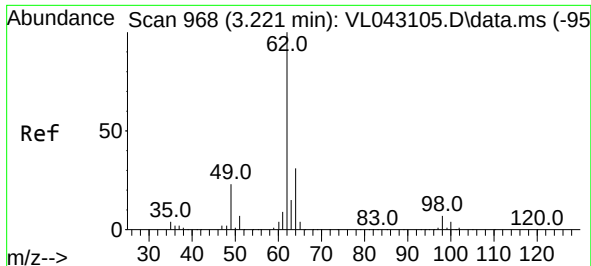
Tgt Ion:117 Resp: 217678  
Ion Ratio Lower Upper  
117 100  
119 96.6 74.1 111.1  
121 28.7 22.2 33.2



#36  
Benzene  
Concen: 9.077 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 78 Resp: 278365  
Ion Ratio Lower Upper  
78 100  
77 23.2 17.0 25.6  
50 17.4 14.6 22.0

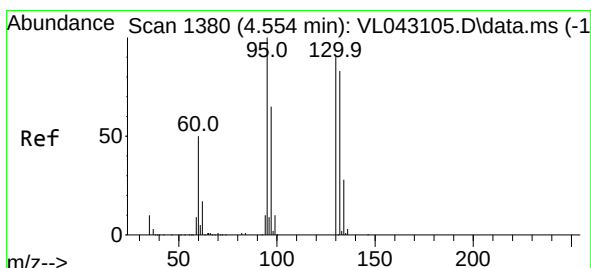
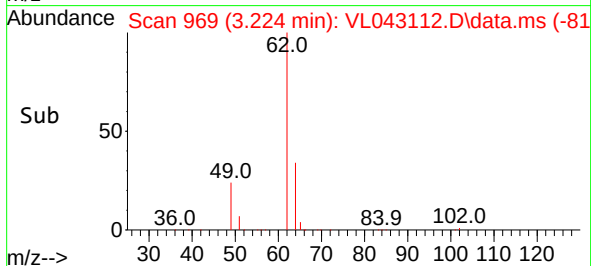
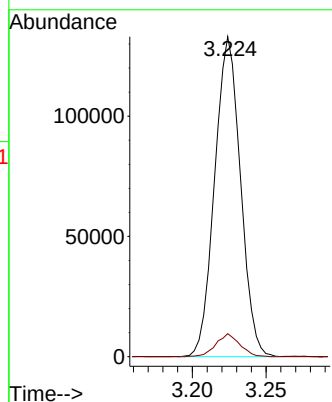
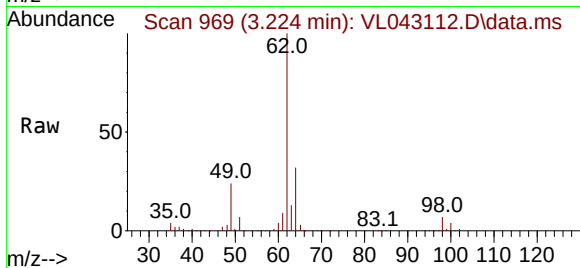




#37  
1,2-Dichloroethane  
Concen: 9.156 ppbv  
RT: 3.224 min Scan# 90  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

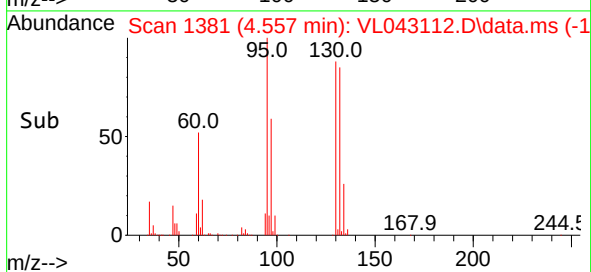
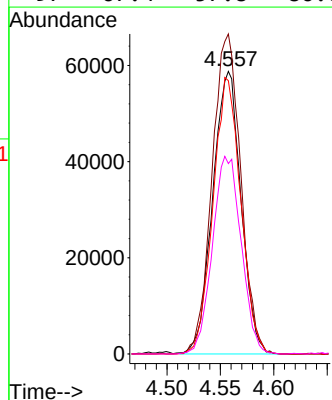
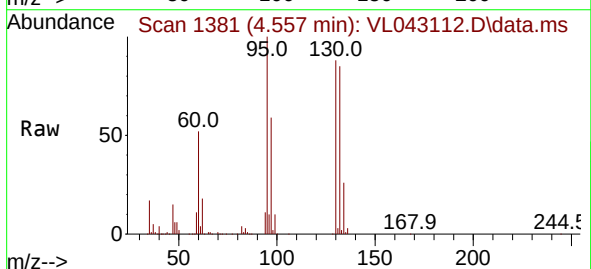
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

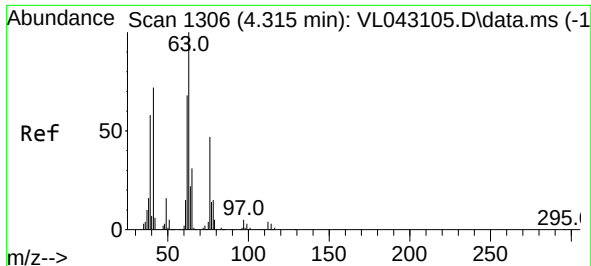
Tgt Ion: 62 Resp: 161750  
Ion Ratio Lower Upper  
62 100  
98 6.7 5.8 8.6



#38  
Trichloroethene  
Concen: 8.453 ppbv  
RT: 4.557 min Scan# 1381  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:130 Resp: 108261  
Ion Ratio Lower Upper  
130 100  
95 113.2 88.6 133.0  
132 96.7 73.4 110.0  
97 67.4 57.8 86.6





#39

1,2-Dichloropropane

Concen: 8.971 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101425

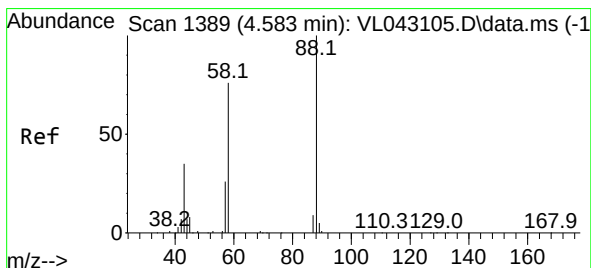
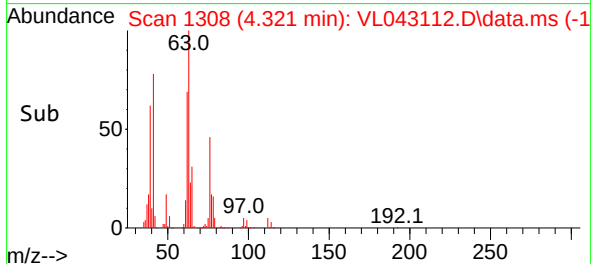
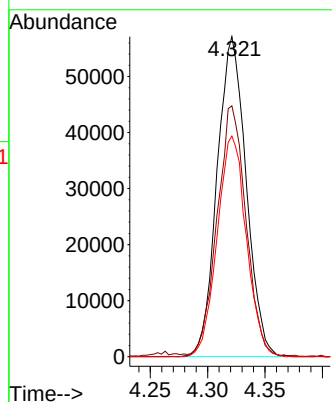
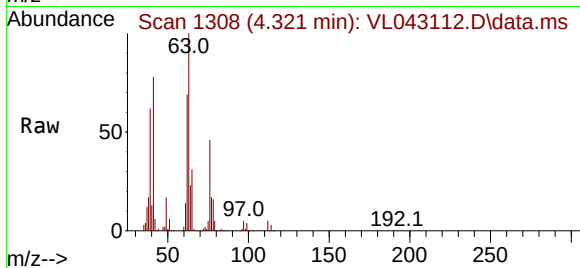
Tgt Ion: 63 Resp: 100580

Ion Ratio Lower Upper

63 100

41 78.0 58.0 87.0

62 69.0 54.7 82.1



#40

1,4-Dioxane

Concen: 8.265 ppbv

RT: 4.587 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Tgt Ion: 88 Resp: 41464

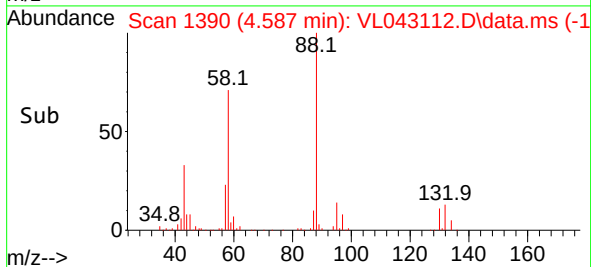
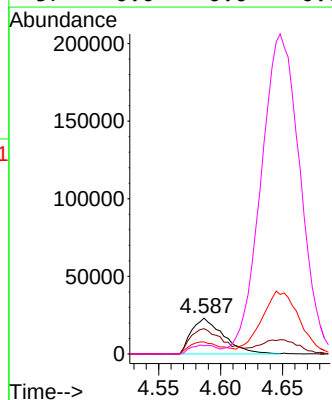
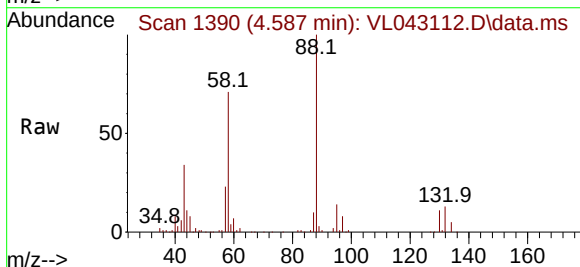
Ion Ratio Lower Upper

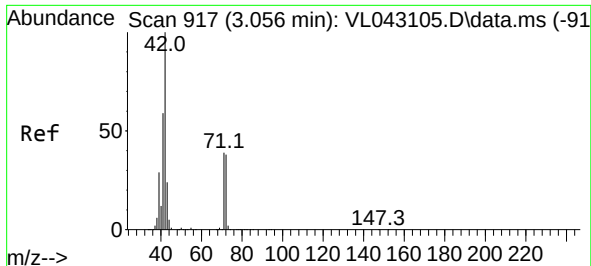
88 100

58 74.2 61.1 91.7

43 35.4 24.0 36.0

57 0.0 0.0 0.0

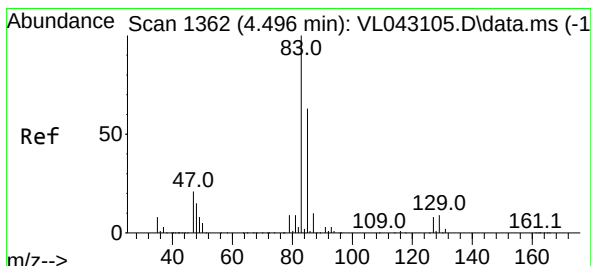
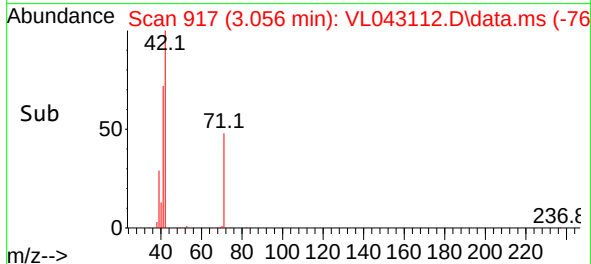
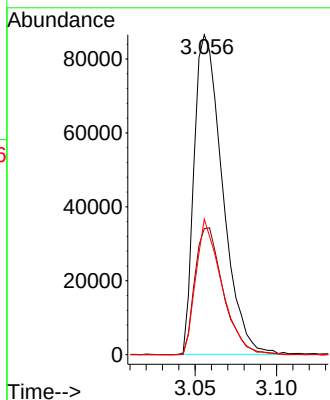
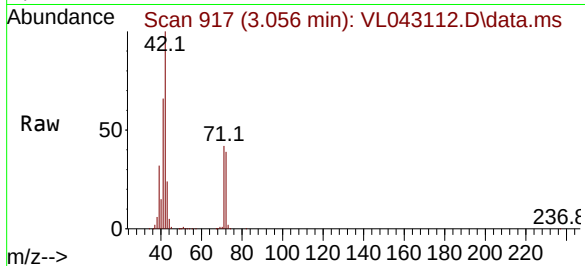




#41  
Tetrahydrofuran  
Concen: 8.553 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

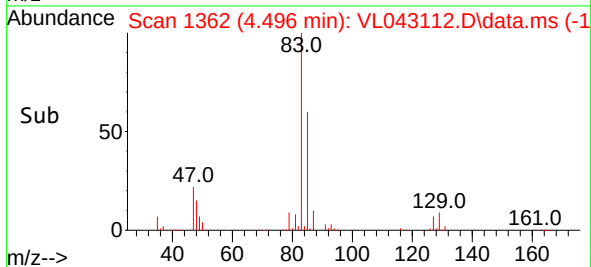
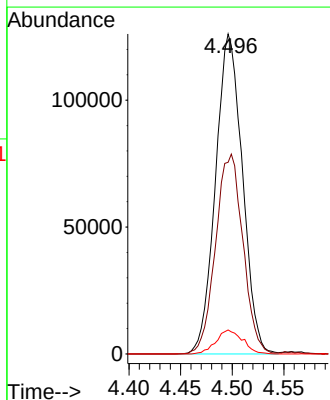
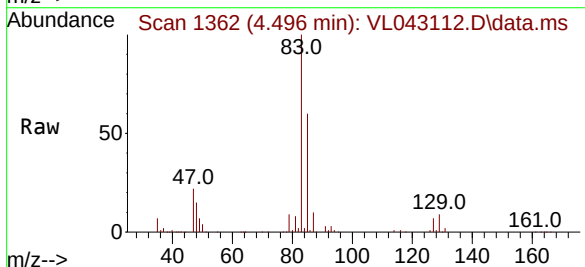
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

Tgt Ion: 42 Resp: 104701  
Ion Ratio Lower Upper  
42 100  
72 39.8 31.3 46.9  
71 38.8 30.4 45.6

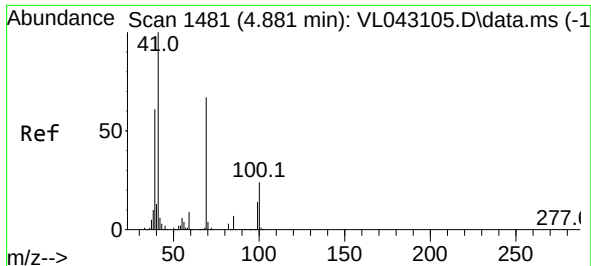


#42  
Bromodichloromethane  
Concen: 9.336 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 83 Resp: 228288  
Ion Ratio Lower Upper  
83 100  
85 59.8 50.6 75.8  
127 7.5 6.3 9.5



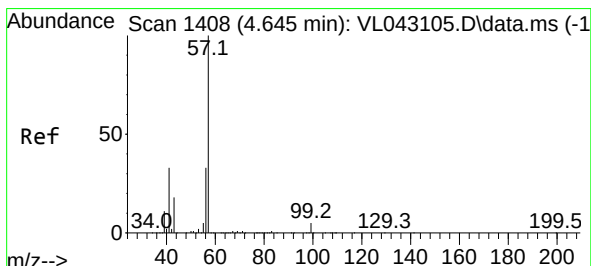
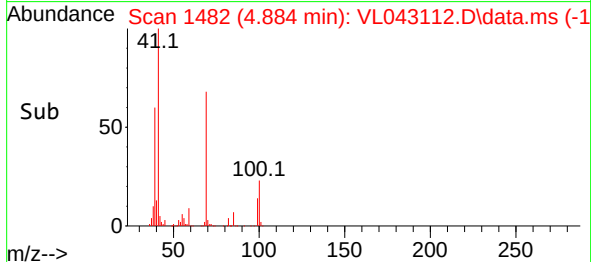
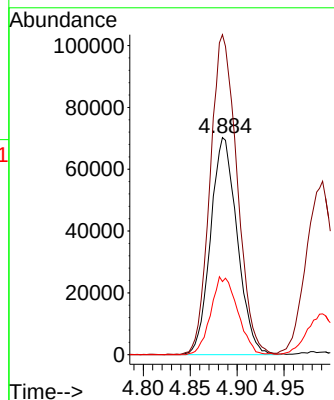
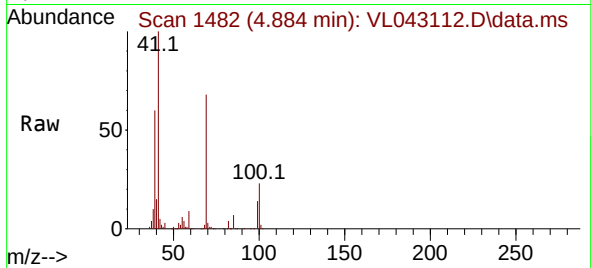




#43  
Methyl Methacrylate  
Concen: 8.898 ppbv  
RT: 4.884 min Scan# 1481  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

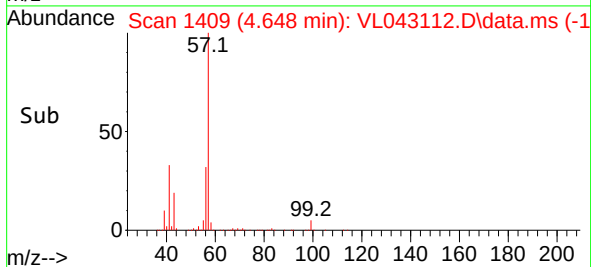
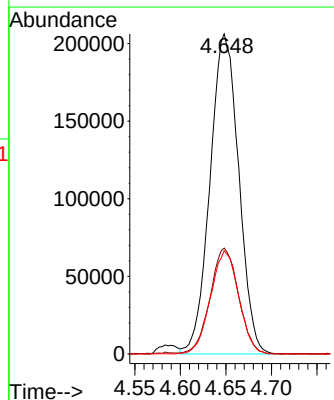
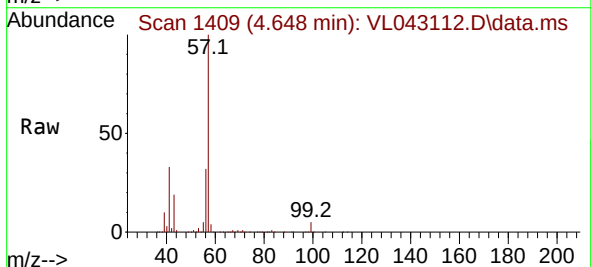
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

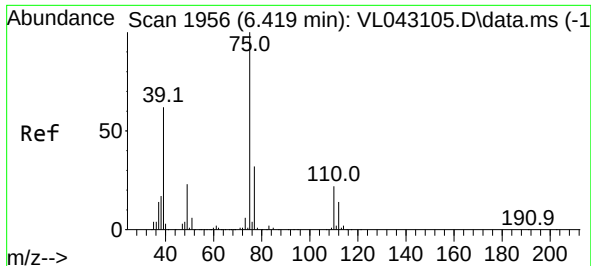
Tgt Ion: 69 Resp: 138593  
Ion Ratio Lower Upper  
69 100  
41 149.1 120.5 180.7  
100 36.3 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 8.738 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 57 Resp: 452117  
Ion Ratio Lower Upper  
57 100  
41 33.2 26.3 39.5  
56 31.6 25.9 38.9

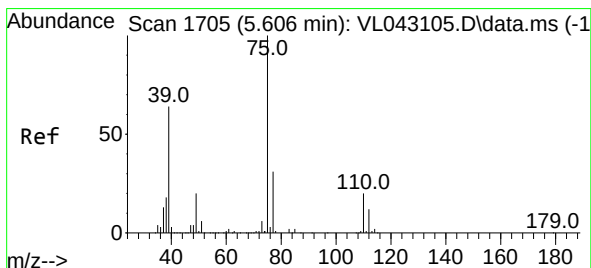
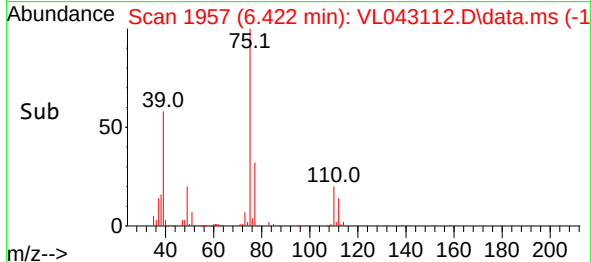
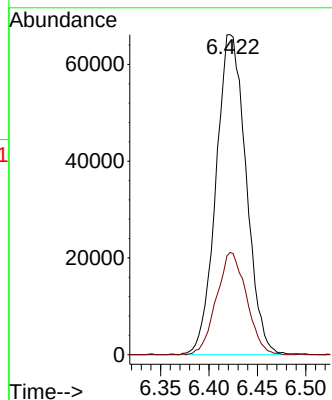
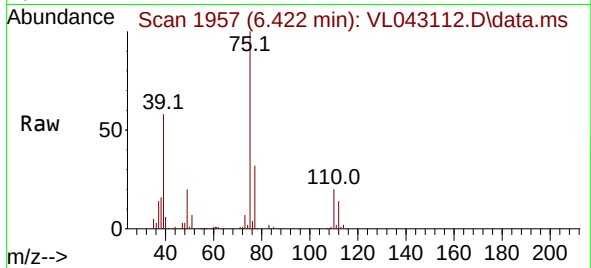




#45  
t-1,3-Dichloropropene  
Concen: 9.146 ppbv  
RT: 6.422 min Scan# 1956  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

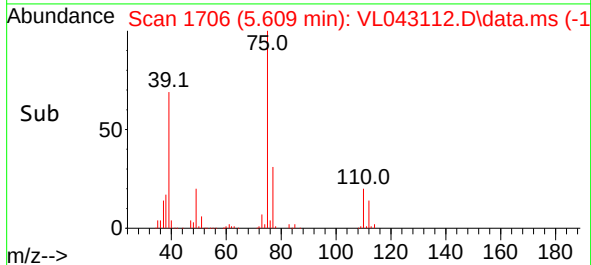
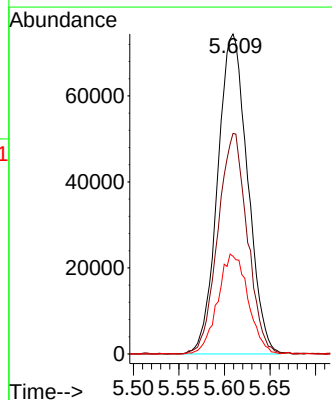
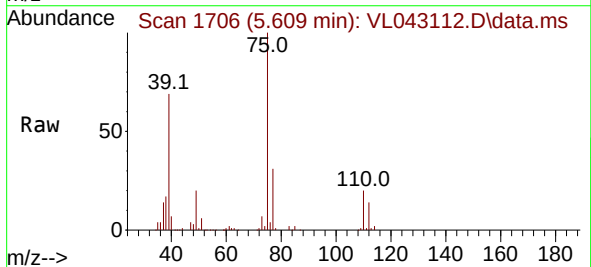
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

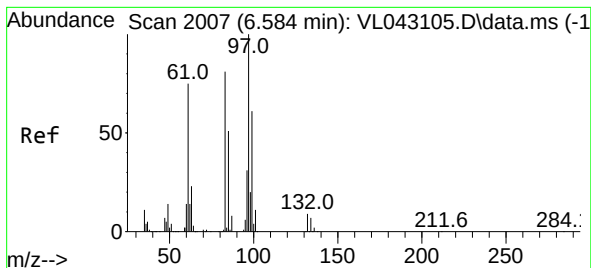
Tgt Ion: 75 Resp: 142964  
Ion Ratio Lower Upper  
75 100  
77 32.0 25.4 38.2



#46  
cis-1,3-Dichloropropene  
Concen: 9.106 ppbv  
RT: 5.609 min Scan# 1706  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 75 Resp: 170038  
Ion Ratio Lower Upper  
75 100  
39 68.8 51.0 76.6  
77 30.5 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 9.000 ppbv

RT: 6.590 min Scan# 2007

Delta R.T. 0.006 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL101425

Tgt Ion: 97 Resp: 108965

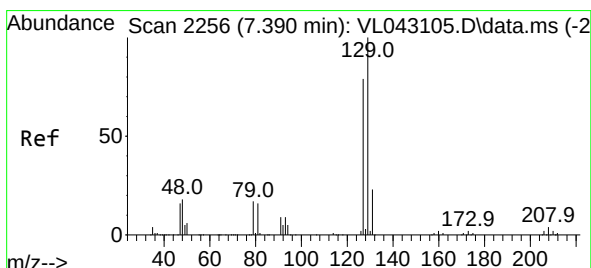
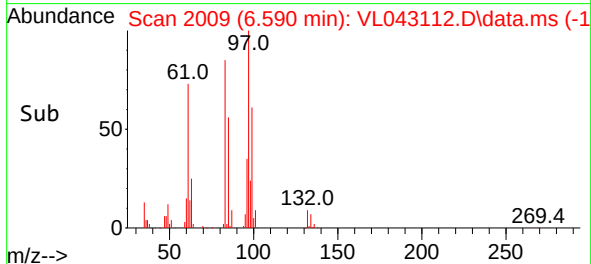
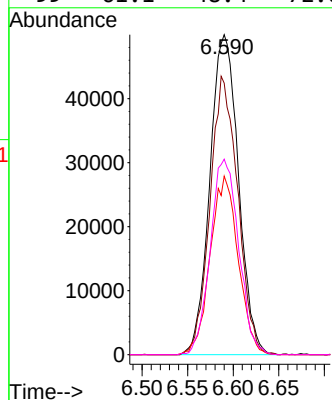
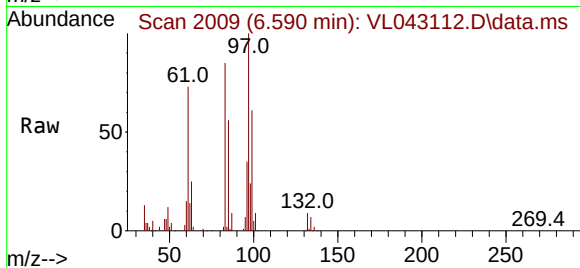
Ion Ratio Lower Upper

97 100

83 84.8 64.6 96.8

85 55.8 40.6 60.8

99 61.1 48.4 72.6



#48

Dibromochloromethane

Concen: 9.127 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.006 min

Lab File: VL043112.D

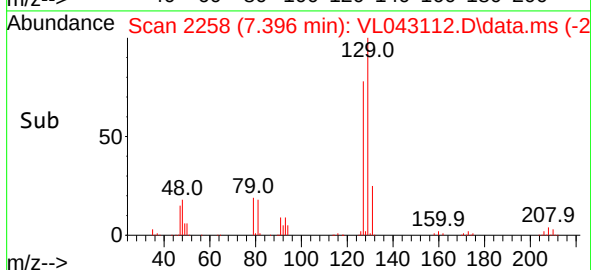
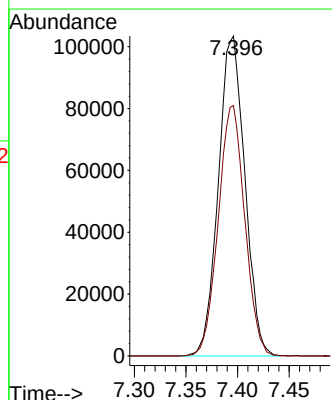
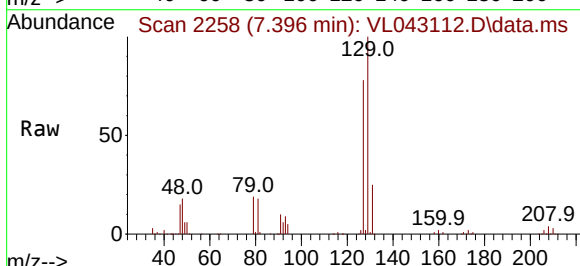
Acq: 14 Oct 2025 14:51

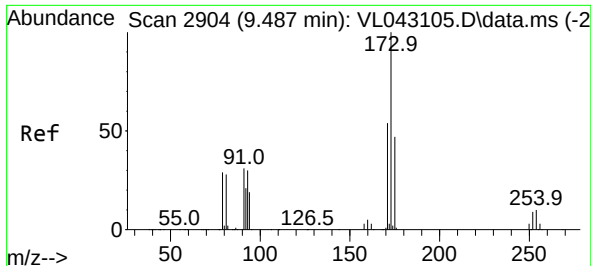
Tgt Ion: 129 Resp: 184757

Ion Ratio Lower Upper

129 100

127 78.3 39.3 117.9

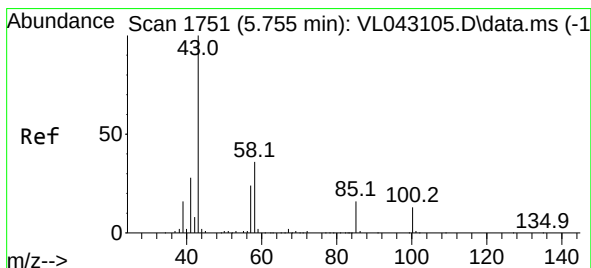
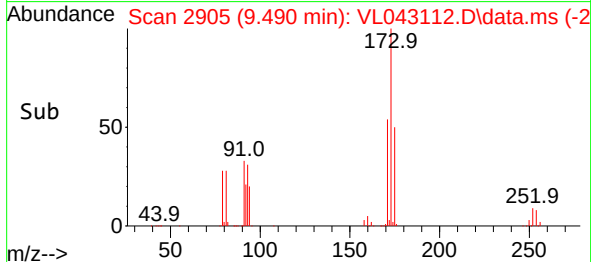
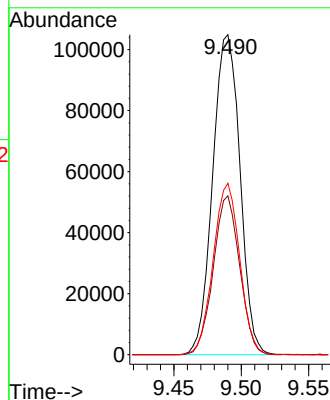
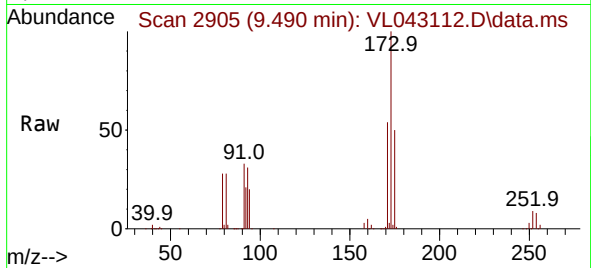




#49  
Bromoform  
Concen: 8.980 ppbv  
RT: 9.490 min Scan# 2904  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

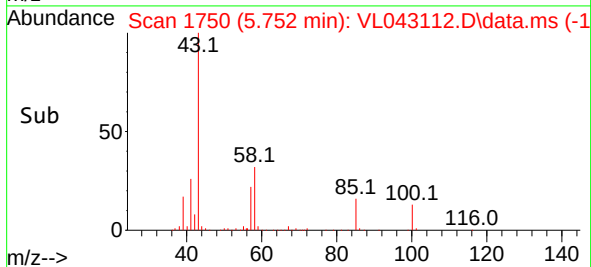
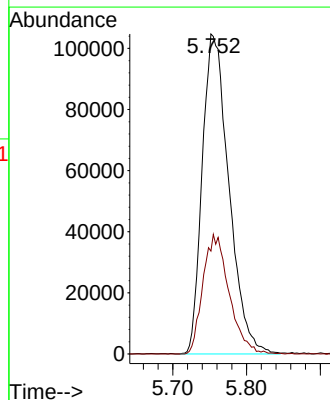
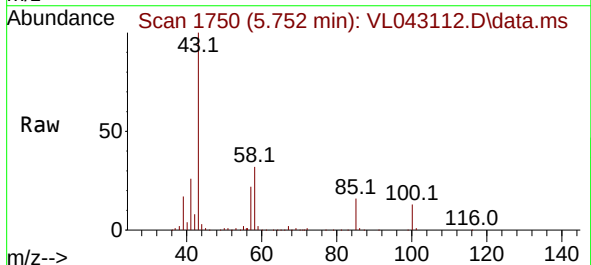
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

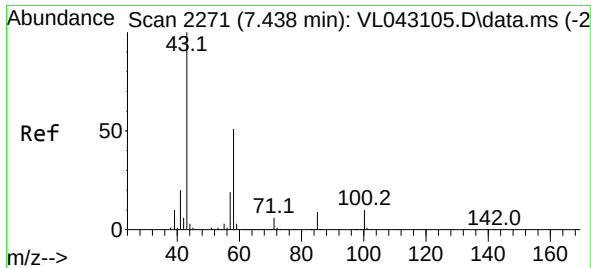
Tgt Ion:173 Resp: 147759  
Ion Ratio Lower Upper  
173 100  
175 48.0 38.8 58.2  
171 52.1 41.7 62.5



#50  
4-Methyl-2-Pentanone  
Concen: 8.709 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. -0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 43 Resp: 263070  
Ion Ratio Lower Upper  
43 100  
58 36.6 29.1 43.7

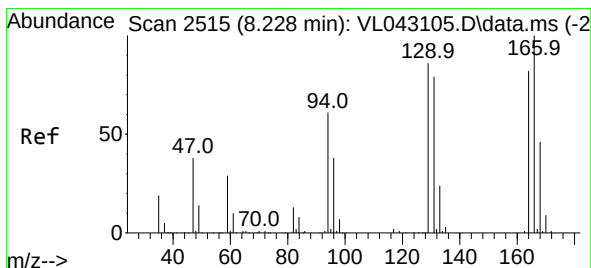
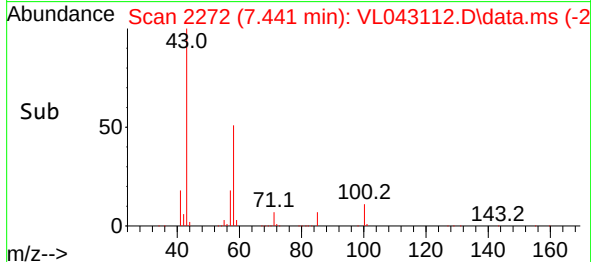
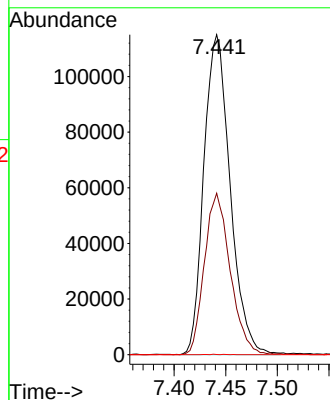
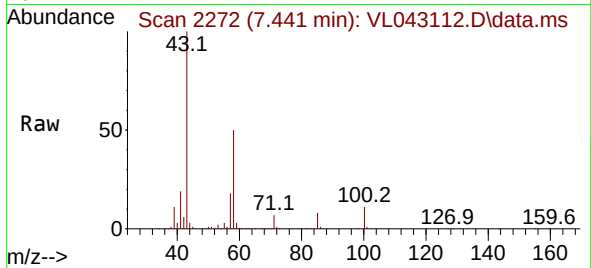




#51  
2-Hexanone  
Concen: 8.999 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

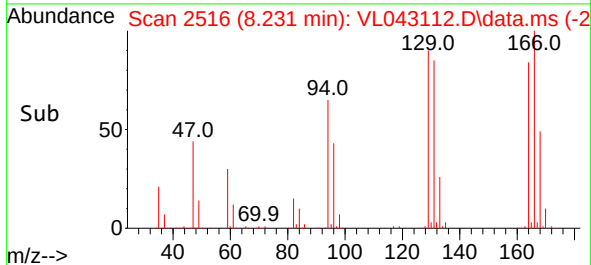
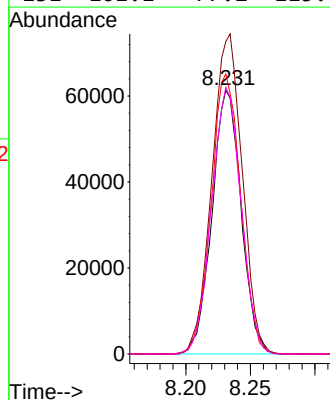
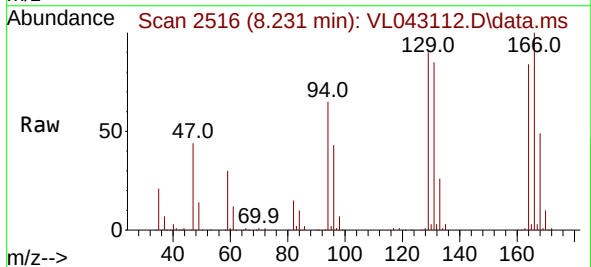
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

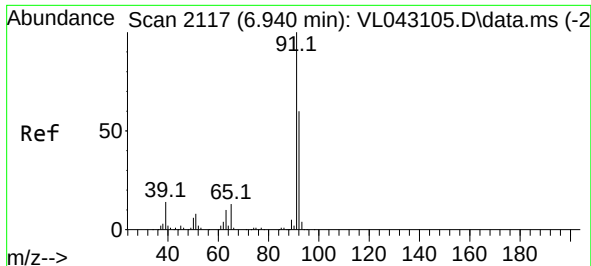
Tgt Ion: 43 Resp: 203876  
Ion Ratio Lower Upper  
43 100  
58 49.6 40.4 60.6  
98 0.1 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.681 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 164 Resp: 96000  
Ion Ratio Lower Upper  
164 100  
166 118.4 97.6 146.4  
129 106.2 84.5 126.7  
131 101.1 77.2 115.8

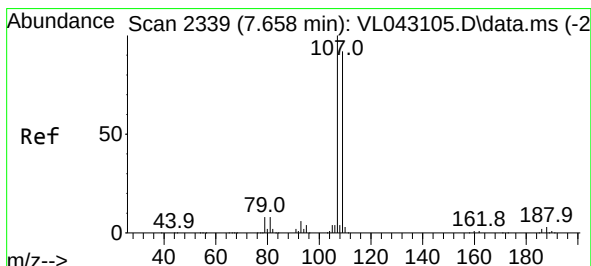
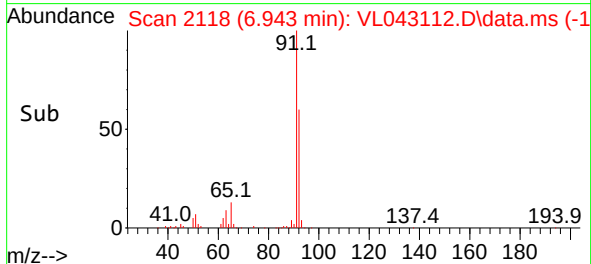
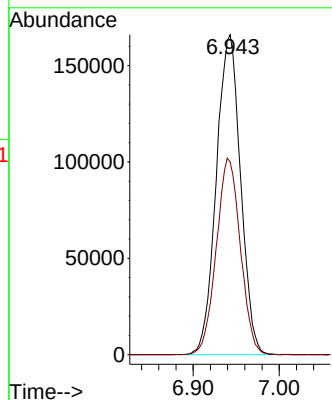
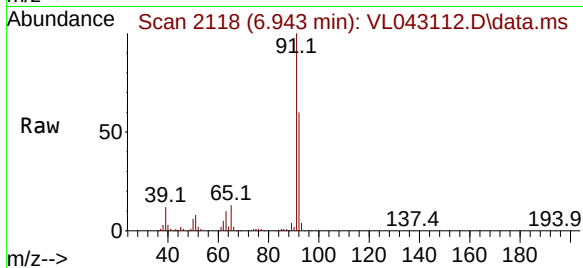




#53  
Toluene  
Concen: 8.928 ppbv  
RT: 6.943 min Scan# 2117  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

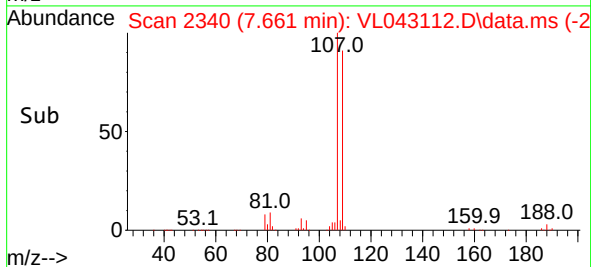
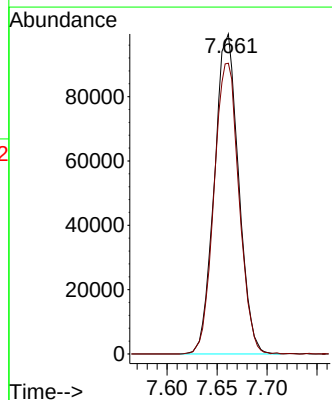
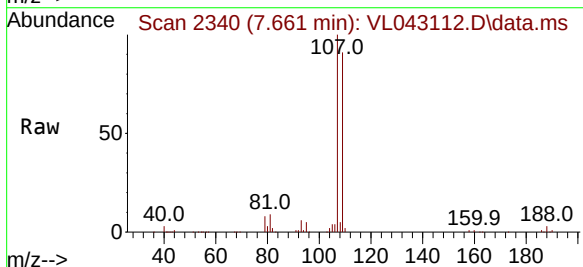
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

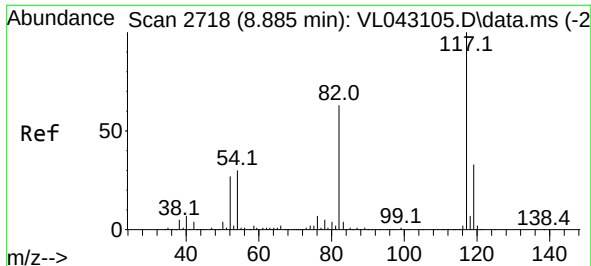
Tgt Ion: 91 Resp: 324944  
Ion Ratio Lower Upper  
91 100  
92 61.0 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 8.856 ppbv  
RT: 7.661 min Scan# 2340  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 107 Resp: 167936  
Ion Ratio Lower Upper  
107 100  
109 90.9 73.4 110.2

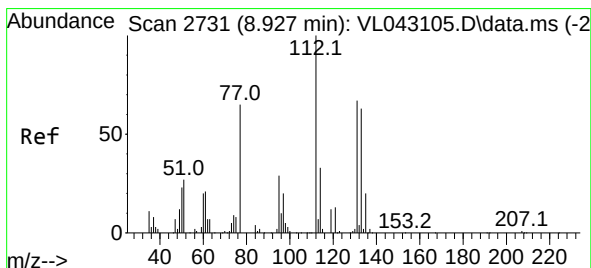
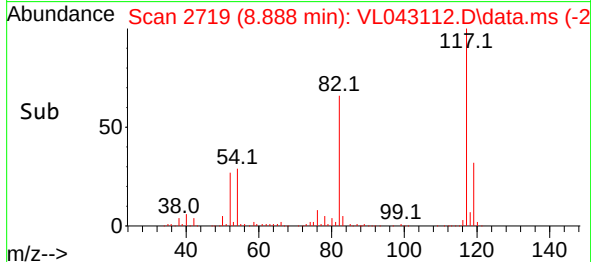
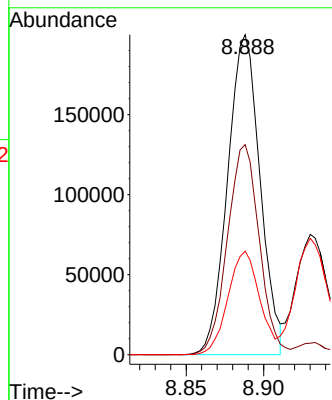
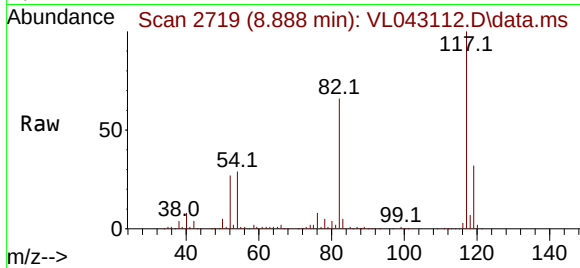




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

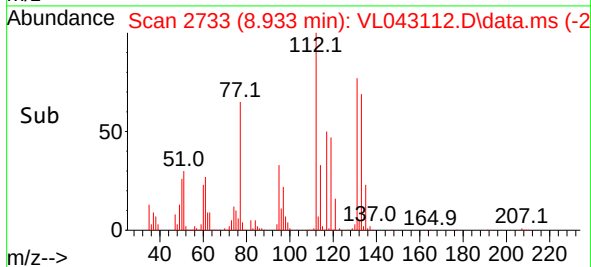
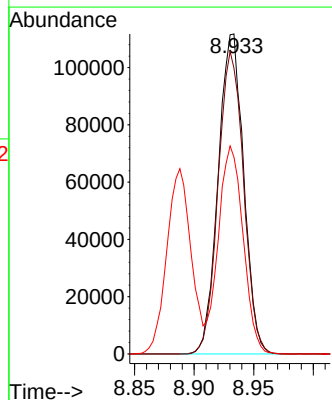
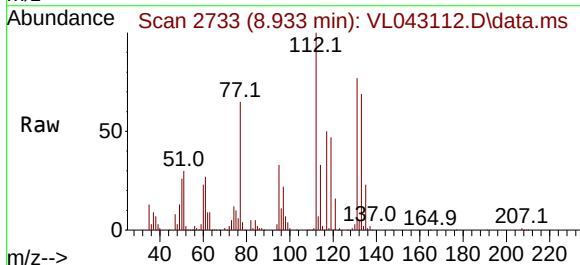
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

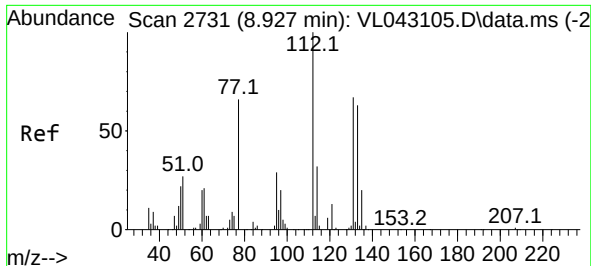
Tgt Ion:117 Resp: 291676  
Ion Ratio Lower Upper  
117 100  
82 67.8 53.8 80.8  
119 31.5 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.031 ppbv  
RT: 8.933 min Scan# 2733  
Delta R.T. 0.006 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:131 Resp: 166059  
Ion Ratio Lower Upper  
131 100  
133 94.2 75.7 113.5  
119 60.4 50.6 76.0

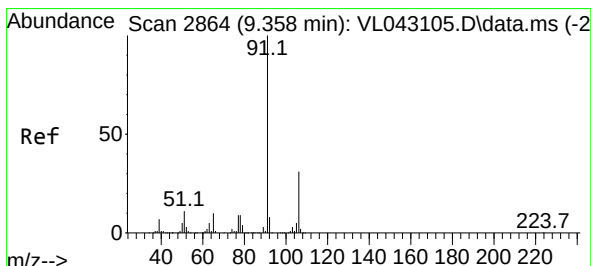
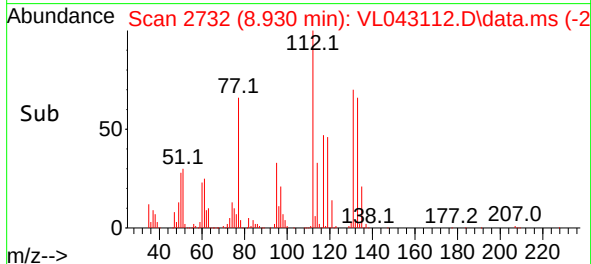
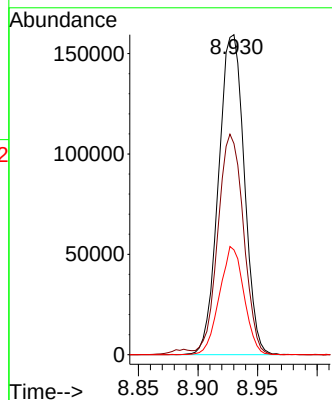
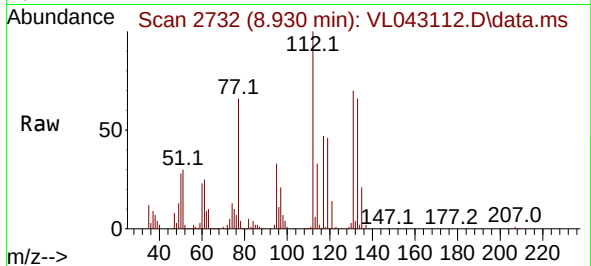




#57  
Chlorobenzene  
Concen: 8.770 ppbv  
RT: 8.930 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

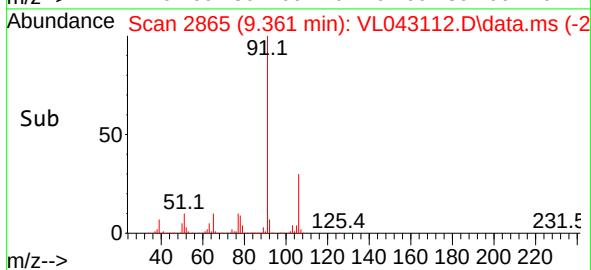
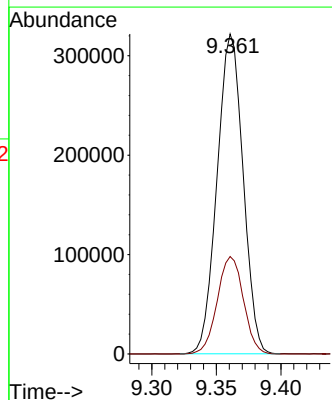
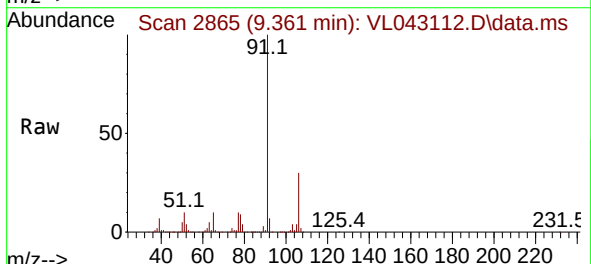
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

Tgt Ion:112 Resp: 239309  
Ion Ratio Lower Upper  
112 100  
77 65.9 53.3 79.9  
114 32.7 29.3 35.8

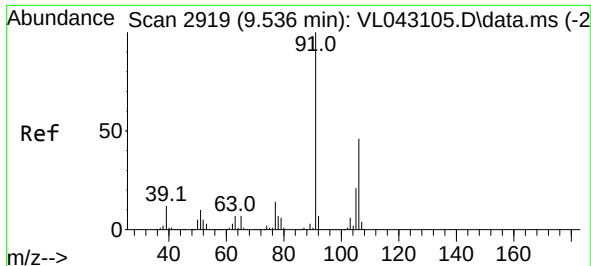


#58  
Ethyl Benzene  
Concen: 8.990 ppbv  
RT: 9.361 min Scan# 2865  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 450029  
Ion Ratio Lower Upper  
91 100  
106 30.5 24.8 37.2







#59

m/p-Xylene

Concen: 9.822 ppbv

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_1

ClientSampleId :

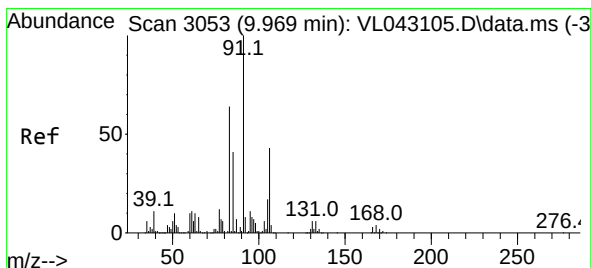
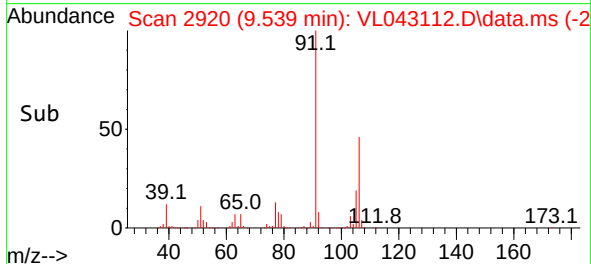
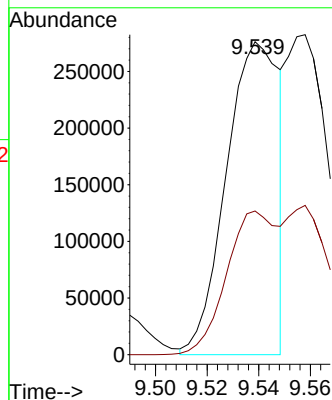
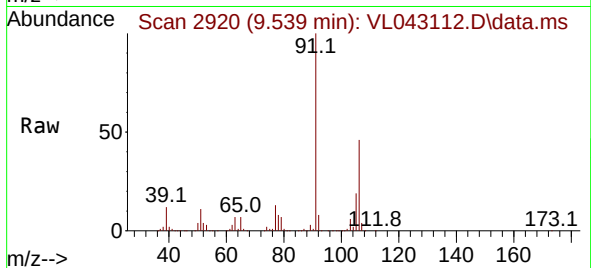
ICVVL101425

Tgt Ion: 91 Resp: 392158

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 8.834 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043112.D

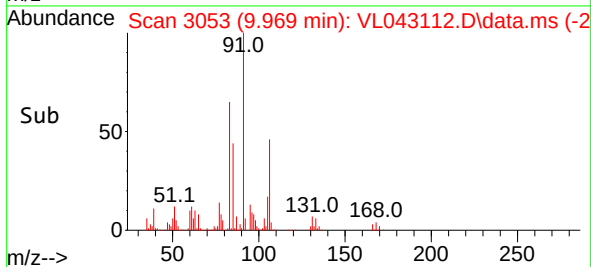
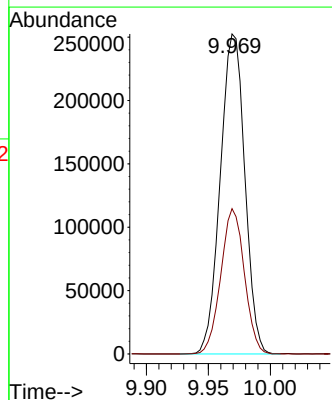
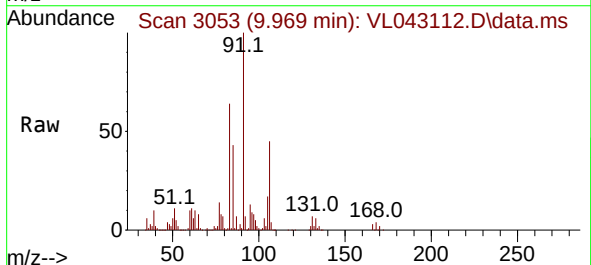
Acq: 14 Oct 2025 14:51

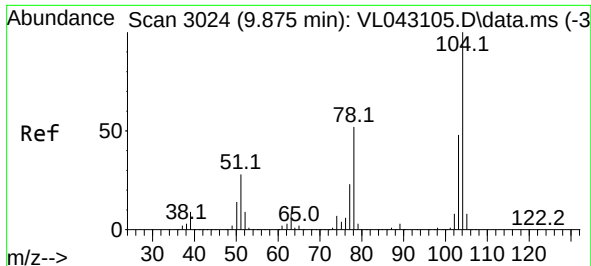
Tgt Ion: 91 Resp: 348346

Ion Ratio Lower Upper

91 100

106 43.7 21.9 65.8

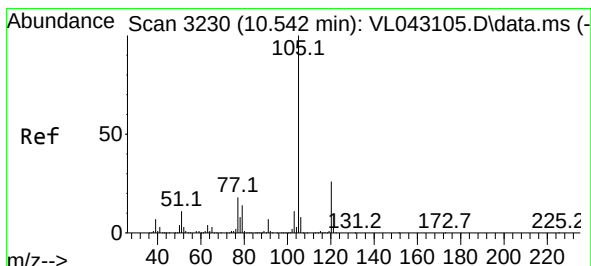
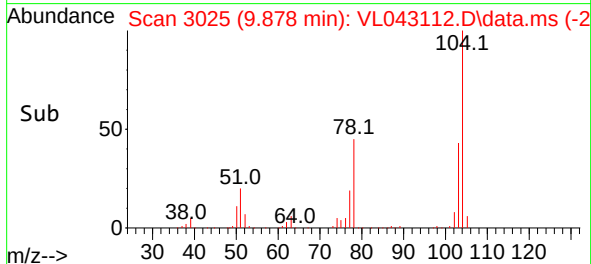
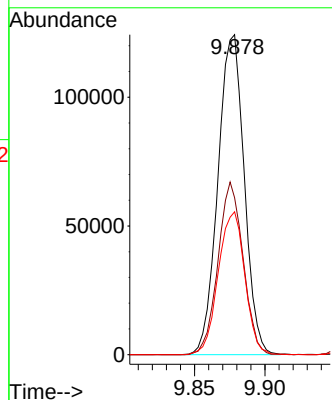
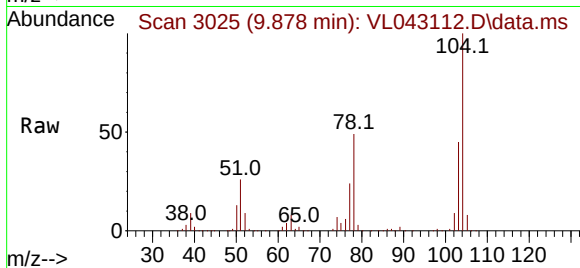




#61  
Styrene  
Concen: 9.099 ppbv  
RT: 9.878 min Scan# 3024  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

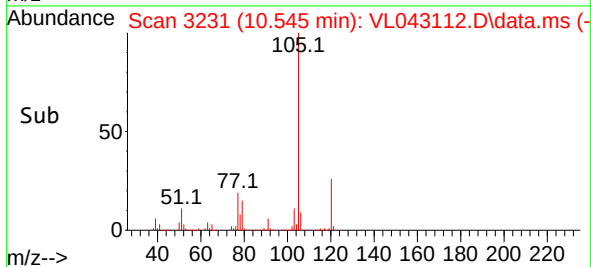
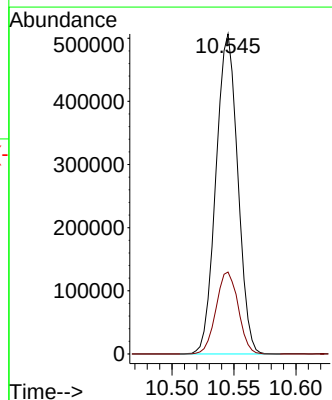
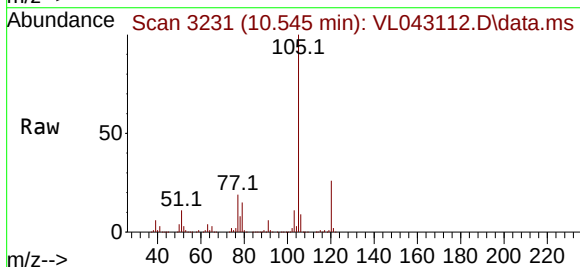
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

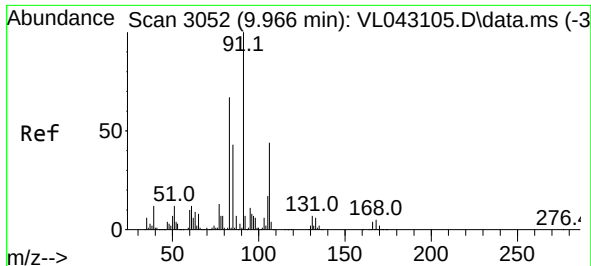
Tgt Ion:104 Resp: 161979  
Ion Ratio Lower Upper  
104 100  
78 51.4 40.2 60.2  
103 45.0 36.9 55.3



#62  
Isopropylbenzene  
Concen: 8.726 ppbv  
RT: 10.545 min Scan# 3231  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 621758  
Ion Ratio Lower Upper  
105 100  
120 26.0 20.2 30.4

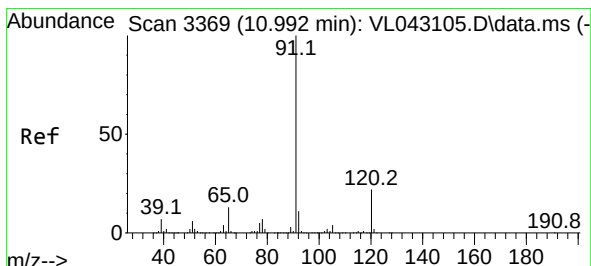
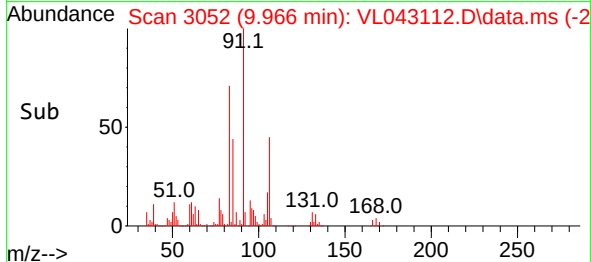
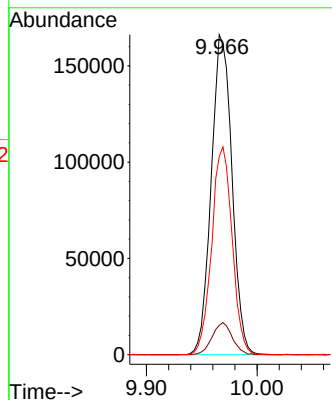
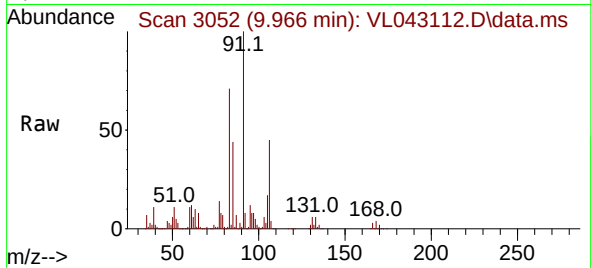




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.177 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

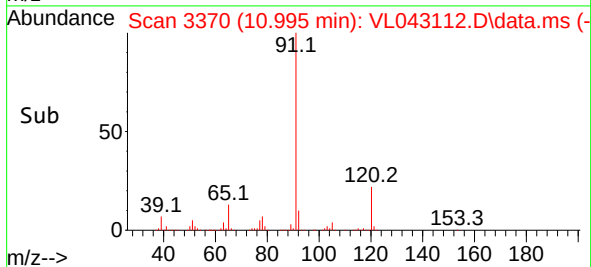
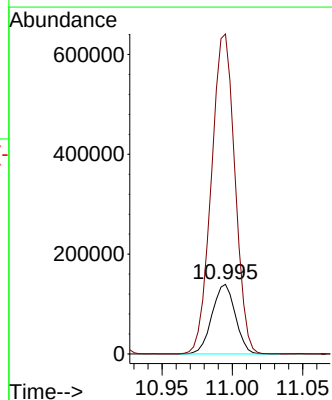
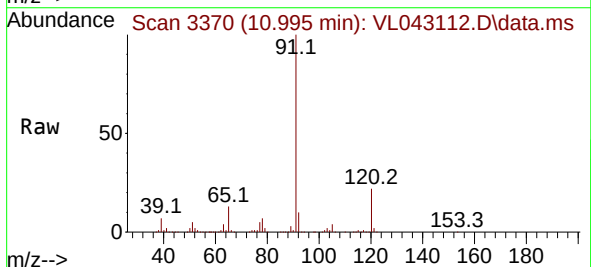
Instrument : MSVOA\_1  
ClientSampleId : ICVVL101425

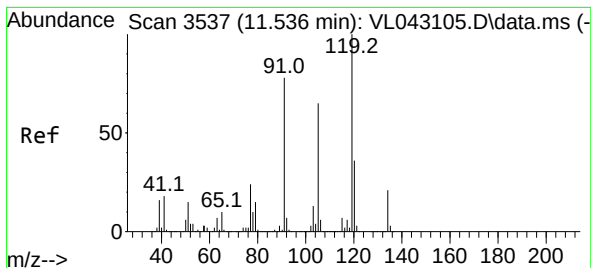
Tgt Ion: 83 Resp: 215911  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.3  
85 64.1 32.0 96.0



#64  
n-propylbenzene  
Concen: 8.503 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 120 Resp: 160411  
Ion Ratio Lower Upper  
120 100  
91 467.8 361.6 542.4

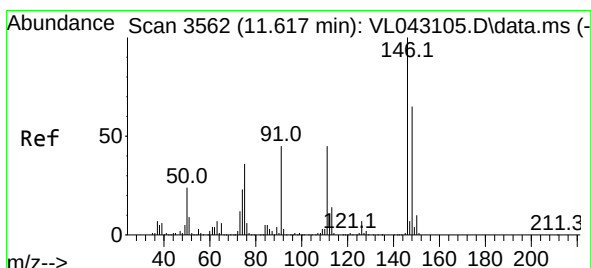
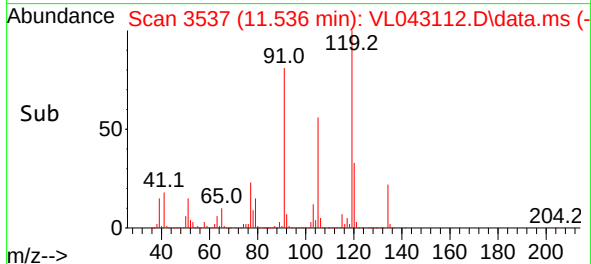
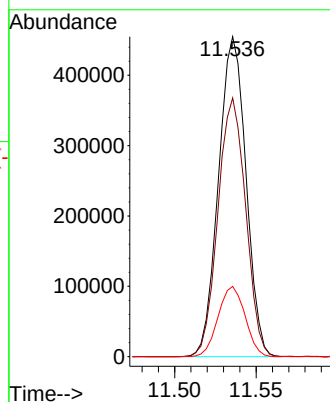
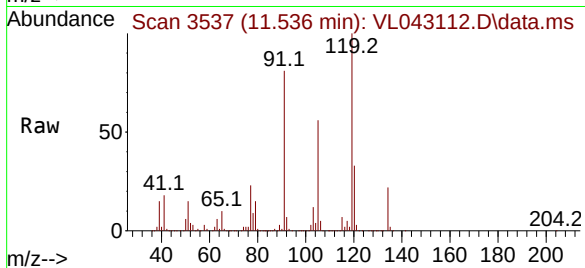




#65  
tert-Butylbenzene  
Concen: 8.464 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

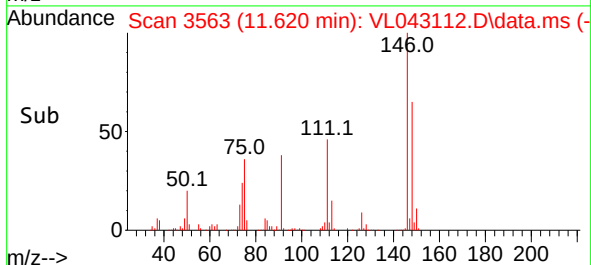
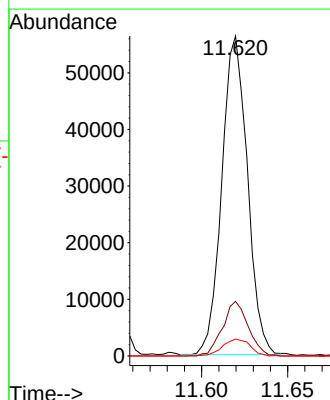
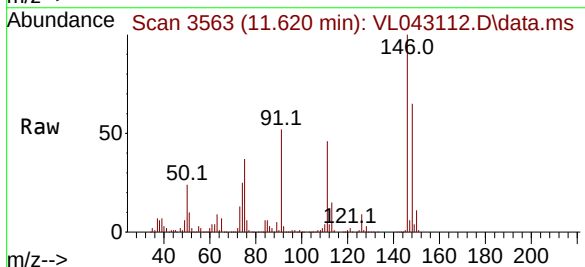
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

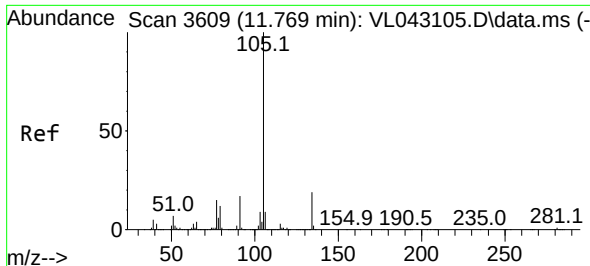
Tgt Ion:119 Resp: 532570  
Ion Ratio Lower Upper  
119 100  
91 81.6 63.4 95.0  
134 21.6 17.3 25.9



#66  
Benzyl Chloride  
Concen: 8.306 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 58169  
Ion Ratio Lower Upper  
91 100  
126 17.2 14.6 22.0  
128 5.8 4.6 6.8

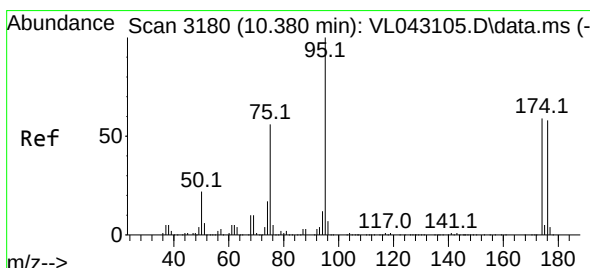
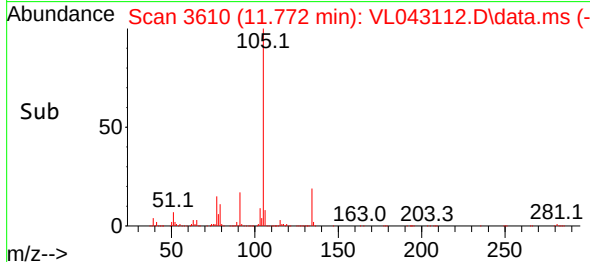
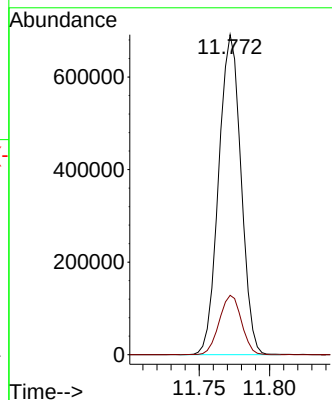
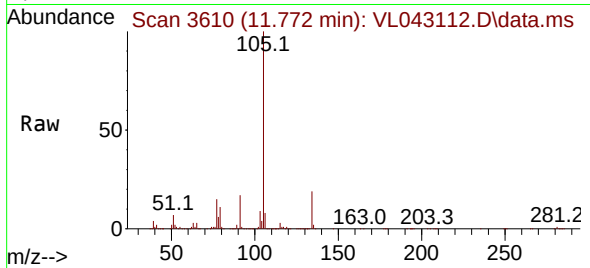




#67  
 sec-Butylbenzene  
 Concen: 8.541 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

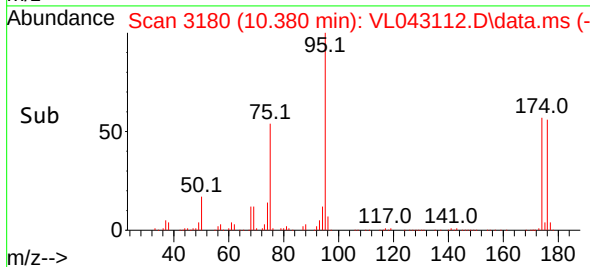
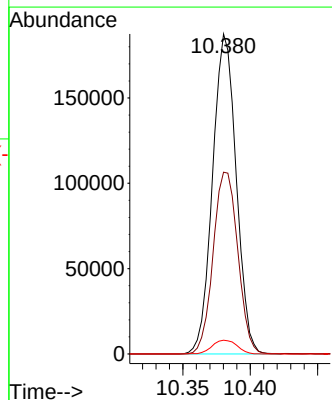
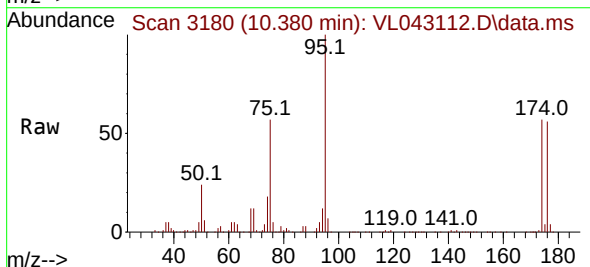
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL101425

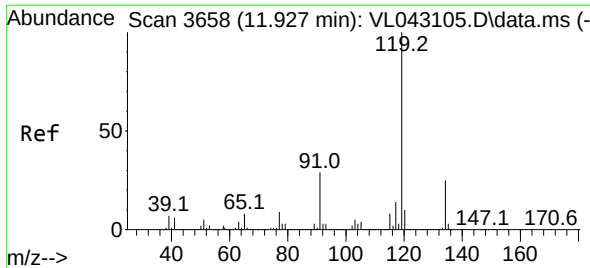
Tgt Ion:105 Resp: 762711  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.101 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. -0.000 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Tgt Ion: 95 Resp: 229010  
 Ion Ratio Lower Upper  
 95 100  
 174 59.2 48.3 72.5  
 175 4.6 3.8 5.8

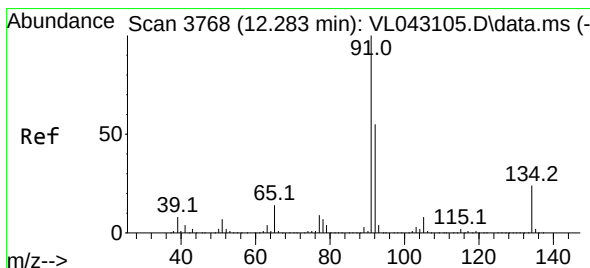
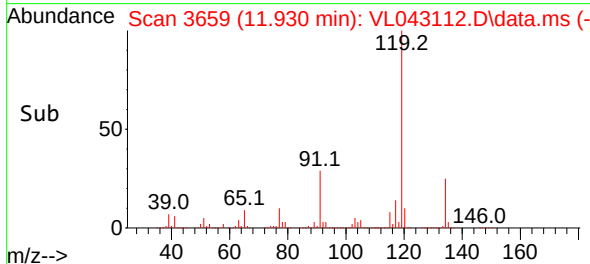
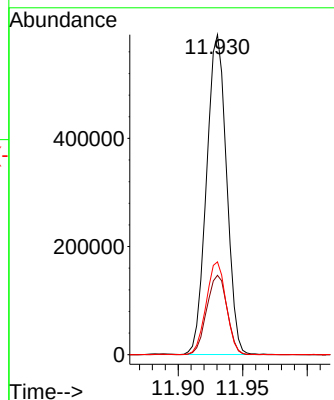
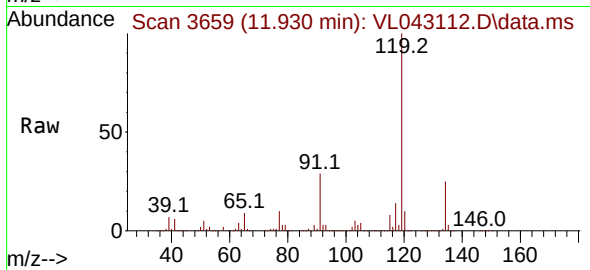




#69  
p-Isopropyltoluene  
Concen: 8.411 ppbv  
RT: 11.930 min Scan# 3659  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

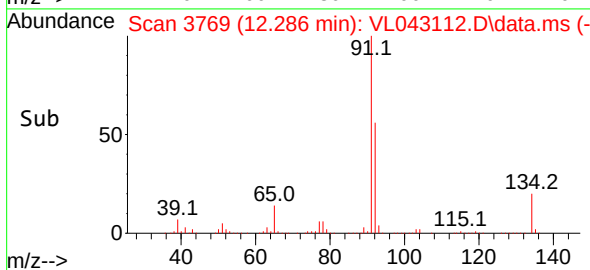
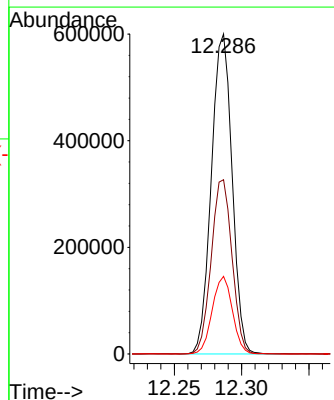
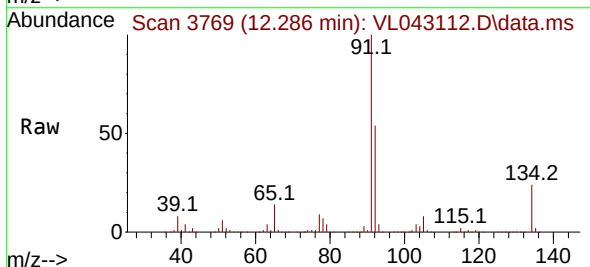
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

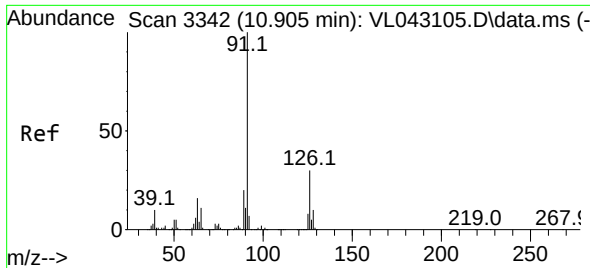
Tgt Ion:119 Resp: 638261  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 29.0 22.6 33.8



#70  
n-Butylbenzene  
Concen: 8.579 ppbv  
RT: 12.286 min Scan# 3769  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 91 Resp: 641547  
Ion Ratio Lower Upper  
91 100  
92 54.8 44.5 66.7  
134 23.7 19.3 28.9

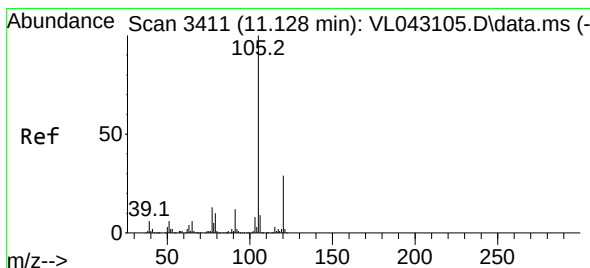
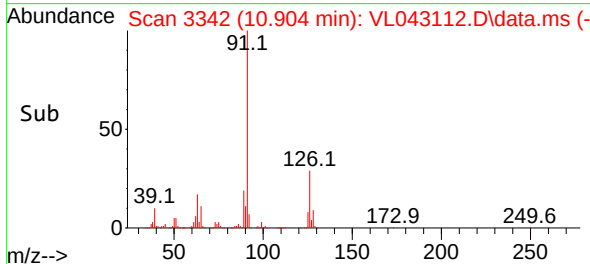
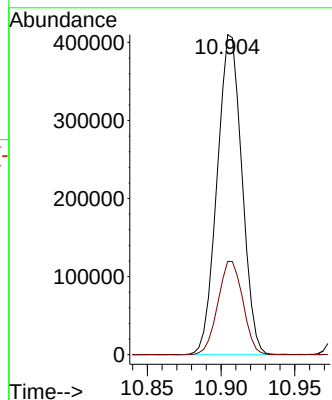
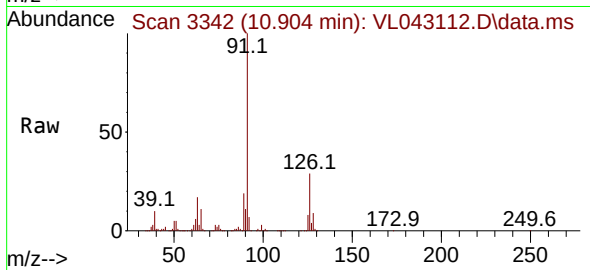




#71  
2-Chlorotoluene  
Concen: 8.828 ppbv  
RT: 10.904 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

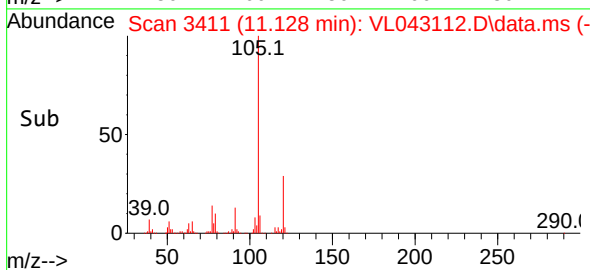
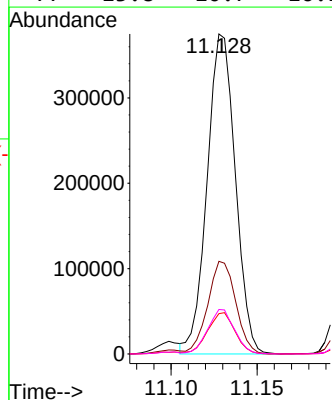
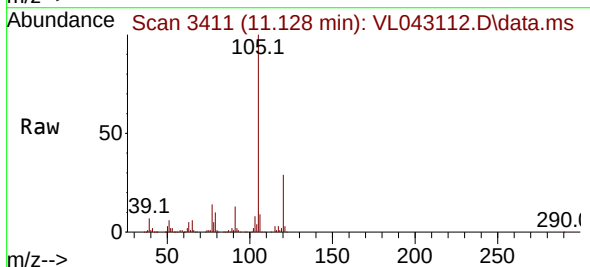
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL101425

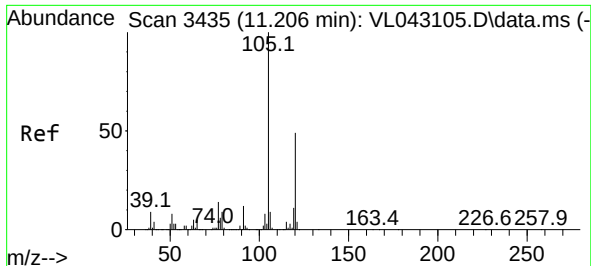
Tgt Ion: 91 Resp: 479799  
Ion Ratio Lower Upper  
91 100  
126 29.3 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 8.807 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion: 105 Resp: 427034  
Ion Ratio Lower Upper  
105 100  
120 29.8 24.2 36.4  
91 13.1 10.0 15.0  
77 13.8 10.7 16.1

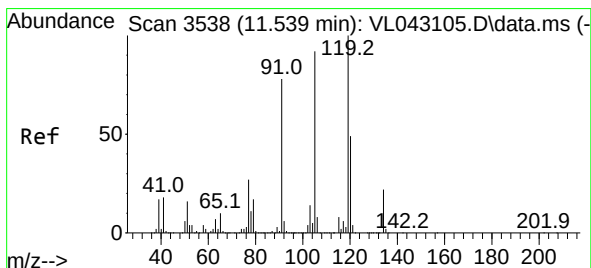
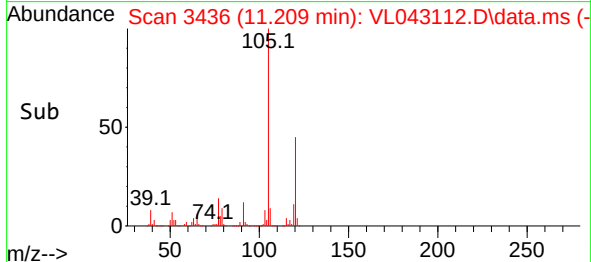
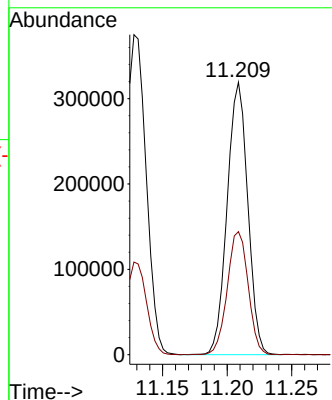
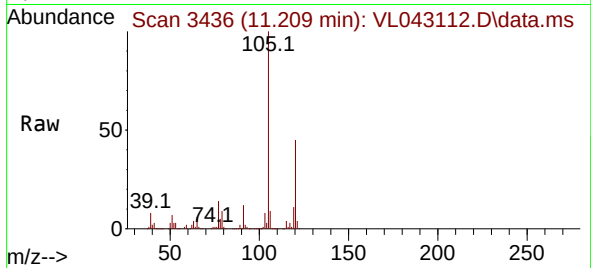




#73  
1,3,5-Trimethylbenzene  
Concen: 8.874 ppbv  
RT: 11.209 min Scan# 3435  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

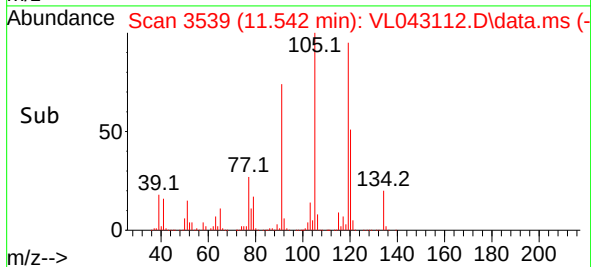
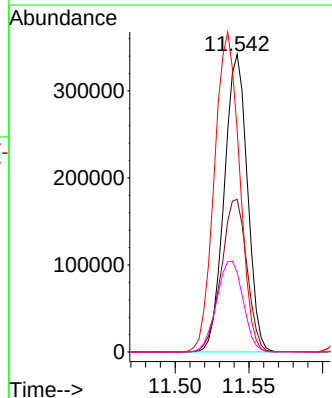
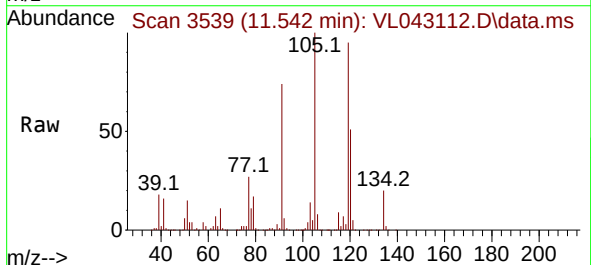
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

Tgt Ion:105 Resp: 354875  
Ion Ratio Lower Upper  
105 100  
120 45.2 39.0 58.6

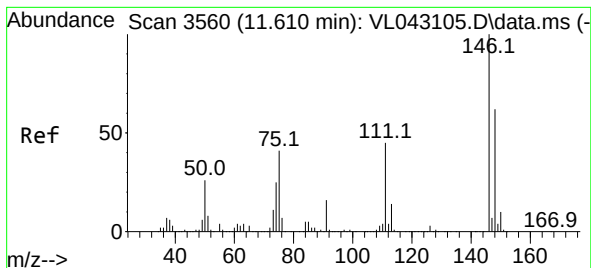


#74  
1,2,4-Trimethylbenzene  
Concen: 8.324 ppbv  
RT: 11.542 min Scan# 3539  
Delta R.T. 0.003 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:105 Resp: 372506  
Ion Ratio Lower Upper  
105 100  
120 51.3 42.8 64.2  
91 74.4 68.3 102.5  
77 26.7 23.4 35.0



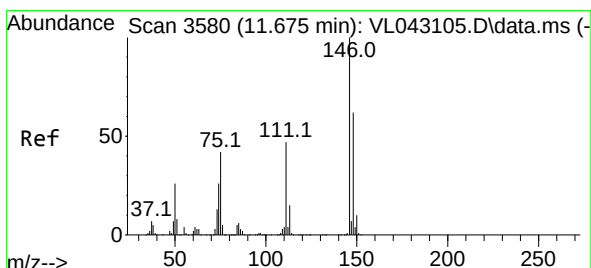
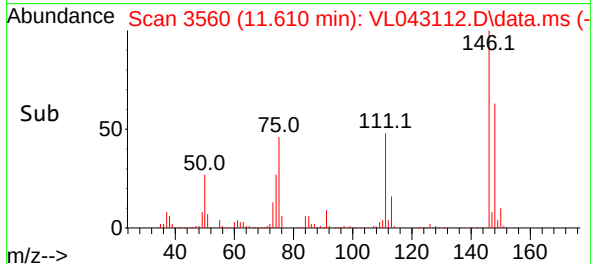
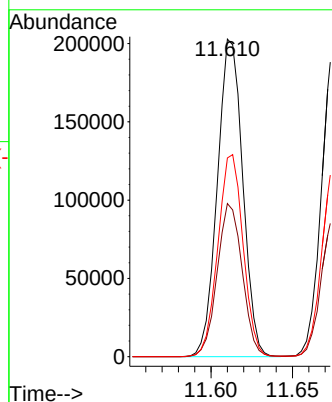
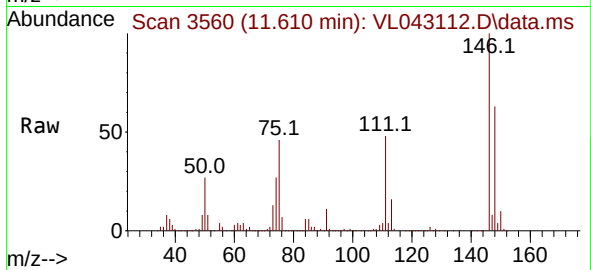




#75  
1,3-Dichlorobenzene  
Concen: 8.454 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

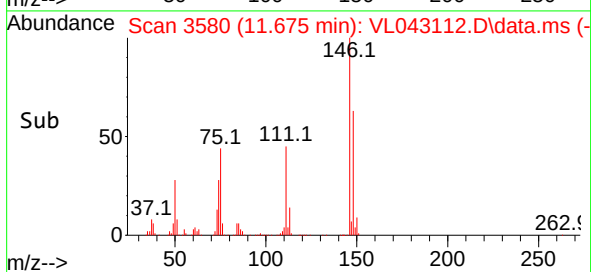
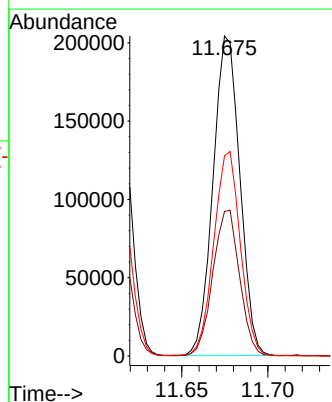
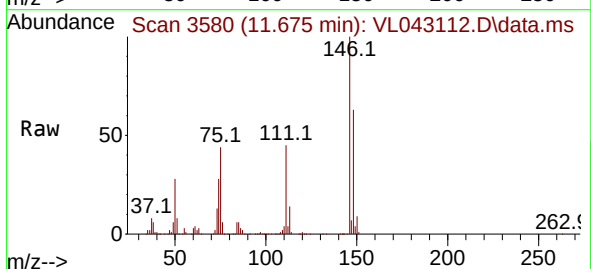
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

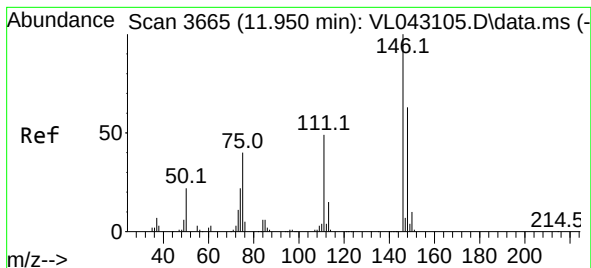
Tgt Ion:146 Resp: 219423  
Ion Ratio Lower Upper  
146 100  
111 47.6 23.3 69.9  
148 63.3 31.6 95.0



#76  
1,4-Dichlorobenzene  
Concen: 8.458 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

Tgt Ion:146 Resp: 221364  
Ion Ratio Lower Upper  
146 100  
111 45.7 22.4 67.0  
148 63.6 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 8.132 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL101425

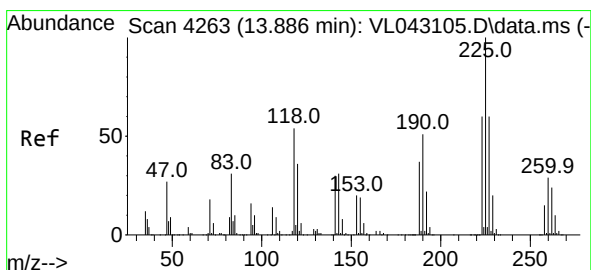
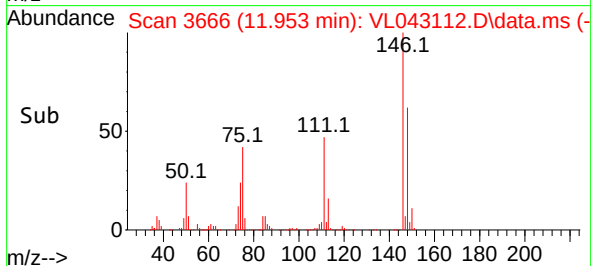
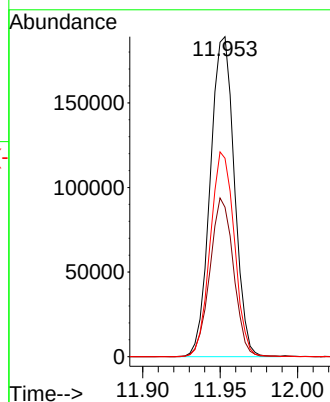
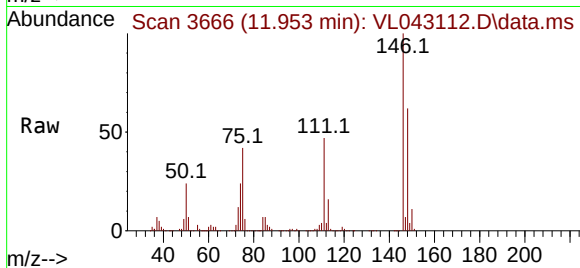
Tgt Ion:146 Resp: 204178

Ion Ratio Lower Upper

146 100

111 48.8 24.0 72.0

148 64.1 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 7.440 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. -0.000 min

Lab File: VL043112.D

Acq: 14 Oct 2025 14:51

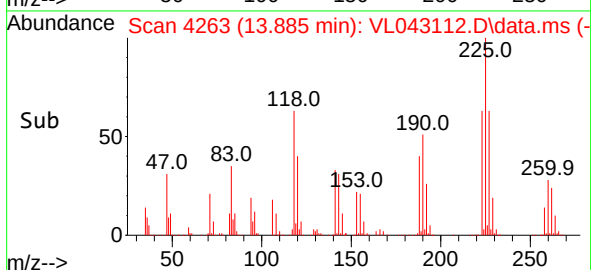
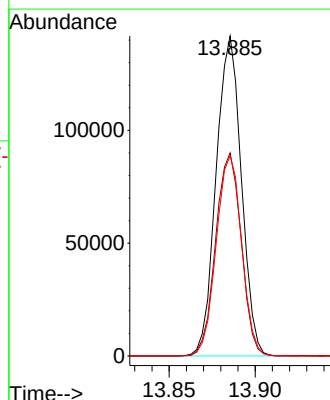
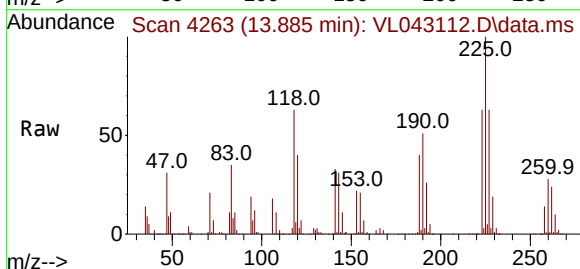
Tgt Ion:225 Resp: 144646

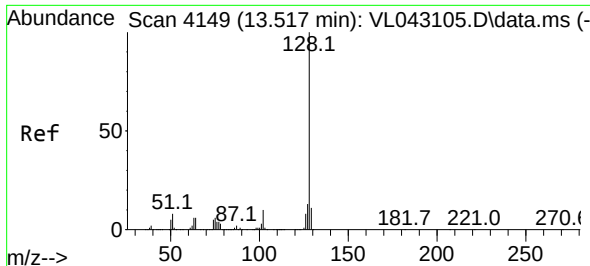
Ion Ratio Lower Upper

225 100

223 64.1 50.2 75.4

227 62.9 49.6 74.4

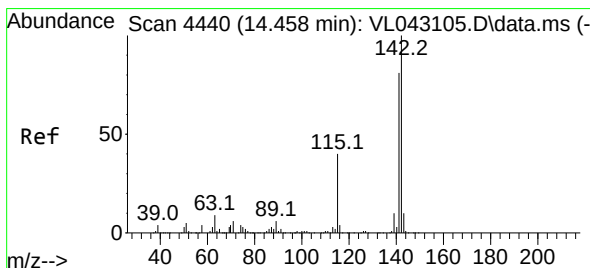
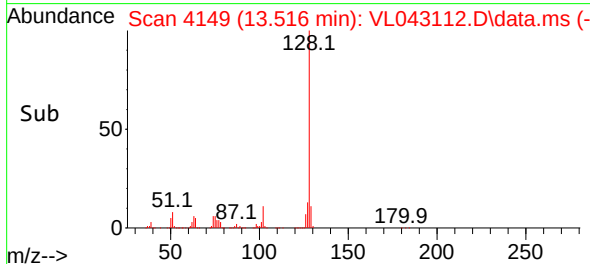
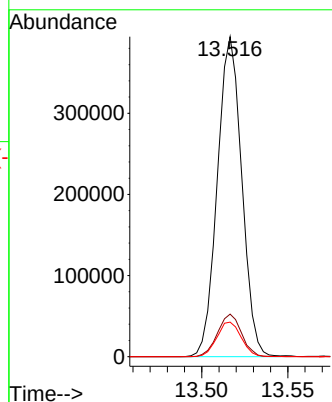
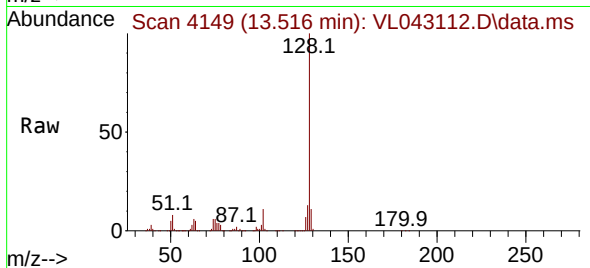




#79  
Naphthalene  
Concen: 8.334 ppbv  
RT: 13.516 min Scan# 4149  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

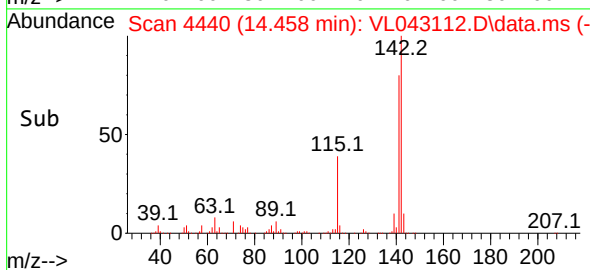
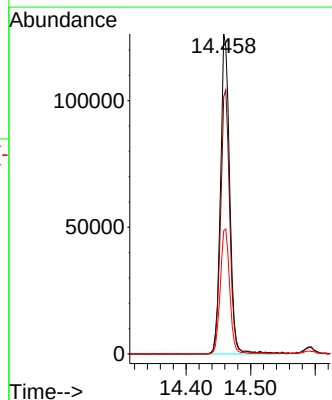
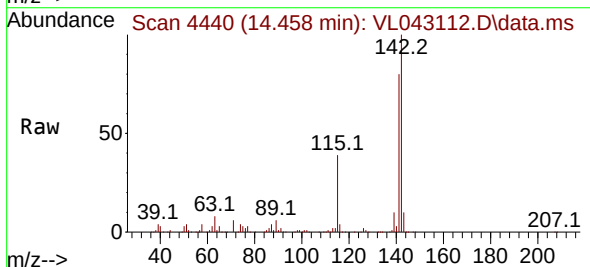
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL101425

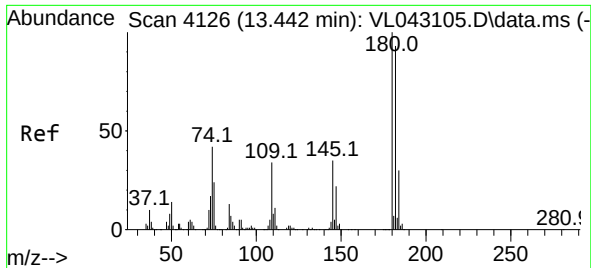
Tgt Ion:128 Resp: 389814  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.5 15.7  
129 10.8 9.1 13.7



#80  
Naphthalene,2-methyl-  
Concen: 10.146 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL043112.D  
Acq: 14 Oct 2025 14:51

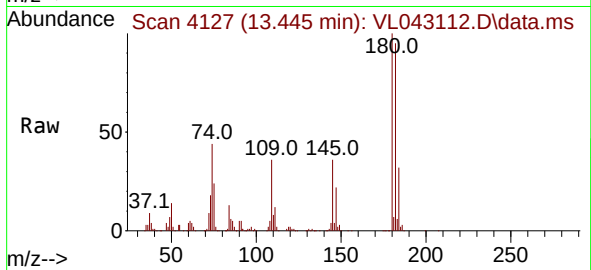
Tgt Ion:142 Resp: 123632  
Ion Ratio Lower Upper  
142 100  
141 83.1 64.6 97.0  
115 40.3 30.2 45.4



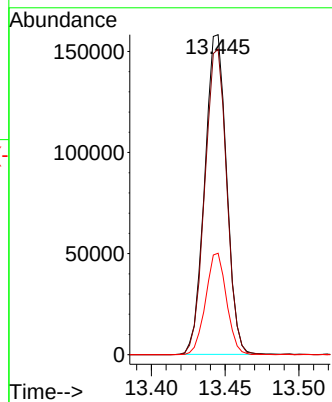
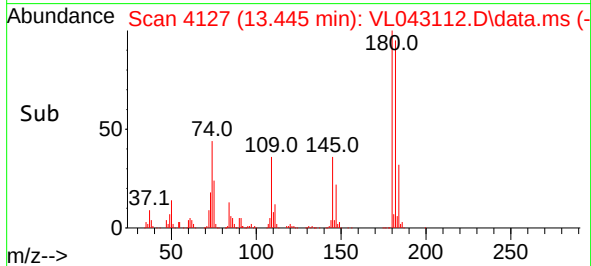


#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.373 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL043112.D  
 Acq: 14 Oct 2025 14:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL101425



Tgt Ion:180 Resp: 162553  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 75.5 113.3  
 184 30.4 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043155.D  
 Acq On : 06 Nov 2025 07:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Nov 07 00:16:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 111679   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 341877   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 299829   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 10.377 95 246332 10.570 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.700%

| Target Compounds              | Qvalue |     |        |        |        |     |
|-------------------------------|--------|-----|--------|--------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.502  | 85  | 171973 | 10.832 | ppbv   | 97  |
| 3) Chlorodifluoromethane      | 1.479  | 51  | 173652 | 10.109 | ppbv   | 96  |
| 4) Chloromethane              | 1.534  | 50  | 57078  | 9.075  | ppbv   | 97  |
| 5) Vinyl Chloride             | 1.583  | 62  | 57398  | 9.304  | ppbv   | 98  |
| 6) Bromomethane               | 1.670  | 94  | 35458  | 10.482 | ppbv   | 99  |
| 7) Chloroethane               | 1.706  | 64  | 23010  | 9.123  | ppbv   | 96  |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85  | 137989 | 10.753 | ppbv   | 91  |
| 9) Propene                    | 1.486  | 41  | 63768  | 8.370  | ppbv   | 99  |
| 10) Heptane                   | 4.985  | 43  | 188172 | 8.579  | ppbv   | 97  |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 185190 | 11.925 | ppbv   | 98  |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101 | 144020 | 11.519 | ppbv   | 99  |
| 13) Ethanol                   | 1.722  | 45  | 20822  | 7.389  | ppbv   | 98  |
| 14) Bromoethene               | 1.784  | 108 | 49929  | 10.750 | ppbv   | 99  |
| 15) Acetone                   | 1.835  | 43  | 136553 | 9.072  | ppbv   | 100 |
| 16) 1,3-Butadiene             | 1.612  | 39  | 63019  | 8.785  | ppbv   | 99  |
| 17) tert-Butyl alcohol        | 2.043  | 59  | 204329 | 9.889  | ppbv   | 100 |
| 18) 1,1-Dichloroethene        | 2.036  | 96  | 60122  | 11.030 | ppbv   | 93  |
| 19) Isopropyl Alcohol         | 1.887  | 45  | 81900  | 8.736  | ppbv   | 93  |
| 20) Methylene Chloride        | 2.065  | 84  | 52206  | 8.774  | ppbv   | 96  |
| 21) Allyl Chloride            | 2.098  | 41  | 103255 | 9.309  | ppbv   | 92  |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96  | 69627  | 10.686 | ppbv   | 96  |
| 23) Vinyl Acetate             | 2.463  | 43  | 236500 | 10.726 | ppbv   | 98  |
| 24) 1,1-Dichloroethane        | 2.412  | 63  | 132624 | 10.535 | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.836  | 43  | 352821 | 9.452  | ppbv   | 99  |
| 26) Hexane                    | 2.829  | 57  | 163545 | 9.508  | ppbv   | 97  |
| 27) Carbon Disulfide          | 2.153  | 76  | 168378 | 10.684 | ppbv   | 98  |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73  | 79492  | 10.158 | ppbv   | 94  |
| 29) Chloroform                | 2.852  | 83  | 272134 | 10.919 | ppbv   | 100 |
| 30) Cyclohexane               | 3.862  | 84  | 140232 | 9.341  | ppbv   | 93  |
| 31) cis-1,2-Dichloroethene    | 2.725  | 61  | 168571 | 10.263 | ppbv   | 98  |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97  | 281440 | 10.844 | ppbv   | 99  |
| 34) 2-Butanone                | 2.557  | 43  | 235359 | 10.242 | ppbv   | 98  |
| 35) Carbon Tetrachloride      | 3.768  | 117 | 291148 | 11.845 | ppbv   | 99  |
| 36) Benzene                   | 3.661  | 78  | 326769 | 10.148 | ppbv   | 96  |
| 37) 1,2-Dichloroethane        | 3.221  | 62  | 213185 | 11.493 | ppbv   | 98  |
| 38) Trichloroethene           | 4.554  | 130 | 129566 | 9.635  | ppbv   | 94  |
| 39) 1,2-Dichloropropane       | 4.318  | 63  | 117127 | 9.950  | ppbv   | 95  |
| 40) 1,4-Dioxane               | 4.580  | 88  | 50431  | 9.574  | ppbv # | 96  |
| 41) Tetrahydrofuran           | 3.056  | 42  | 119118 | 9.267  | ppbv   | 97  |
| 42) Bromodichloromethane      | 4.496  | 83  | 291618 | 11.359 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 4.884  | 69  | 157399 | 9.624  | ppbv   | 97  |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57  | 535251 | 9.853  | ppbv   | 99  |
| 45) t-1,3-Dichloropropene     | 6.418  | 75  | 168113 | 10.243 | ppbv   | 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043155.D  
 Acq On : 06 Nov 2025 07:19  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

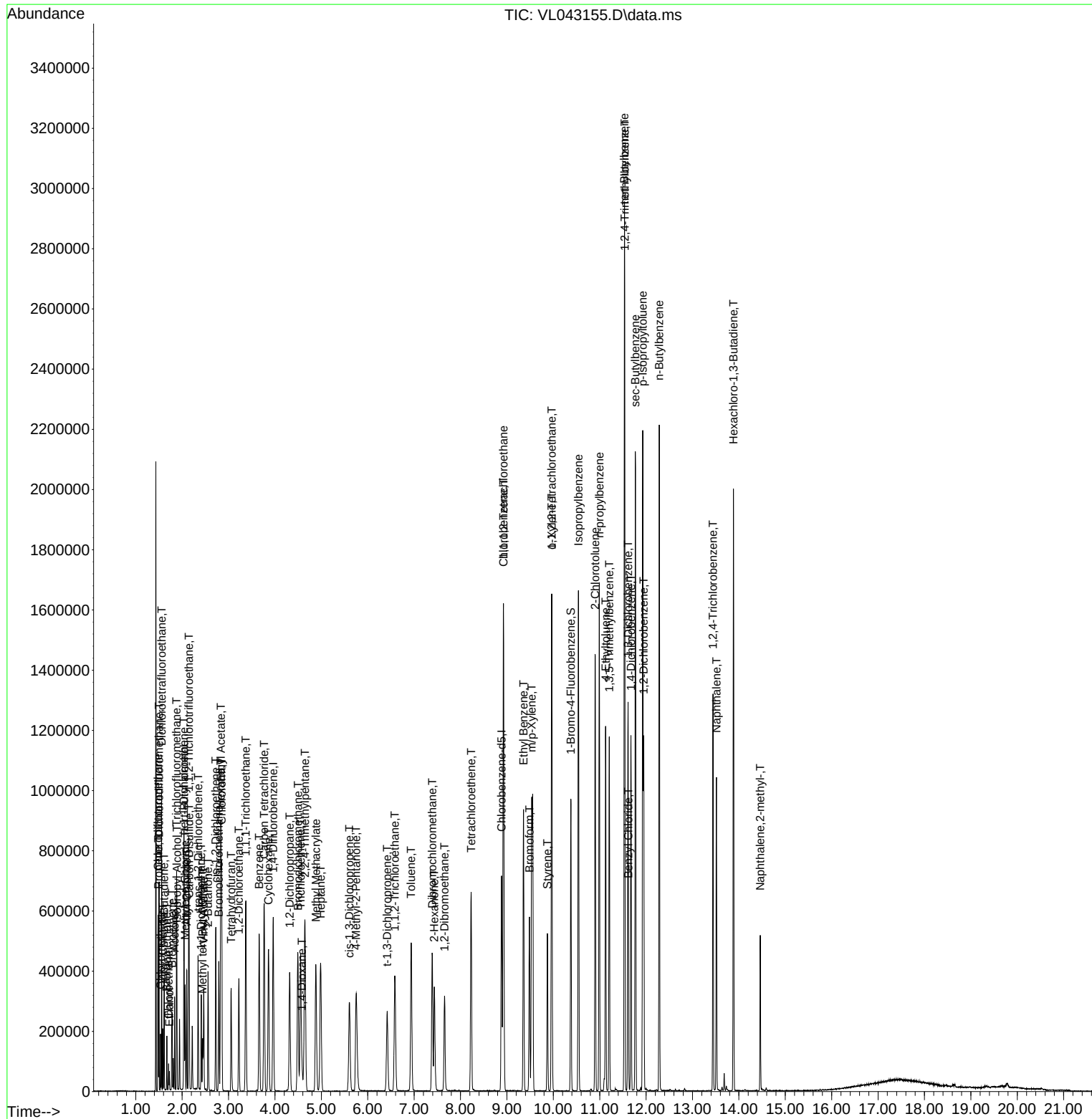
Quant Time: Nov 07 00:16:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

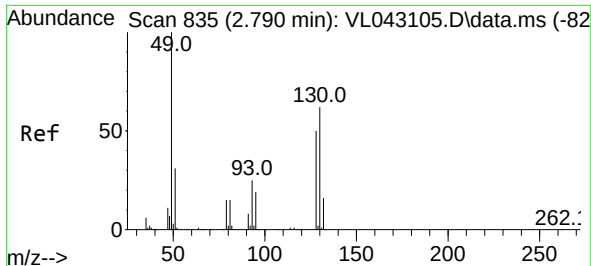
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 197738   | 10.086 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 130602   | 10.274 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.389  | 129  | 238917   | 11.241 | ppbv   | 98       |
| 49) Bromoform                 | 9.487  | 173  | 206162   | 11.933 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 295948   | 9.331  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 225625   | 9.485  | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.231  | 164  | 120713   | 10.396 | ppbv   | 98       |
| 53) Toluene                   | 6.936  | 91   | 374714   | 9.805  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 205679   | 10.330 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 216010   | 11.429 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.924  | 112  | 286894   | 10.228 | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.357  | 91   | 527991   | 10.261 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.535  | 91   | 474002   | 11.549 | ppbv # | 29       |
| 60) o-Xylene                  | 9.966  | 91   | 428248   | 10.565 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 180052   | 9.839  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 773742   | 10.564 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 273835   | 10.089 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 202414   | 10.438 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 664024   | 10.266 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.620 | 91   | 66651    | 9.258  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 948023   | 10.327 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 798570   | 10.237 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.283 | 91   | 800217   | 10.410 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 584421   | 10.461 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 532971   | 10.693 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 438651   | 10.671 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 479281   | 10.419 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 291949   | 10.943 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 292491   | 10.872 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 275403   | 10.670 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 208179   | 10.417 | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 486229   | 10.113 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 137059   | 10.942 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 214527   | 10.750 | ppbv   | 98       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010

- 1
- 2
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- 18

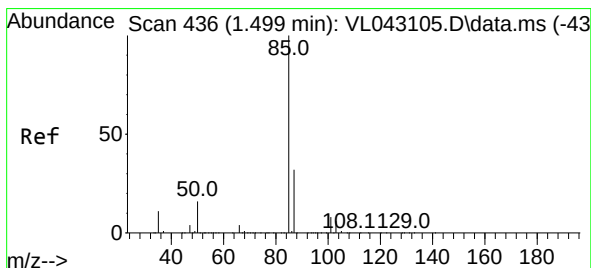
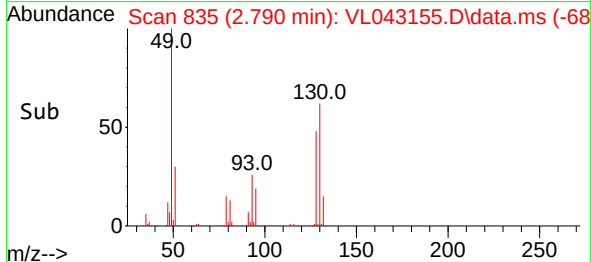
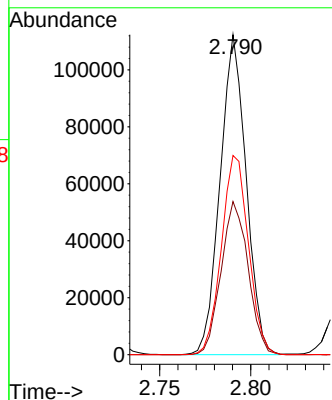
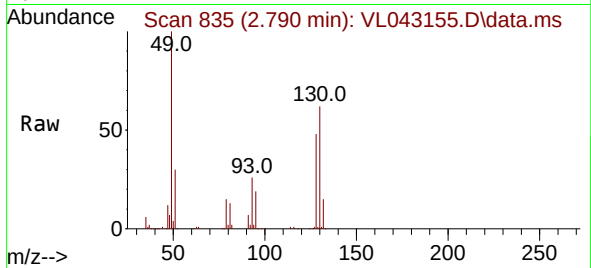




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

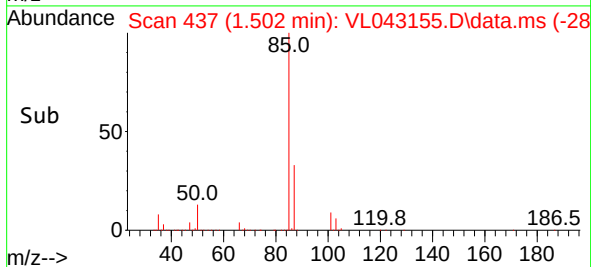
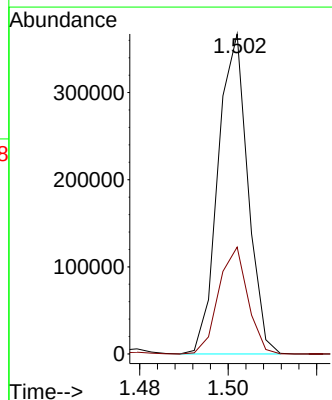
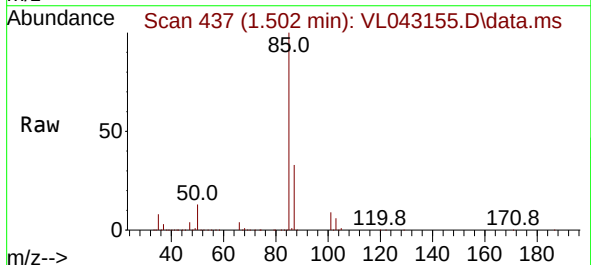
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 49 Resp: 111679  
Ion Ratio Lower Upper  
49 100  
128 49.7 24.4 73.4  
130 64.6 31.0 93.0

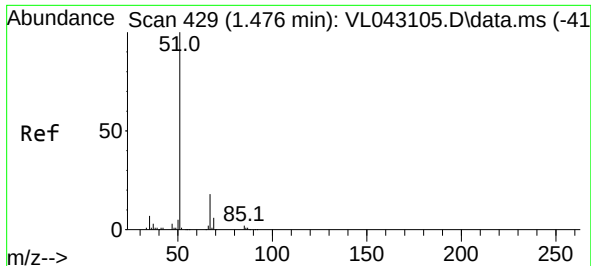


#2  
Dichlorodifluoromethane  
Concen: 10.832 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 85 Resp: 171973  
Ion Ratio Lower Upper  
85 100  
87 33.4 25.3 37.9



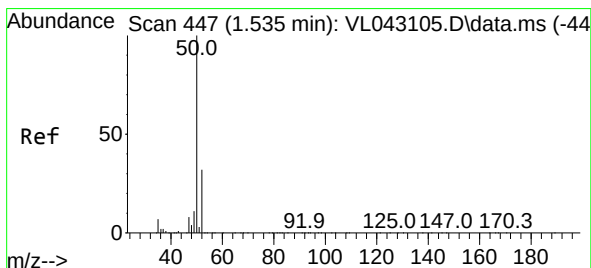
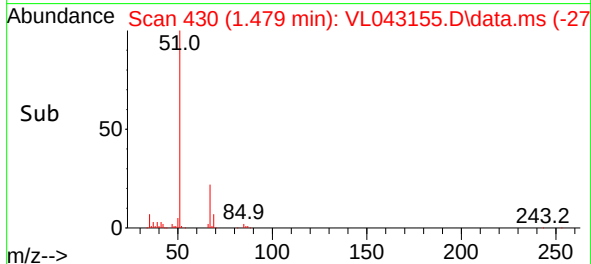
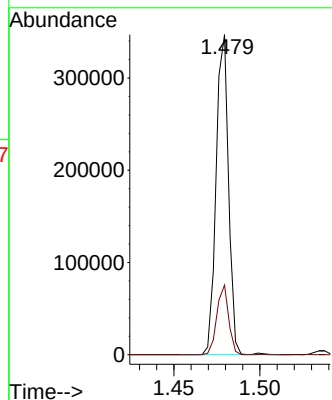
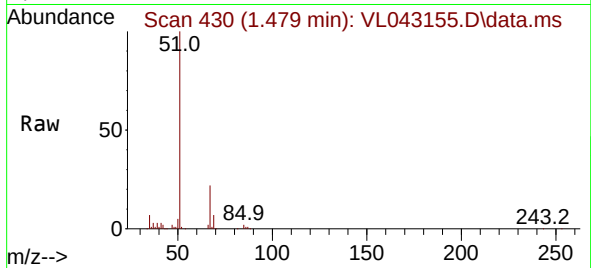




#3  
Chlorodifluoromethane  
Concen: 10.109 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

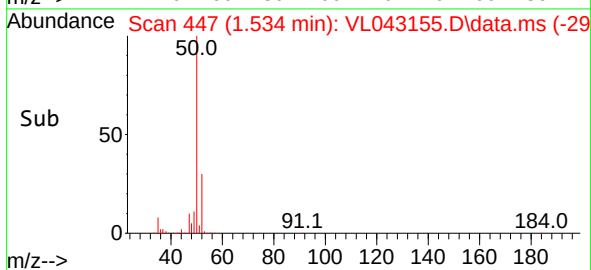
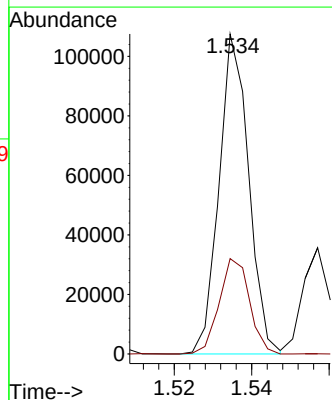
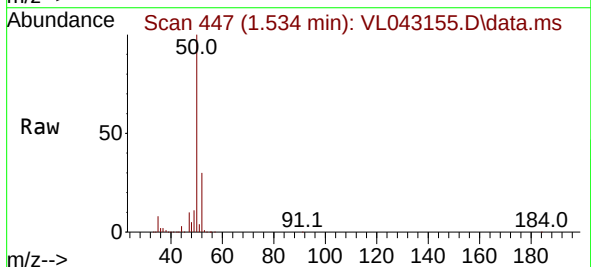
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

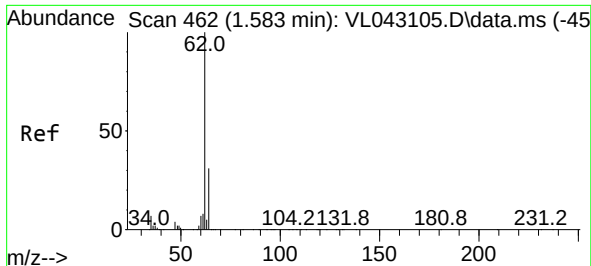
Tgt Ion: 51 Resp: 173652  
Ion Ratio Lower Upper  
51 100  
67 20.7 15.1 22.7



#4  
Chloromethane  
Concen: 9.075 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 50 Resp: 57078  
Ion Ratio Lower Upper  
50 100  
52 29.8 25.2 37.8

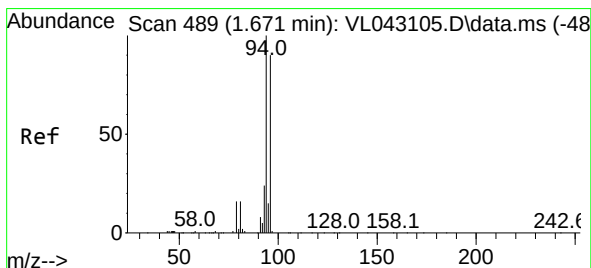
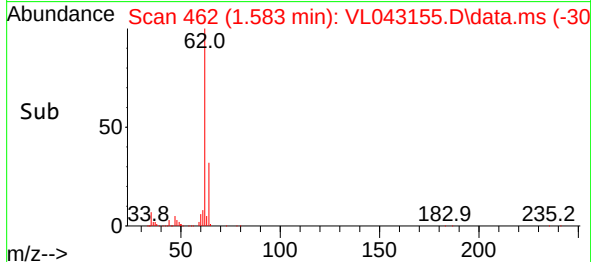
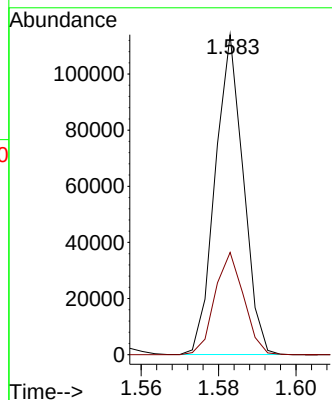
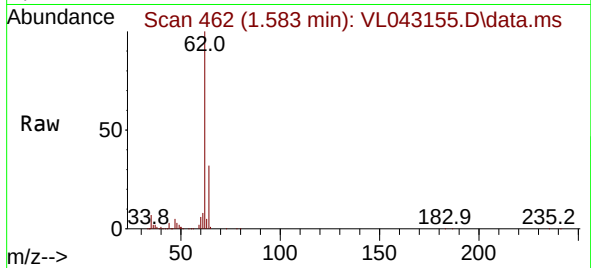




#5  
 Vinyl Chloride  
 Concen: 9.304 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

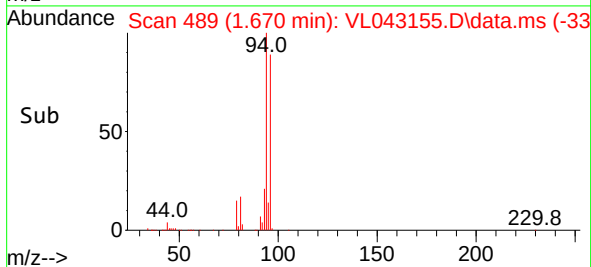
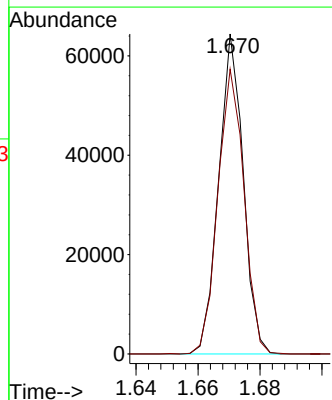
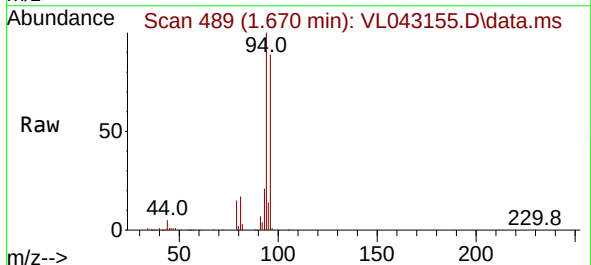
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

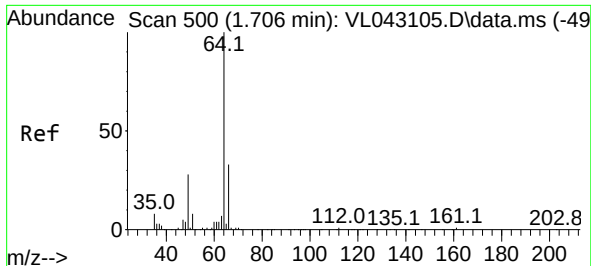
Tgt Ion: 62 Resp: 57398  
 Ion Ratio Lower Upper  
 62 100  
 64 32.0 24.6 36.8



#6  
 Bromomethane  
 Concen: 10.482 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 94 Resp: 35458  
 Ion Ratio Lower Upper  
 94 100  
 96 89.0 72.2 108.4

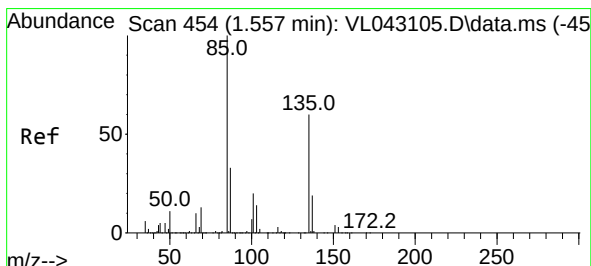
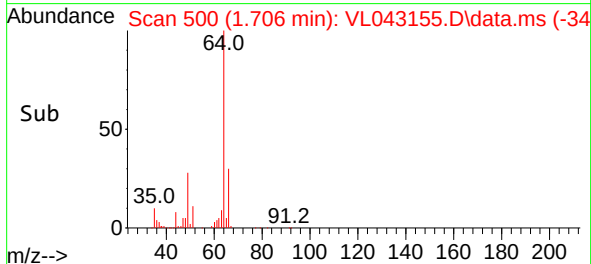
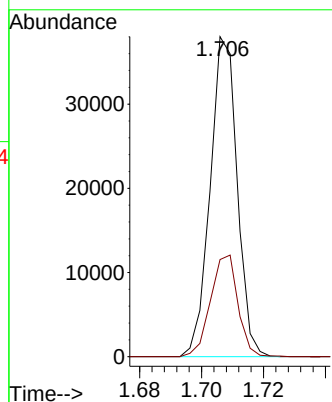
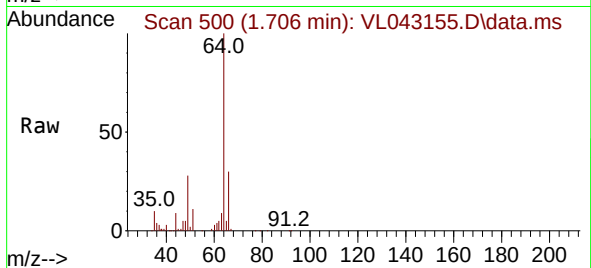




#7  
Chloroethane  
Concen: 9.123 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

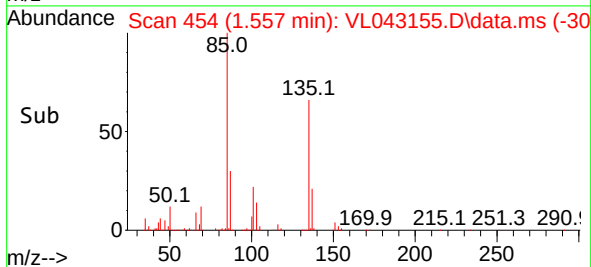
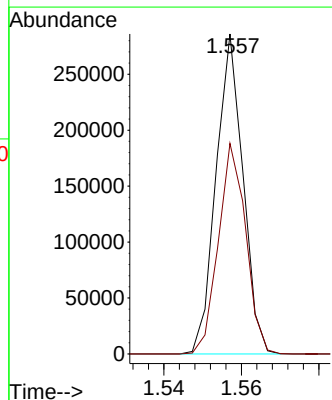
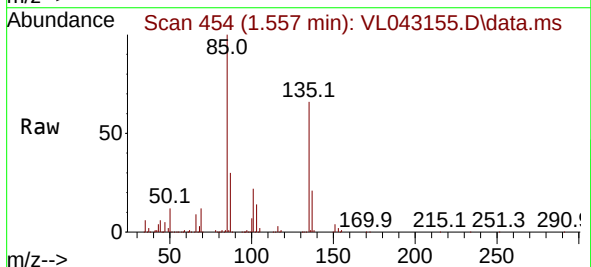
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

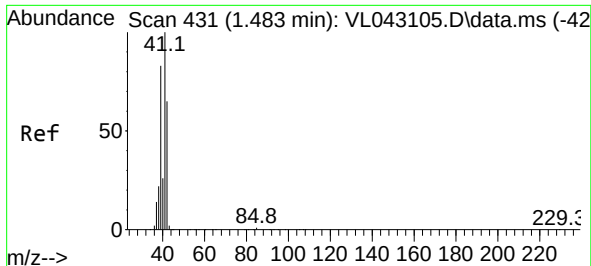
Tgt Ion: 64 Resp: 23010  
Ion Ratio Lower Upper  
64 100  
66 30.4 26.0 39.0



#8  
Dichlorotetrafluoroethane  
Concen: 10.753 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 85 Resp: 137989  
Ion Ratio Lower Upper  
85 100  
135 67.0 48.2 72.4





#9

Propene

Concen: 8.370 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_1

ClientSampleId :

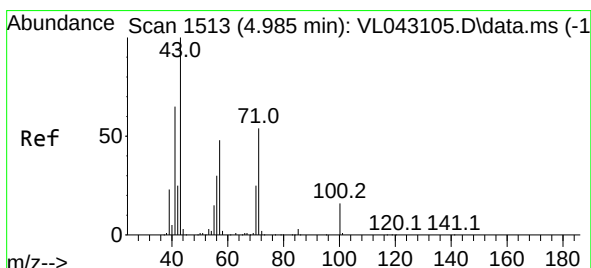
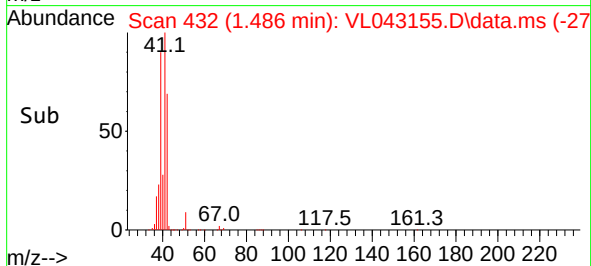
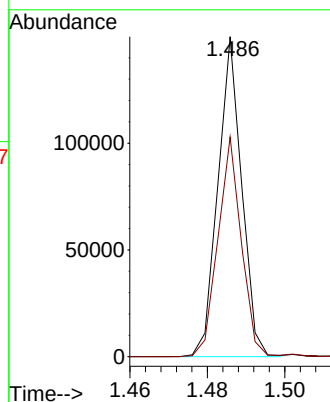
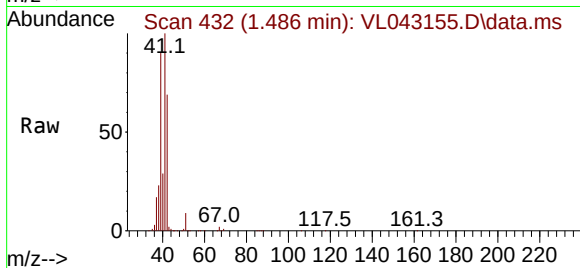
VSTDCCC010

Tgt Ion: 41 Resp: 63768

Ion Ratio Lower Upper

41 100

42 68.3 55.1 82.7



#10

Heptane

Concen: 8.579 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VL043155.D

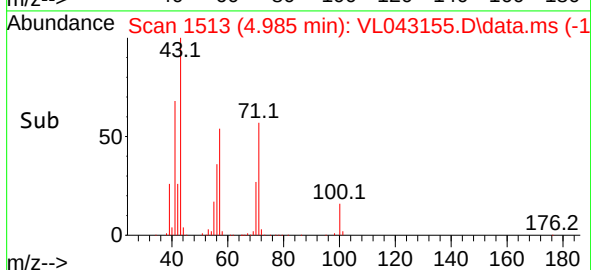
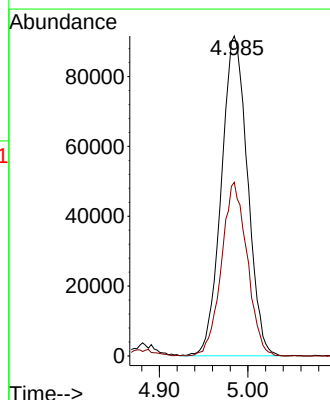
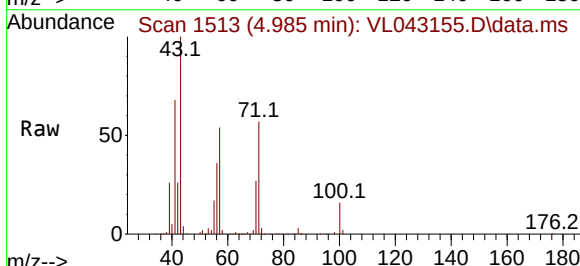
Acq: 06 Nov 2025 07:19

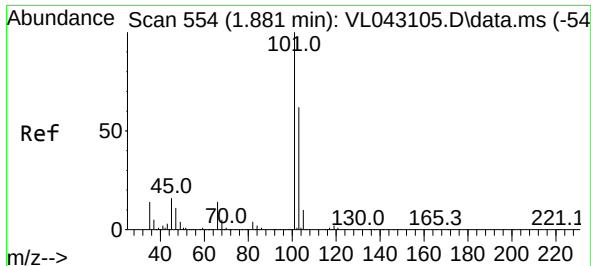
Tgt Ion: 43 Resp: 188172

Ion Ratio Lower Upper

43 100

57 53.2 40.8 61.2

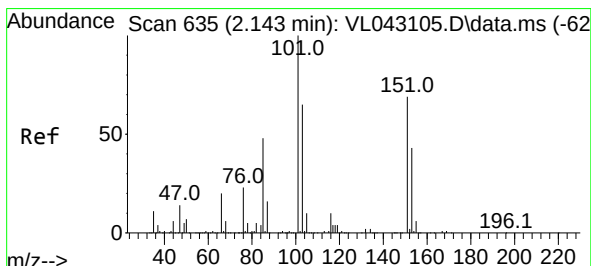
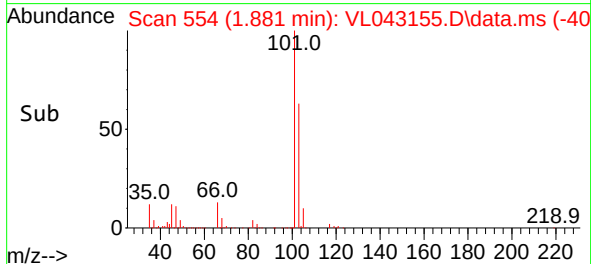
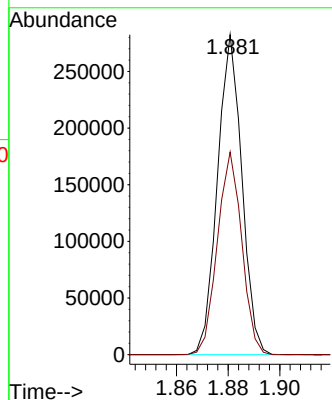
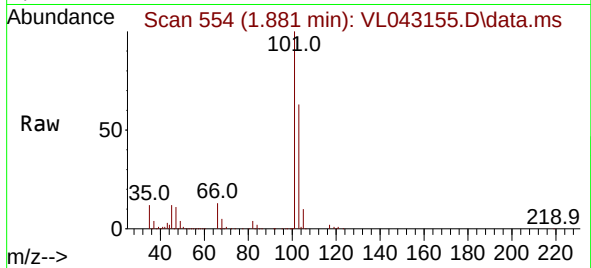




#11  
 Trichlorofluoromethane  
 Concen: 11.925 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

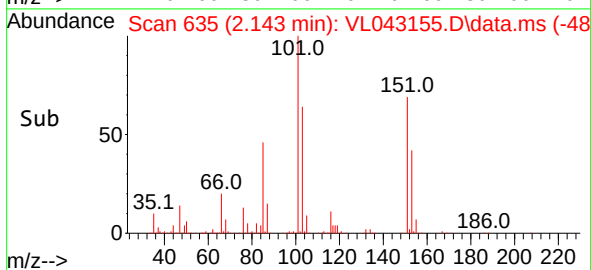
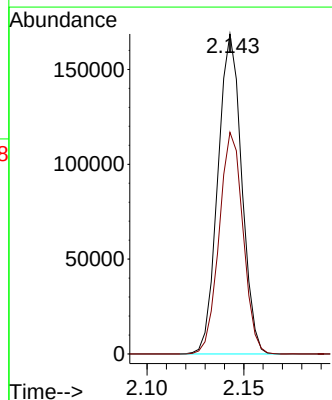
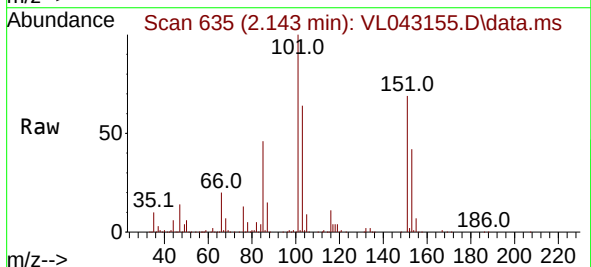
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

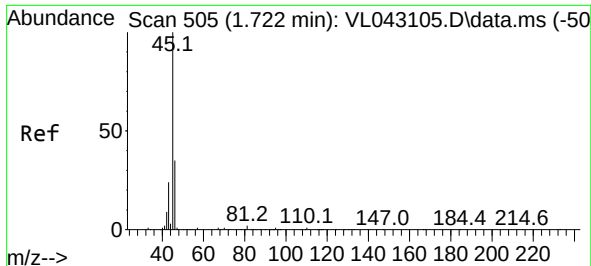
Tgt Ion:101 Resp: 185190  
 Ion Ratio Lower Upper  
 101 100  
 103 63.3 49.3 73.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 11.519 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion:101 Resp: 144020  
 Ion Ratio Lower Upper  
 101 100  
 151 69.5 54.7 82.1

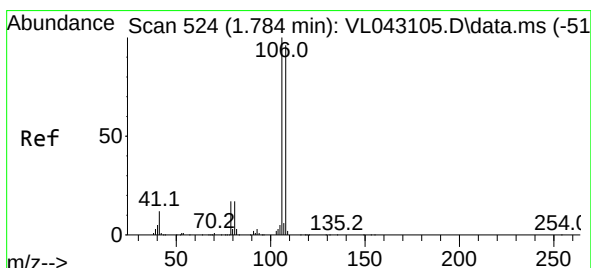
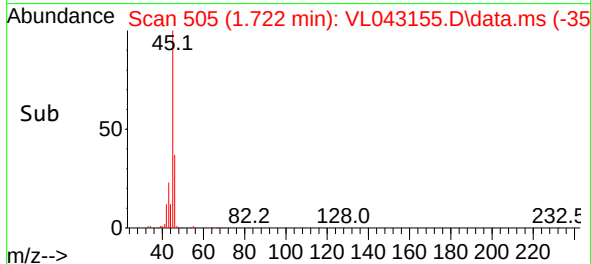
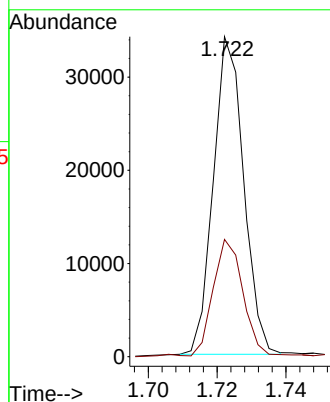
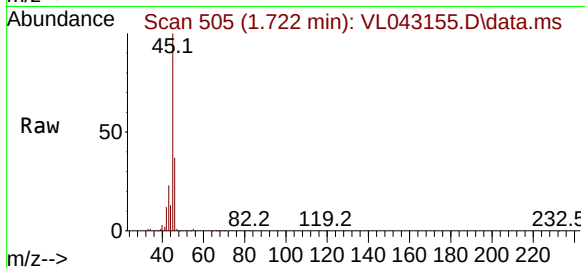




#13  
Ethanol  
Concen: 7.389 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

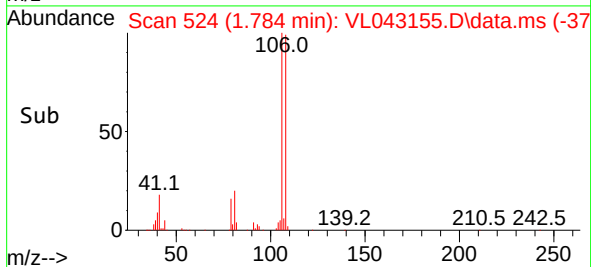
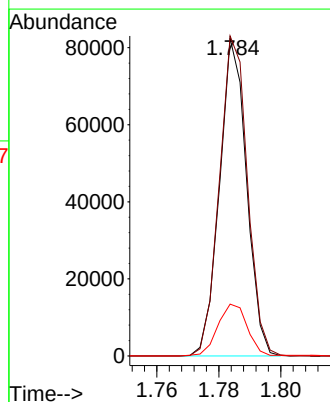
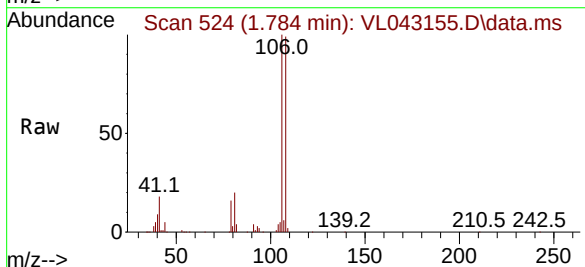
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

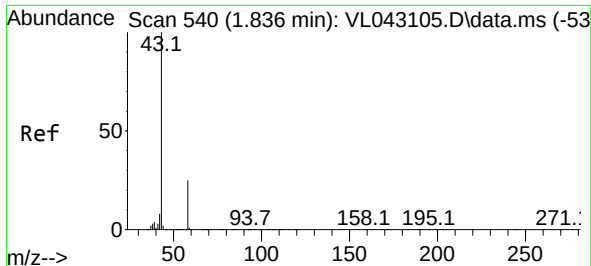
Tgt Ion: 45 Resp: 20822  
Ion Ratio Lower Upper  
45 100  
46 38.0 14.7 58.9



#14  
Bromoethene  
Concen: 10.750 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 108 Resp: 49929  
Ion Ratio Lower Upper  
108 100  
106 104.4 84.4 126.6  
79 18.3 15.3 22.9

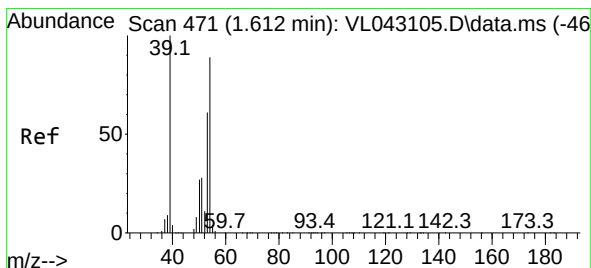
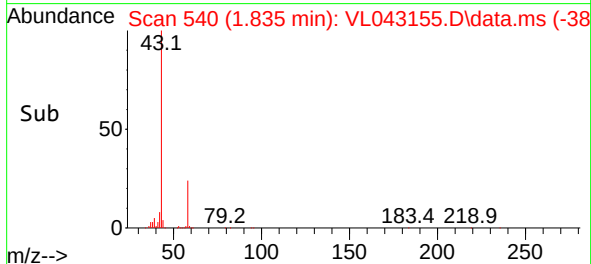
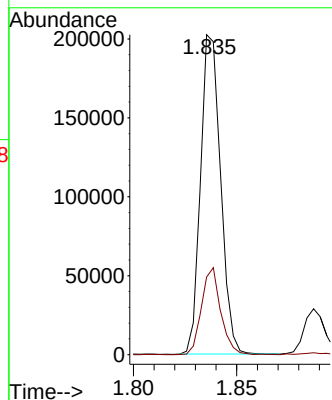
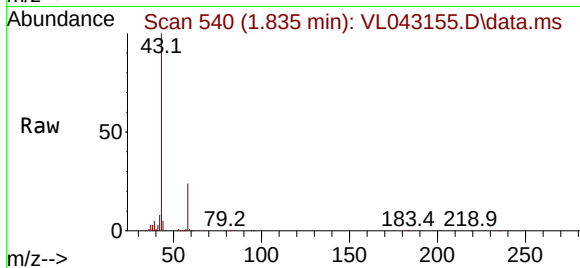




#15  
Acetone  
Concen: 9.072 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

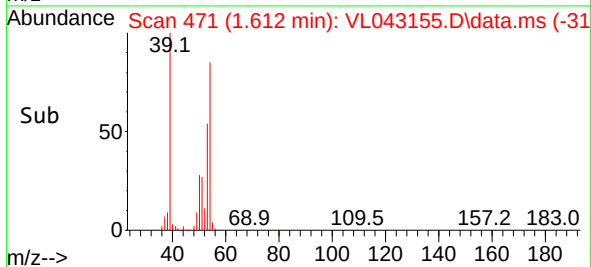
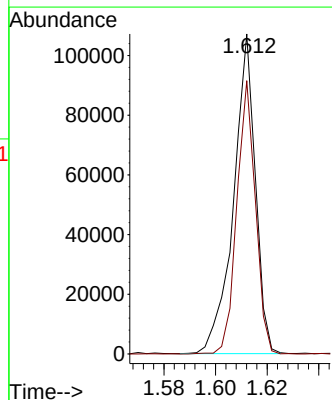
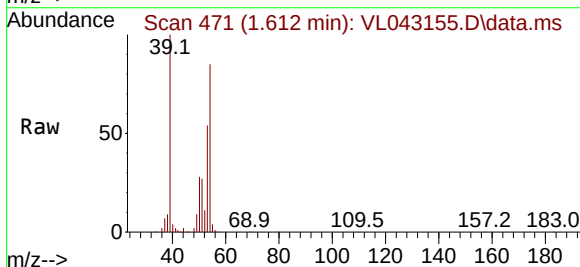
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

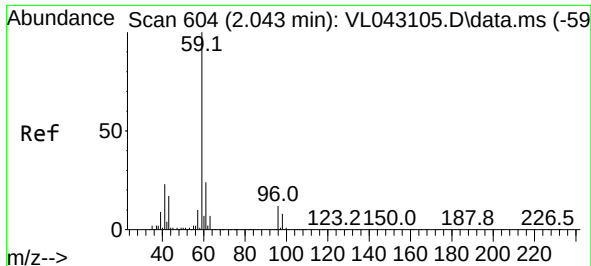
Tgt Ion: 43 Resp: 136553  
Ion Ratio Lower Upper  
43 100  
58 26.2 20.8 31.2



#16  
1,3-Butadiene  
Concen: 8.785 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 39 Resp: 63019  
Ion Ratio Lower Upper  
39 100  
54 72.9 59.0 88.4

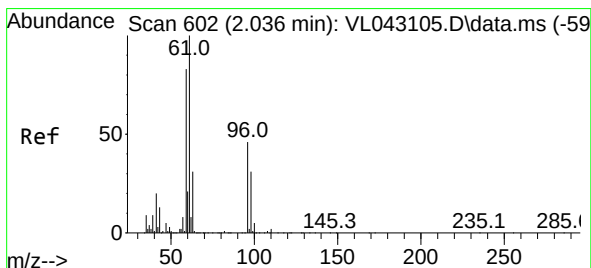
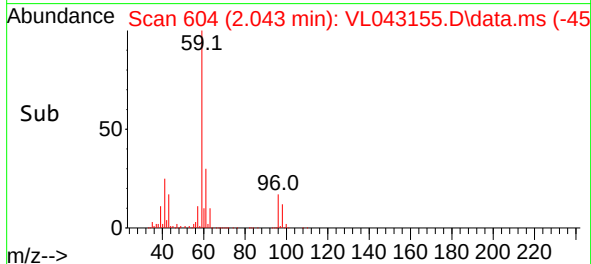
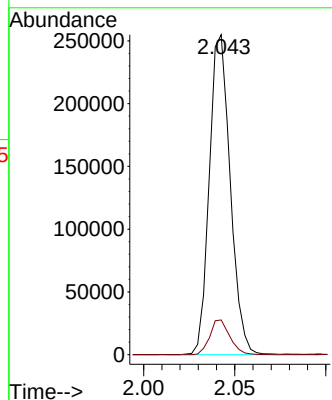
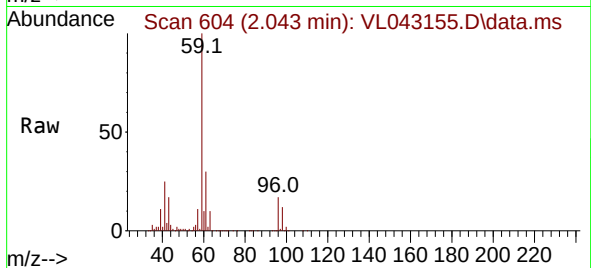




#17  
tert-Butyl alcohol  
Concen: 9.889 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

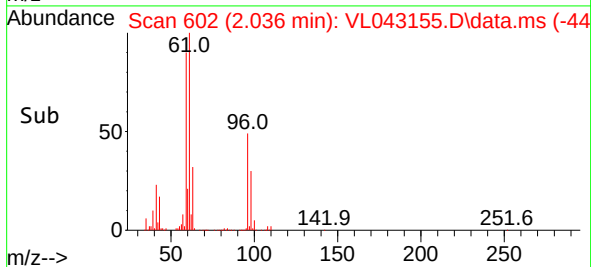
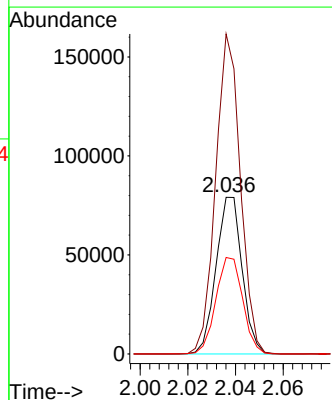
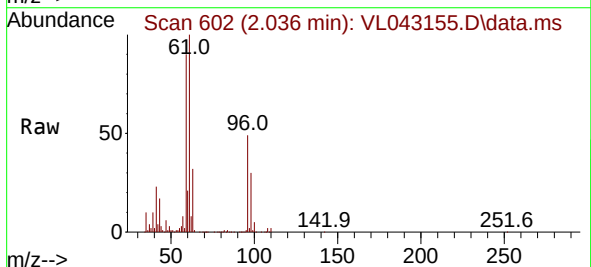
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 59 Resp: 204329  
Ion Ratio Lower Upper  
59 100  
57 10.4 8.2 12.4

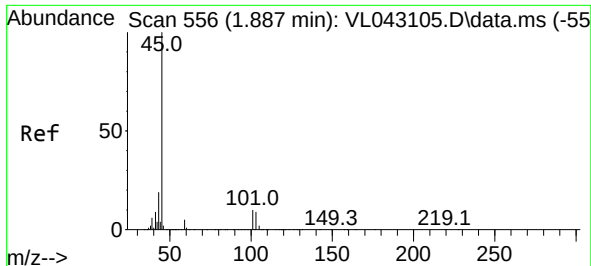


#18  
1,1-Dichloroethene  
Concen: 11.030 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 96 Resp: 60122  
Ion Ratio Lower Upper  
96 100  
61 204.3 173.4 260.0  
98 61.6 53.2 79.8







#19

Isopropyl Alcohol

Concen: 8.736 ppbv

RT: 1.887 min Scan# 511

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

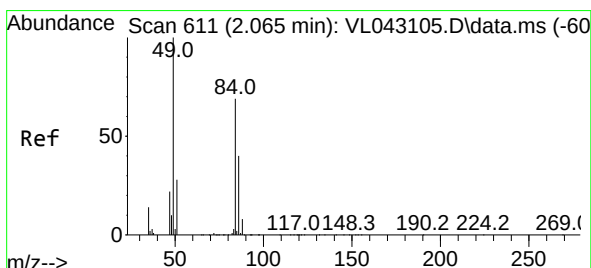
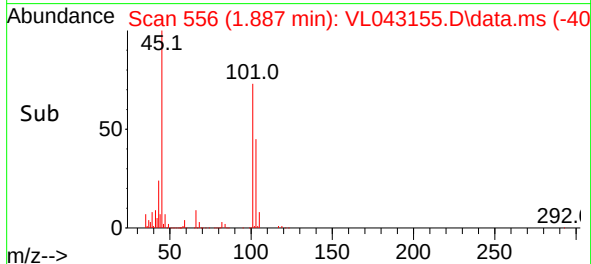
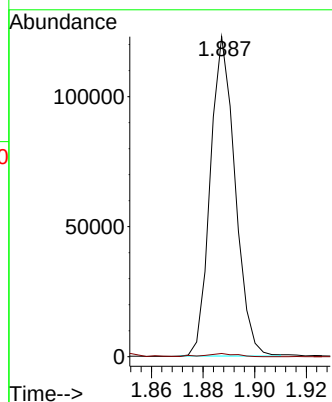
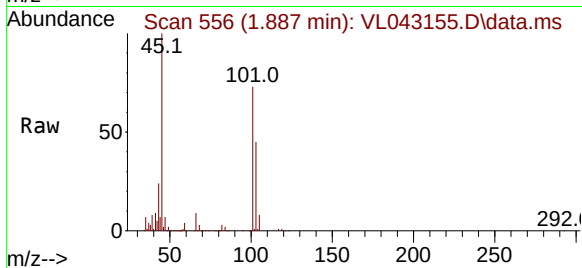
VSTDCCC010

Tgt Ion: 45 Resp: 81900

Ion Ratio Lower Upper

45 100

58 43.6 31.3 46.9



#20

Methylene Chloride

Concen: 8.774 ppbv

RT: 2.065 min Scan# 611

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 84 Resp: 52206

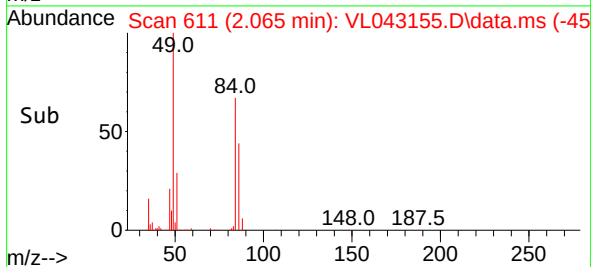
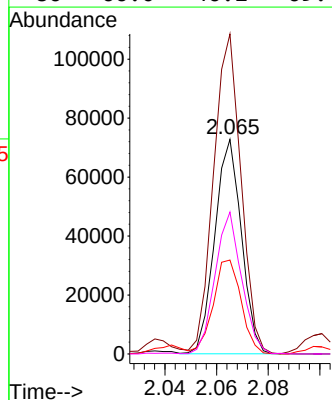
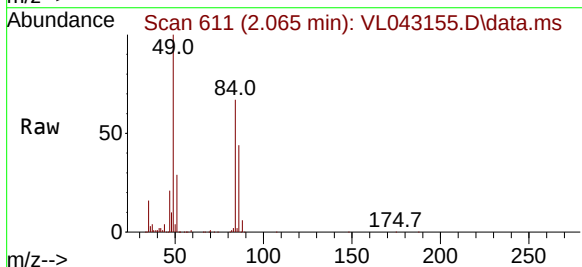
Ion Ratio Lower Upper

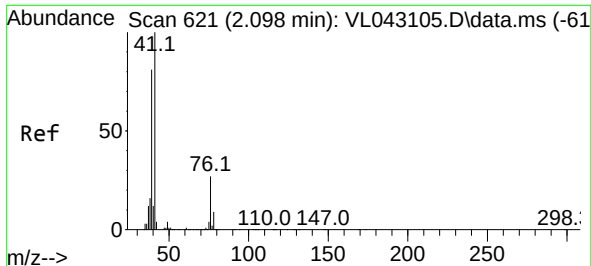
84 100

49 149.2 116.6 175.0

51 43.7 34.8 52.2

86 66.0 46.2 69.4

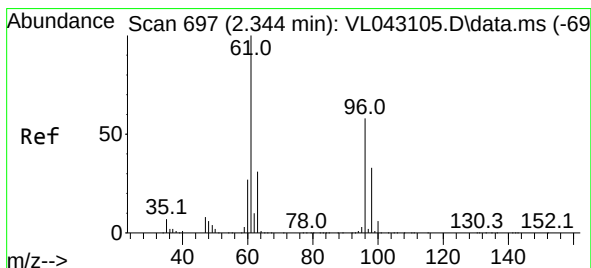
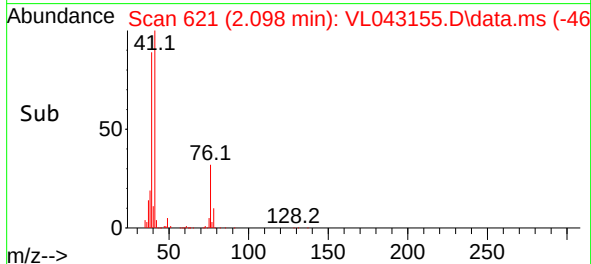
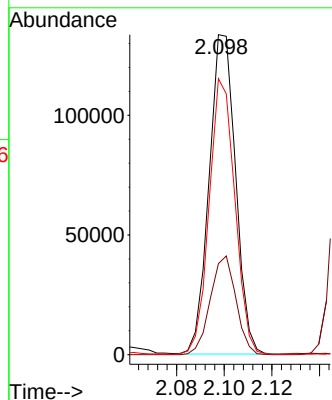
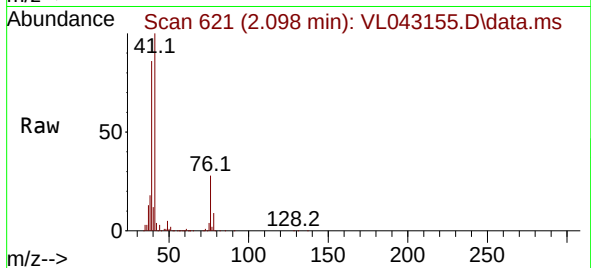




#21  
Allyl Chloride  
Concen: 9.309 ppbv  
RT: 2.098 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

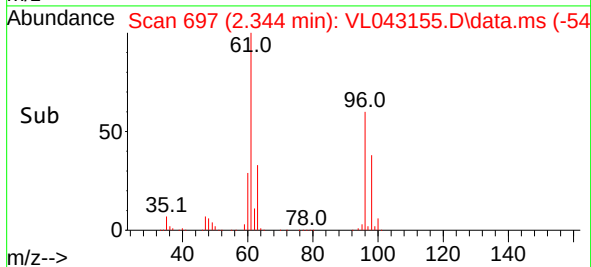
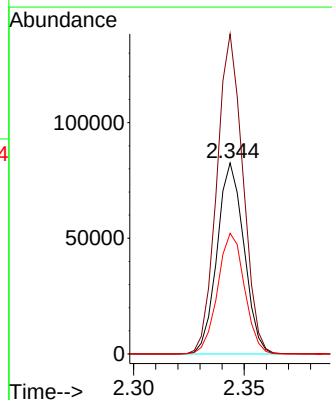
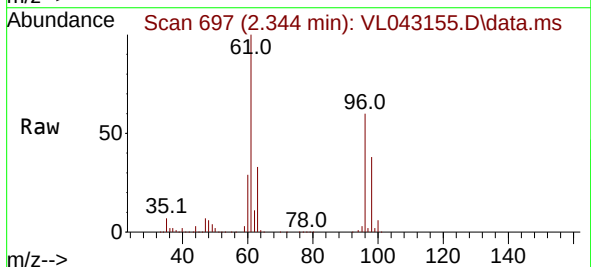
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

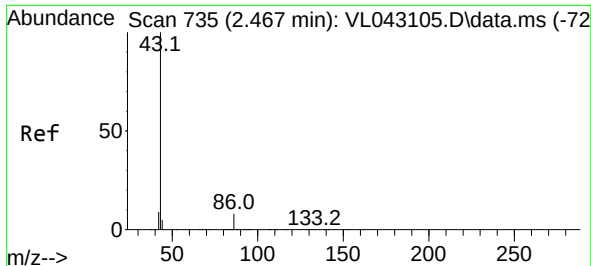
Tgt Ion: 41 Resp: 103255  
Ion Ratio Lower Upper  
41 100  
76 29.9 21.5 32.3  
39 83.3 60.8 91.2



#22  
trans-1,2-Dichloroethene  
Concen: 10.686 ppbv  
RT: 2.344 min Scan# 697  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 96 Resp: 69627  
Ion Ratio Lower Upper  
96 100  
61 167.5 137.0 205.6  
98 63.2 45.5 68.3



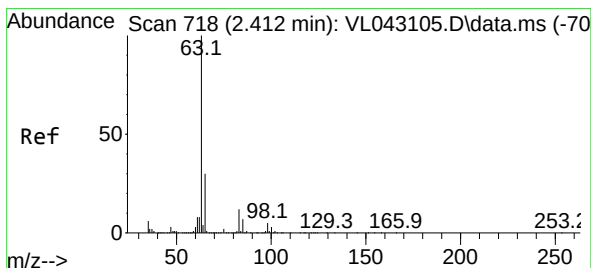
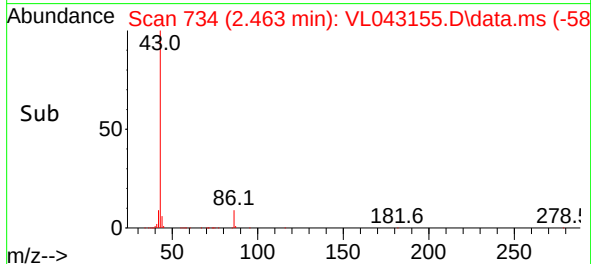
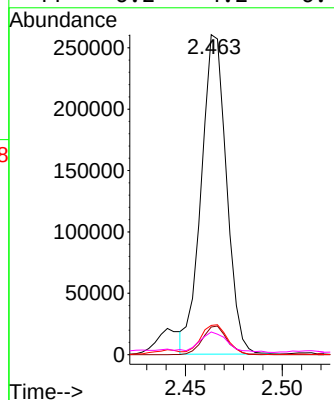
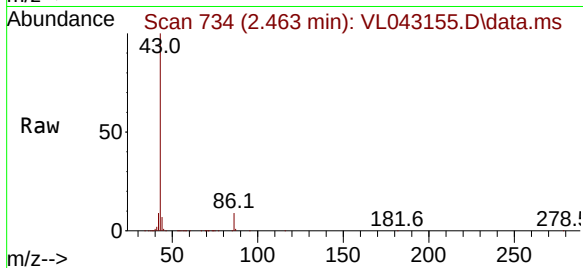


#23  
 Vinyl Acetate  
 Concen: 10.726 ppbv  
 RT: 2.463 min Scan# 718  
 Delta R.T. -0.003 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 43 Resp: 236500

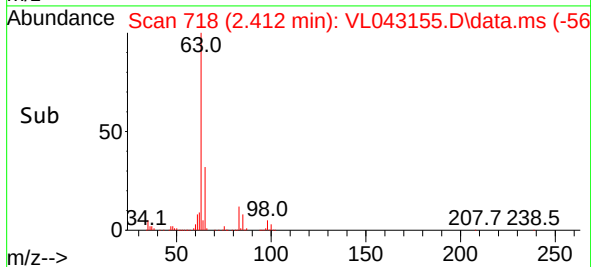
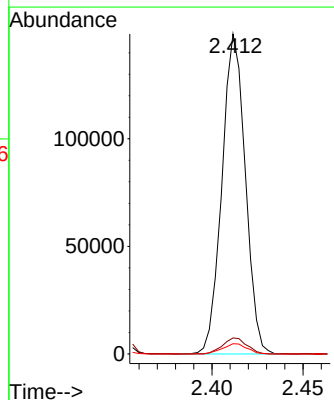
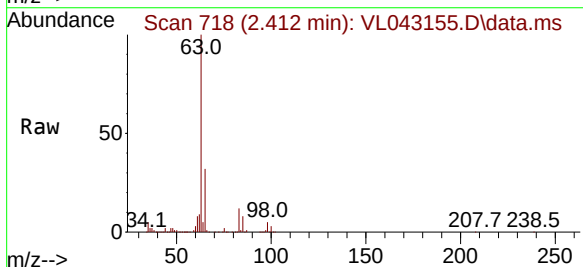
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 8.7   | 6.2   | 9.2   |
| 42  | 9.1   | 7.6   | 11.4  |
| 44  | 6.2   | 4.2   | 6.4   |

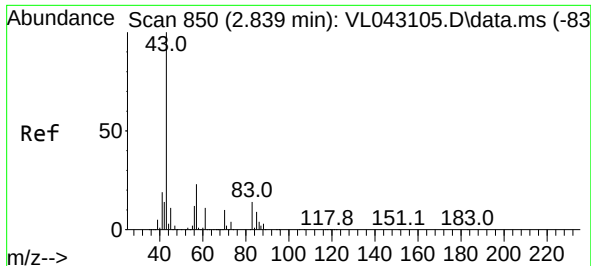


#24  
 1,1-Dichloroethane  
 Concen: 10.535 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 63 Resp: 132624

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.0   | 2.6   | 7.8   |
| 100 | 3.2   | 1.5   | 4.4   |

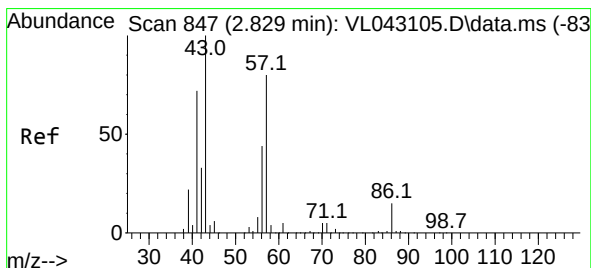
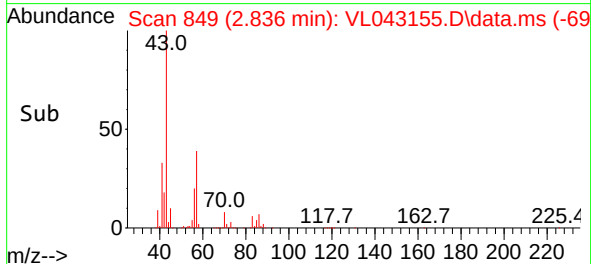
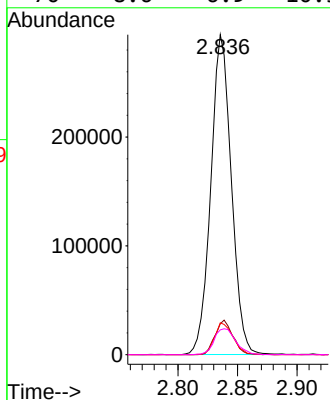
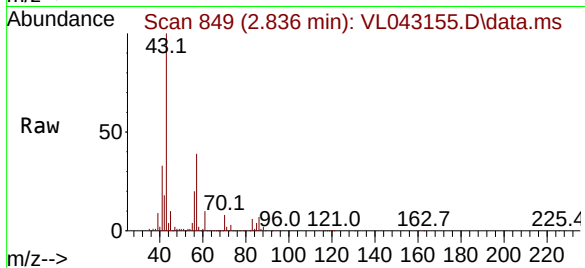




#25  
Ethyl Acetate  
Concen: 9.452 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

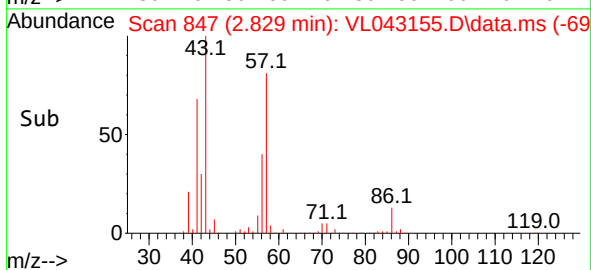
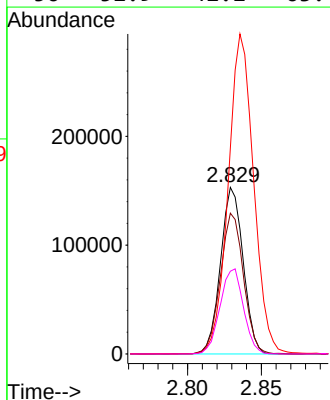
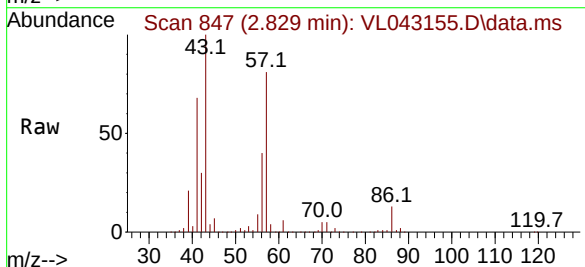
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

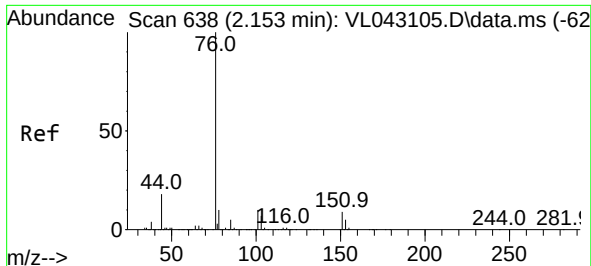
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 352821 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 9.4   | 7.8   | 11.8   |
| 61       | 9.0   | 7.0   | 10.6   |
| 70       | 8.6   | 6.9   | 10.3   |



#26  
Hexane  
Concen: 9.508 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 163545 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 87.0  | 71.4  | 107.0  |
| 43       | 216.3 | 178.5 | 267.7  |
| 56       | 52.9  | 42.2  | 63.4   |

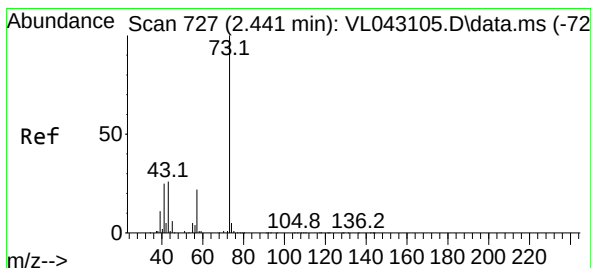
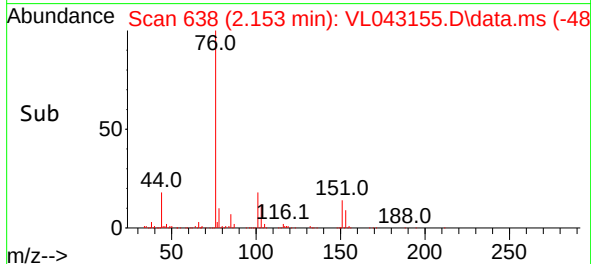
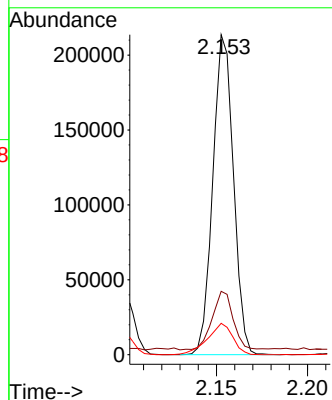
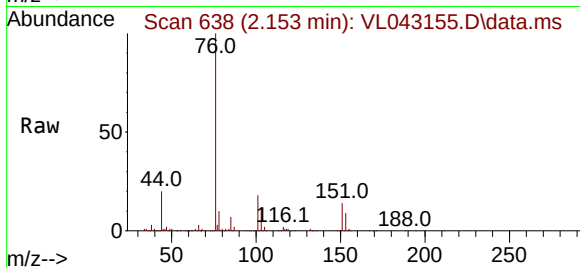




#27  
Carbon Disulfide  
Concen: 10.684 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

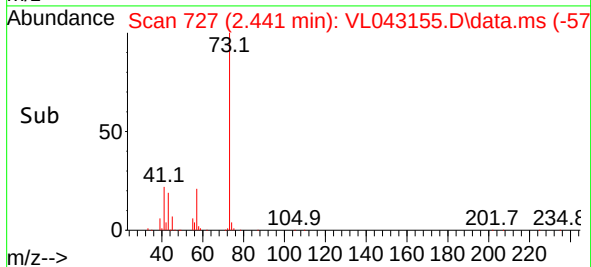
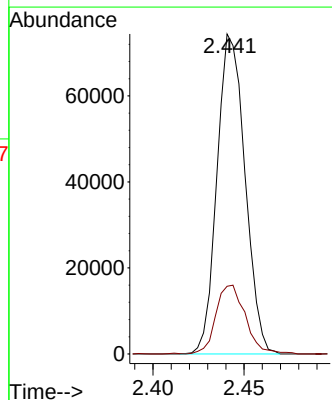
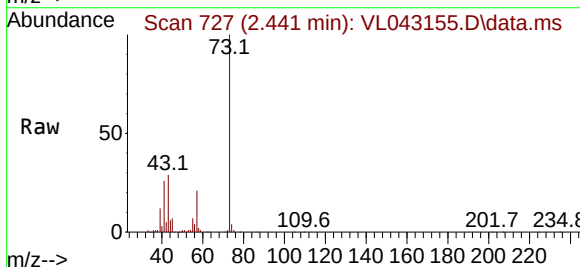
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

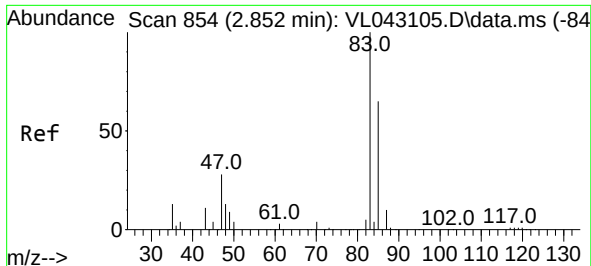
Tgt Ion: 76 Resp: 168378  
Ion Ratio Lower Upper  
76 100  
44 19.4 16.7 25.1  
78 12.0 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 10.158 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 73 Resp: 79492  
Ion Ratio Lower Upper  
73 100  
57 22.8 20.5 30.7





#29

Chloroform

Concen: 10.919 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

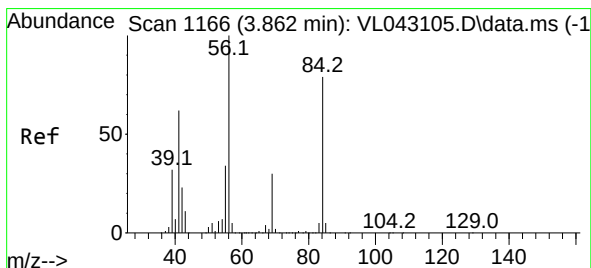
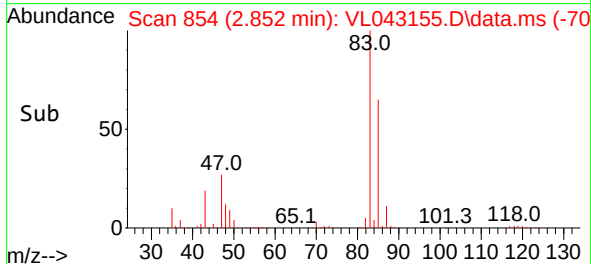
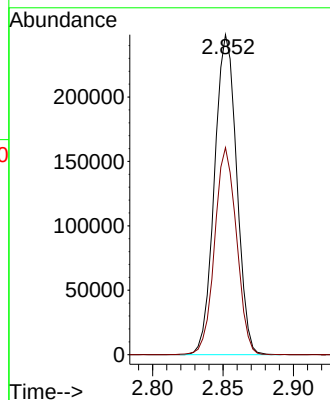
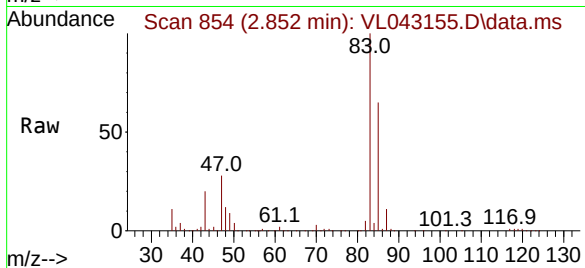
VSTDCCC010

Tgt Ion: 83 Resp: 272134

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6



#30

Cyclohexane

Concen: 9.341 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

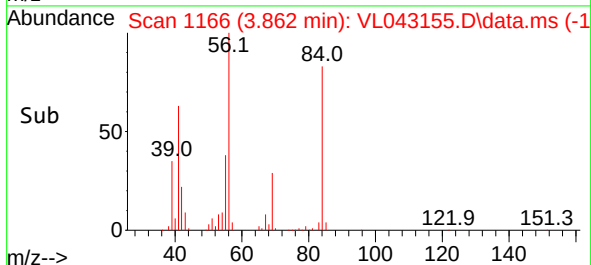
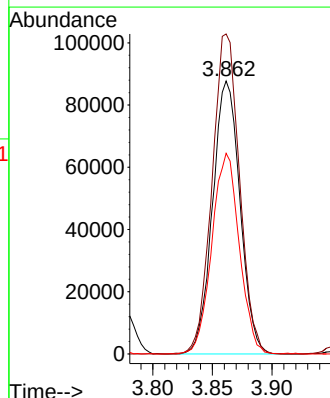
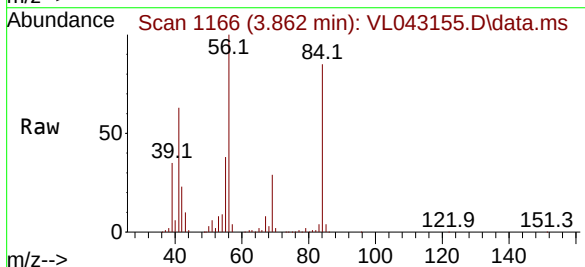
Tgt Ion: 84 Resp: 140232

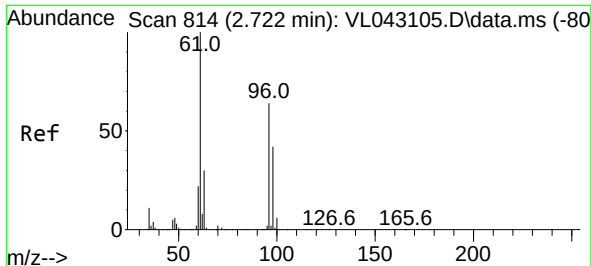
Ion Ratio Lower Upper

84 100

56 117.5 100.9 151.3

41 73.7 63.8 95.6

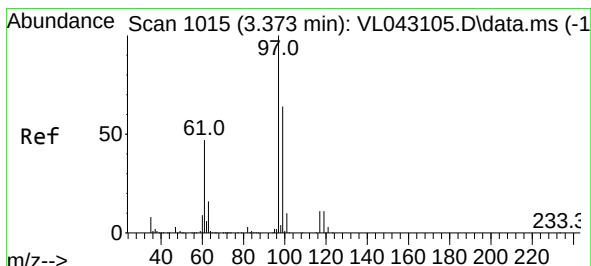
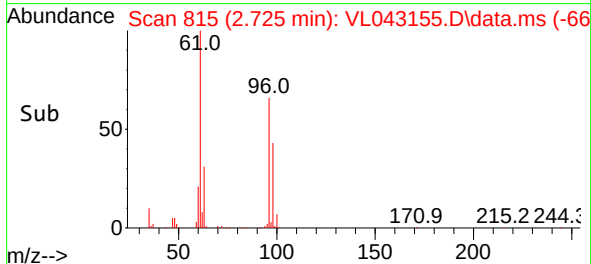
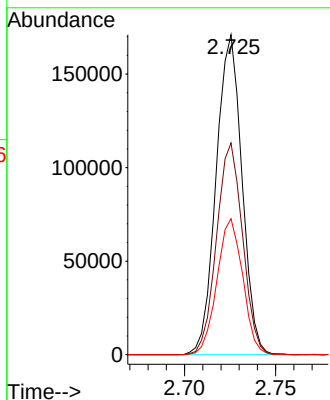
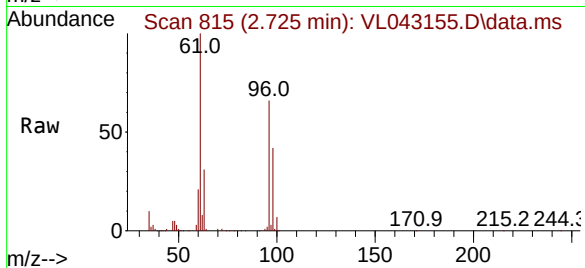




#31  
 cis-1,2-Dichloroethene  
 Concen: 10.263 ppbv  
 RT: 2.725 min Scan# 814  
 Delta R.T. 0.003 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

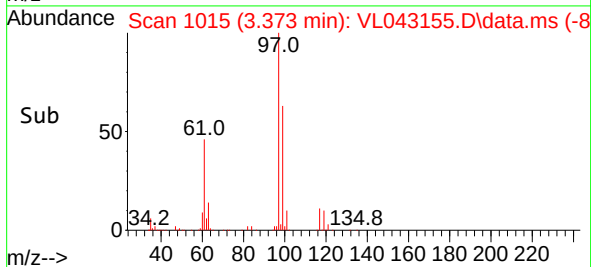
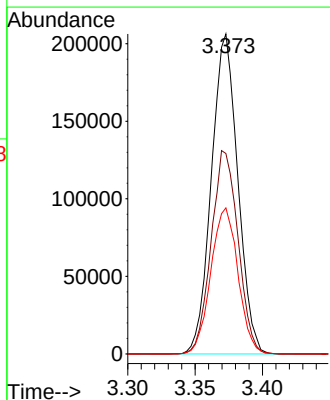
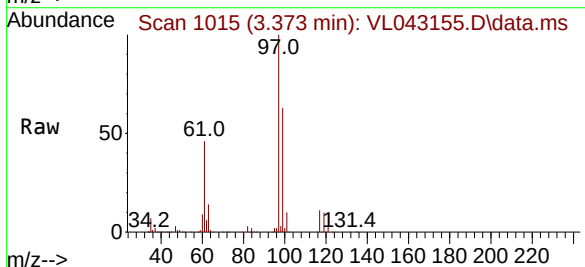
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

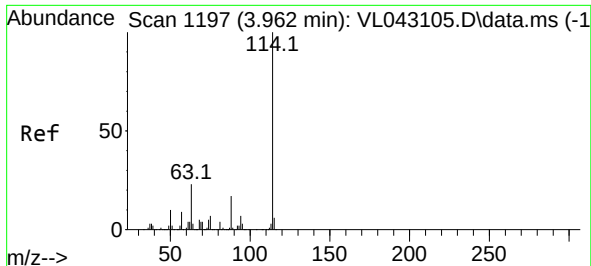
Tgt Ion: 61 Resp: 168571  
 Ion Ratio Lower Upper  
 61 100  
 96 66.1 51.0 76.6  
 98 42.5 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 10.844 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 97 Resp: 281440  
 Ion Ratio Lower Upper  
 97 100  
 99 64.5 51.3 76.9  
 61 47.1 38.4 57.6

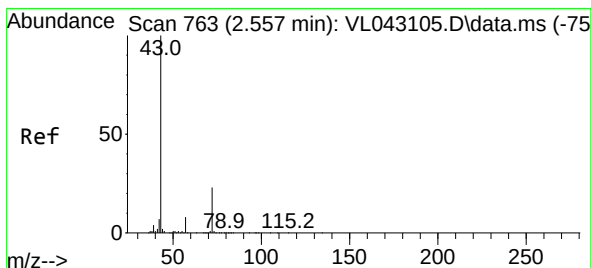
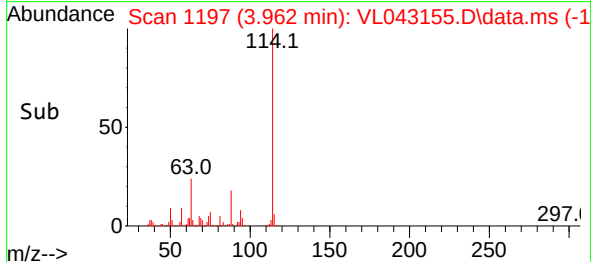
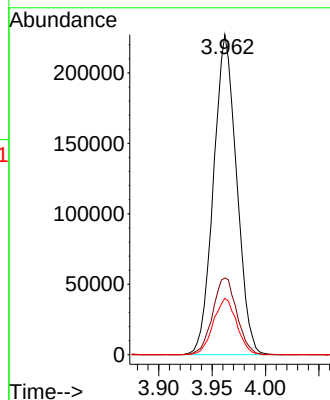
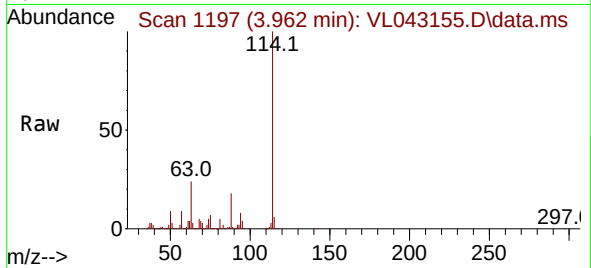




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

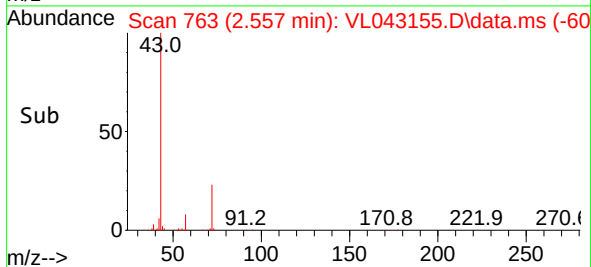
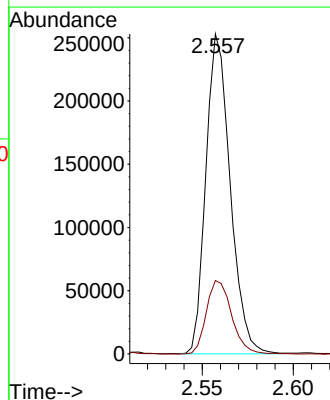
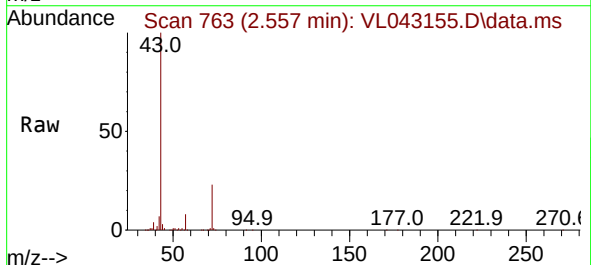
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:114 Resp: 341877  
Ion Ratio Lower Upper  
114 100  
63 25.1 19.3 28.9  
88 17.8 13.9 20.9

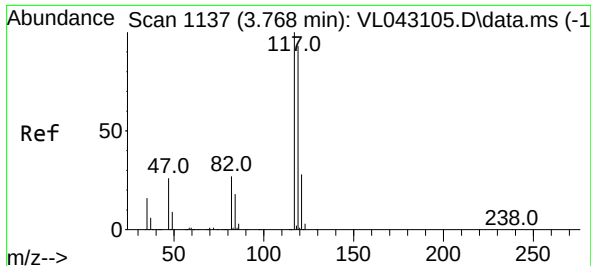


#34  
2-Butanone  
Concen: 10.242 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 43 Resp: 235359  
Ion Ratio Lower Upper  
43 100  
72 23.8 18.4 27.6



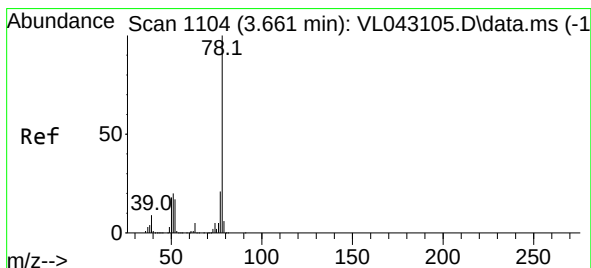
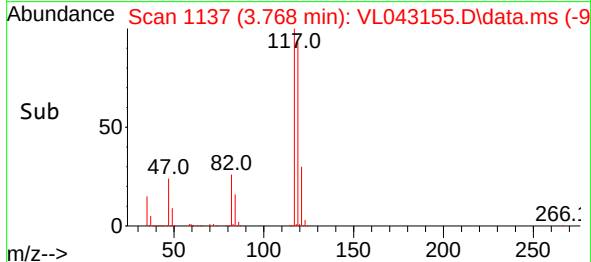
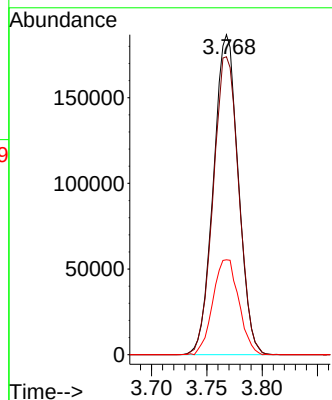
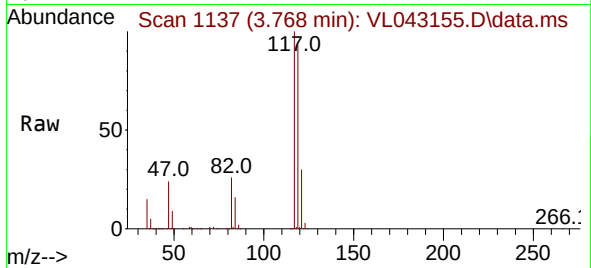




#35  
Carbon Tetrachloride  
Concen: 11.845 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

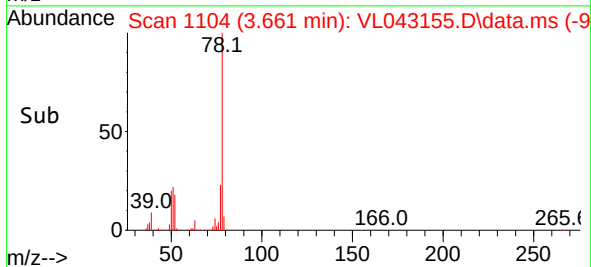
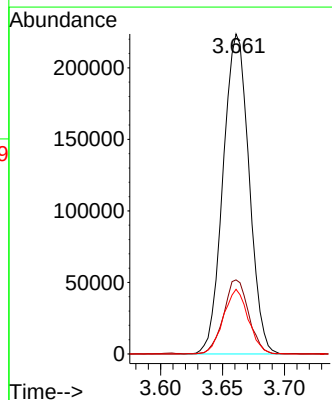
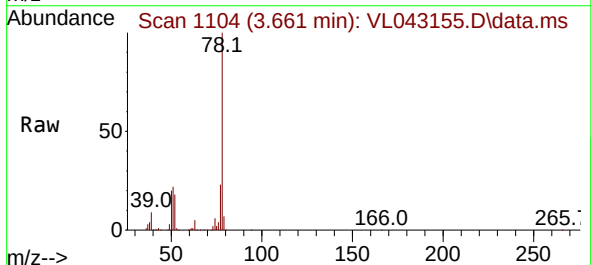
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

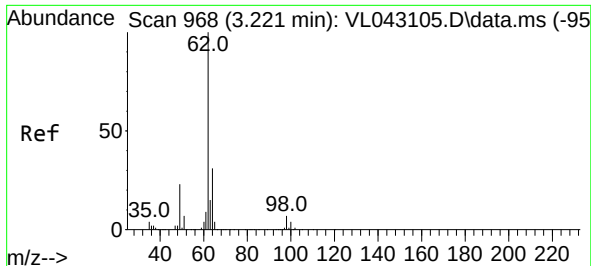
Tgt Ion:117 Resp: 291148  
Ion Ratio Lower Upper  
117 100  
119 93.1 74.1 111.1  
121 29.6 22.2 33.2



#36  
Benzene  
Concen: 10.148 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 78 Resp: 326769  
Ion Ratio Lower Upper  
78 100  
77 23.0 17.0 25.6  
50 20.2 14.6 22.0

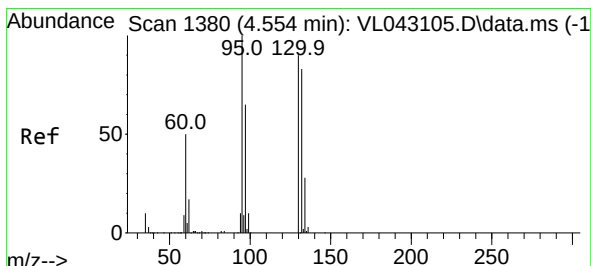
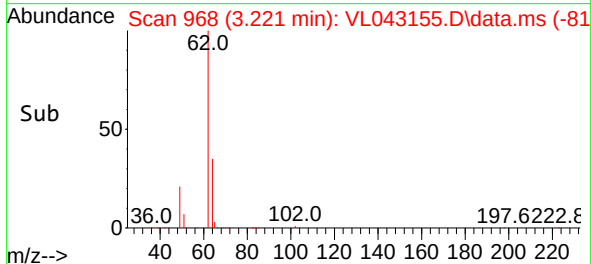
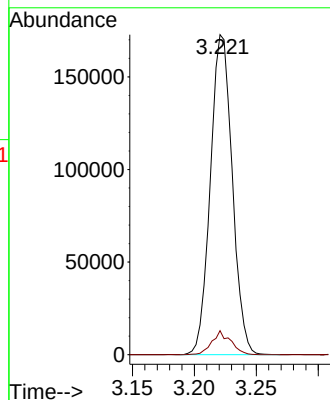
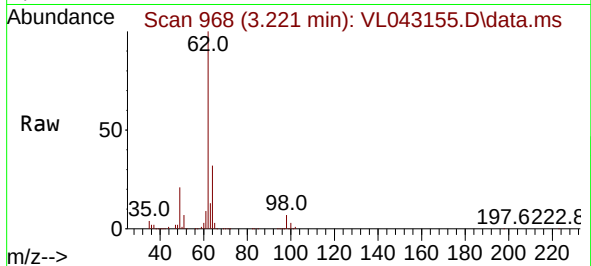




#37  
1,2-Dichloroethane  
Concen: 11.493 ppbv  
RT: 3.221 min Scan# 968  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

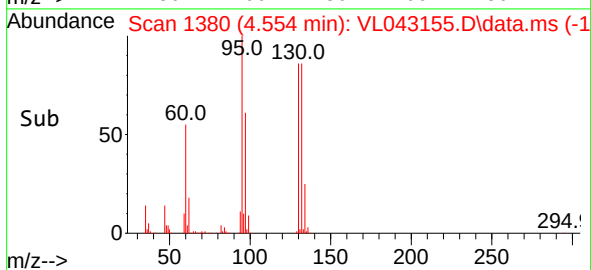
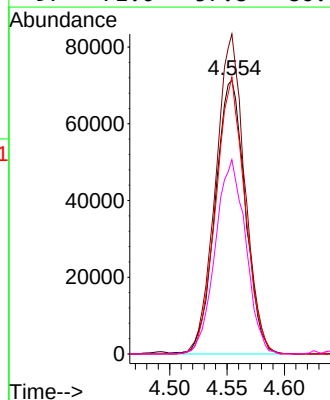
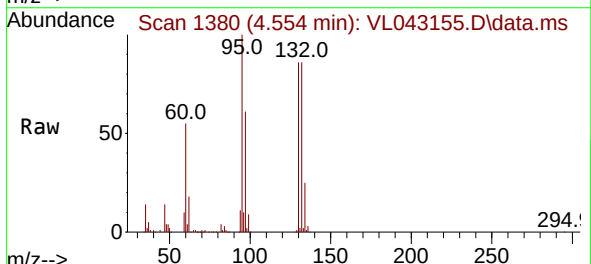
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ClientSampleId :  
VSTDCCC010

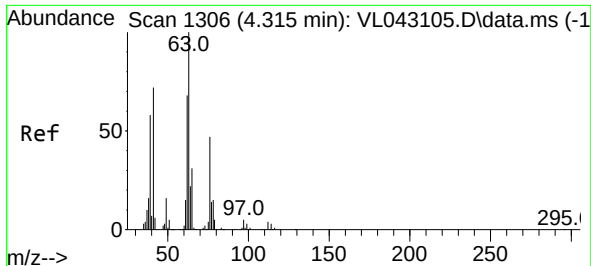
Tgt Ion: 62 Resp: 213185  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.8 8.6



#38  
Trichloroethene  
Concen: 9.635 ppbv  
RT: 4.554 min Scan# 1380  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:130 Resp: 129566  
Ion Ratio Lower Upper  
130 100  
95 116.7 88.6 133.0  
132 101.0 73.4 110.0  
97 71.0 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.950 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

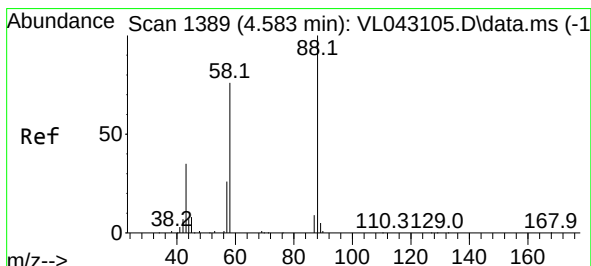
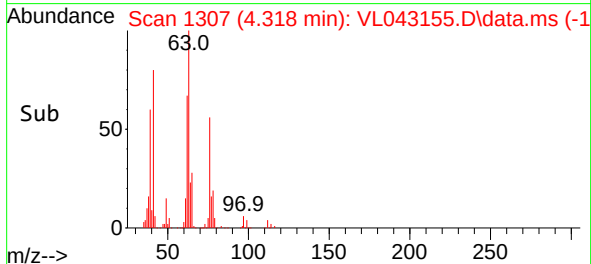
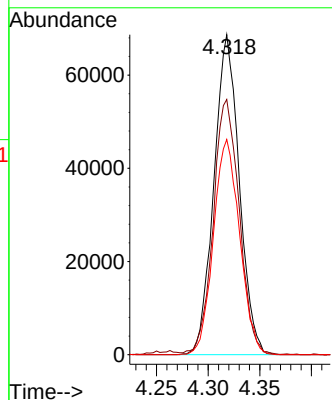
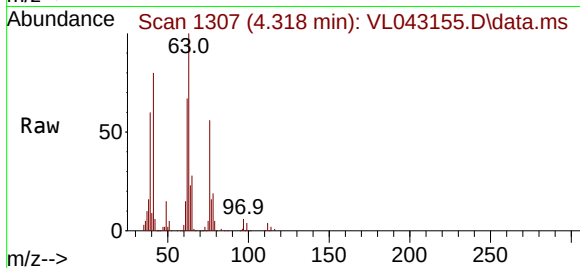
Tgt Ion: 63 Resp: 117127

Ion Ratio Lower Upper

63 100

41 79.6 58.0 87.0

62 67.3 54.7 82.1



#40

1,4-Dioxane

Concen: 9.574 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Tgt Ion: 88 Resp: 50431

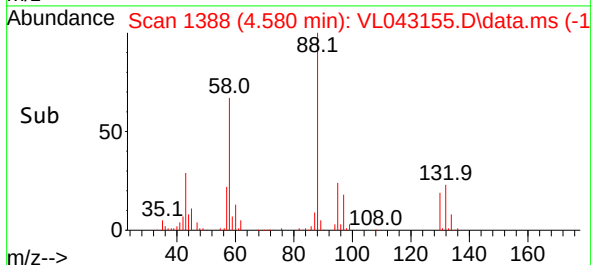
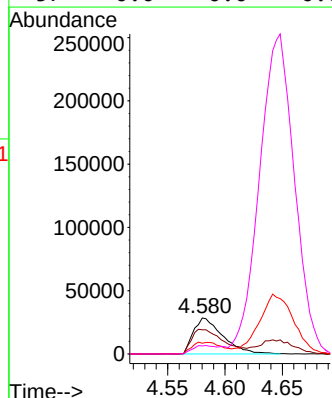
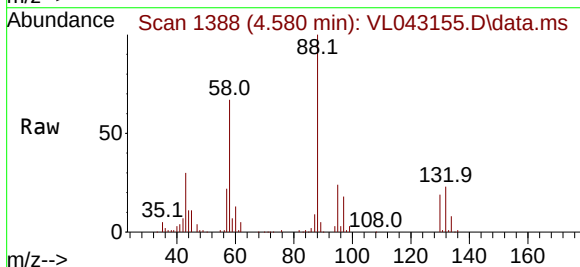
Ion Ratio Lower Upper

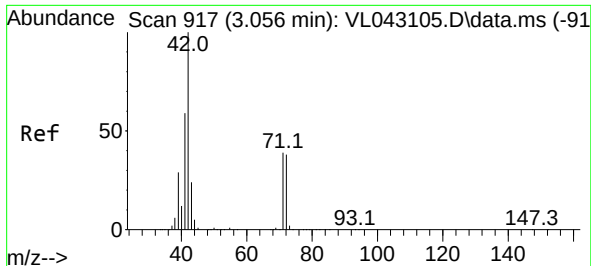
88 100

58 75.0 61.1 91.7

43 35.7 24.0 36.0

57 0.0 0.0 0.0

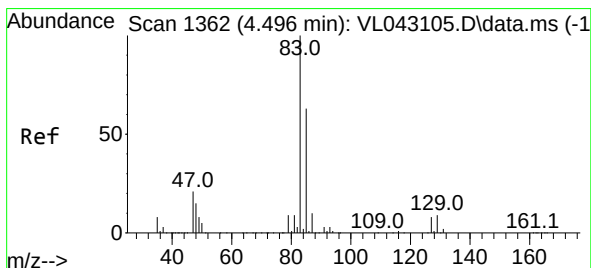
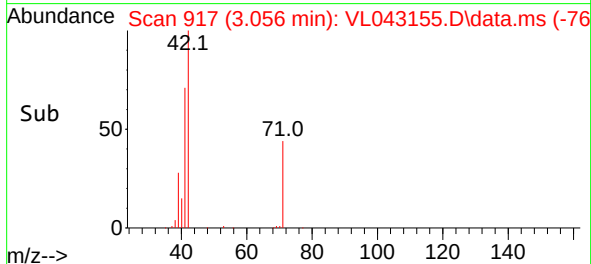
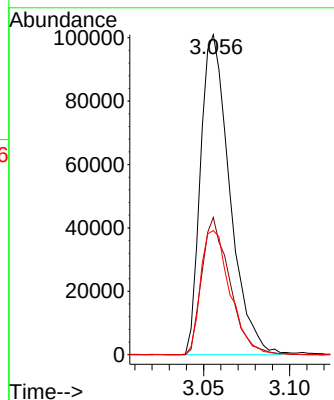
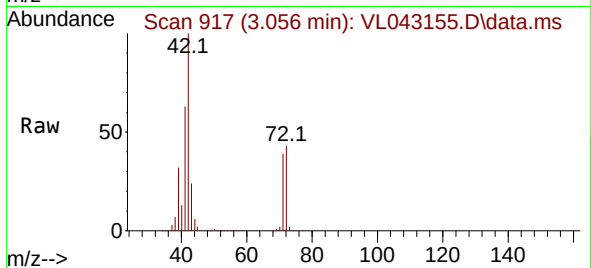




#41  
Tetrahydrofuran  
Concen: 9.267 ppbv  
RT: 3.056 min Scan# 917  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

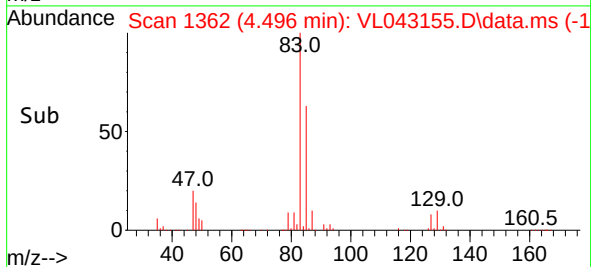
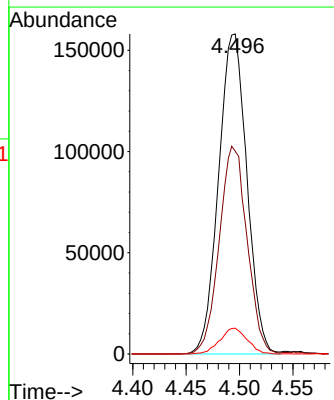
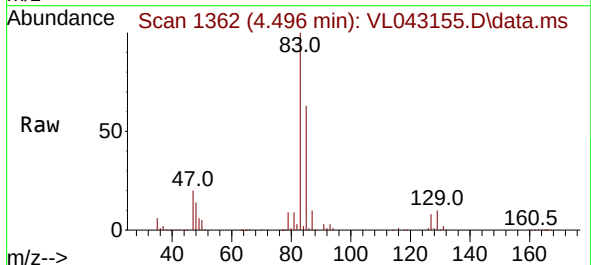
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

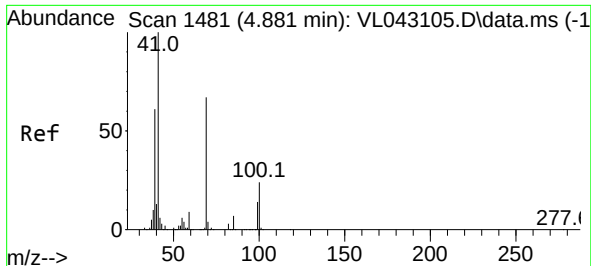
Tgt Ion: 42 Resp: 119118  
Ion Ratio Lower Upper  
42 100  
72 40.9 31.3 46.9  
71 39.4 30.4 45.6



#42  
Bromodichloromethane  
Concen: 11.359 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 83 Resp: 291618  
Ion Ratio Lower Upper  
83 100  
85 63.4 50.6 75.8  
127 8.1 6.3 9.5

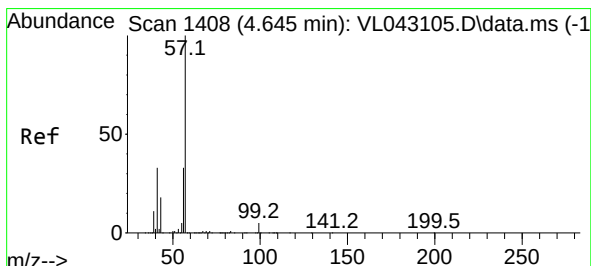
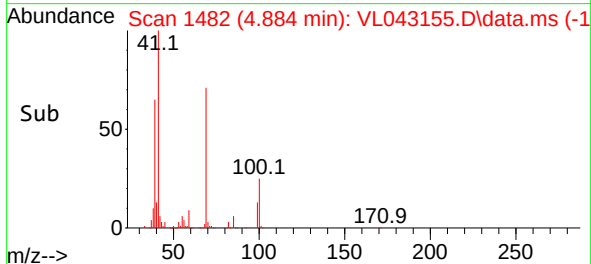
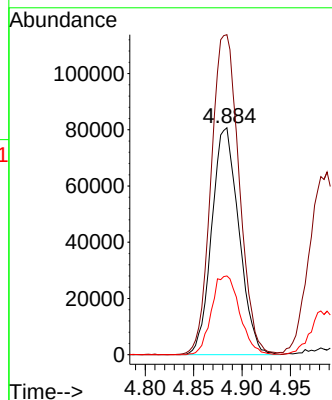
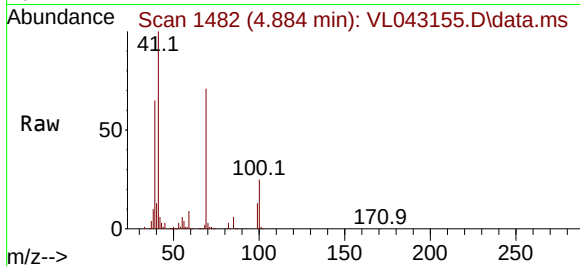




#43  
Methyl Methacrylate  
Concen: 9.624 ppbv  
RT: 4.884 min Scan# 1481  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

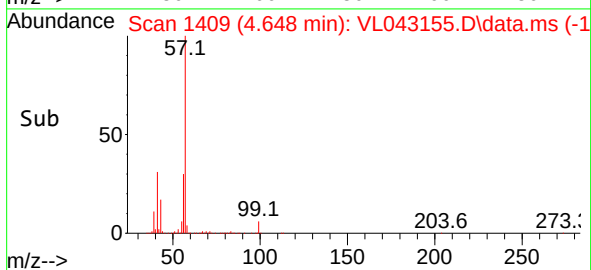
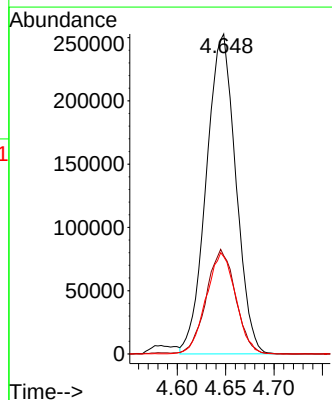
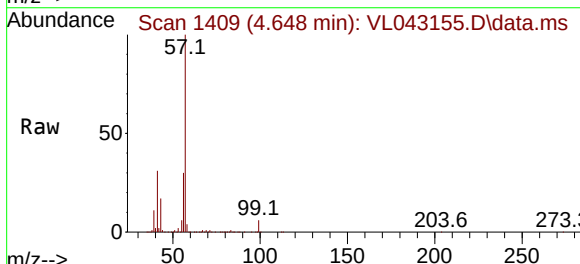
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

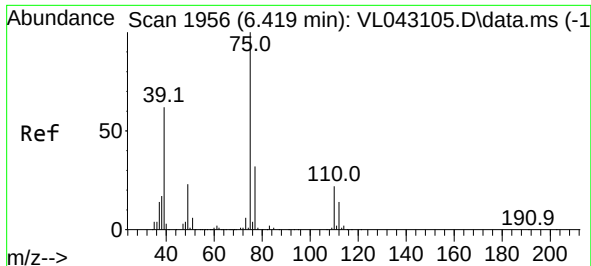
Tgt Ion: 69 Resp: 157399  
Ion Ratio Lower Upper  
69 100  
41 145.6 120.5 180.7  
100 36.0 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.853 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 57 Resp: 535251  
Ion Ratio Lower Upper  
57 100  
41 32.9 26.3 39.5  
56 31.7 25.9 38.9

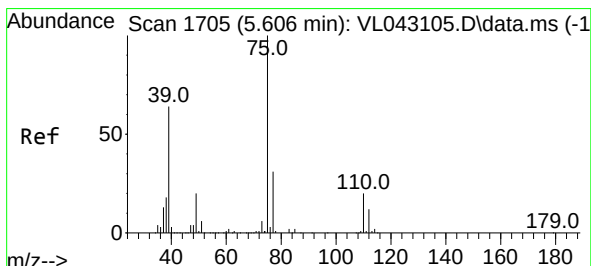
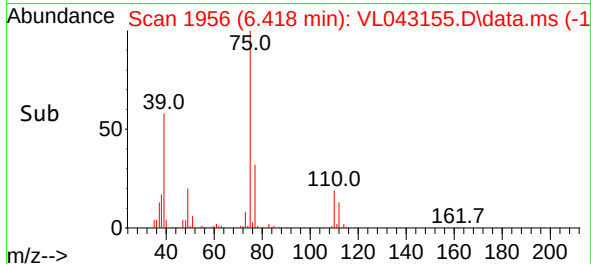
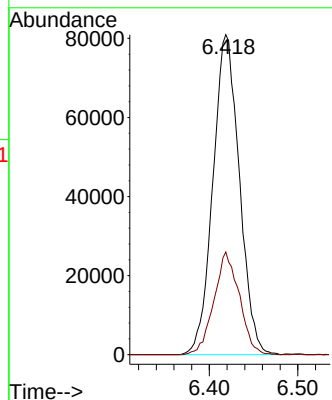
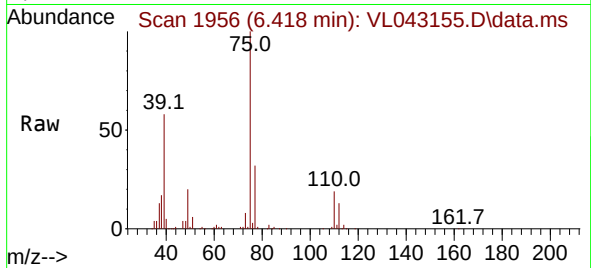




#45  
 t-1,3-Dichloropropene  
 Concen: 10.243 ppbv  
 RT: 6.418 min Scan# 1956  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

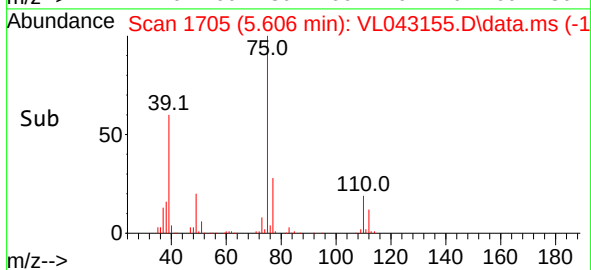
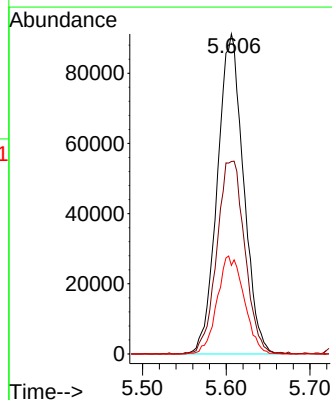
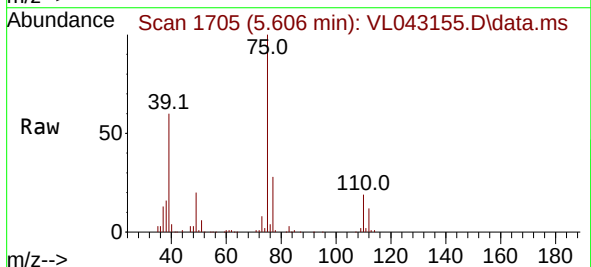
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

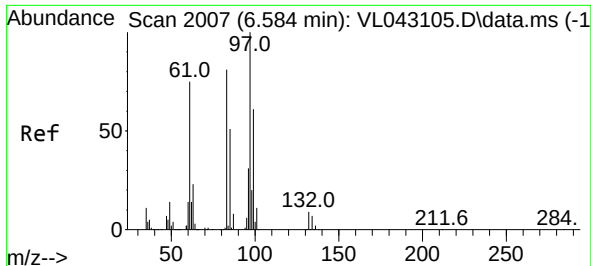
Tgt Ion: 75 Resp: 168113  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.4 38.2



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.086 ppbv  
 RT: 5.606 min Scan# 1705  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 75 Resp: 197738  
 Ion Ratio Lower Upper  
 75 100  
 39 60.1 51.0 76.6  
 77 27.7 25.0 37.4

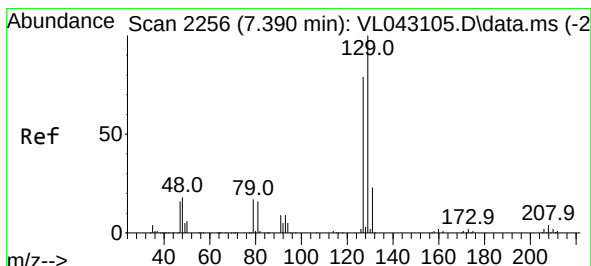
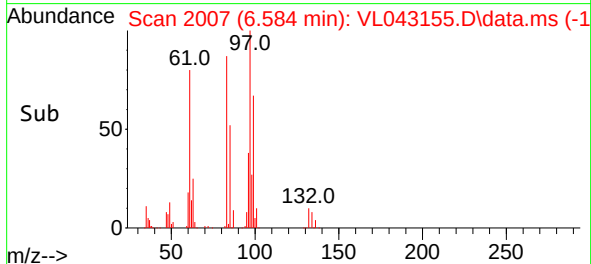
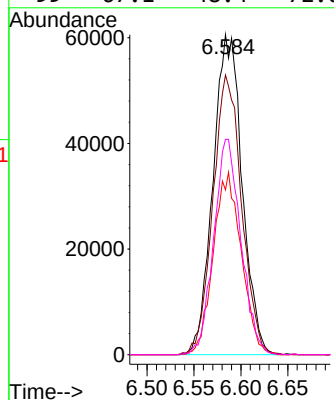
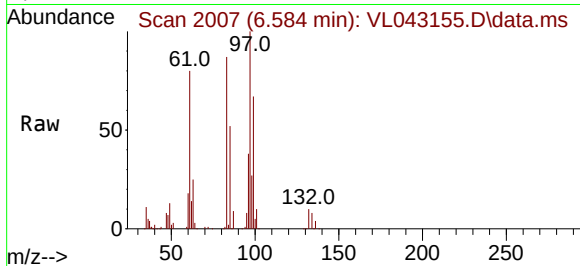




#47  
1,1,2-Trichloroethane  
Concen: 10.274 ppbv  
RT: 6.584 min Scan# 2007  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

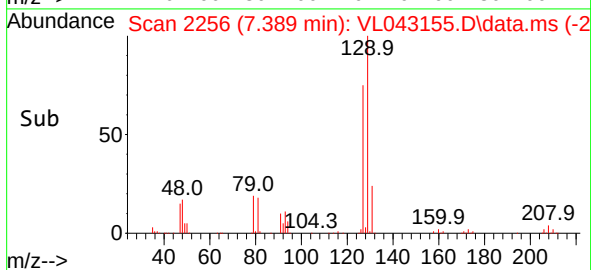
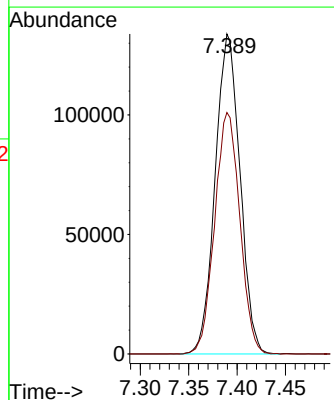
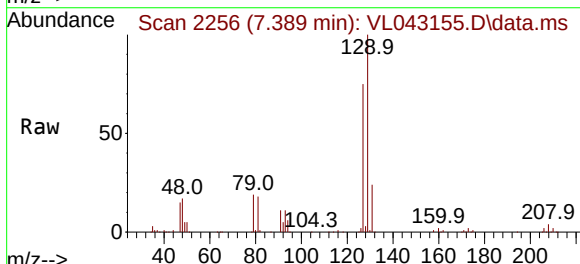
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

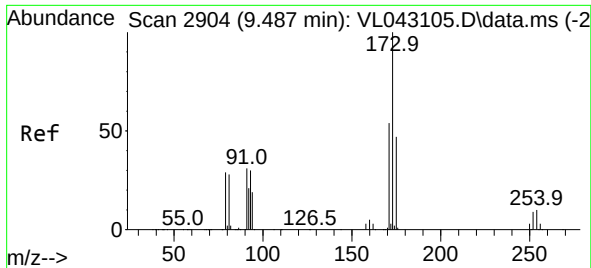
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 130602 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 87.2     | 64.6 96.8    |
| 85 51.5     | 40.6 60.8    |
| 99 67.1     | 48.4 72.6    |



#48  
Dibromochloromethane  
Concen: 11.241 ppbv  
RT: 7.389 min Scan# 2256  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

|             |              |
|-------------|--------------|
| Tgt Ion:129 | Resp: 238917 |
| Ion Ratio   | Lower Upper  |
| 129 100     |              |
| 127 76.6    | 39.3 117.9   |

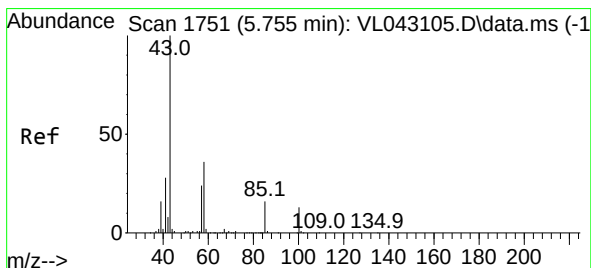
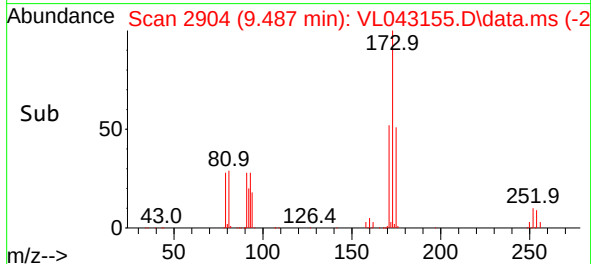
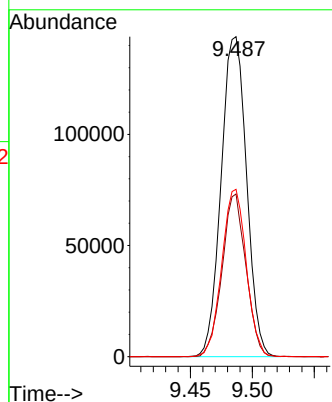
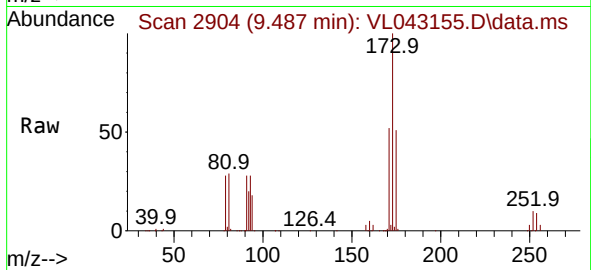




#49  
Bromoform  
Concen: 11.933 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

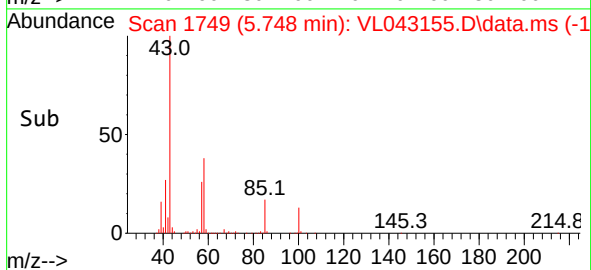
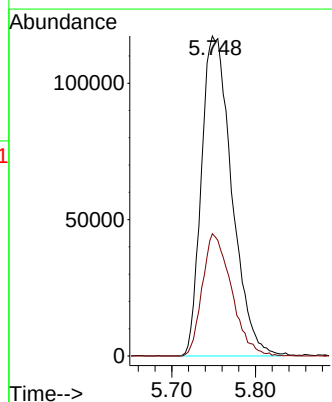
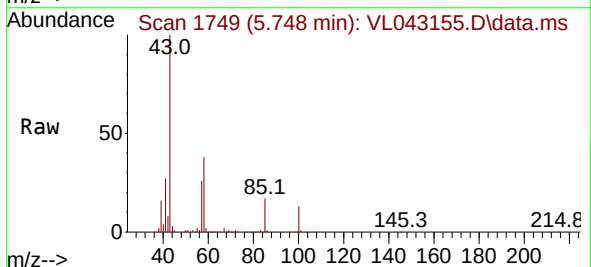
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:173 Resp: 206162  
Ion Ratio Lower Upper  
173 100  
175 47.7 38.8 58.2  
171 50.3 41.7 62.5

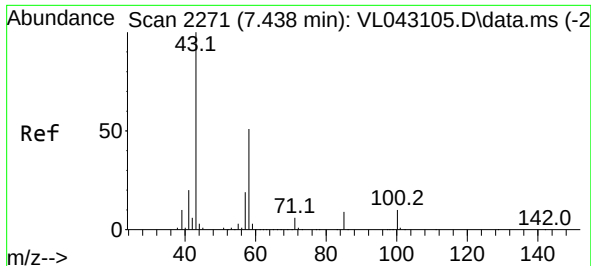


#50  
4-Methyl-2-Pentanone  
Concen: 9.331 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. -0.007 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 43 Resp: 295948  
Ion Ratio Lower Upper  
43 100  
58 36.7 29.1 43.7



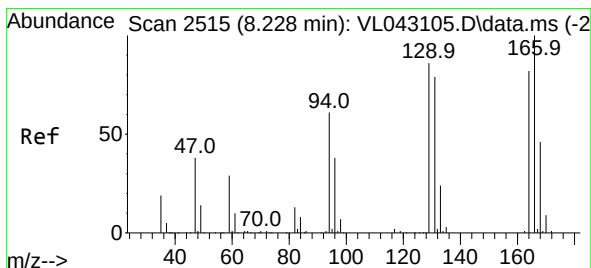
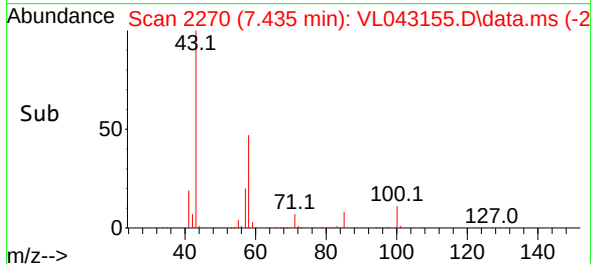
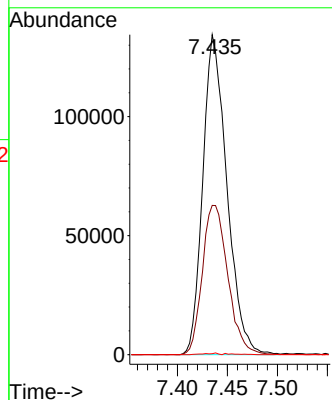
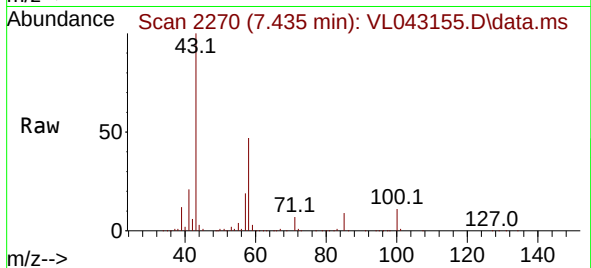




#51  
2-Hexanone  
Concen: 9.485 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

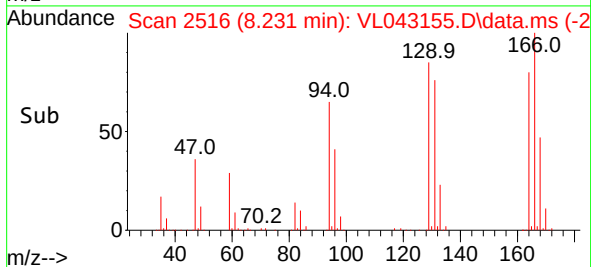
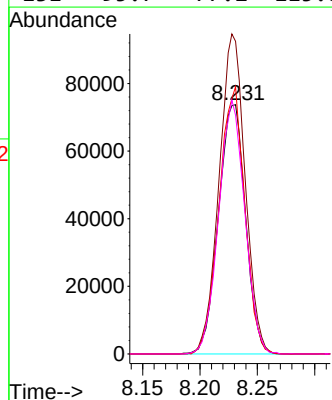
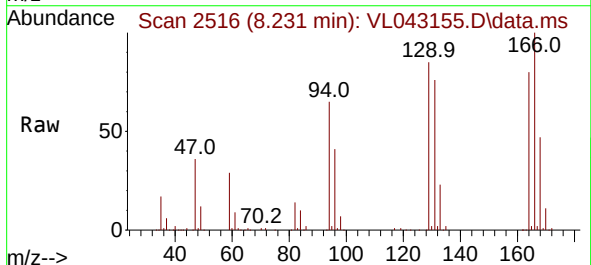
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MSVOA\_L  
ClientSampleId :  
VSTDCCC010

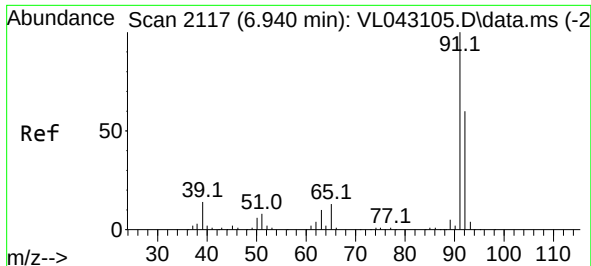
Tgt Ion: 43 Resp: 225625  
Ion Ratio Lower Upper  
43 100  
58 49.4 40.4 60.6  
98 0.5 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 10.396 ppbv  
RT: 8.231 min Scan# 2516  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:164 Resp: 120713  
Ion Ratio Lower Upper  
164 100  
166 125.4 97.6 146.4  
129 107.1 84.5 126.7  
131 95.7 77.2 115.8

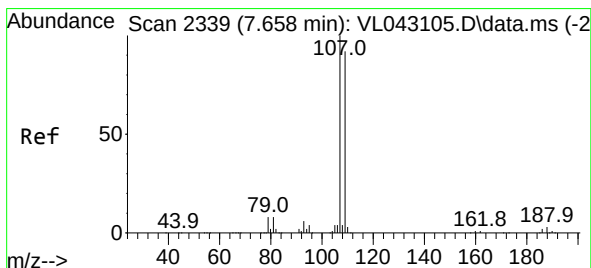
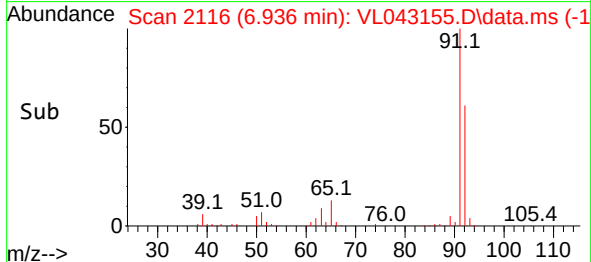
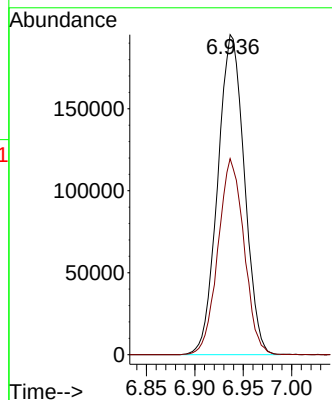
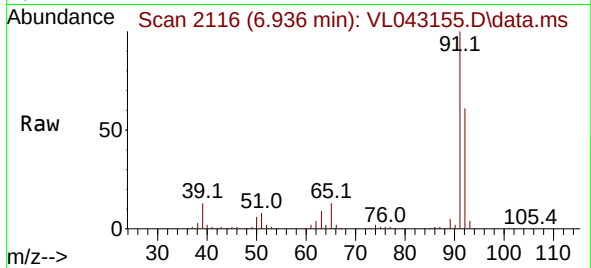




#53  
Toluene  
Concen: 9.805 ppbv  
RT: 6.936 min Scan# 2116  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

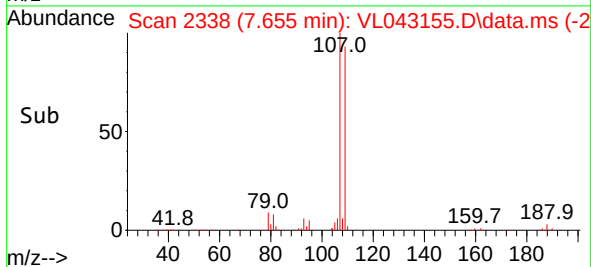
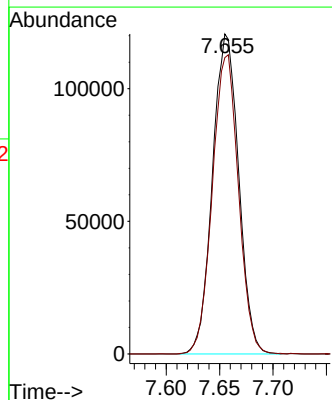
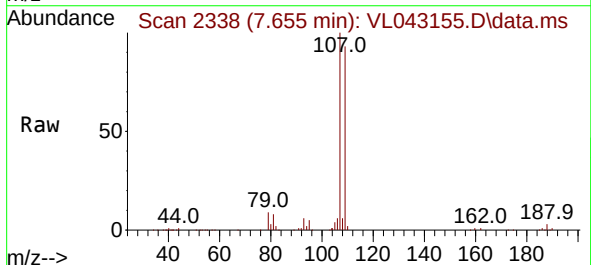
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

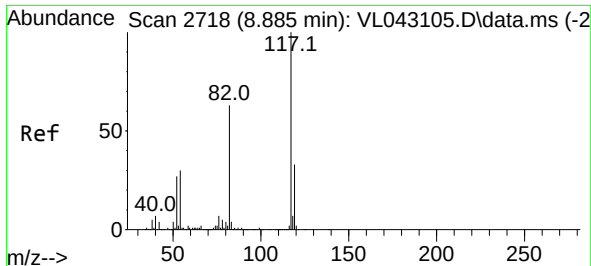
Tgt Ion: 91 Resp: 374714  
Ion Ratio Lower Upper  
91 100  
92 59.7 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 10.330 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 107 Resp: 205679  
Ion Ratio Lower Upper  
107 100  
109 92.4 73.4 110.2

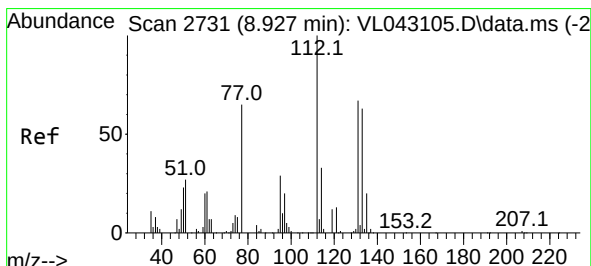
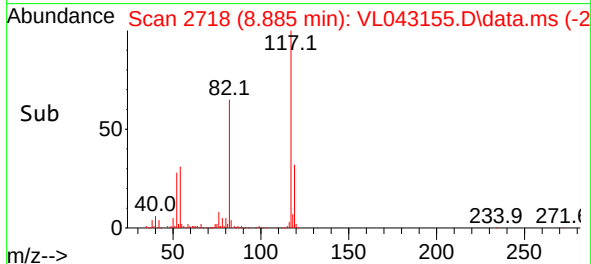
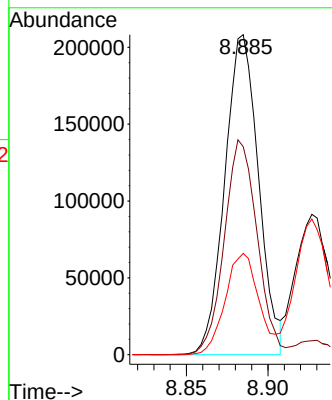
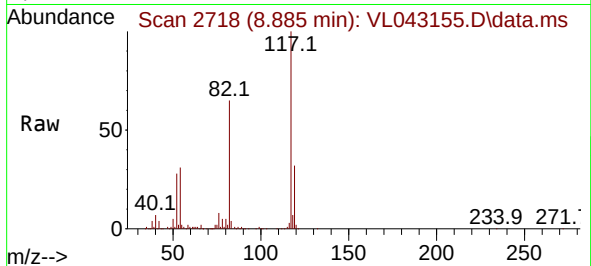




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

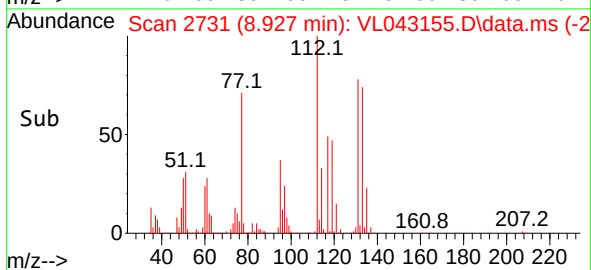
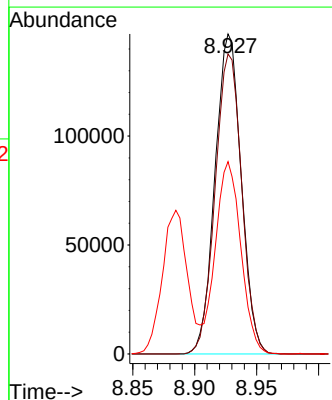
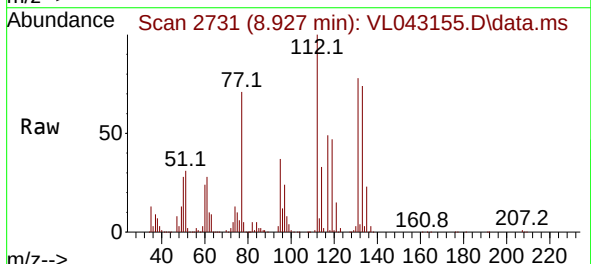
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

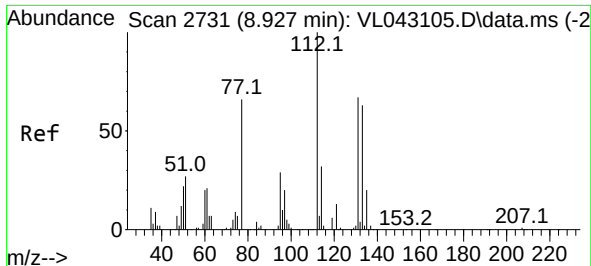
Tgt Ion:117 Resp: 299829  
Ion Ratio Lower Upper  
117 100  
82 66.1 53.8 80.8  
119 32.3 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.429 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:131 Resp: 216010  
Ion Ratio Lower Upper  
131 100  
133 95.1 75.7 113.5  
119 58.8 50.6 76.0

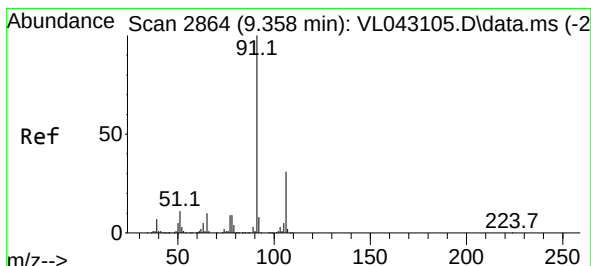
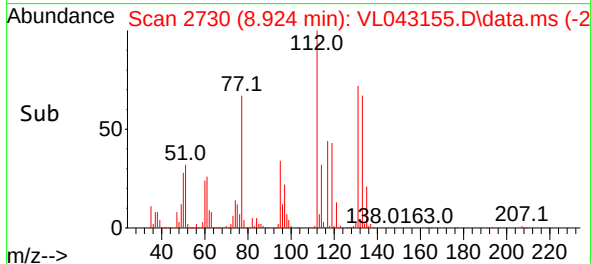
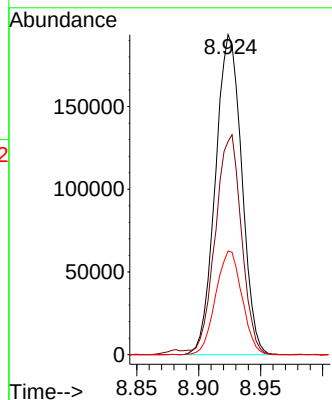
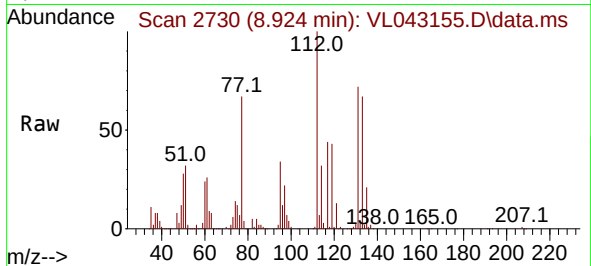




#57  
Chlorobenzene  
Concen: 10.228 ppbv  
RT: 8.924 min Scan# 211  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

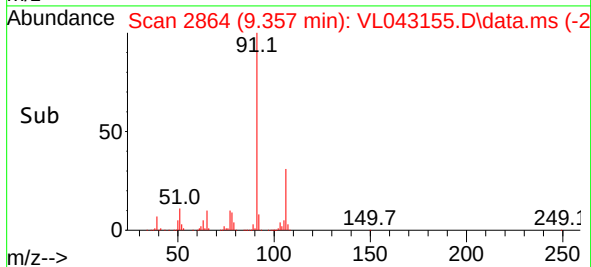
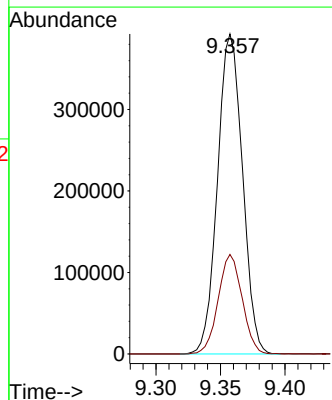
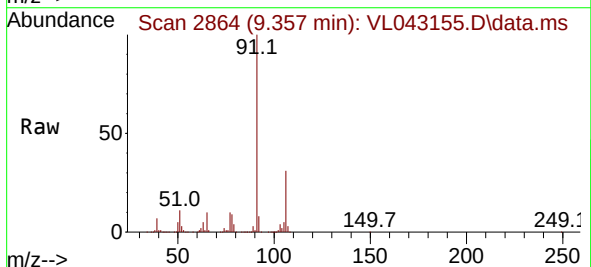
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

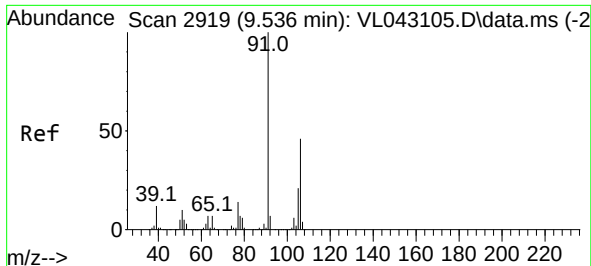
Tgt Ion:112 Resp: 286894  
Ion Ratio Lower Upper  
112 100  
77 66.6 53.3 79.9  
114 32.4 29.3 35.8



#58  
Ethyl Benzene  
Concen: 10.261 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 527991  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.8 37.2

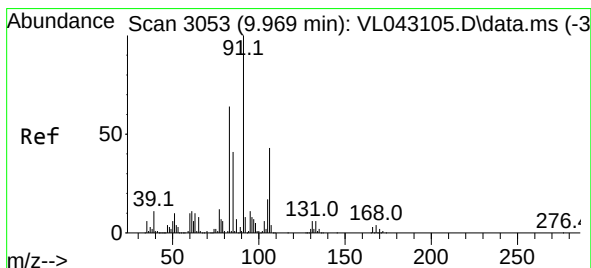
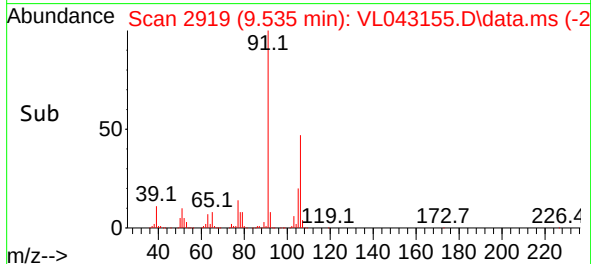
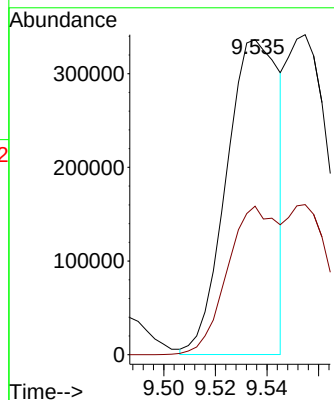
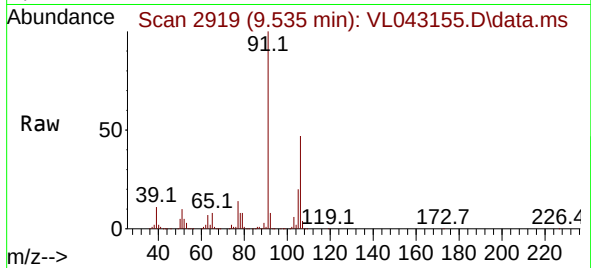




#59  
m/p-Xylene  
Concen: 11.549 ppbv  
RT: 9.535 min Scan# 2919  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

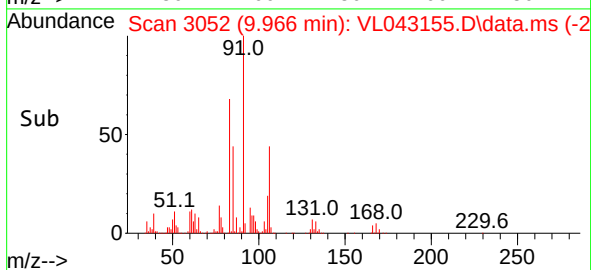
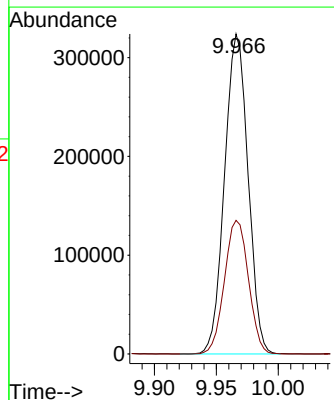
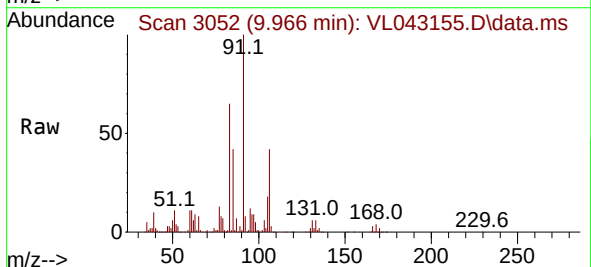
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

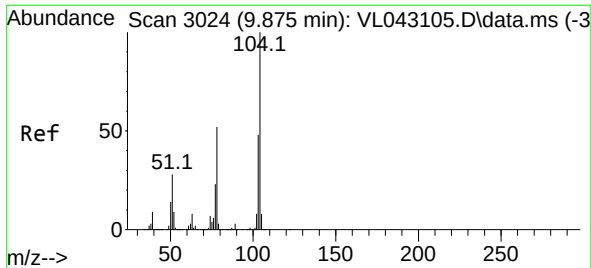
Tgt Ion: 91 Resp: 474002  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0#



#60  
o-Xylene  
Concen: 10.565 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 428248  
Ion Ratio Lower Upper  
91 100  
106 42.7 21.9 65.8





#61

Styrene

Concen: 9.839 ppbv

RT: 9.872 min Scan# 3024

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

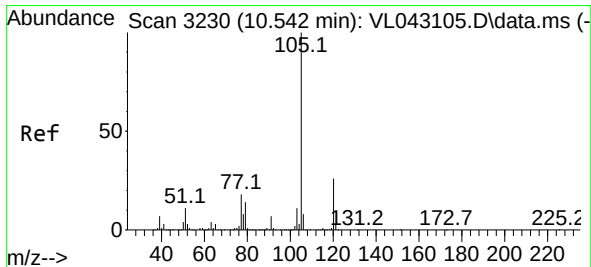
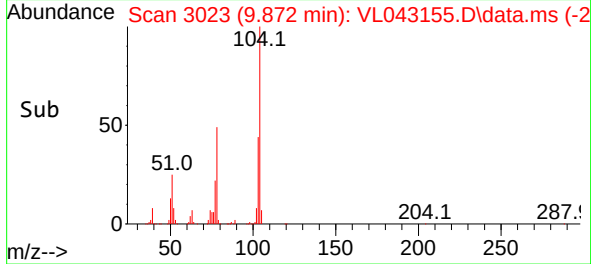
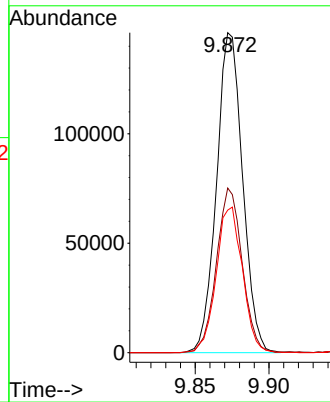
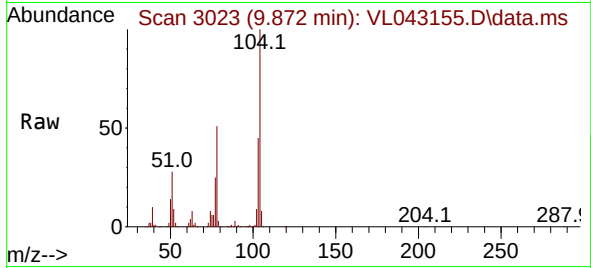
Tgt Ion:104 Resp: 180052

Ion Ratio Lower Upper

104 100

78 50.9 40.2 60.2

103 45.9 36.9 55.3



#62

Isopropylbenzene

Concen: 10.564 ppbv

RT: 10.542 min Scan# 3230

Delta R.T. -0.000 min

Lab File: VL043155.D

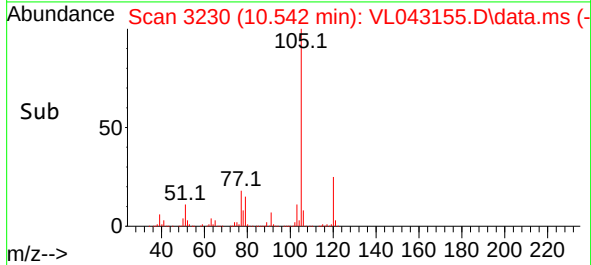
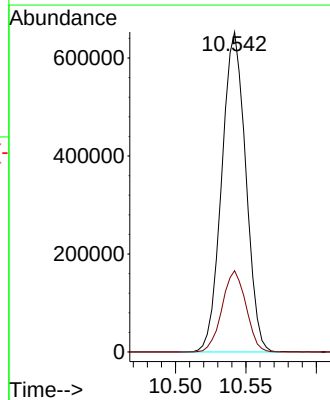
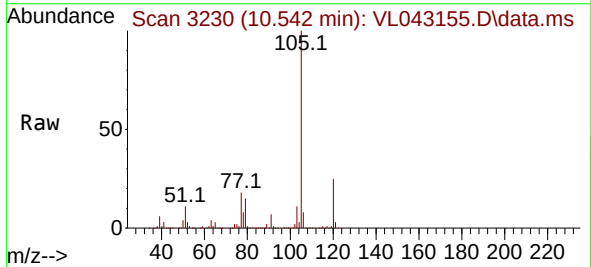
Acq: 06 Nov 2025 07:19

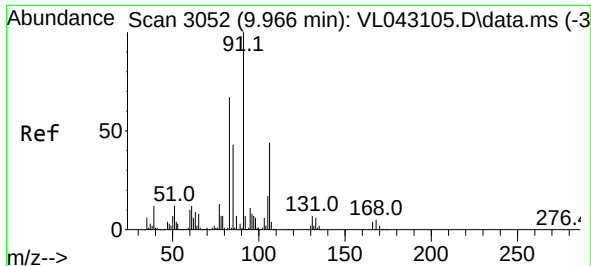
Tgt Ion:105 Resp: 773742

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.4

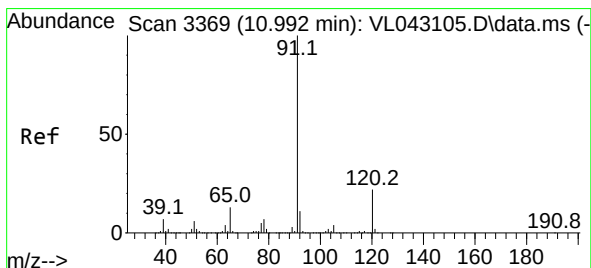
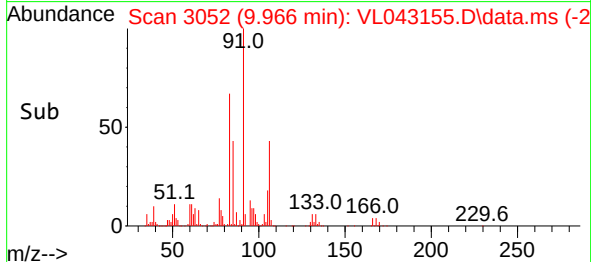
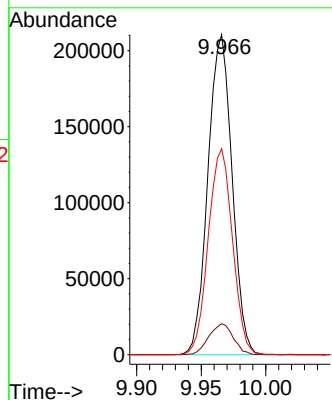
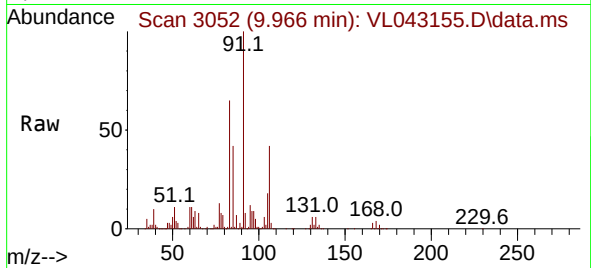




#63  
1,1,2,2-Tetrachloroethane  
Concen: 10.089 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

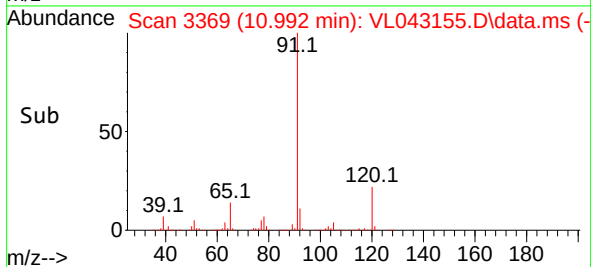
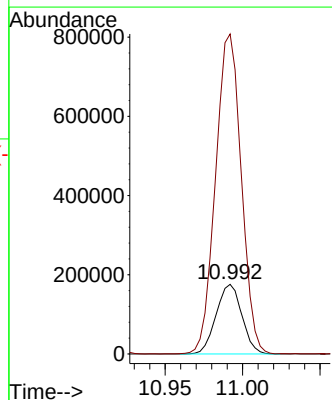
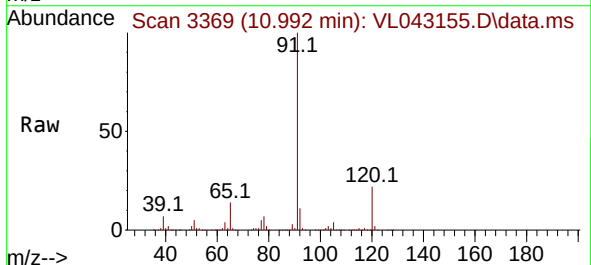
Instrument : MSVOA\_1  
ClientSampleId : VSTDCCC010

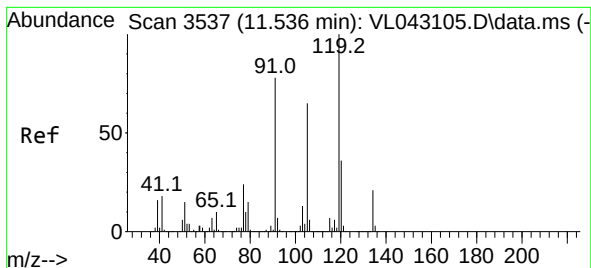
Tgt Ion: 83 Resp: 273835  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.3  
85 64.6 32.0 96.0



#64  
n-propylbenzene  
Concen: 10.438 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 120 Resp: 202414  
Ion Ratio Lower Upper  
120 100  
91 462.2 361.6 542.4





#65

tert-Butylbenzene

Concen: 10.266 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

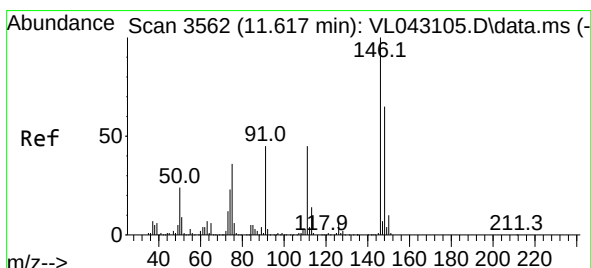
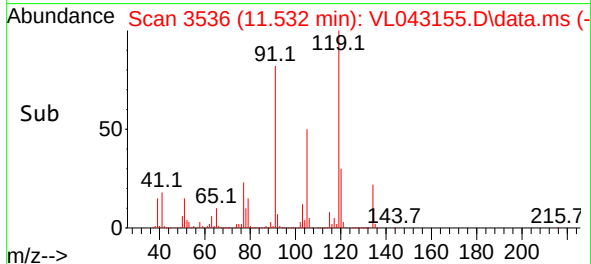
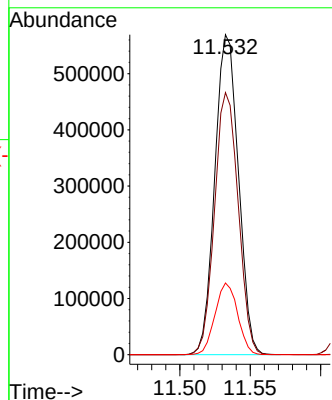
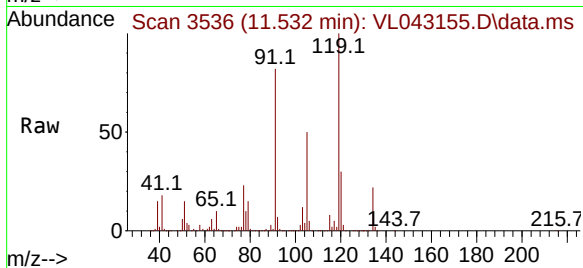
Tgt Ion:119 Resp: 664024

Ion Ratio Lower Upper

119 100

91 82.1 63.4 95.0

134 21.5 17.3 25.9



#66

Benzyl Chloride

Concen: 9.258 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

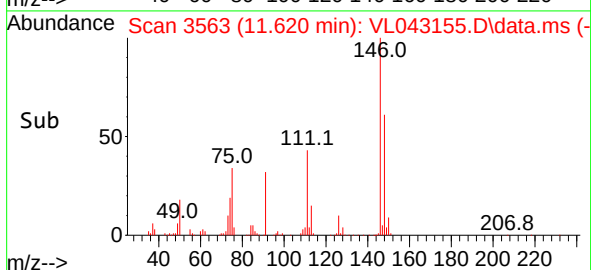
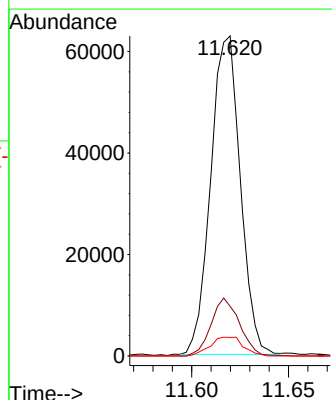
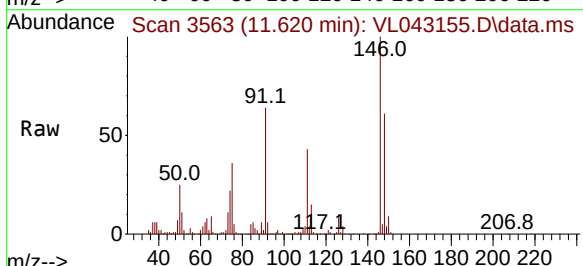
Tgt Ion: 91 Resp: 66651

Ion Ratio Lower Upper

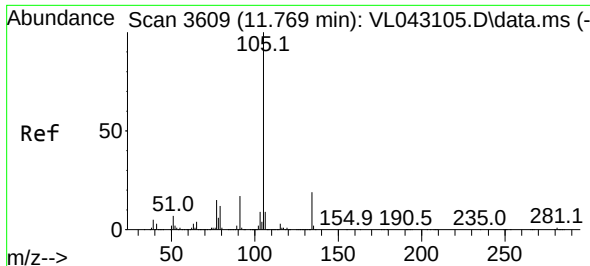
91 100

126 17.5 14.6 22.0

128 6.6 4.6 6.8



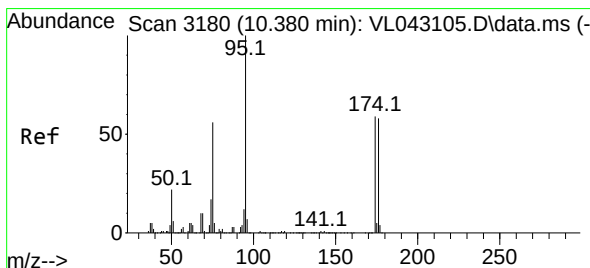
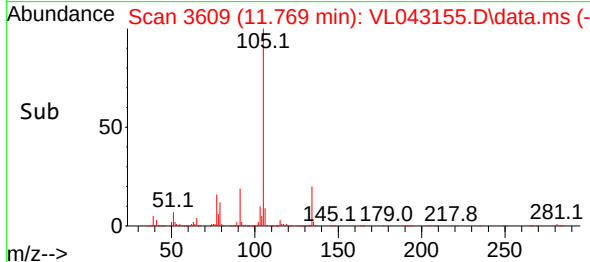
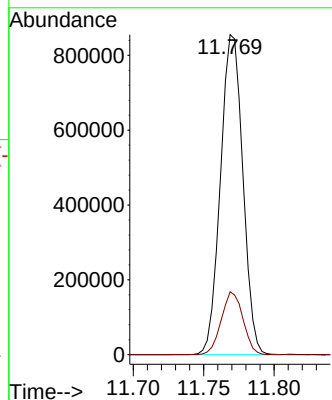
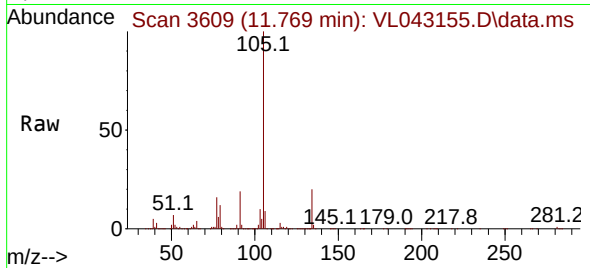




#67  
 sec-Butylbenzene  
 Concen: 10.327 ppbv  
 RT: 11.769 min Scan# 3179  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

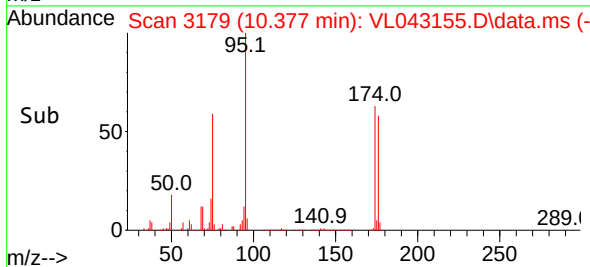
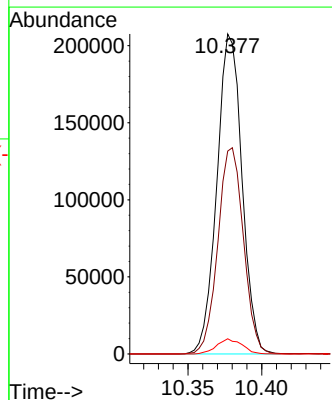
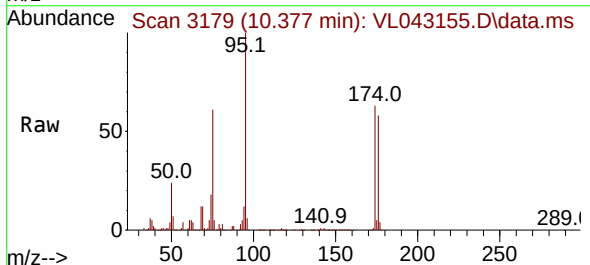
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

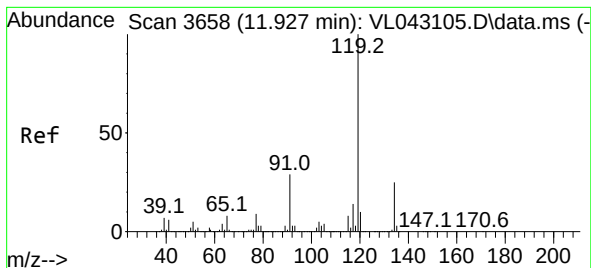
Tgt Ion:105 Resp: 948023  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.570 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.003 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 95 Resp: 246332  
 Ion Ratio Lower Upper  
 95 100  
 174 65.5 48.3 72.5  
 175 4.8 3.8 5.8

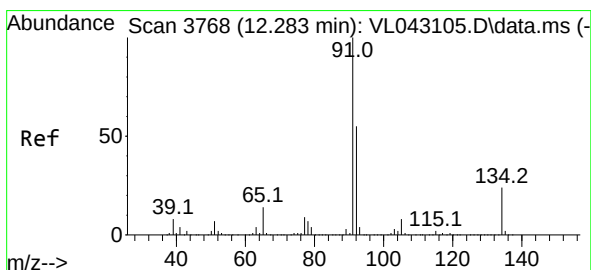
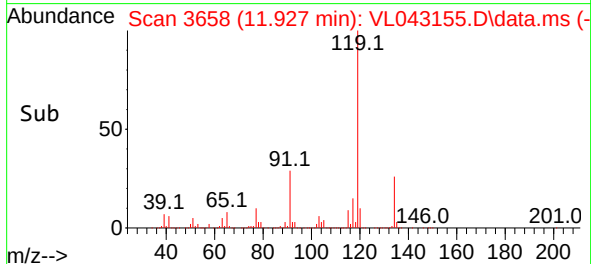
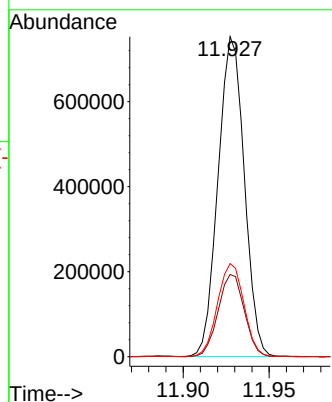
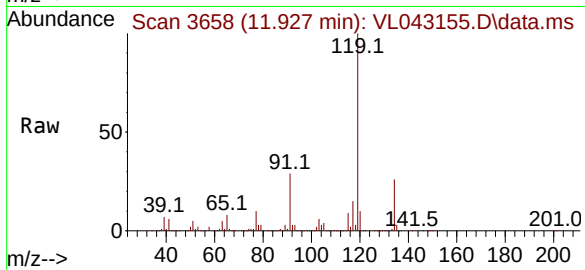




#69  
 p-Isopropyltoluene  
 Concen: 10.237 ppbv  
 RT: 11.927 min Scan# 3658  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

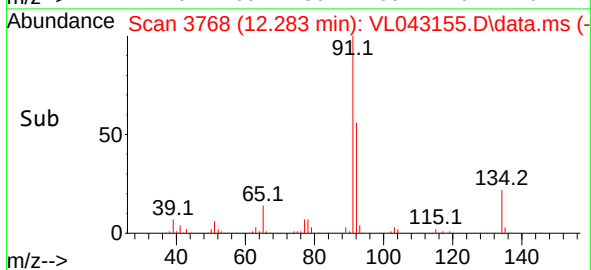
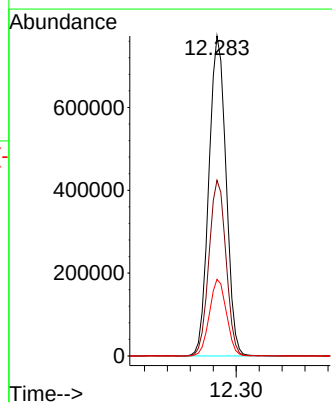
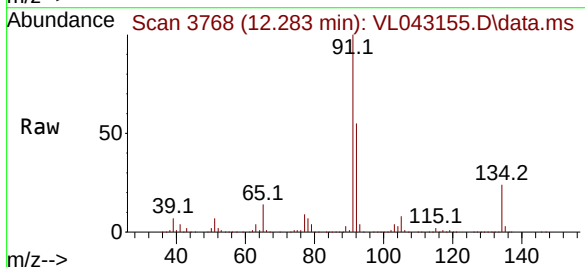
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

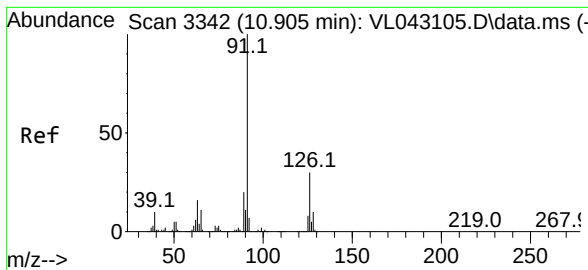
Tgt Ion:119 Resp: 798570  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 20.3 30.5  
 91 29.5 22.6 33.8



#70  
 n-Butylbenzene  
 Concen: 10.410 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Tgt Ion: 91 Resp: 800217  
 Ion Ratio Lower Upper  
 91 100  
 92 54.6 44.5 66.7  
 134 23.8 19.3 28.9

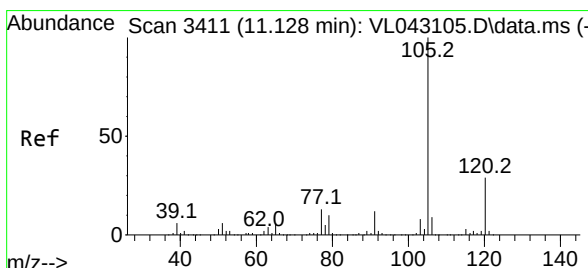
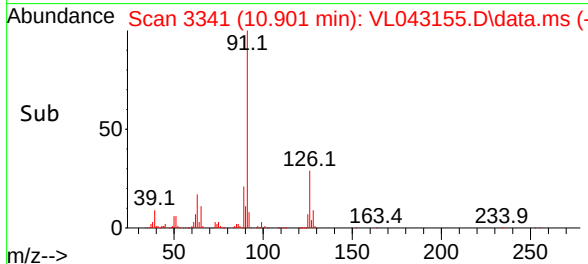
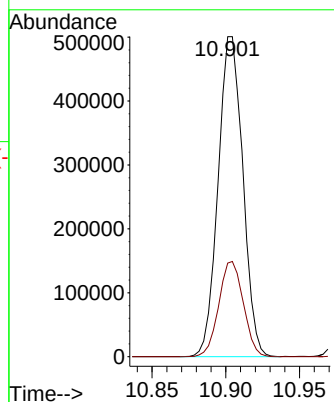
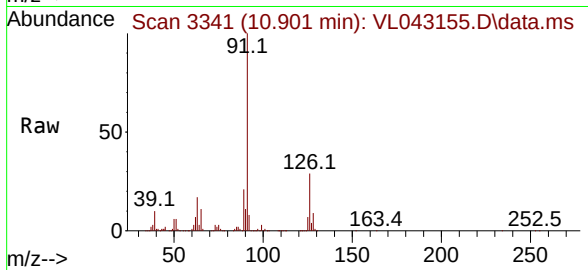




#71  
2-Chlorotoluene  
Concen: 10.461 ppbv  
RT: 10.901 min Scan# 311  
Delta R.T. -0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

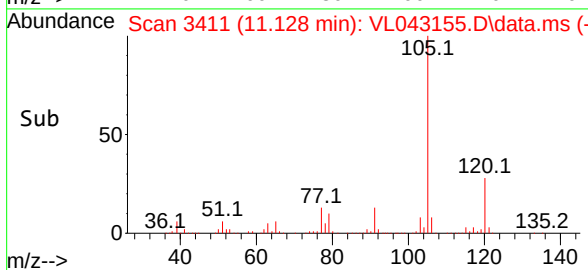
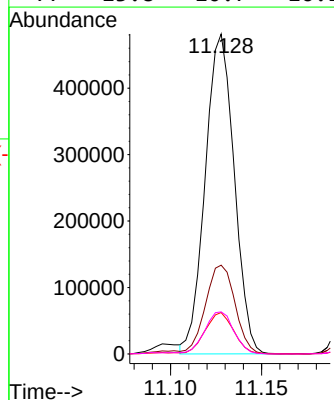
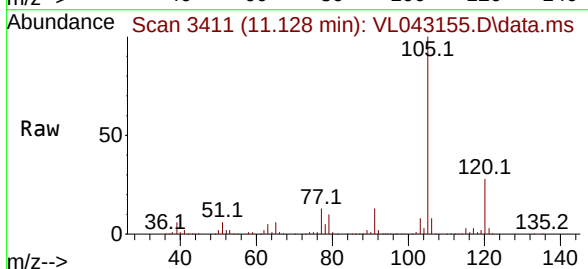
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

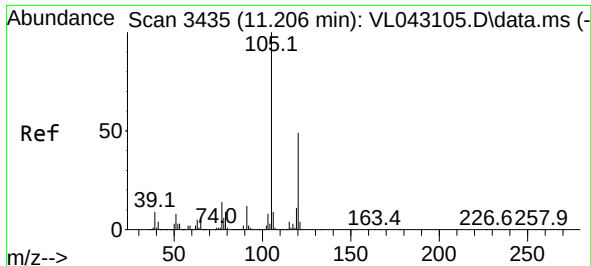
Tgt Ion: 91 Resp: 584421  
Ion Ratio Lower Upper  
91 100  
126 29.5 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 10.693 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion: 105 Resp: 532971  
Ion Ratio Lower Upper  
105 100  
120 29.3 24.2 36.4  
91 13.3 10.0 15.0  
77 13.8 10.7 16.1

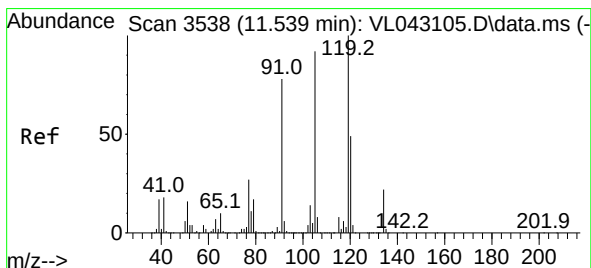
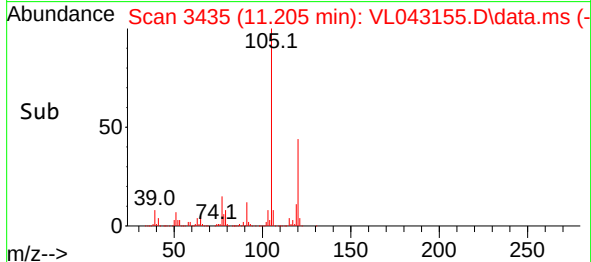
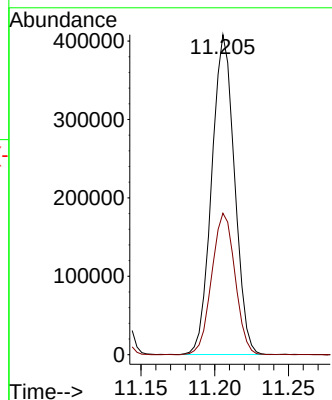
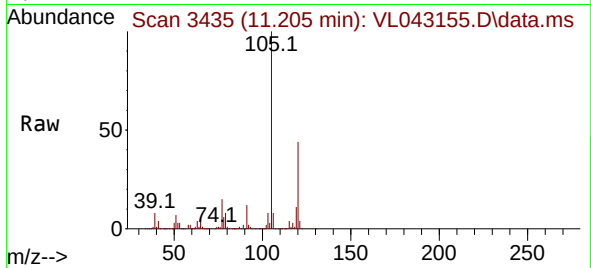




#73  
1,3,5-Trimethylbenzene  
Concen: 10.671 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

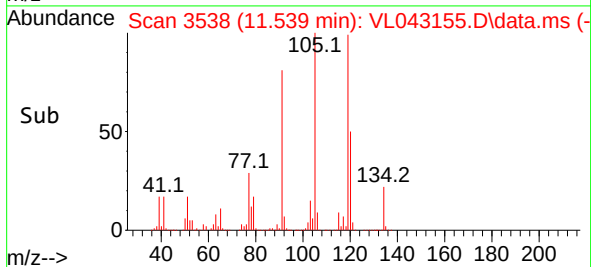
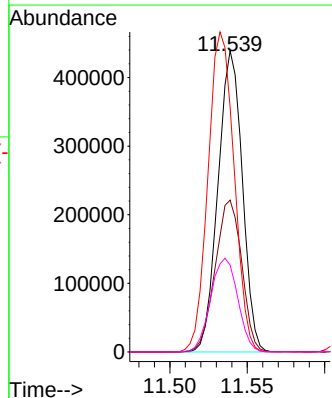
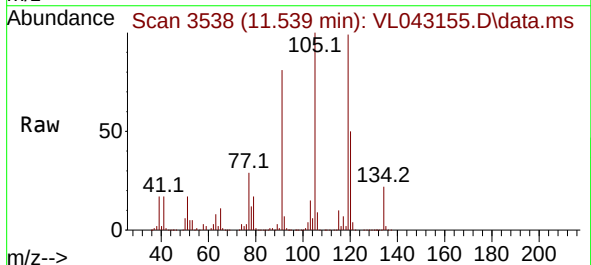
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

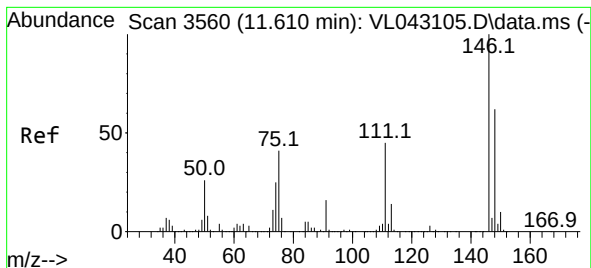
Tgt Ion:105 Resp: 438651  
Ion Ratio Lower Upper  
105 100  
120 44.2 39.0 58.6



#74  
1,2,4-Trimethylbenzene  
Concen: 10.419 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:105 Resp: 479281  
Ion Ratio Lower Upper  
105 100  
120 50.4 42.8 64.2  
91 81.1 68.3 102.5  
77 28.8 23.4 35.0





#75

1,3-Dichlorobenzene

Concen: 10.943 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

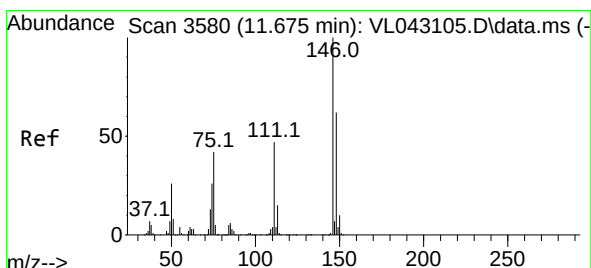
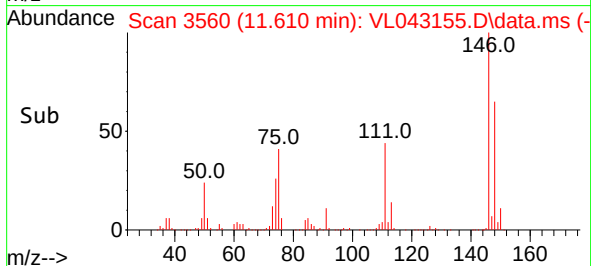
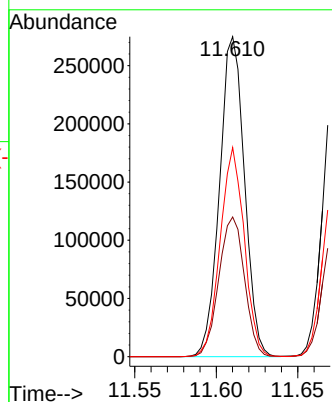
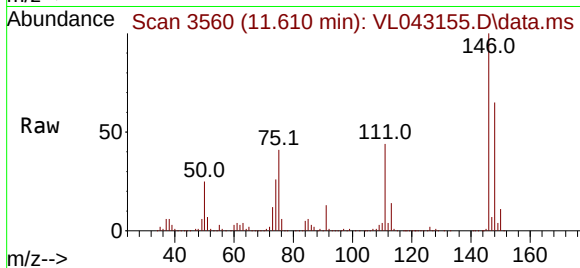
Tgt Ion:146 Resp: 291949

Ion Ratio Lower Upper

146 100

111 45.0 23.3 69.9

148 63.2 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 10.872 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

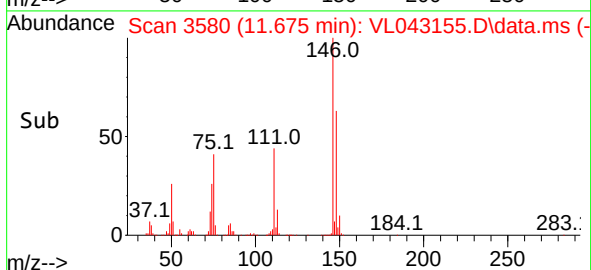
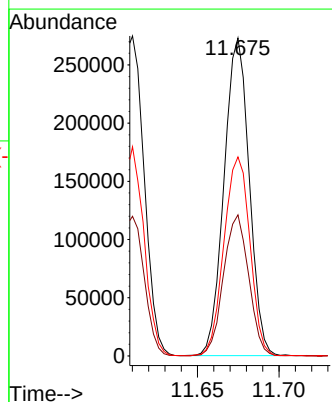
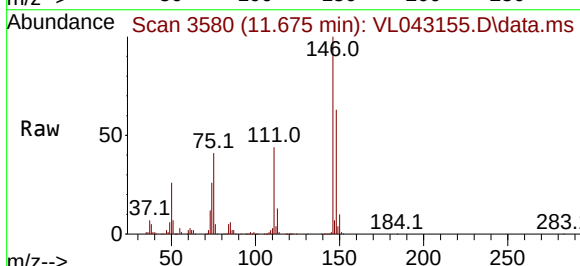
Tgt Ion:146 Resp: 292491

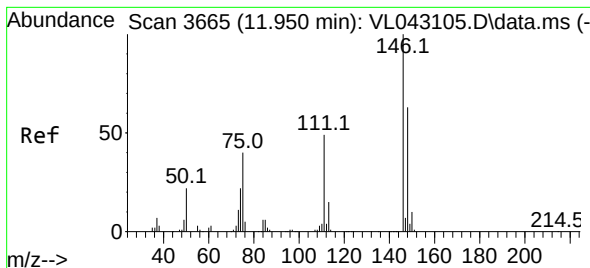
Ion Ratio Lower Upper

146 100

111 44.8 22.4 67.0

148 64.9 31.6 94.7





#77

1,2-Dichlorobenzene

Concen: 10.670 ppbv

RT: 11.950 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

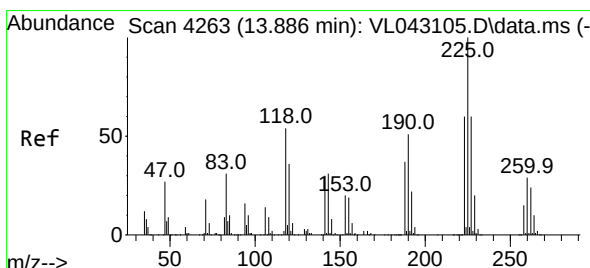
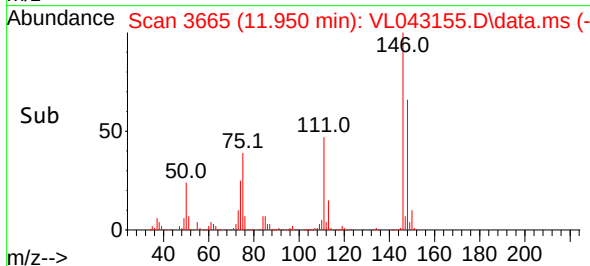
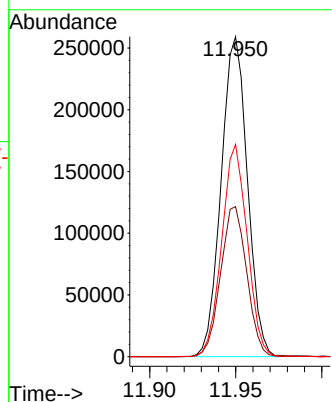
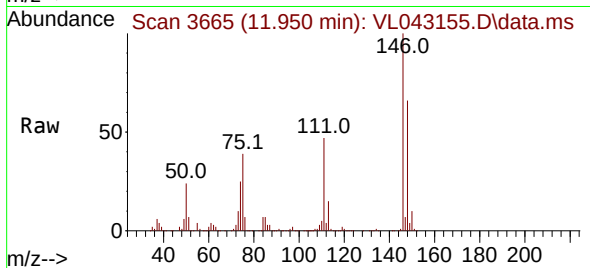
Tgt Ion:146 Resp: 275403

Ion Ratio Lower Upper

146 100

111 46.9 24.0 72.0

148 64.3 31.1 93.3



#78

Hexachloro-1,3-Butadiene

Concen: 10.417 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.003 min

Lab File: VL043155.D

Acq: 06 Nov 2025 07:19

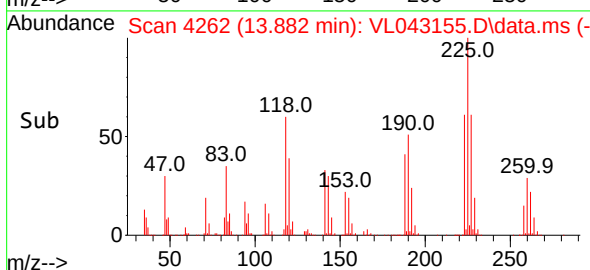
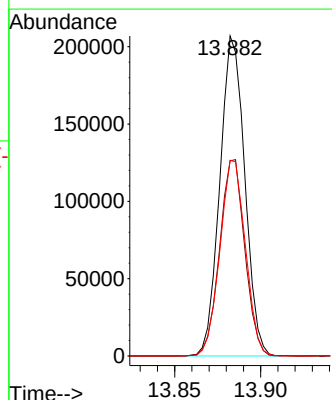
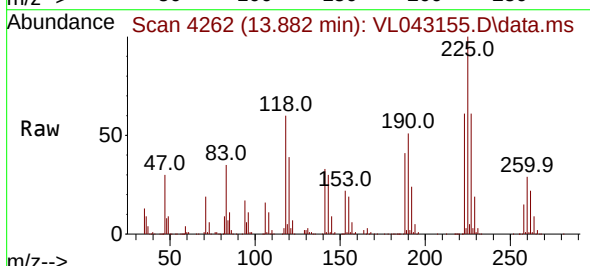
Tgt Ion:225 Resp: 208179

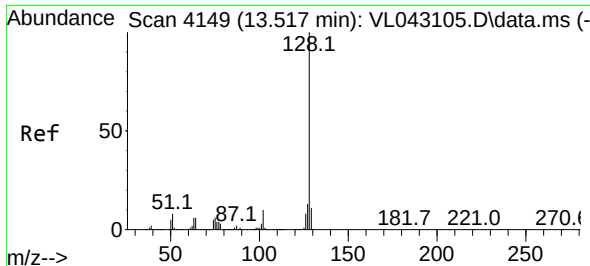
Ion Ratio Lower Upper

225 100

223 62.2 50.2 75.4

227 62.5 49.6 74.4

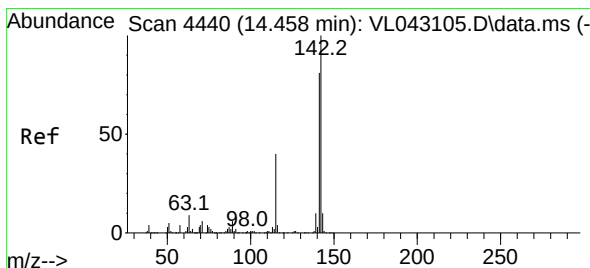
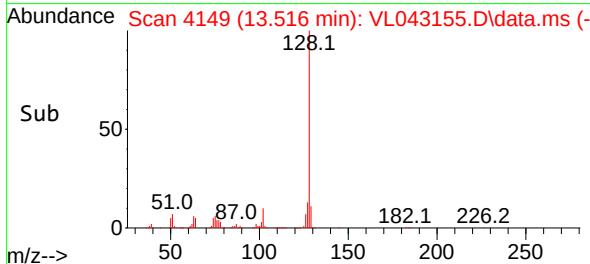
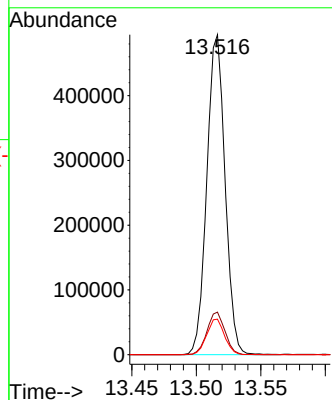
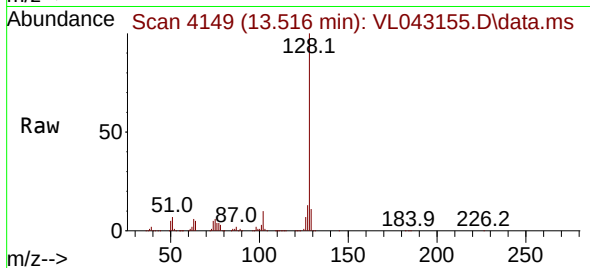




#79  
Naphthalene  
Concen: 10.113 ppbv  
RT: 13.516 min Scan# 4149  
Delta R.T. -0.000 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

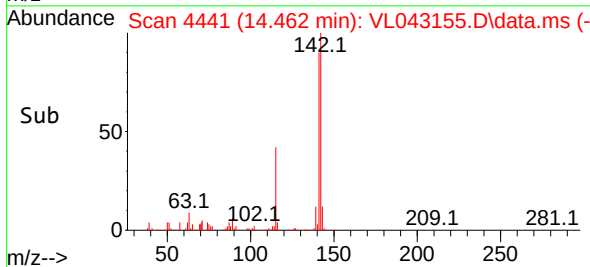
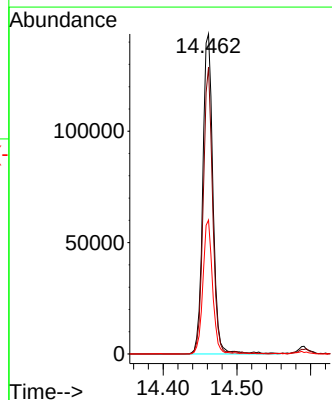
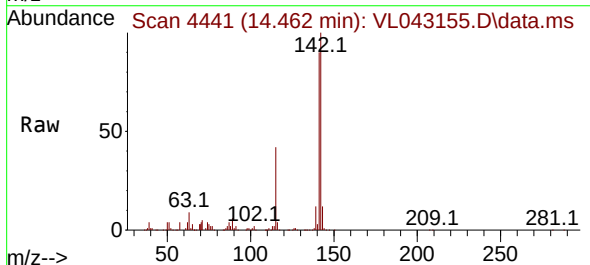
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

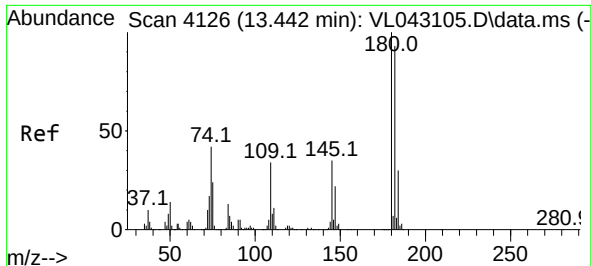
Tgt Ion:128 Resp: 486229  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.5 15.7  
129 11.1 9.1 13.7



#80  
Naphthalene,2-methyl-  
Concen: 10.942 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.003 min  
Lab File: VL043155.D  
Acq: 06 Nov 2025 07:19

Tgt Ion:142 Resp: 137059  
Ion Ratio Lower Upper  
142 100  
141 83.9 64.6 97.0  
115 40.3 30.2 45.4

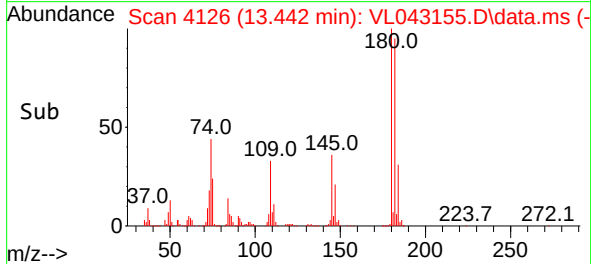
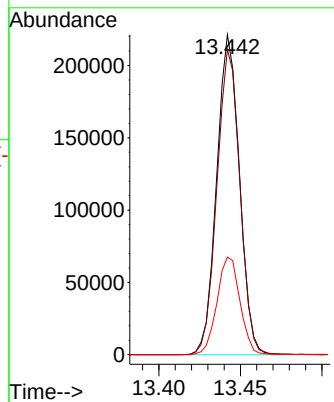
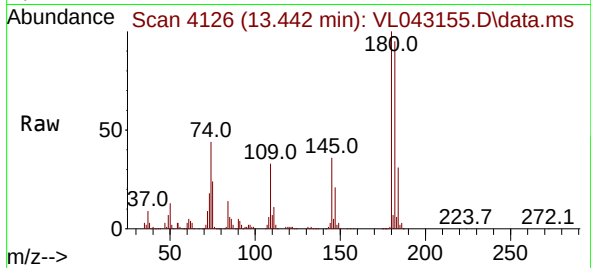




#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.750 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL043155.D  
 Acq: 06 Nov 2025 07:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:180 Resp: 214527  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 75.5 113.3  
 184 30.9 23.9 35.9





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043157.D  
 Acq On : 06 Nov 2025 08:45  
 Operator : SY/MD  
 Sample : VL1106ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.787  | 49    | 111380   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 340583   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 299526   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 237797   | 10.214   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 102.100% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 170728   | 10.782   | ppbv  | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 171506   | 10.011   | ppbv  | 97       |
| 4) Chloromethane              | 1.534  | 50    | 57299    | 9.134    | ppbv  | 100      |
| 5) Vinyl Chloride             | 1.580  | 62    | 55895    | 9.085    | ppbv  | 100      |
| 6) Bromomethane               | 1.667  | 94    | 34540    | 10.238   | ppbv  | 96       |
| 7) Chloroethane               | 1.706  | 64    | 23501    | 9.342    | ppbv  | 89       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 136433   | 10.661   | ppbv  | 92       |
| 9) Propene                    | 1.483  | 41    | 64760    | 8.523    | ppbv  | 99       |
| 10) Heptane                   | 4.978  | 43    | 189938   | 8.683    | ppbv  | 98       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 181952   | 11.748   | ppbv  | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 139934   | 11.222   | ppbv  | 96       |
| 13) Ethanol                   | 1.719  | 45    | 21163    | 7.530    | ppbv  | 98       |
| 14) Bromoethene               | 1.780  | 108   | 49693    | 10.727   | ppbv  | 99       |
| 15) Acetone                   | 1.835  | 43    | 134115   | 8.934    | ppbv  | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 62625    | 8.753    | ppbv  | 98       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 203295   | 9.865    | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 59563    | 10.957   | ppbv  | 84       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 80943    | 8.657    | ppbv  | 92       |
| 20) Methylene Chloride        | 2.062  | 84    | 53912    | 9.085    | ppbv  | 94       |
| 21) Allyl Chloride            | 2.094  | 41    | 101879   | 9.210    | ppbv  | 94       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 69305    | 10.665   | ppbv  | 93       |
| 23) Vinyl Acetate             | 2.460  | 43    | 232125   | 10.556   | ppbv  | 99       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 131599   | 10.482   | ppbv  | 98       |
| 25) Ethyl Acetate             | 2.832  | 43    | 354153   | 9.513    | ppbv  | 100      |
| 26) Hexane                    | 2.826  | 57    | 161029   | 9.387    | ppbv  | 98       |
| 27) Carbon Disulfide          | 2.149  | 76    | 167737   | 10.672   | ppbv  | 98       |
| 28) Methyl tert-Butyl Ether   | 2.437  | 73    | 76290    | 9.775    | ppbv  | 94       |
| 29) Chloroform                | 2.848  | 83    | 272377   | 10.958   | ppbv  | 100      |
| 30) Cyclohexane               | 3.855  | 84    | 139050   | 9.287    | ppbv  | 94       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 171275   | 10.456   | ppbv  | 97       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 276541   | 10.684   | ppbv  | 100      |
| 34) 2-Butanone                | 2.554  | 43    | 237347   | 10.367   | ppbv  | 100      |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 289096   | 11.806   | ppbv  | 94       |
| 36) Benzene                   | 3.654  | 78    | 326982   | 10.193   | ppbv  | 99       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 208468   | 11.281   | ppbv  | 98       |
| 38) Trichloroethene           | 4.544  | 130   | 129044   | 9.632    | ppbv  | 96       |
| 39) 1,2-Dichloropropane       | 4.308  | 63    | 117166   | 9.991    | ppbv  | 93       |
| 40) 1,4-Dioxane               | 4.574  | 88    | 49474    | 9.428    | ppbv  | # 96     |
| 41) Tetrahydrofuran           | 3.049  | 42    | 118637   | 9.265    | ppbv  | 97       |
| 42) Bromodichloromethane      | 4.486  | 83    | 291226   | 11.387   | ppbv  | 99       |
| 43) Methyl Methacrylate       | 4.875  | 69    | 160012   | 9.821    | ppbv  | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 531922   | 9.828    | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.409  | 75    | 165316   | 10.111   | ppbv  | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043157.D  
 Acq On : 06 Nov 2025 08:45  
 Operator : SY/MD  
 Sample : VL1106ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Quant Time: Nov 07 00:17:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

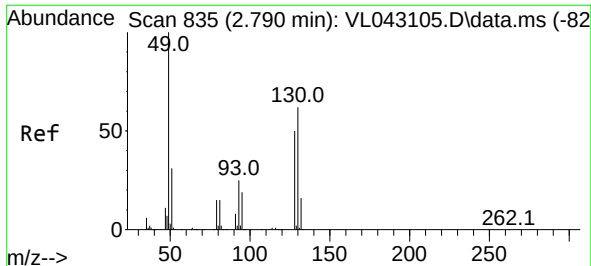
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 195336   | 10.001 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 130064   | 10.270 | ppbv   | 92       |
| 48) Dibromochloromethane      | 7.383  | 129  | 234841   | 11.091 | ppbv   | 98       |
| 49) Bromoform                 | 9.480  | 173  | 199190   | 11.573 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.739  | 43   | 295763   | 9.361  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.428  | 43   | 227473   | 9.599  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.221  | 164  | 119279   | 10.312 | ppbv   | 97       |
| 53) Toluene                   | 6.927  | 91   | 368487   | 9.679  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 205210   | 10.345 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 213620   | 11.314 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.917  | 112  | 286347   | 10.219 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.351  | 91   | 529847   | 10.307 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.532  | 91   | 441757   | 10.774 | ppbv # | 29       |
| 60) o-Xylene                  | 9.963  | 91   | 422838   | 10.442 | ppbv   | 100      |
| 61) Styrene                   | 9.865  | 104  | 179195   | 9.802  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 762154   | 10.416 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 269723   | 9.947  | ppbv   | 98       |
| 64) n-propylbenzene           | 10.989 | 120  | 201938   | 10.424 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 662570   | 10.254 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.613 | 91   | 64257    | 8.935  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 957255   | 10.438 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 795241   | 10.205 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 798019   | 10.392 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 579642   | 10.386 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 530791   | 10.660 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 440663   | 10.731 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 477453   | 10.390 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 290341   | 10.894 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 291409   | 10.843 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 276598   | 10.728 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 207474   | 10.393 | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 486413   | 10.127 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 142500   | 11.387 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 216292   | 10.849 | ppbv   | 99       |

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

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- 16
- 17
- 18

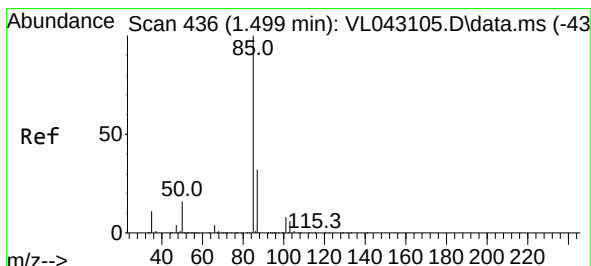
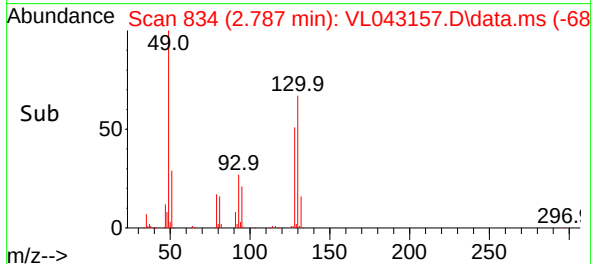
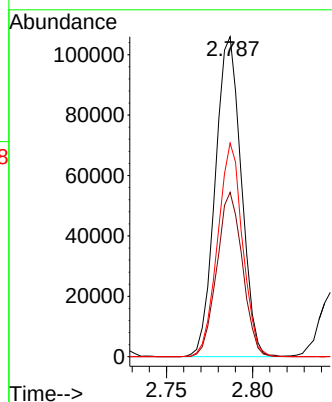
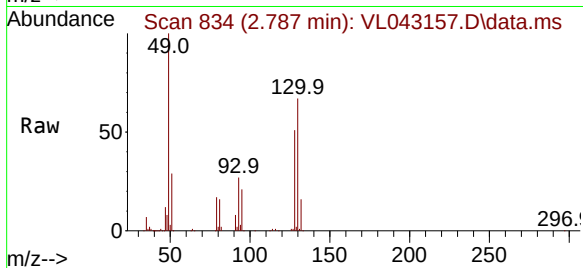




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

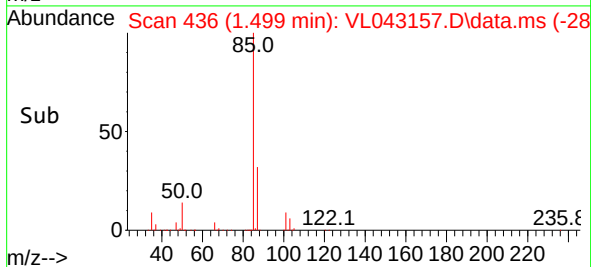
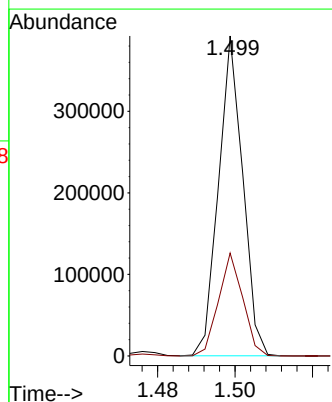
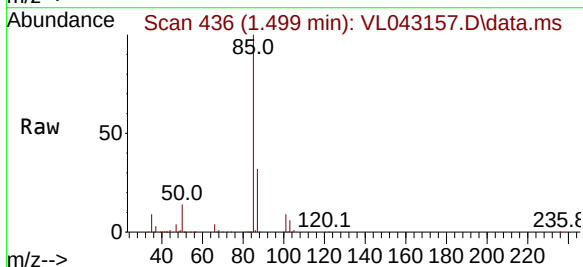
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

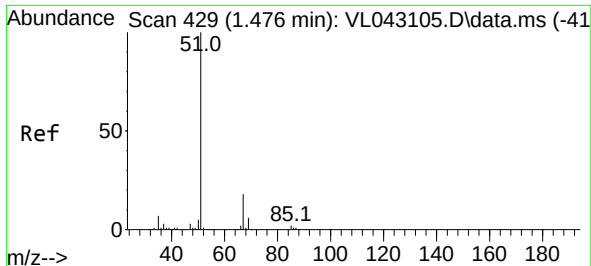
Tgt Ion: 49 Resp: 111380  
Ion Ratio Lower Upper  
49 100  
128 50.4 24.4 73.4  
130 63.9 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 10.782 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 170728  
Ion Ratio Lower Upper  
85 100  
87 32.2 25.3 37.9

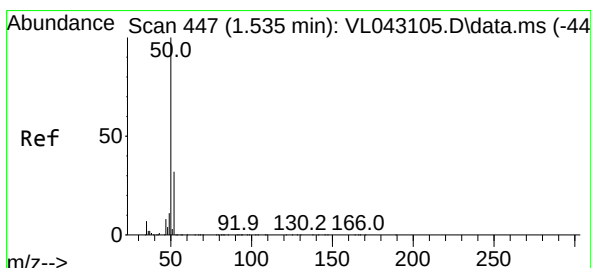
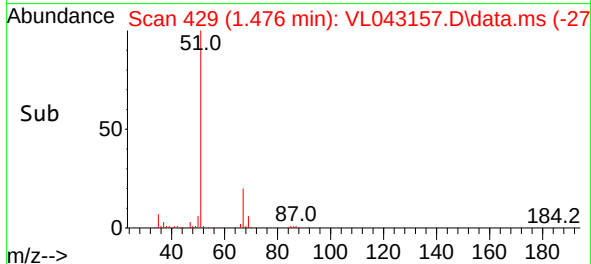
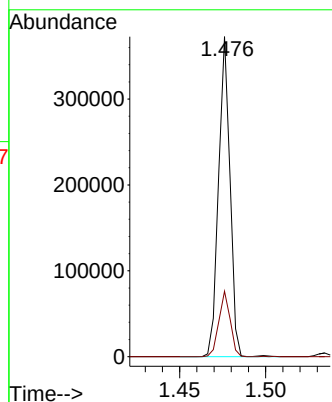
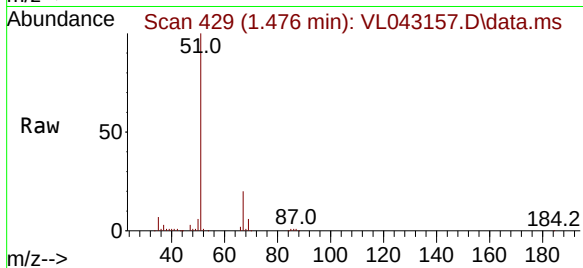




#3  
Chlorodifluoromethane  
Concen: 10.011 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

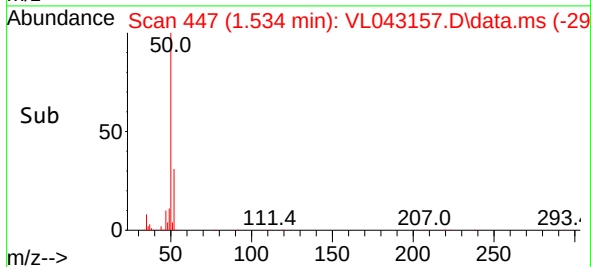
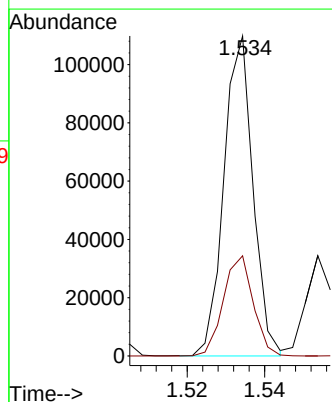
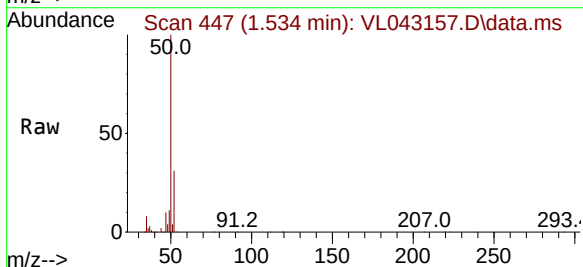
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

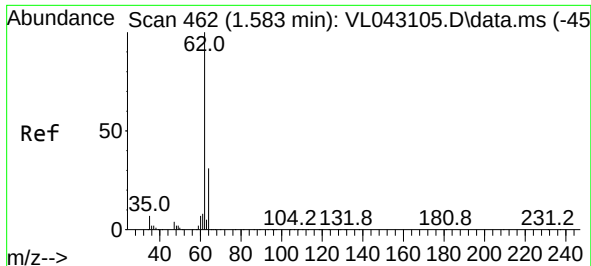
Tgt Ion: 51 Resp: 171506  
Ion Ratio Lower Upper  
51 100  
67 20.4 15.1 22.7



#4  
Chloromethane  
Concen: 9.134 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 50 Resp: 57299  
Ion Ratio Lower Upper  
50 100  
52 31.3 25.2 37.8

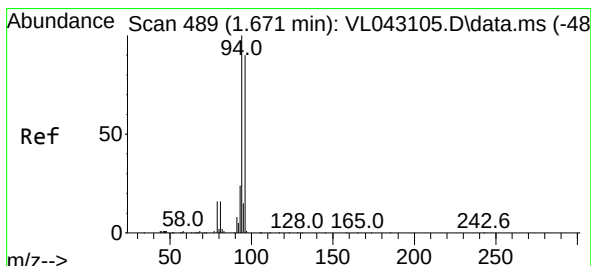
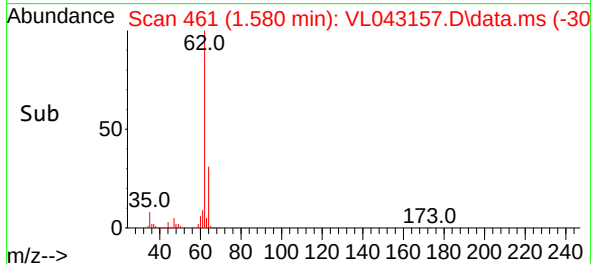
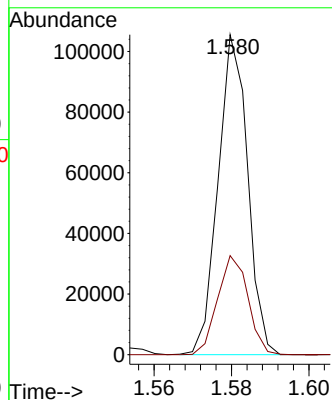
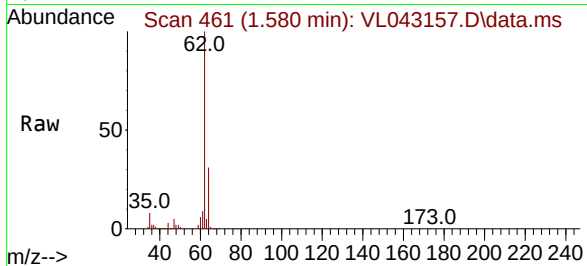




#5  
 Vinyl Chloride  
 Concen: 9.085 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

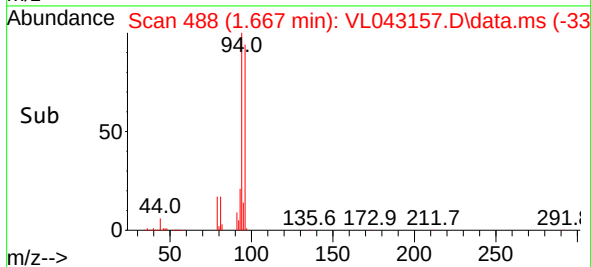
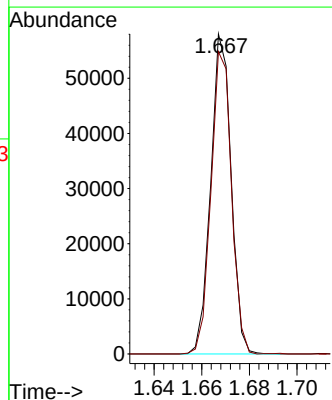
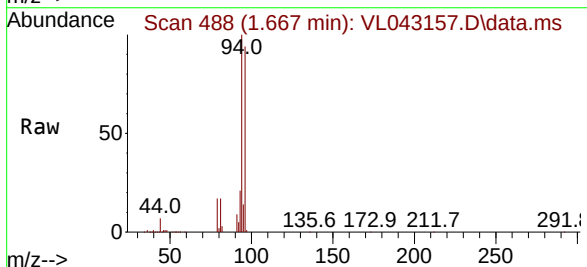
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01

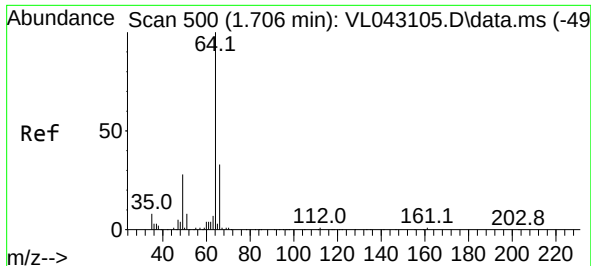
Tgt Ion: 62 Resp: 55895  
 Ion Ratio Lower Upper  
 62 100  
 64 31.0 24.6 36.8



#6  
 Bromomethane  
 Concen: 10.238 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Tgt Ion: 94 Resp: 34540  
 Ion Ratio Lower Upper  
 94 100  
 96 94.5 72.2 108.4

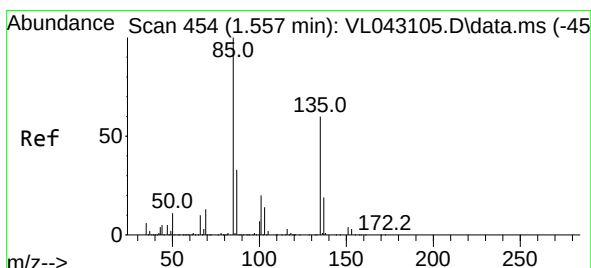
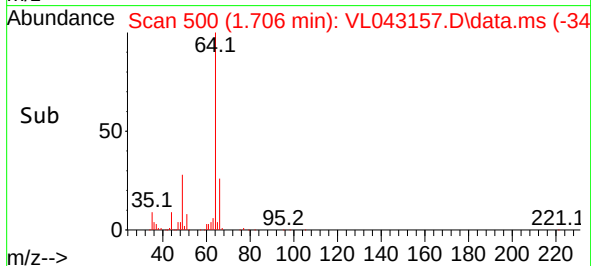
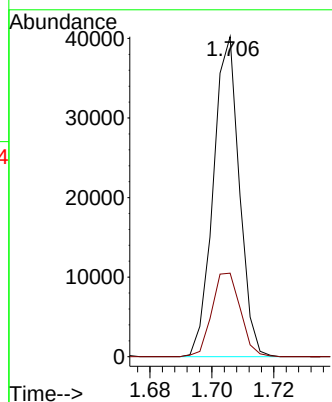
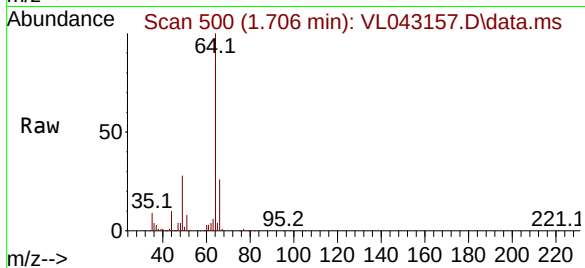




#7  
Chloroethane  
Concen: 9.342 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

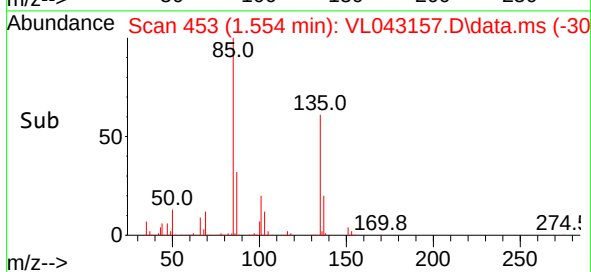
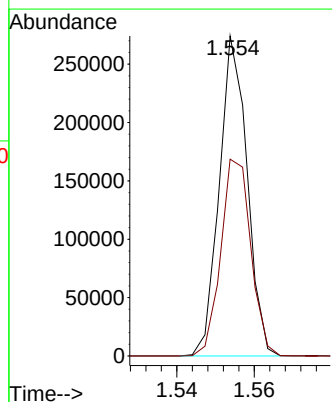
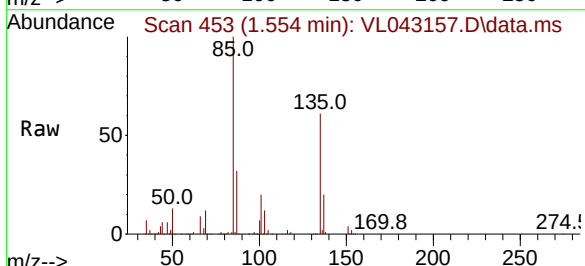
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

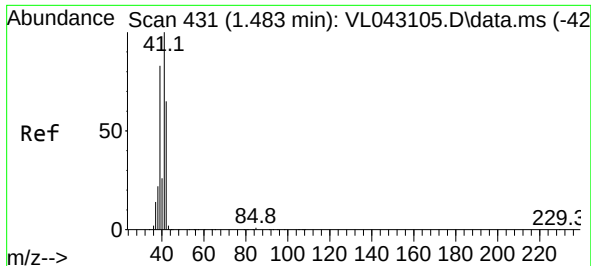
Tgt Ion: 64 Resp: 23501  
Ion Ratio Lower Upper  
64 100  
66 26.1 26.0 39.0



#8  
Dichlorotetrafluoroethane  
Concen: 10.661 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 85 Resp: 136433  
Ion Ratio Lower Upper  
85 100  
135 66.6 48.2 72.4





#9

Propene

Concen: 8.523 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

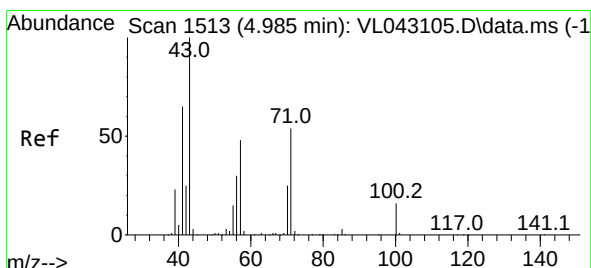
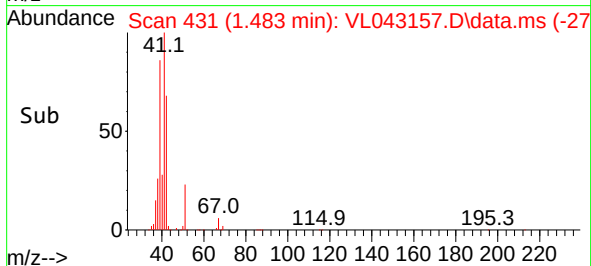
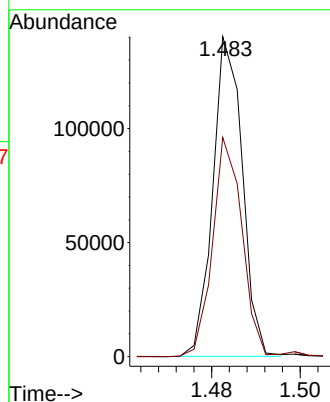
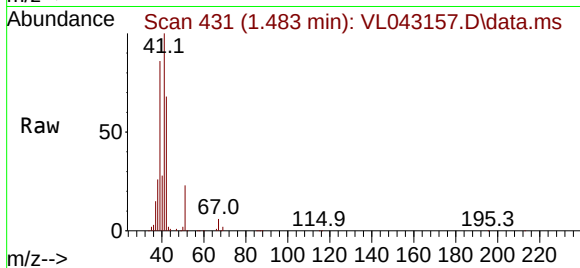
VL1106ABS01

Tgt Ion: 41 Resp: 64760

Ion Ratio Lower Upper

41 100

42 69.6 55.1 82.7



#10

Heptane

Concen: 8.683 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.007 min

Lab File: VL043157.D

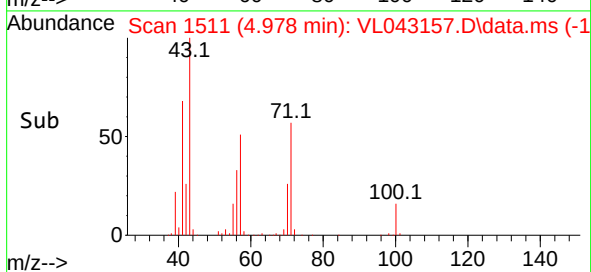
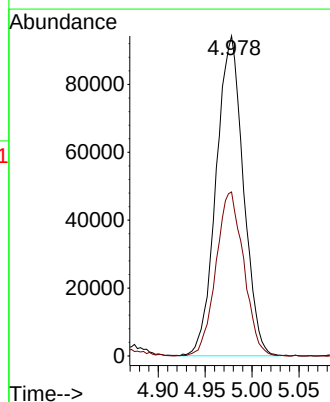
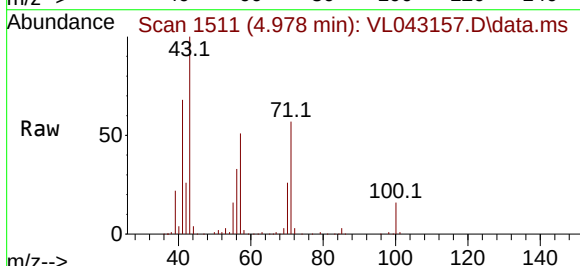
Acq: 06 Nov 2025 08:45

Tgt Ion: 43 Resp: 189938

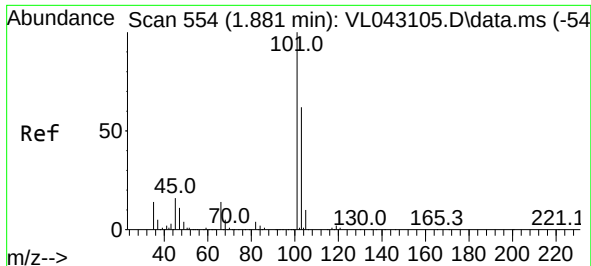
Ion Ratio Lower Upper

43 100

57 52.3 40.8 61.2



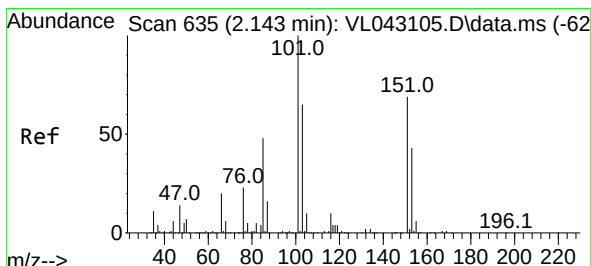
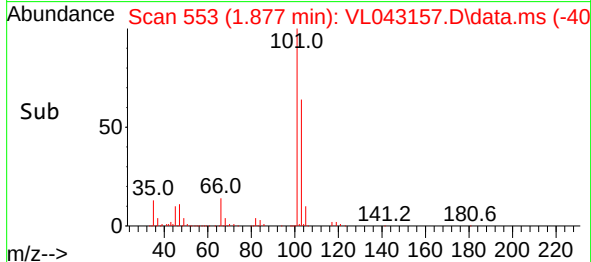
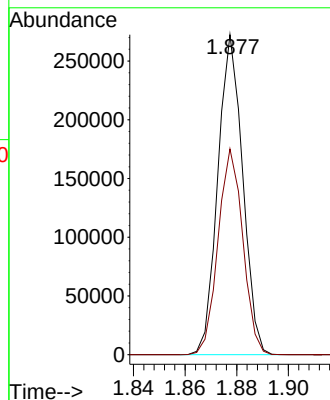
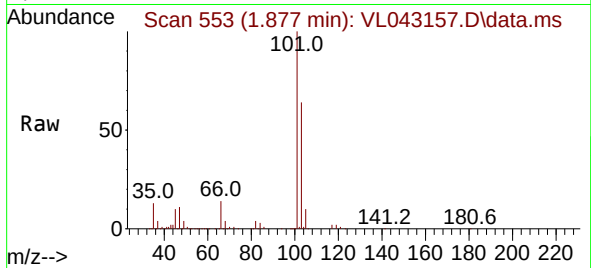




#11  
Trichlorofluoromethane  
Concen: 11.748 ppbv  
RT: 1.877 min Scan# 51  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

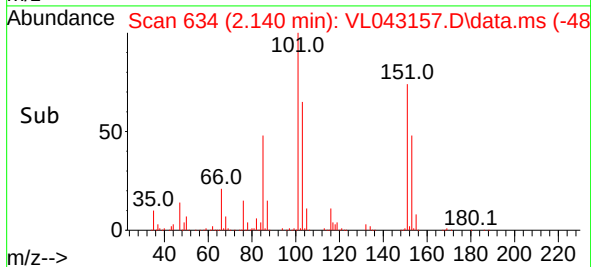
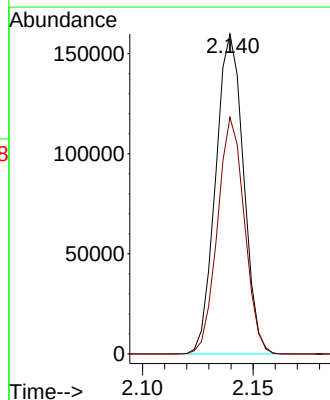
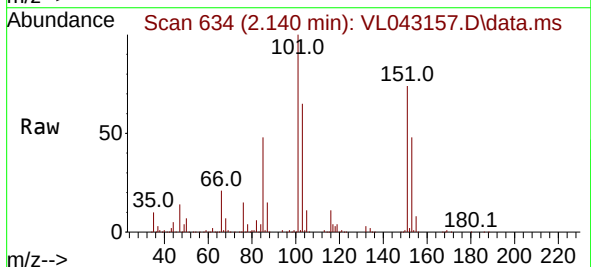
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

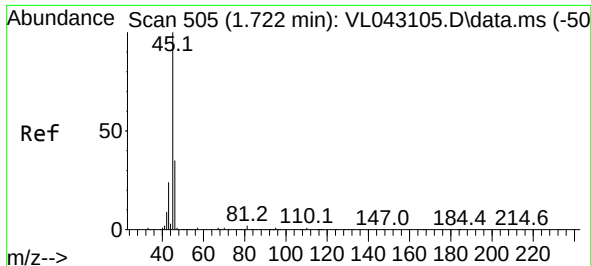
Tgt Ion:101 Resp: 181952  
Ion Ratio Lower Upper  
101 100  
103 64.3 49.3 73.9



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 11.222 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:101 Resp: 139934  
Ion Ratio Lower Upper  
101 100  
151 71.7 54.7 82.1

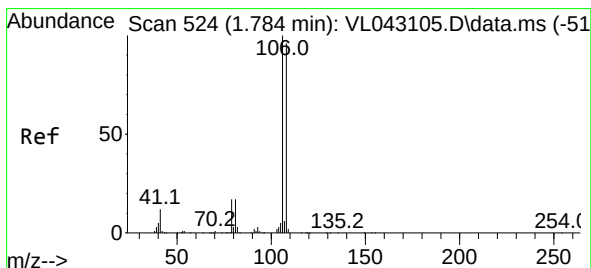
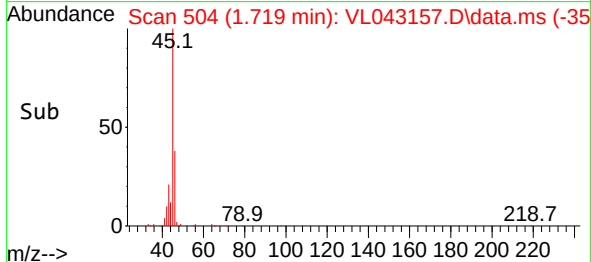
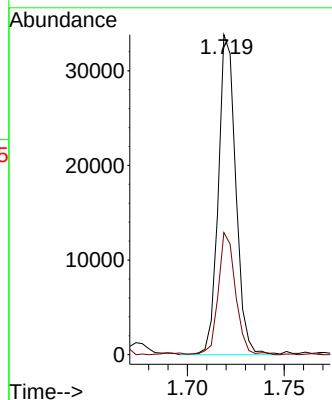
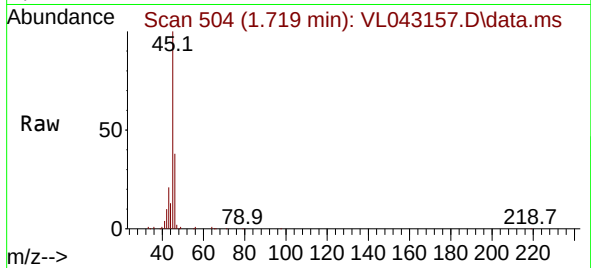




#13  
Ethanol  
Concen: 7.530 ppbv  
RT: 1.719 min Scan# 505  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

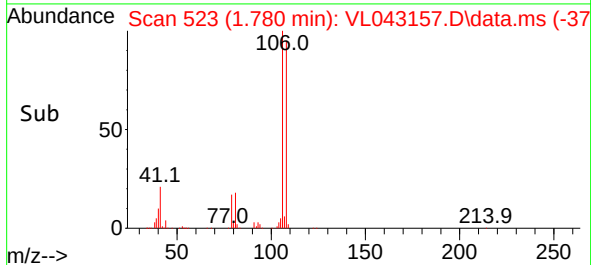
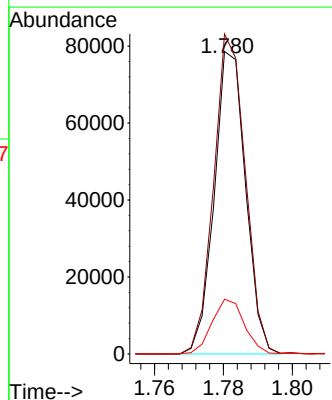
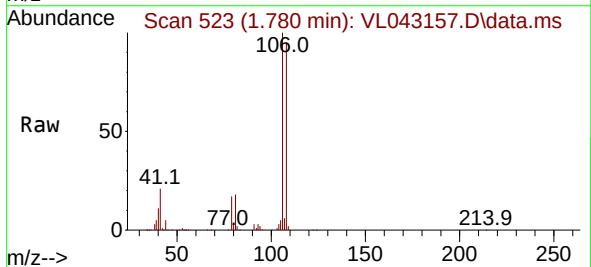
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

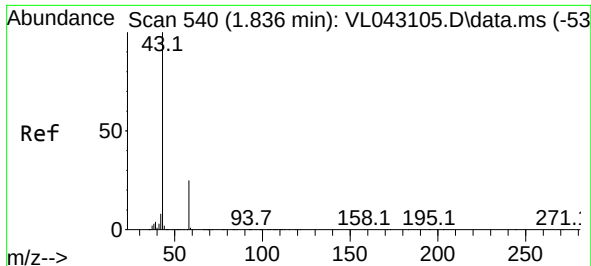
Tgt Ion: 45 Resp: 21163  
Ion Ratio Lower Upper  
45 100  
46 38.3 14.7 58.9



#14  
Bromoethene  
Concen: 10.727 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 108 Resp: 49693  
Ion Ratio Lower Upper  
108 100  
106 106.7 84.4 126.6  
79 18.8 15.3 22.9

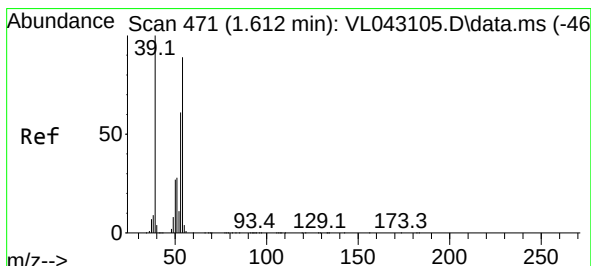
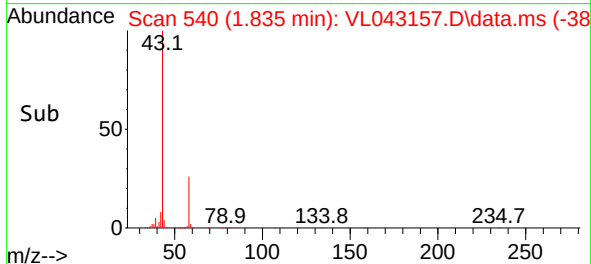
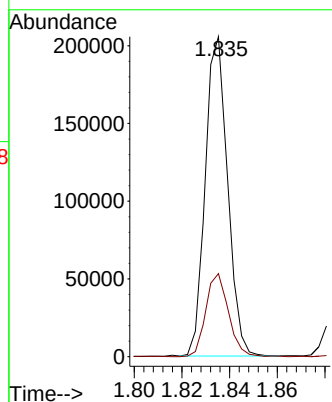
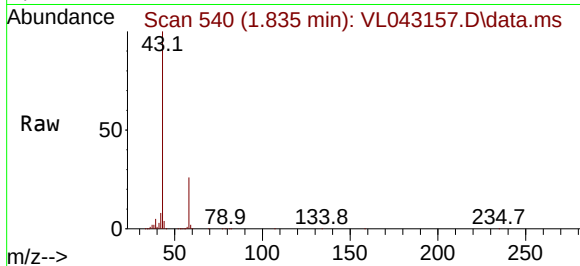




#15  
Acetone  
Concen: 8.934 ppbv  
RT: 1.835 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

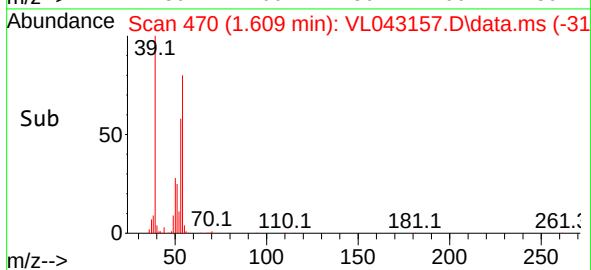
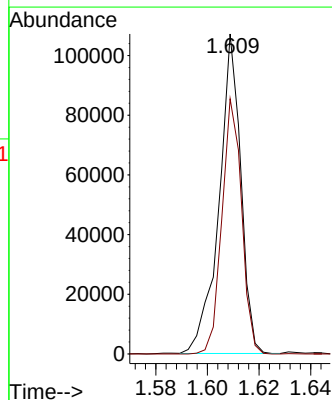
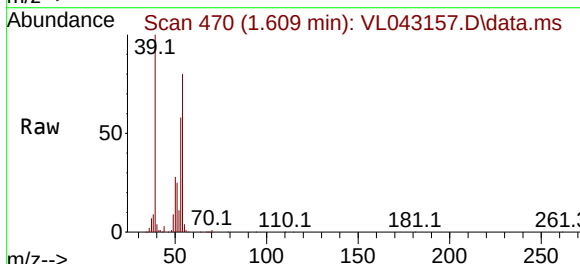
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

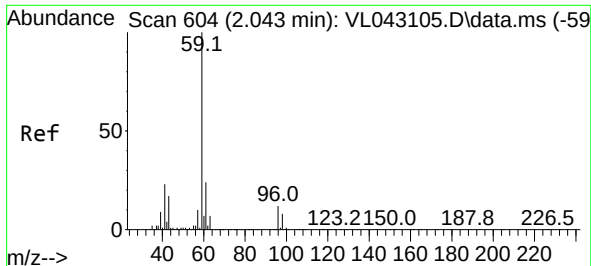
Tgt Ion: 43 Resp: 134115  
Ion Ratio Lower Upper  
43 100  
58 26.6 20.8 31.2



#16  
1,3-Butadiene  
Concen: 8.753 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 39 Resp: 62625  
Ion Ratio Lower Upper  
39 100  
54 72.1 59.0 88.4





#17

tert-Butyl alcohol

Concen: 9.865 ppbv

RT: 2.039 min Scan# 604

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

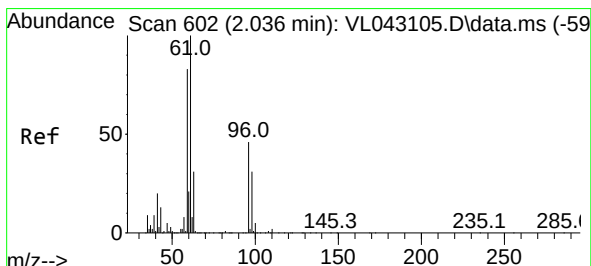
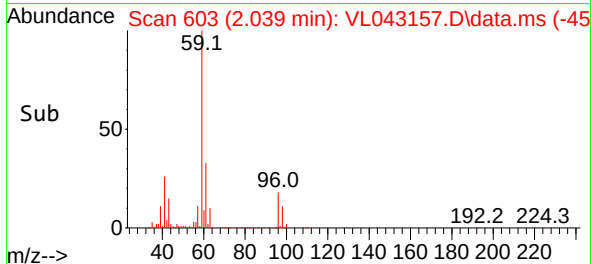
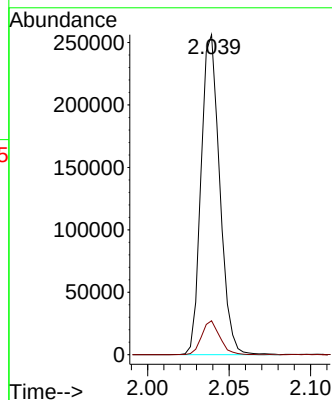
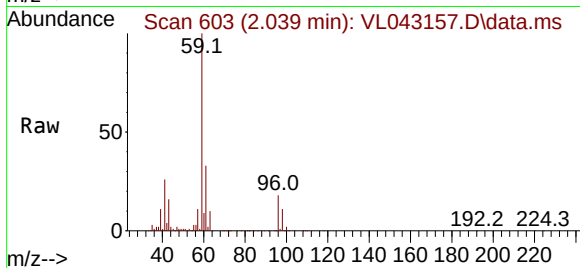
VL1106ABS01

Tgt Ion: 59 Resp: 203295

Ion Ratio Lower Upper

59 100

57 10.4 8.2 12.4



#18

1,1-Dichloroethene

Concen: 10.957 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

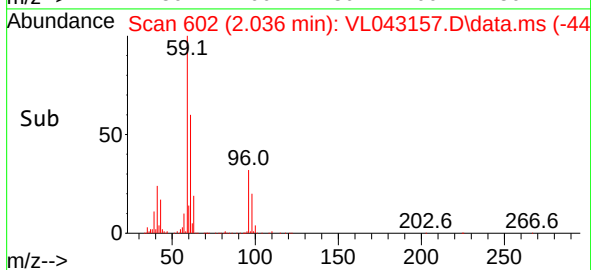
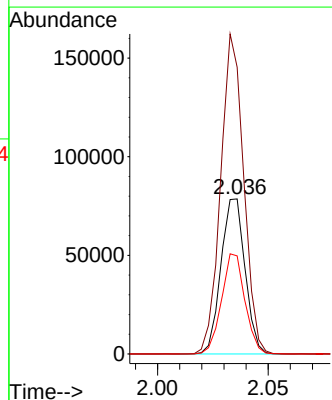
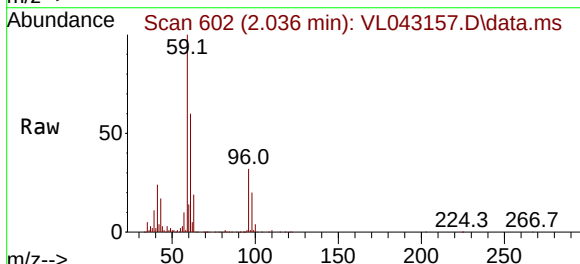
Tgt Ion: 96 Resp: 59563

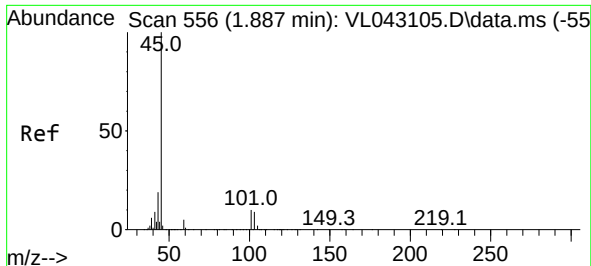
Ion Ratio Lower Upper

96 100

61 185.0 173.4 260.0

98 63.3 53.2 79.8

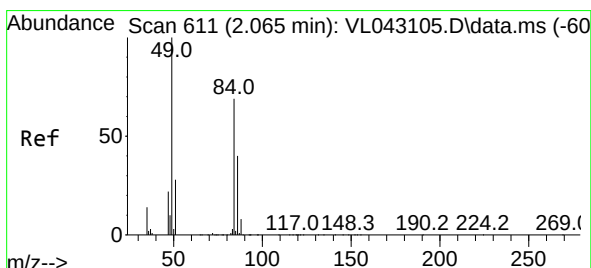
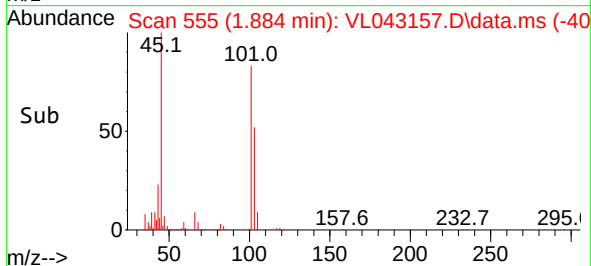
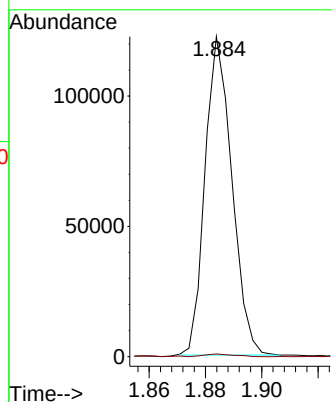
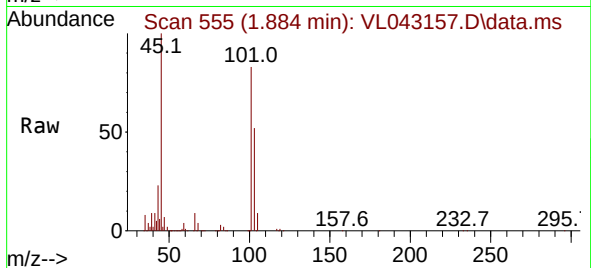




#19  
Isopropyl Alcohol  
Concen: 8.657 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

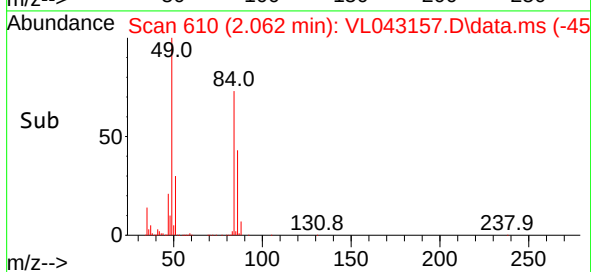
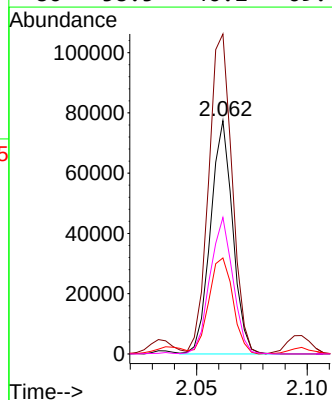
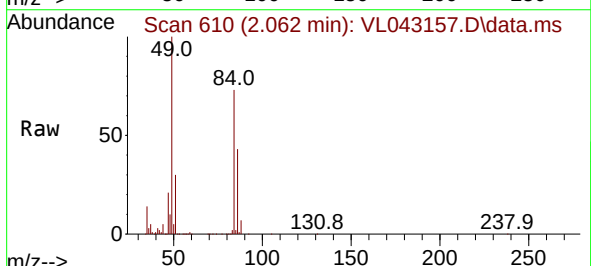
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

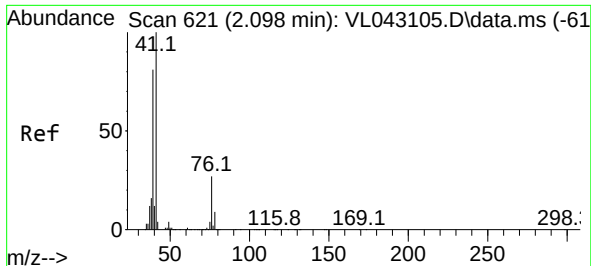
Tgt Ion: 45 Resp: 80943  
Ion Ratio Lower Upper  
45 100  
58 44.1 31.3 46.9



#20  
Methylene Chloride  
Concen: 9.085 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 84 Resp: 53912  
Ion Ratio Lower Upper  
84 100  
49 135.7 116.6 175.0  
51 40.7 34.8 52.2  
86 58.5 46.2 69.4

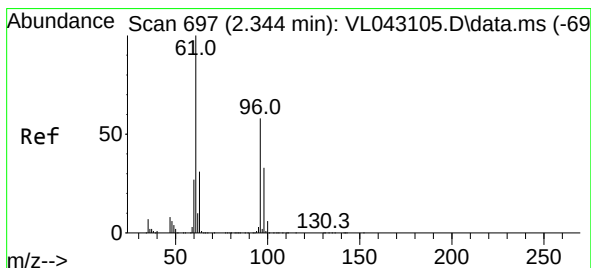
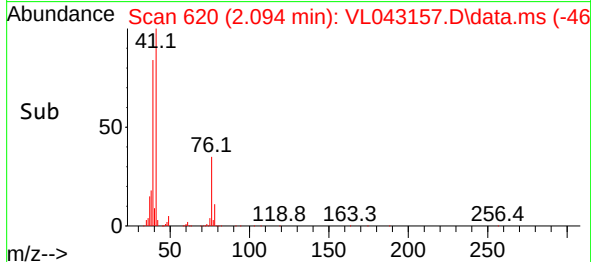
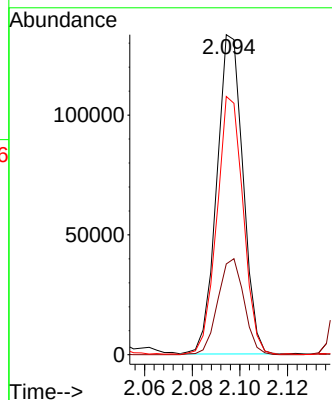
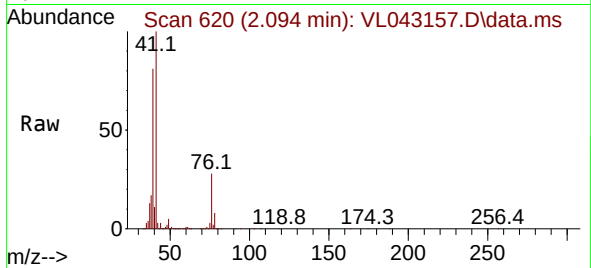




#21  
 Allyl Chloride  
 Concen: 9.210 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

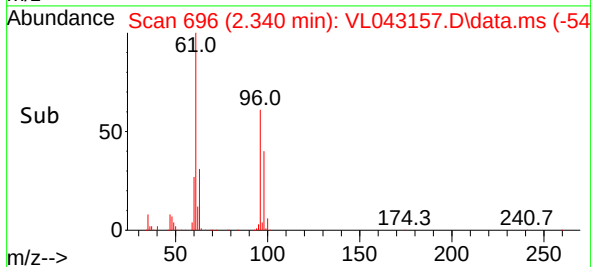
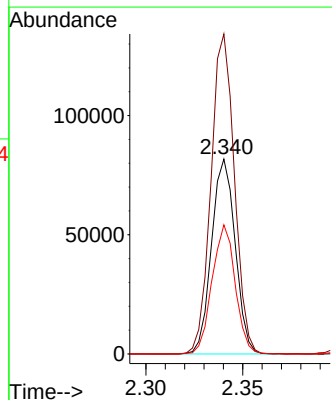
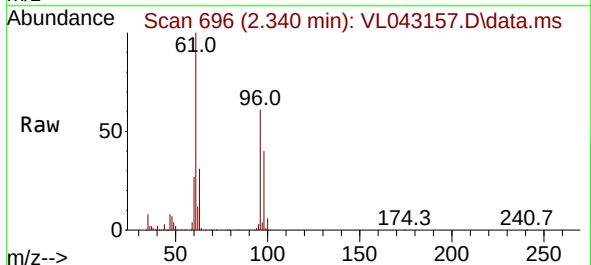
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01

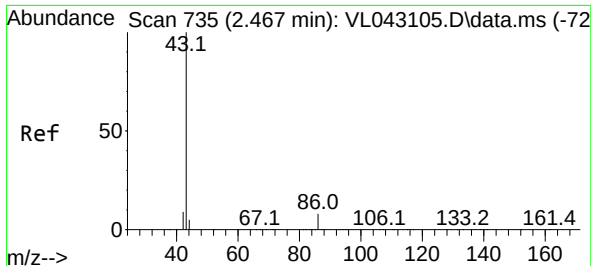
Tgt Ion: 41 Resp: 101879  
 Ion Ratio Lower Upper  
 41 100  
 76 30.0 21.5 32.3  
 39 81.2 60.8 91.2



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.665 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Tgt Ion: 96 Resp: 69305  
 Ion Ratio Lower Upper  
 96 100  
 61 164.1 137.0 205.6  
 98 66.3 45.5 68.3

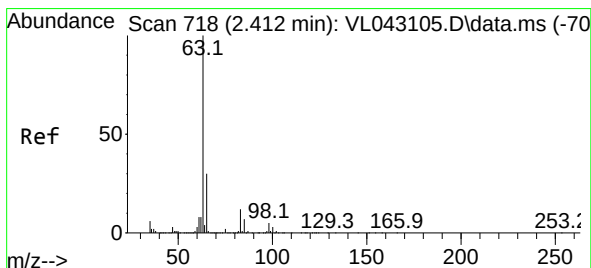
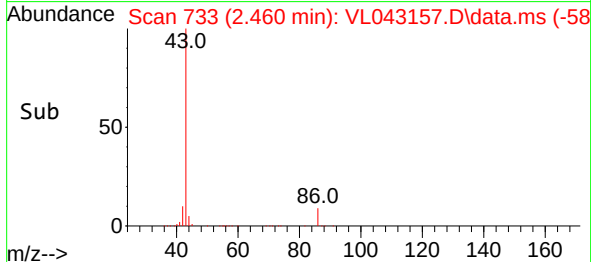
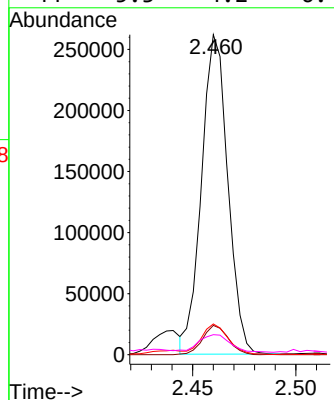
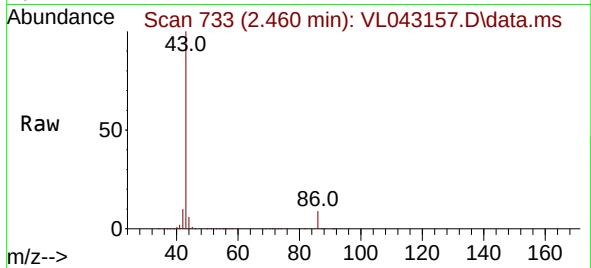




#23  
 Vinyl Acetate  
 Concen: 10.556 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. -0.007 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

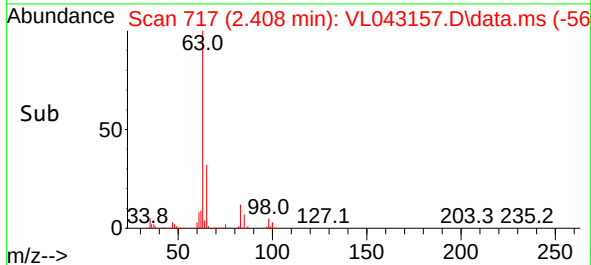
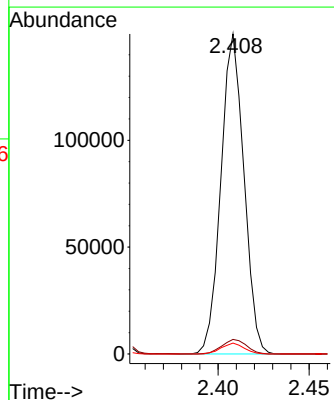
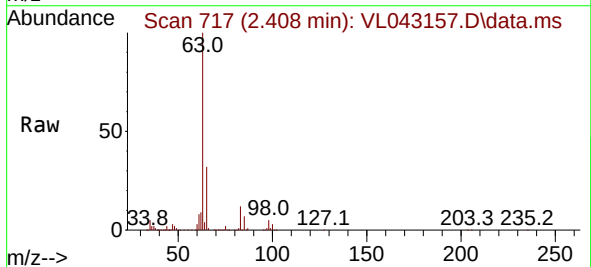
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01

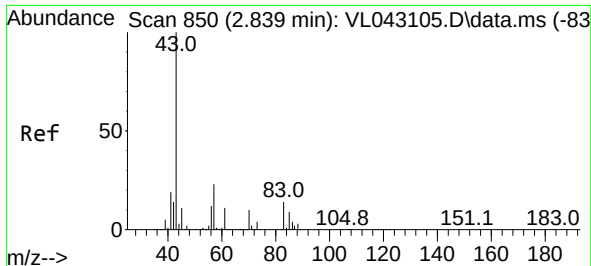
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 232125 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 86 9.2      | 6.2 9.2      |
| 42 9.5      | 7.6 11.4     |
| 44 5.3      | 4.2 6.4      |



#24  
 1,1-Dichloroethane  
 Concen: 10.482 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 131599 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 98 4.5      | 2.6 7.8      |
| 100 3.4     | 1.5 4.4      |



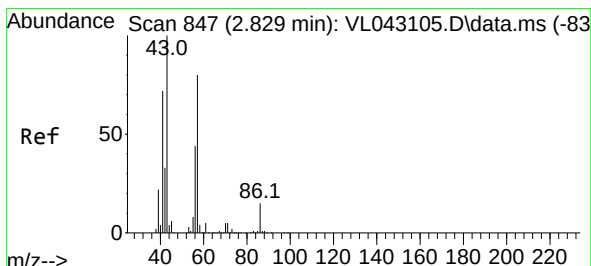
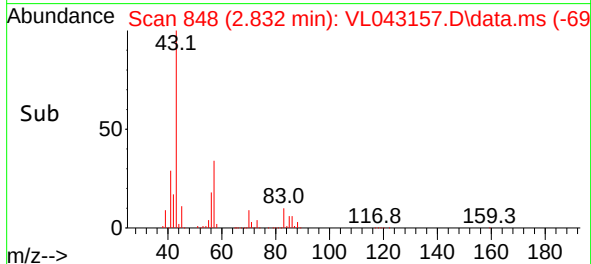
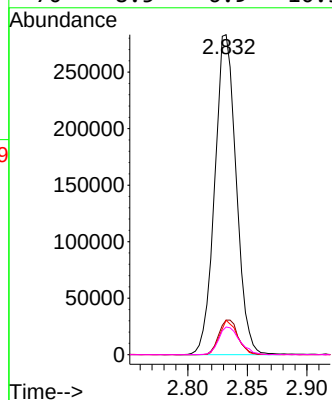
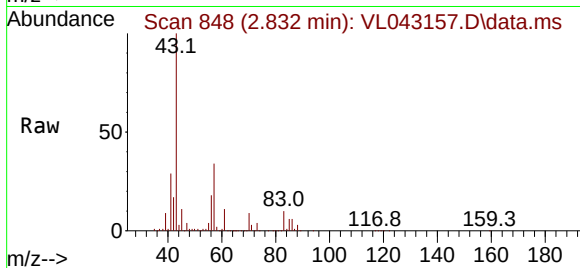


#25  
Ethyl Acetate  
Concen: 9.513 ppbv  
RT: 2.832 min Scan# 84  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 43 Resp: 354153

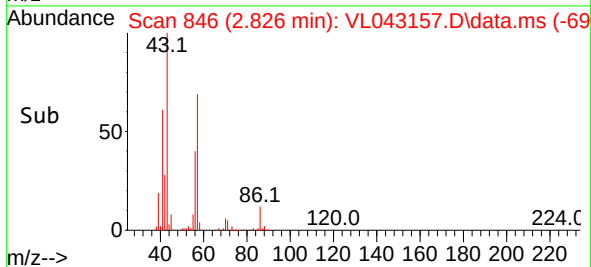
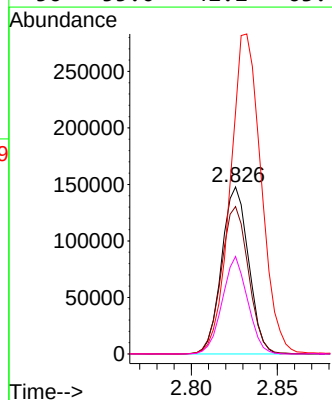
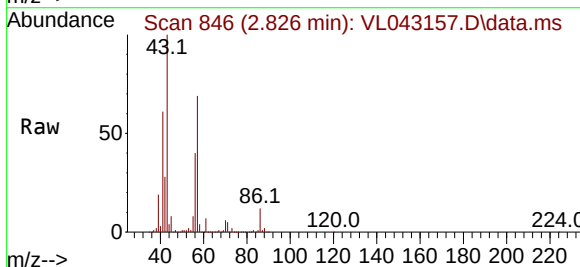
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.9   | 7.8   | 11.8  |
| 61  | 9.0   | 7.0   | 10.6  |
| 70  | 8.5   | 6.9   | 10.3  |



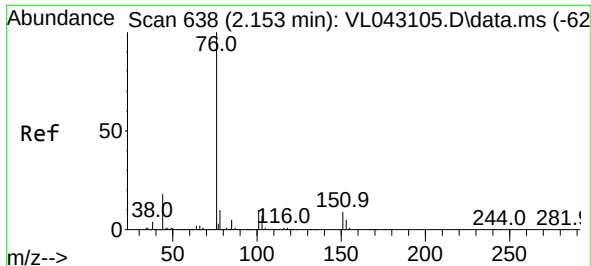
#26  
Hexane  
Concen: 9.387 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 57 Resp: 161029

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.3  | 71.4  | 107.0 |
| 43  | 220.2 | 178.5 | 267.7 |
| 56  | 55.0  | 42.2  | 63.4  |



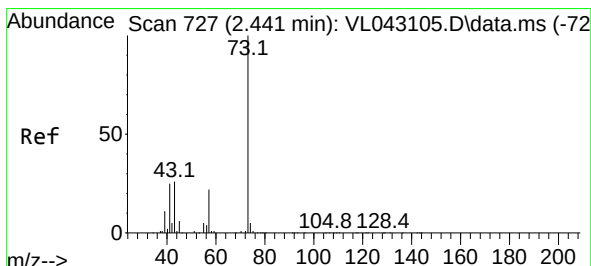
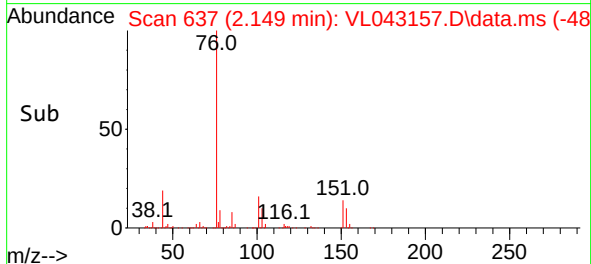
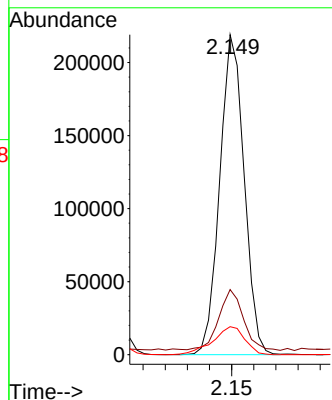
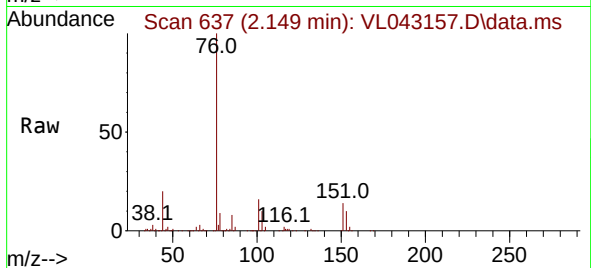




#27  
Carbon Disulfide  
Concen: 10.672 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

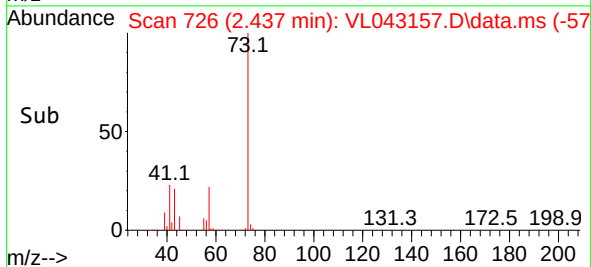
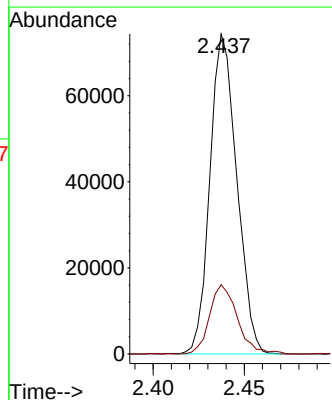
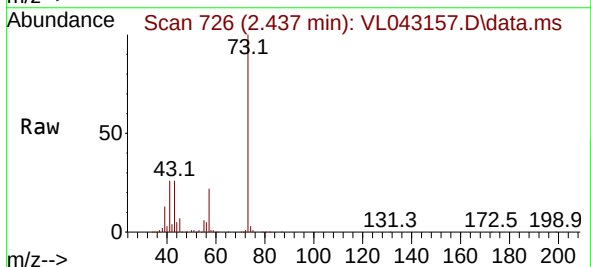
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

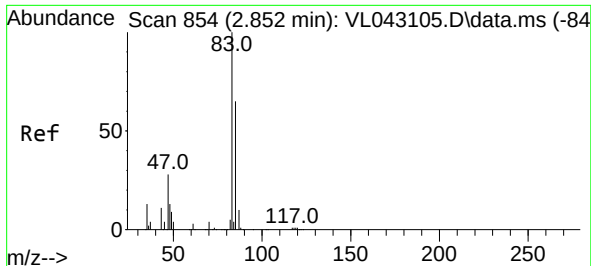
Tgt Ion: 76 Resp: 167737  
Ion Ratio Lower Upper  
76 100  
44 19.4 16.7 25.1  
78 11.4 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 9.775 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 73 Resp: 76290  
Ion Ratio Lower Upper  
73 100  
57 22.4 20.5 30.7





#29

Chloroform

Concen: 10.958 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

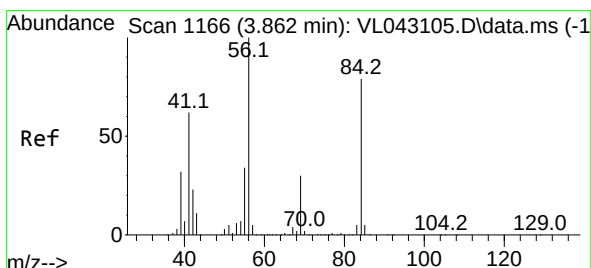
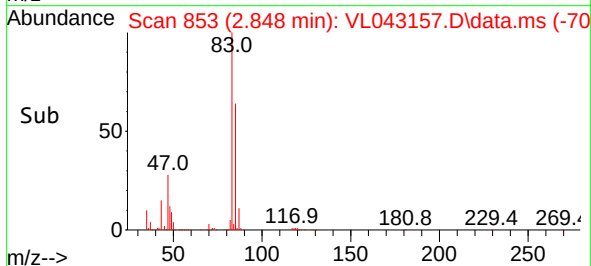
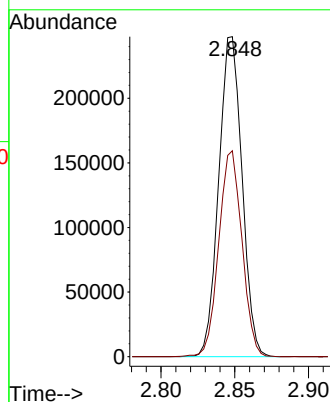
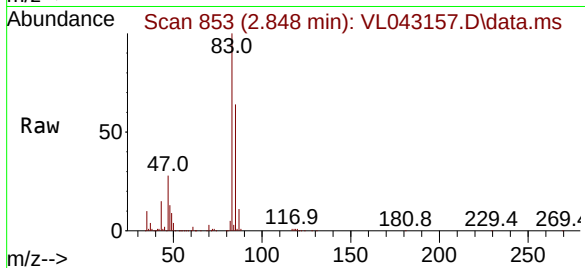
VL1106ABS01

Tgt Ion: 83 Resp: 272377

Ion Ratio Lower Upper

83 100

85 64.3 51.8 77.6



#30

Cyclohexane

Concen: 9.287 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

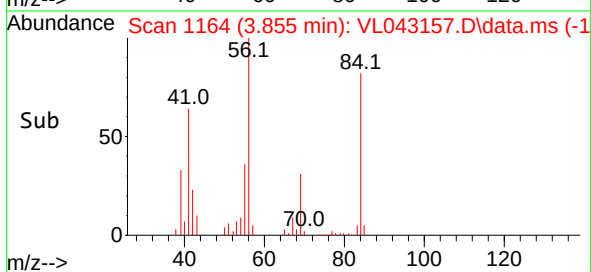
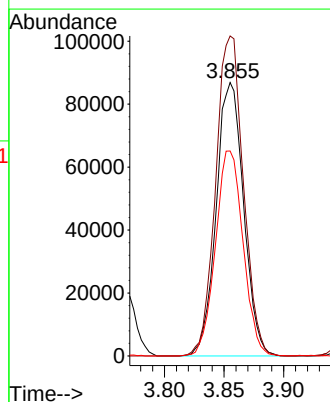
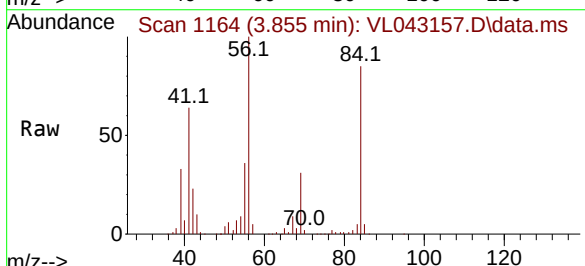
Tgt Ion: 84 Resp: 139050

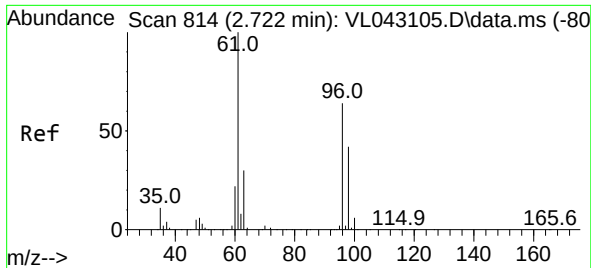
Ion Ratio Lower Upper

84 100

56 118.3 100.9 151.3

41 75.6 63.8 95.6

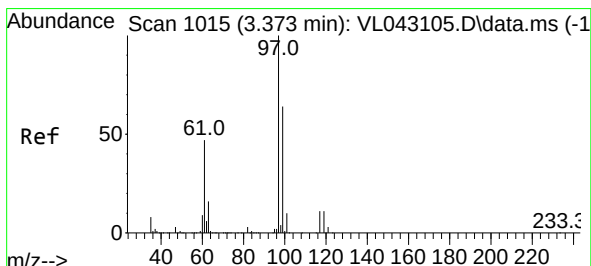
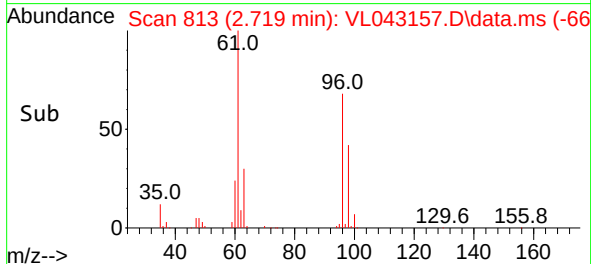
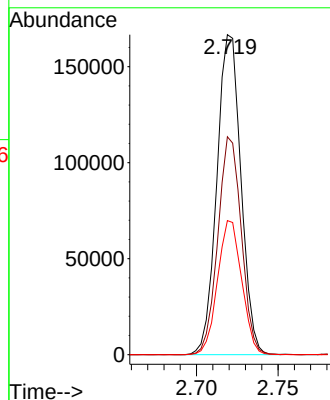
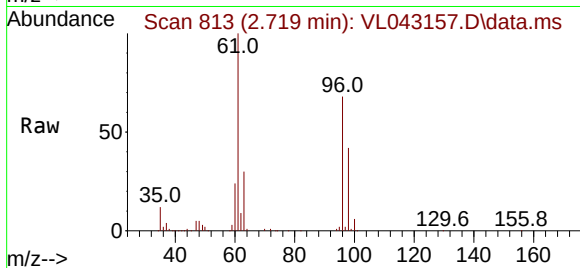




#31  
 cis-1,2-Dichloroethene  
 Concen: 10.456 ppbv  
 RT: 2.719 min Scan# 814  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

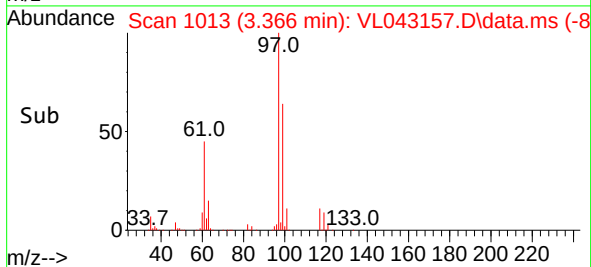
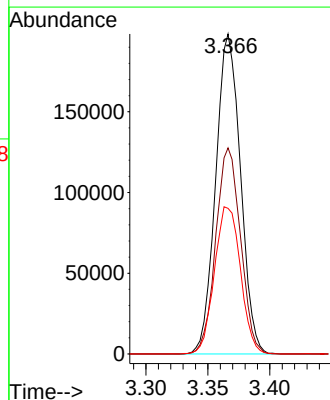
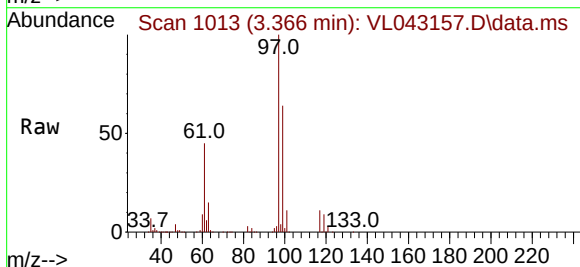
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01

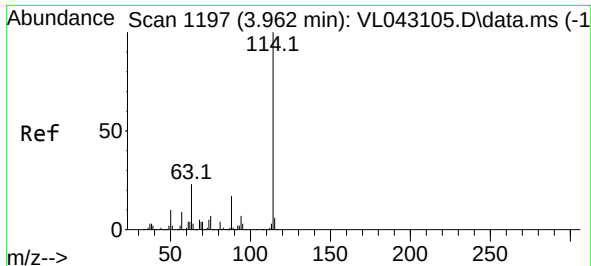
Tgt Ion: 61 Resp: 171275  
 Ion Ratio Lower Upper  
 61 100  
 96 68.1 51.0 76.6  
 98 41.9 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 10.684 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. -0.007 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Tgt Ion: 97 Resp: 276541  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.3 76.9  
 61 48.4 38.4 57.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

VL1106ABS01

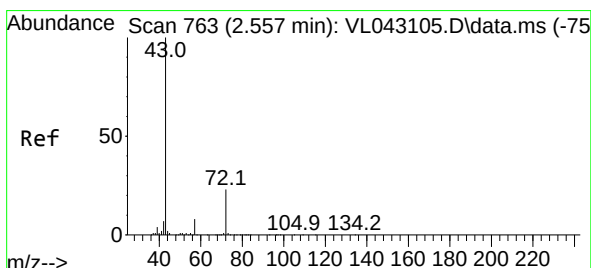
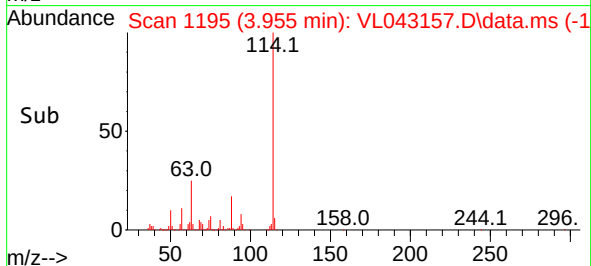
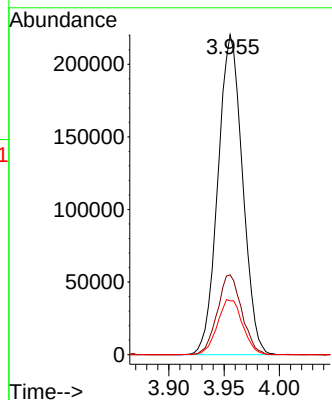
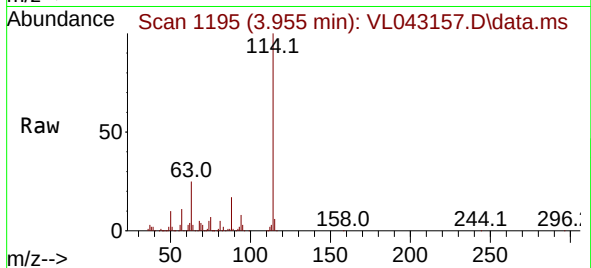
Tgt Ion:114 Resp: 340583

Ion Ratio Lower Upper

114 100

63 24.9 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 10.367 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.004 min

Lab File: VL043157.D

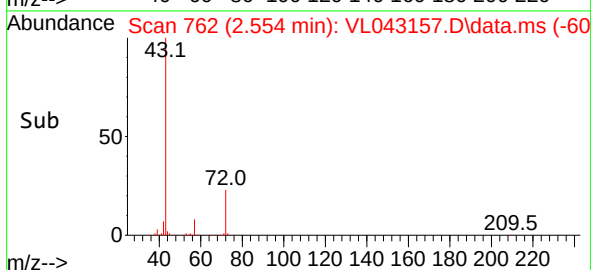
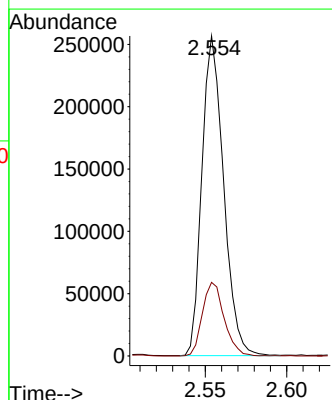
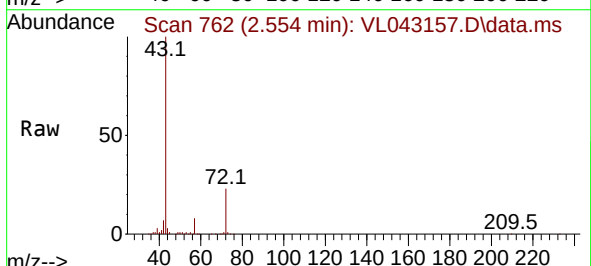
Acq: 06 Nov 2025 08:45

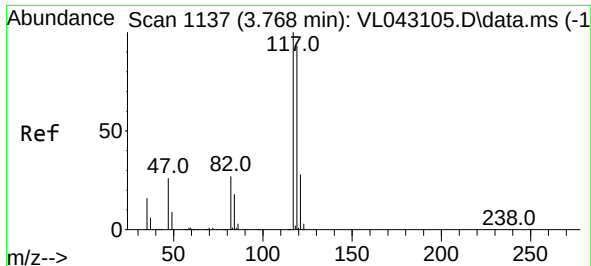
Tgt Ion: 43 Resp: 237347

Ion Ratio Lower Upper

43 100

72 23.2 18.4 27.6

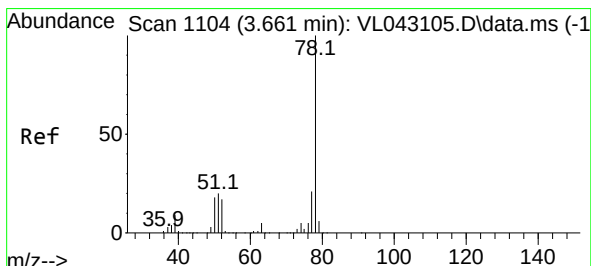
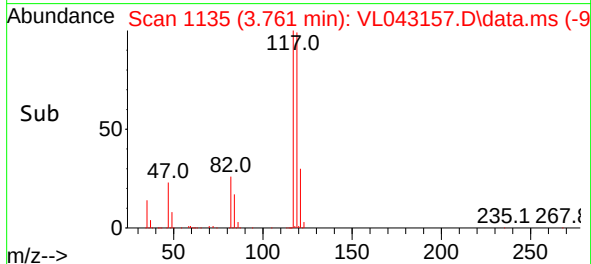
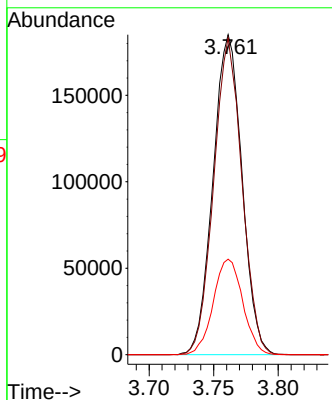
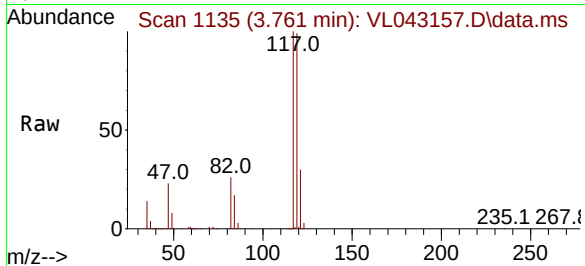




#35  
Carbon Tetrachloride  
Concen: 11.806 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

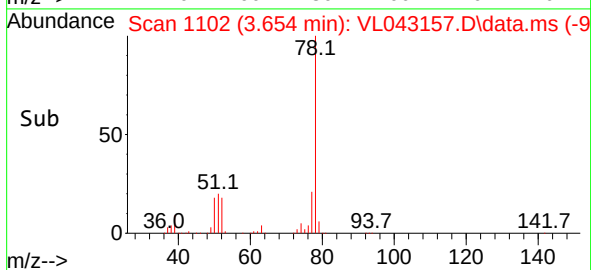
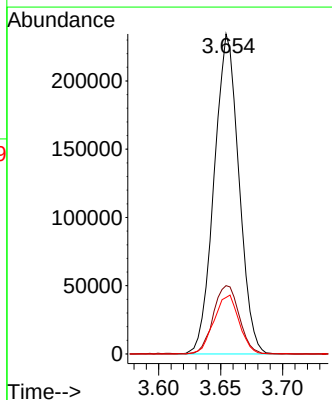
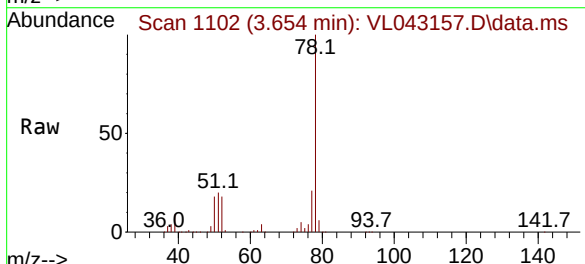
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

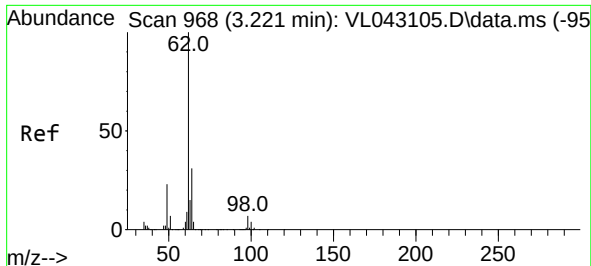
Tgt Ion:117 Resp: 289096  
Ion Ratio Lower Upper  
117 100  
119 98.9 74.1 111.1  
121 29.9 22.2 33.2



#36  
Benzene  
Concen: 10.193 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 78 Resp: 326982  
Ion Ratio Lower Upper  
78 100  
77 21.3 17.0 25.6  
50 17.6 14.6 22.0





#37

1,2-Dichloroethane

Concen: 11.281 ppbv

RT: 3.217 min Scan# 9

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

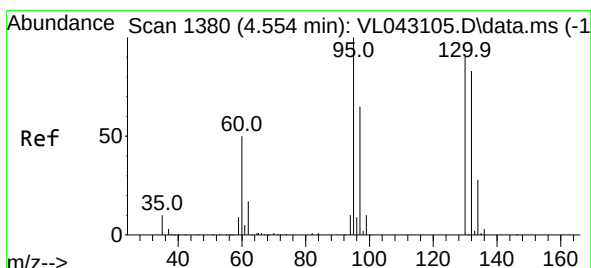
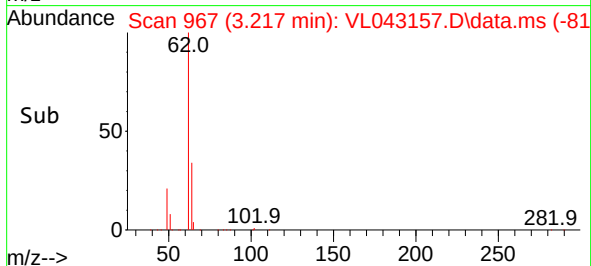
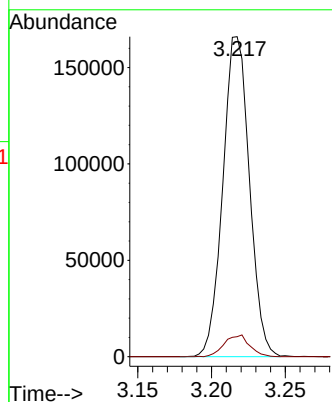
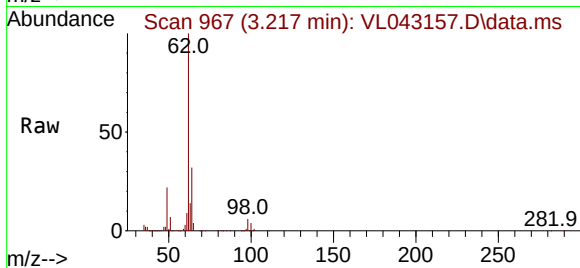
VL1106ABS01

Tgt Ion: 62 Resp: 208468

Ion Ratio Lower Upper

62 100

98 6.5 5.8 8.6



#38

Trichloroethene

Concen: 9.632 ppbv

RT: 4.544 min Scan# 1377

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion:130 Resp: 129044

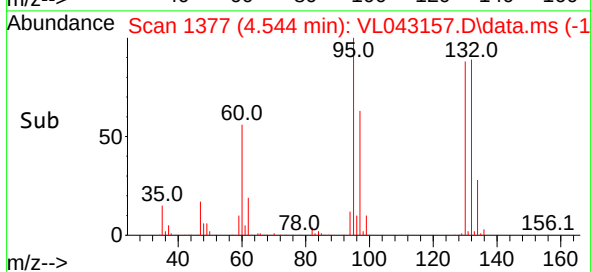
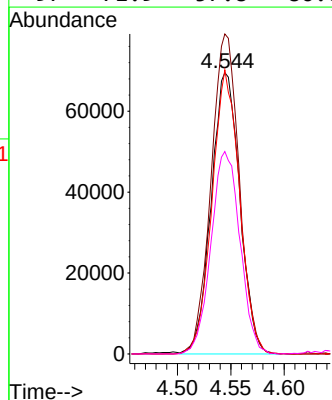
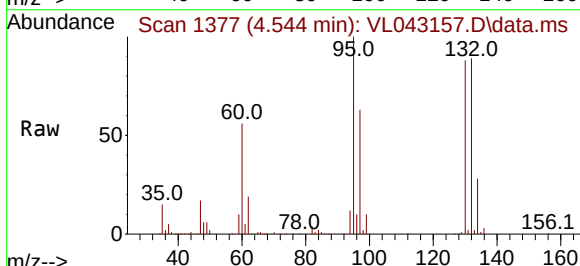
Ion Ratio Lower Upper

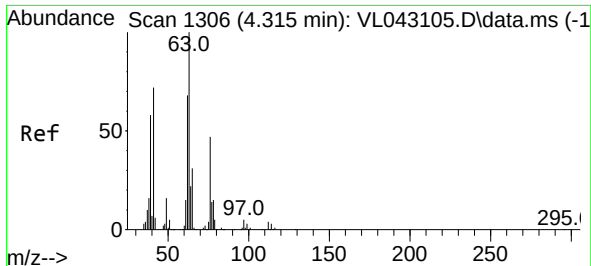
130 100

95 113.7 88.6 133.0

132 100.9 73.4 110.0

97 71.9 57.8 86.6





#39

1,2-Dichloropropane

Concen: 9.991 ppbv

RT: 4.308 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

VL1106ABS01

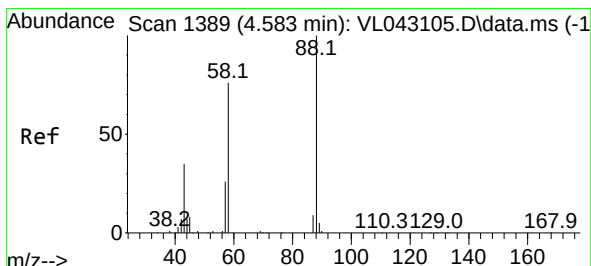
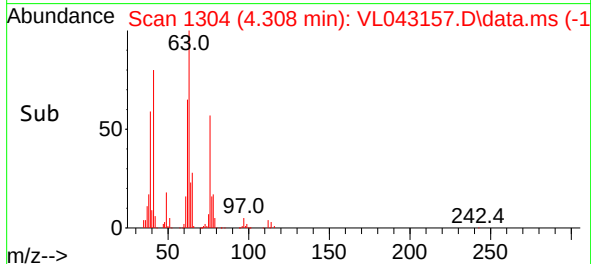
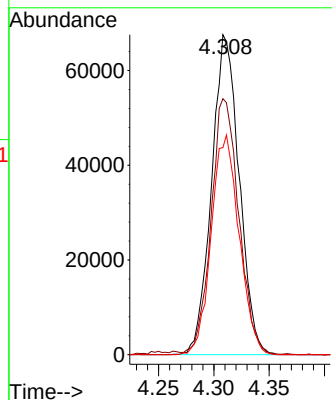
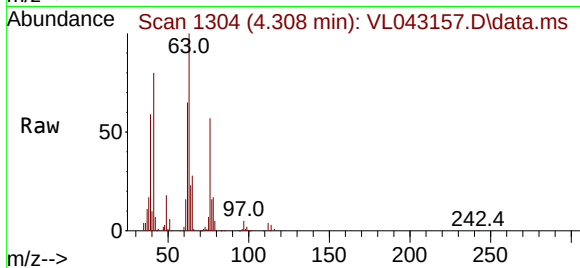
Tgt Ion: 63 Resp: 117166

Ion Ratio Lower Upper

63 100

41 79.8 58.0 87.0

62 64.7 54.7 82.1



#40

1,4-Dioxane

Concen: 9.428 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Tgt Ion: 88 Resp: 49474

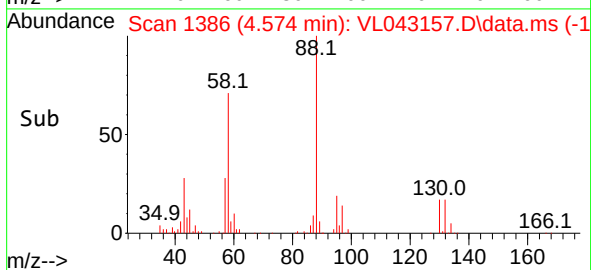
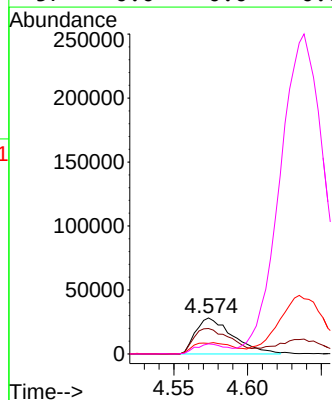
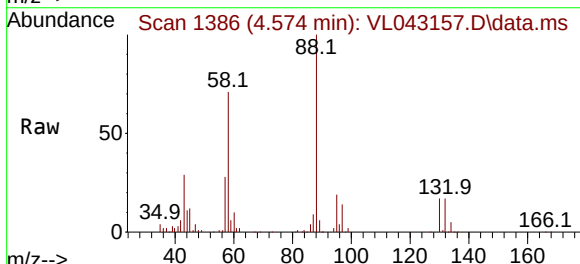
Ion Ratio Lower Upper

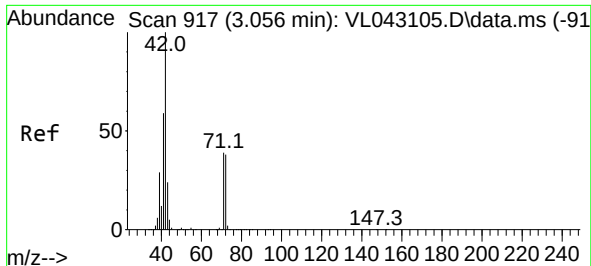
88 100

58 74.4 61.1 91.7

43 35.1 24.0 36.0

57 0.0 0.0 0.0

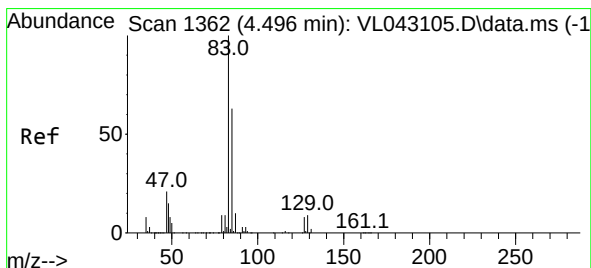
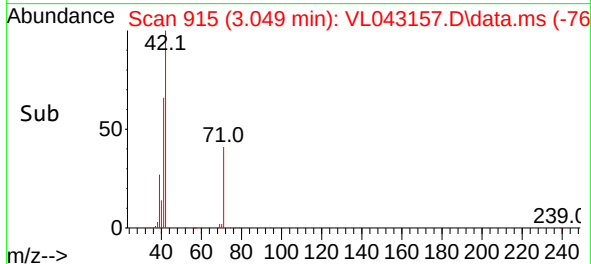
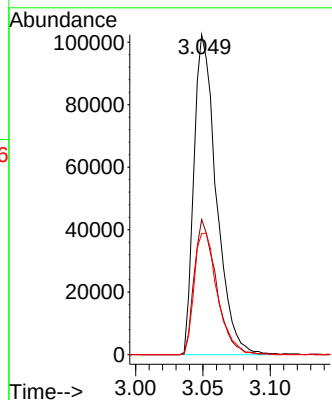
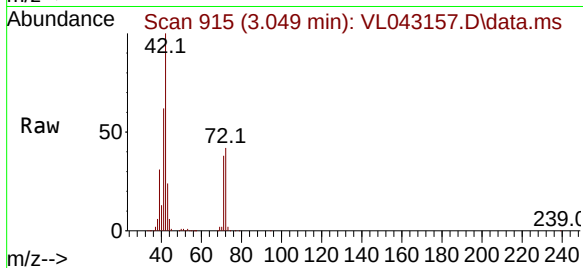




#41  
Tetrahydrofuran  
Concen: 9.265 ppbv  
RT: 3.049 min Scan# 915  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

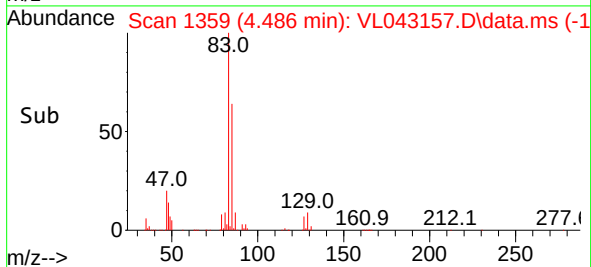
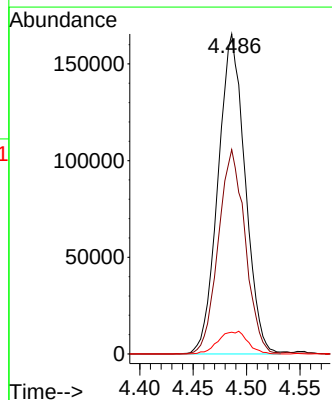
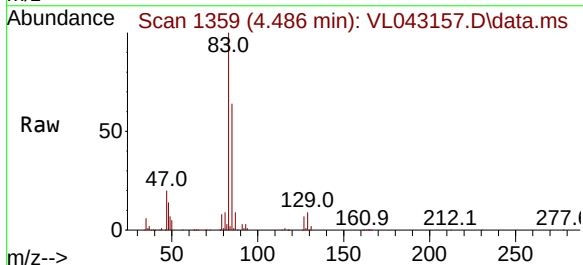
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

Tgt Ion: 42 Resp: 118637  
Ion Ratio Lower Upper  
42 100  
72 41.6 31.3 46.9  
71 39.6 30.4 45.6

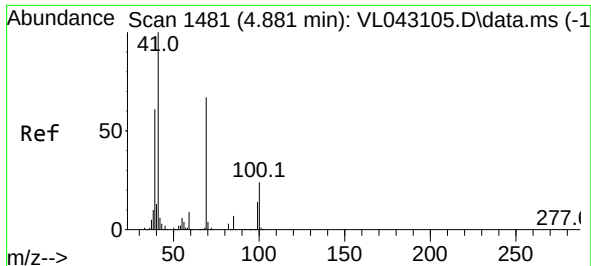


#42  
Bromodichloromethane  
Concen: 11.387 ppbv  
RT: 4.486 min Scan# 1359  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 83 Resp: 291226  
Ion Ratio Lower Upper  
83 100  
85 63.8 50.6 75.8  
127 6.8 6.3 9.5



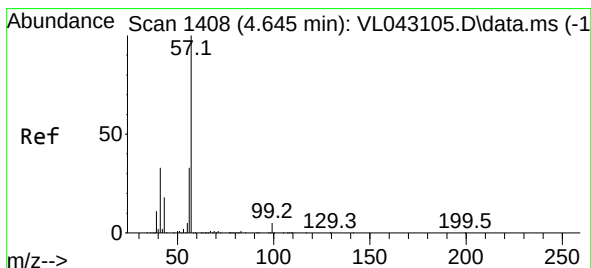
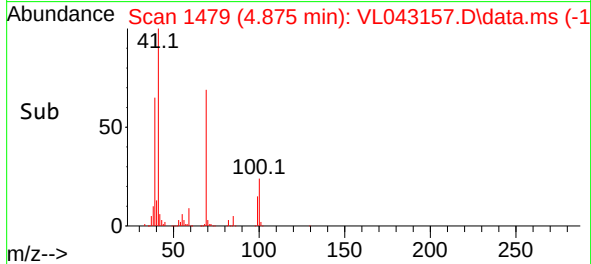
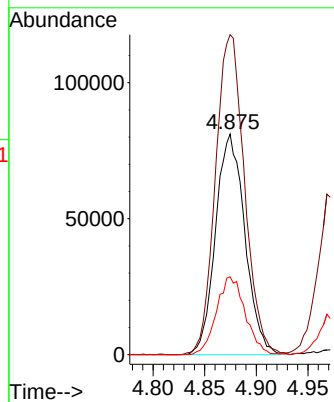
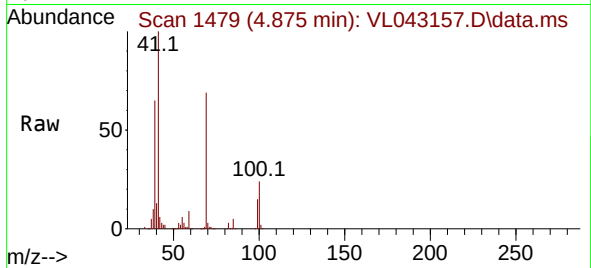




#43  
Methyl Methacrylate  
Concen: 9.821 ppbv  
RT: 4.875 min Scan# 1479  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

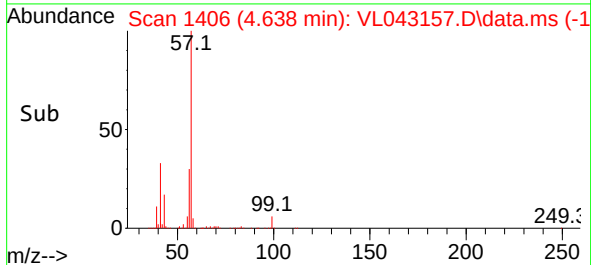
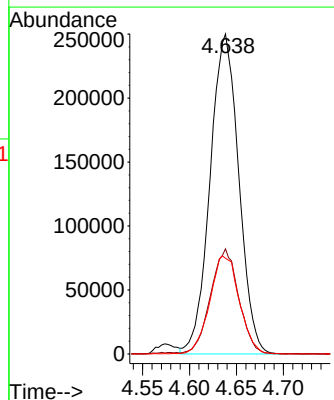
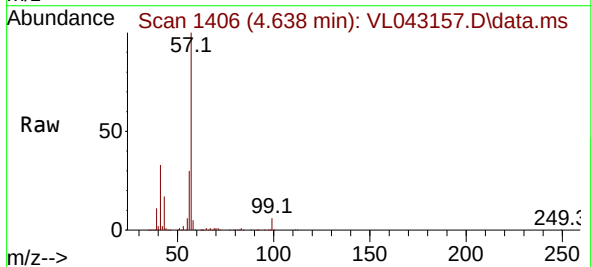
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

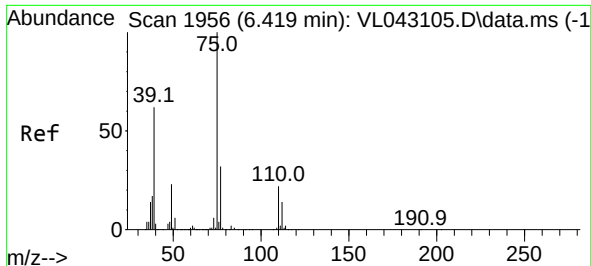
Tgt Ion: 69 Resp: 160012  
Ion Ratio Lower Upper  
69 100  
41 143.7 120.5 180.7  
100 34.6 29.0 43.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.828 ppbv  
RT: 4.638 min Scan# 1406  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 57 Resp: 531922  
Ion Ratio Lower Upper  
57 100  
41 32.6 26.3 39.5  
56 31.6 25.9 38.9

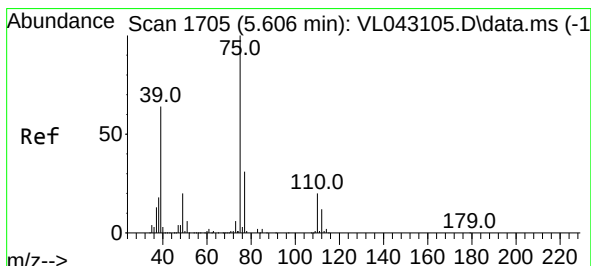
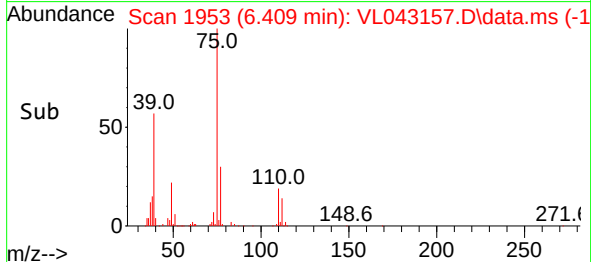
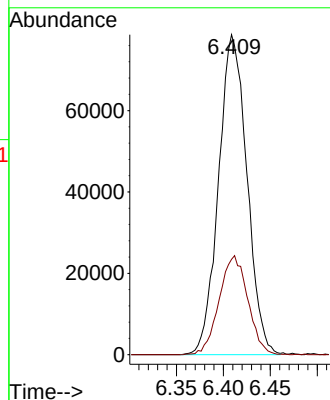
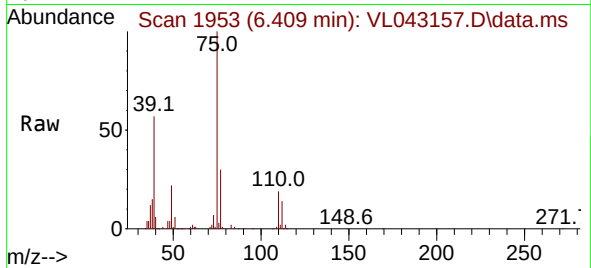




#45  
t-1,3-Dichloropropene  
Concen: 10.111 ppbv  
RT: 6.409 min Scan# 1953  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

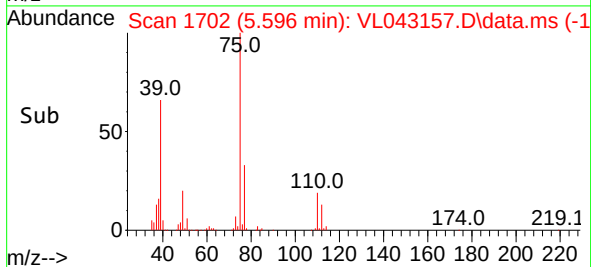
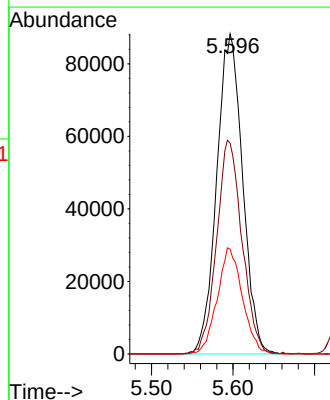
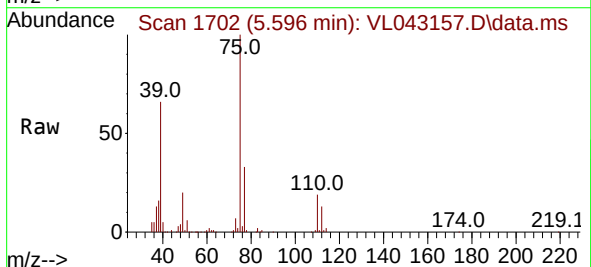
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

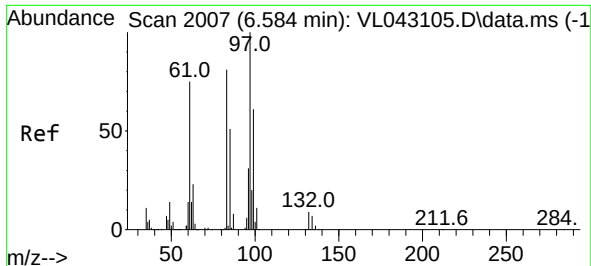
Tgt Ion: 75 Resp: 165316  
Ion Ratio Lower Upper  
75 100  
77 29.8 25.4 38.2



#46  
cis-1,3-Dichloropropene  
Concen: 10.001 ppbv  
RT: 5.596 min Scan# 1702  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 75 Resp: 195336  
Ion Ratio Lower Upper  
75 100  
39 65.7 51.0 76.6  
77 32.7 25.0 37.4

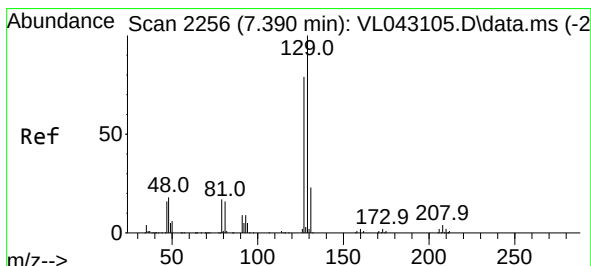
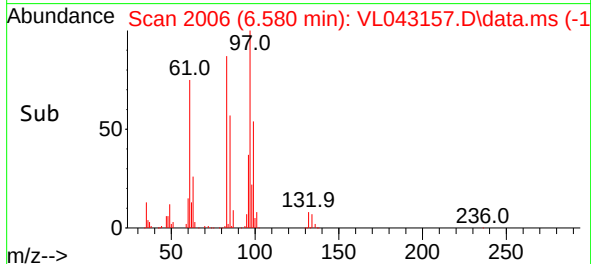
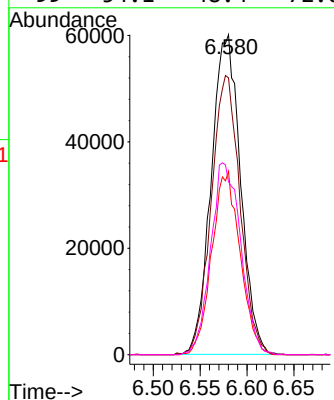
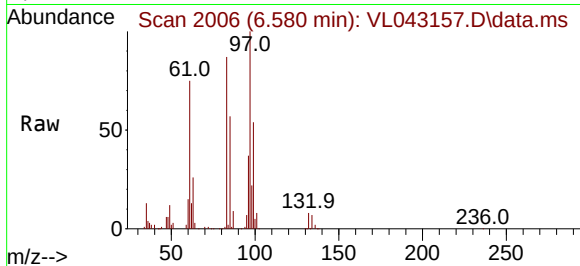




#47  
1,1,2-Trichloroethane  
Concen: 10.270 ppbv  
RT: 6.580 min Scan# 2007  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

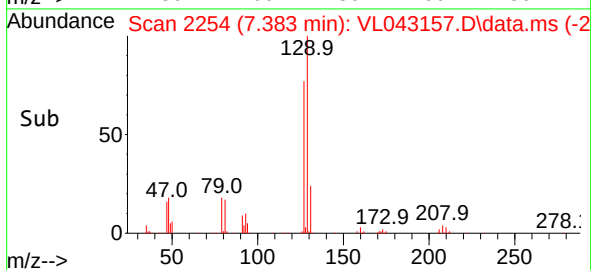
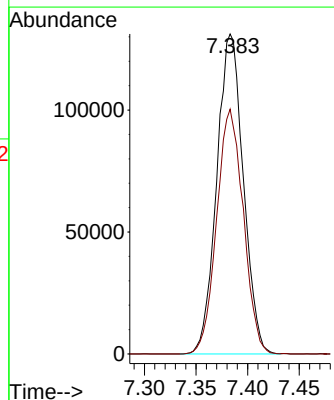
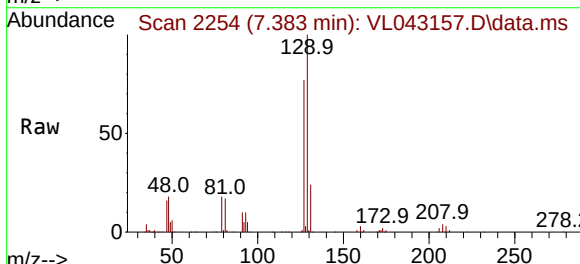
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

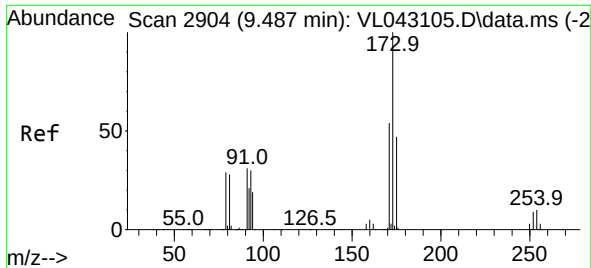
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 130064 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 86.4     | 64.6 96.8    |
| 85 57.4     | 40.6 60.8    |
| 99 54.1     | 48.4 72.6    |



#48  
Dibromochloromethane  
Concen: 11.091 ppbv  
RT: 7.383 min Scan# 2254  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

|             |              |
|-------------|--------------|
| Tgt Ion:129 | Resp: 234841 |
| Ion Ratio   | Lower Upper  |
| 129 100     |              |
| 127 76.8    | 39.3 117.9   |

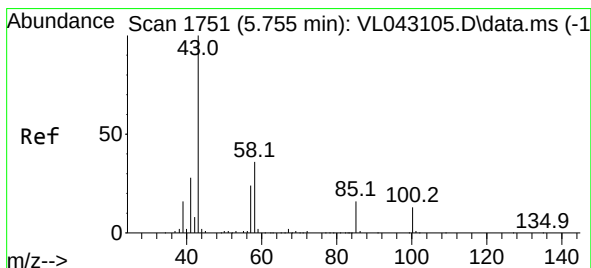
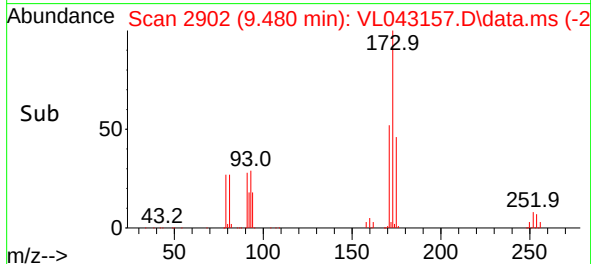
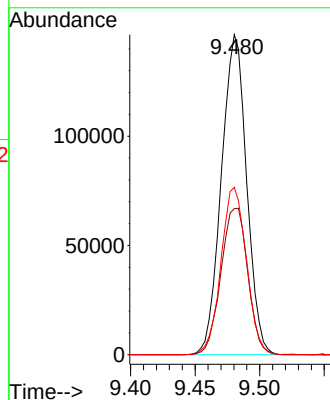
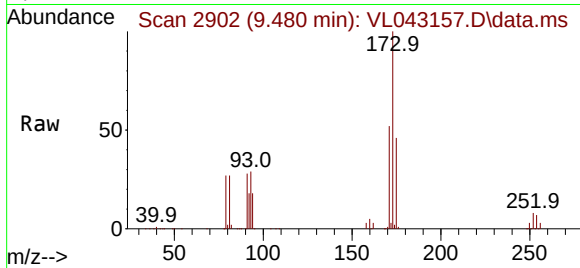




#49  
Bromoform  
Concen: 11.573 ppbv  
RT: 9.480 min Scan# 2904  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

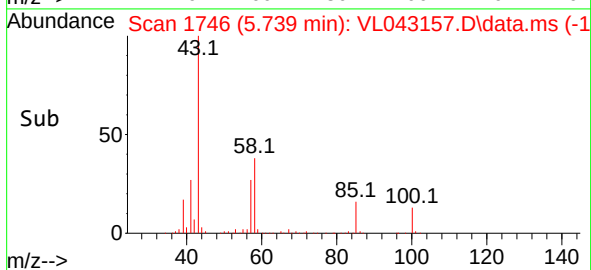
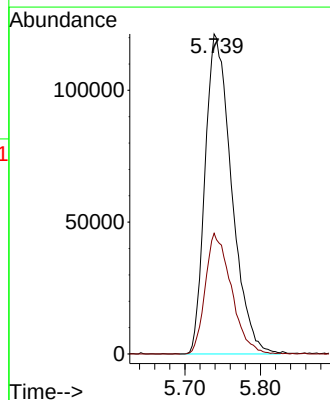
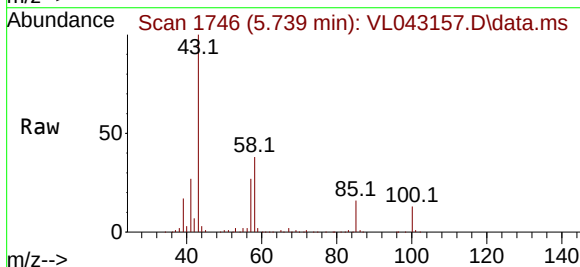
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

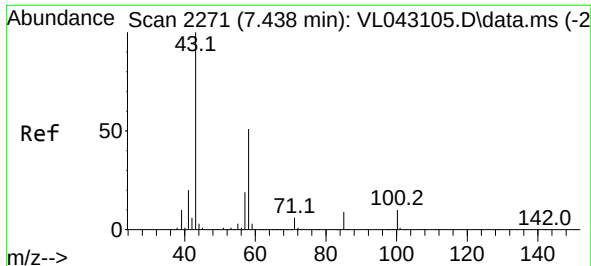
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.7  | 38.8  | 58.2  |
| 171     | 52.7  | 41.7  | 62.5  |



#50  
4-Methyl-2-Pentanone  
Concen: 9.361 ppbv  
RT: 5.739 min Scan# 1746  
Delta R.T. -0.016 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 36.9  | 29.1  | 43.7  |

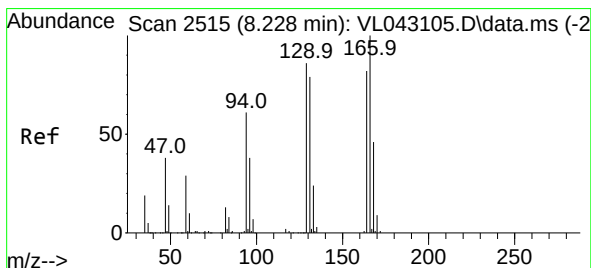
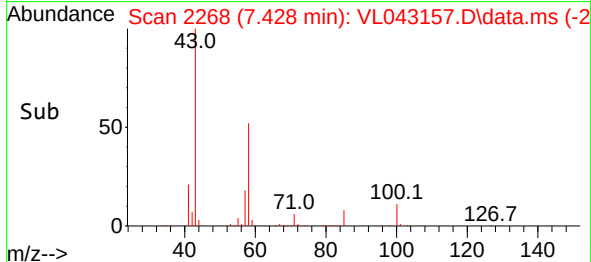
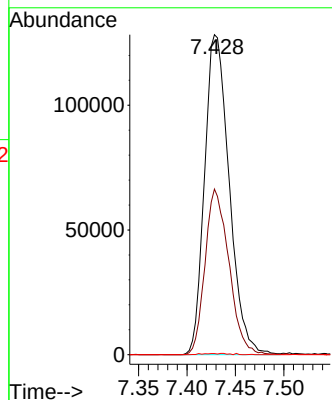
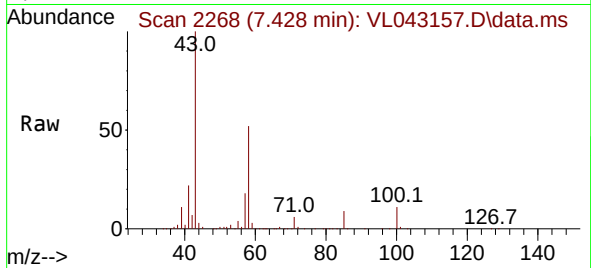




#51  
2-Hexanone  
Concen: 9.599 ppbv  
RT: 7.428 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

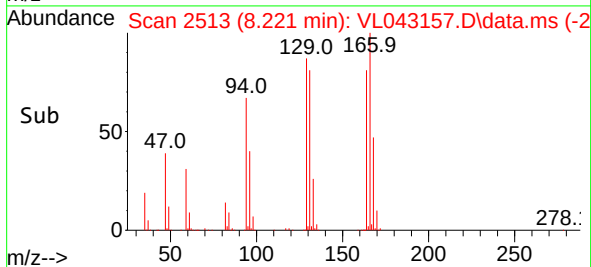
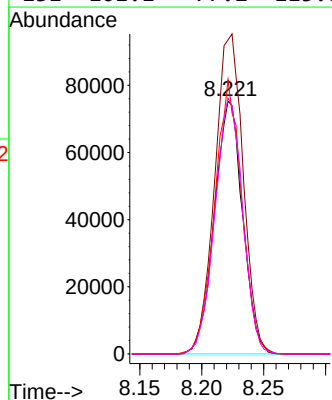
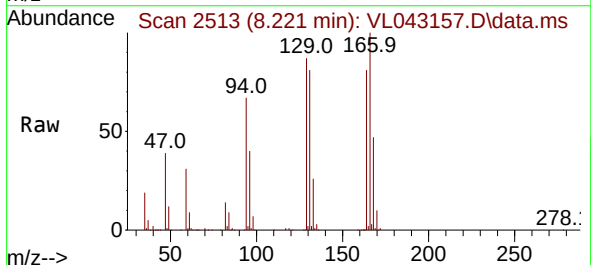
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

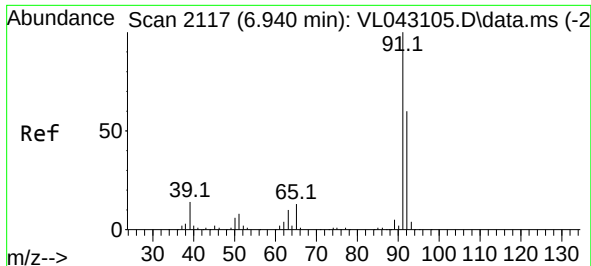
Tgt Ion: 43 Resp: 227473  
Ion Ratio Lower Upper  
43 100  
58 50.1 40.4 60.6  
98 0.4 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 10.312 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 164 Resp: 119279  
Ion Ratio Lower Upper  
164 100  
166 124.1 97.6 146.4  
129 108.3 84.5 126.7  
131 101.1 77.2 115.8

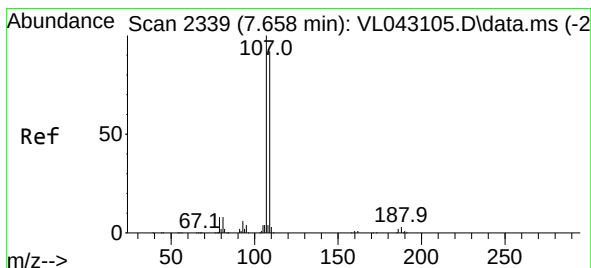
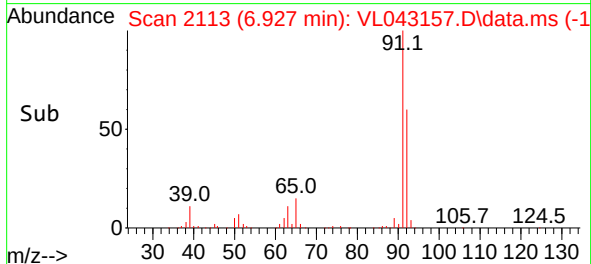
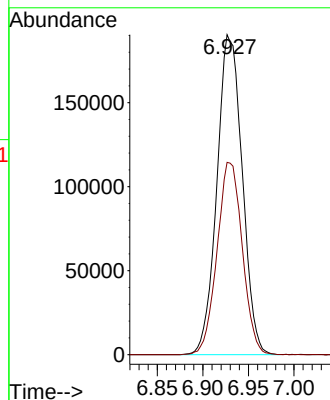
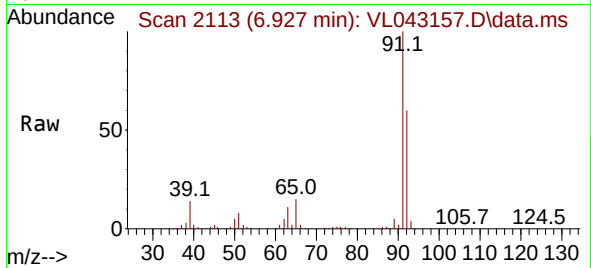




#53  
Toluene  
Concen: 9.679 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.013 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

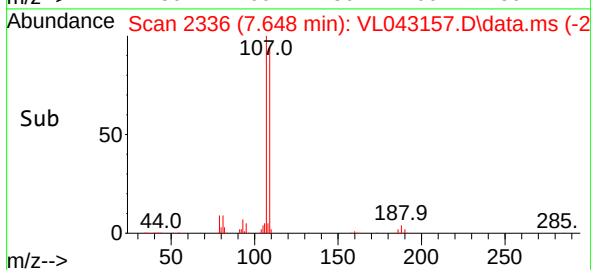
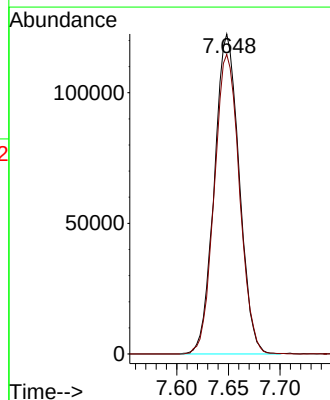
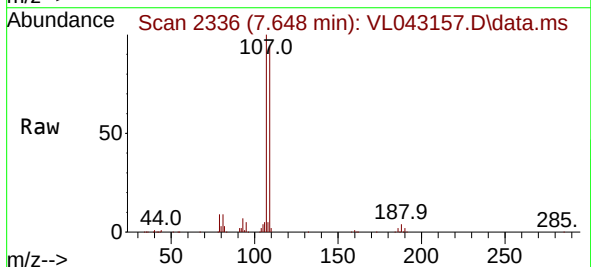
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

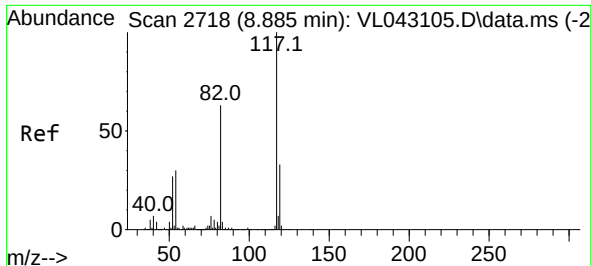
Tgt Ion: 91 Resp: 368487  
Ion Ratio Lower Upper  
91 100  
92 59.9 48.8 73.2



#54  
1,2-Dibromoethane  
Concen: 10.345 ppbv  
RT: 7.648 min Scan# 2336  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 107 Resp: 205210  
Ion Ratio Lower Upper  
107 100  
109 93.6 73.4 110.2

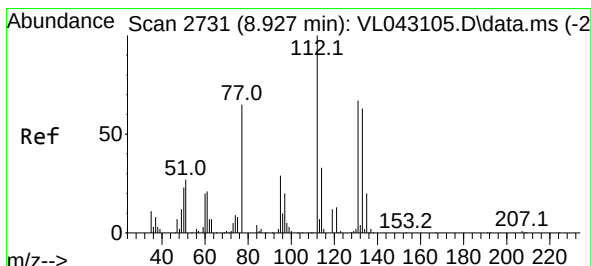
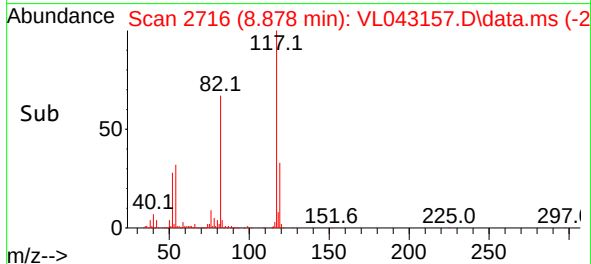
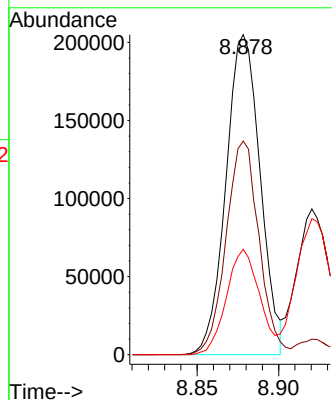
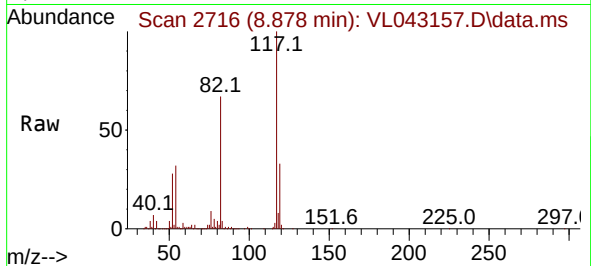




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2117  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

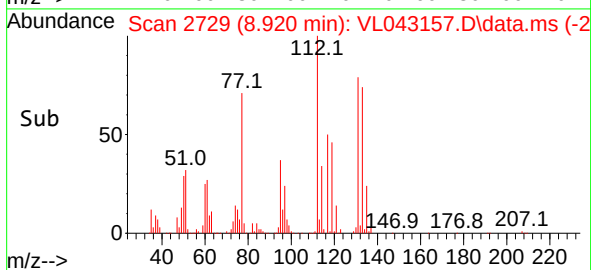
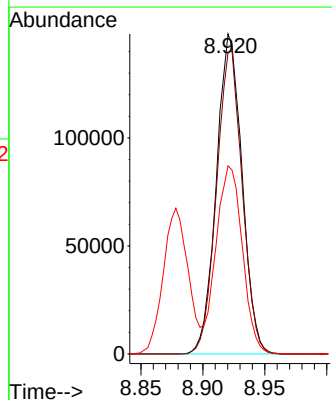
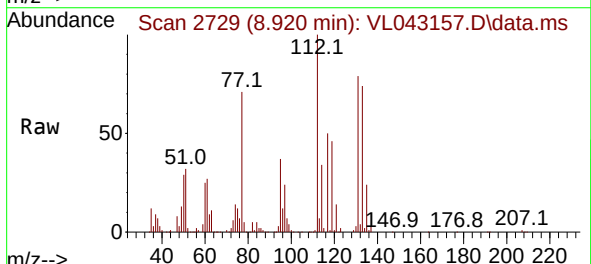
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

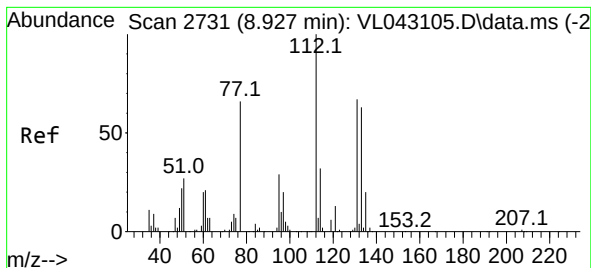
Tgt Ion:117 Resp: 299526  
Ion Ratio Lower Upper  
117 100  
82 68.6 53.8 80.8  
119 30.9 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.314 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:131 Resp: 213620  
Ion Ratio Lower Upper  
131 100  
133 95.0 75.7 113.5  
119 60.9 50.6 76.0





#57

Chlorobenzene

Concen: 10.219 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

VL1106ABS01

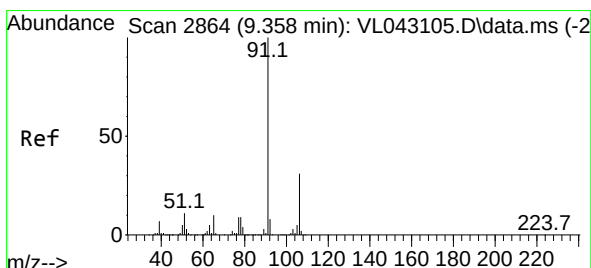
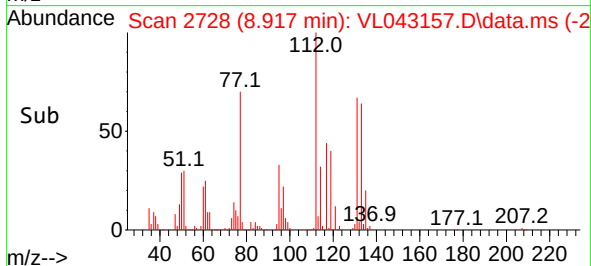
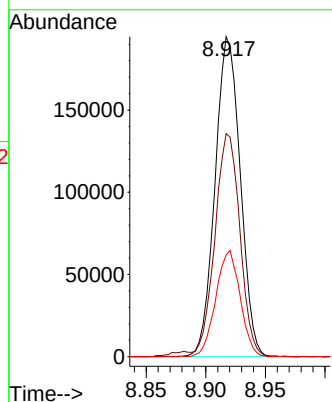
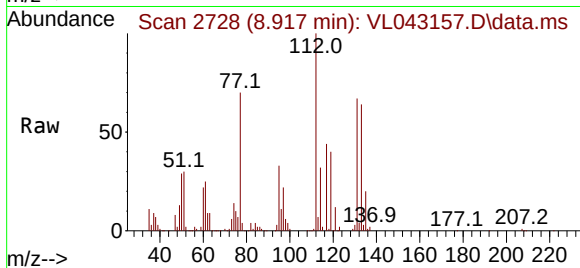
Tgt Ion:112 Resp: 286347

Ion Ratio Lower Upper

112 100

77 69.7 53.3 79.9

114 31.7 29.3 35.8



#58

Ethyl Benzene

Concen: 10.307 ppbv

RT: 9.351 min Scan# 2862

Delta R.T. -0.007 min

Lab File: VL043157.D

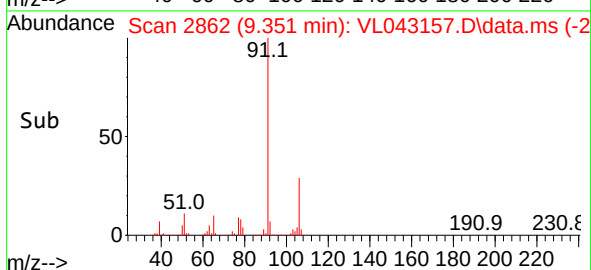
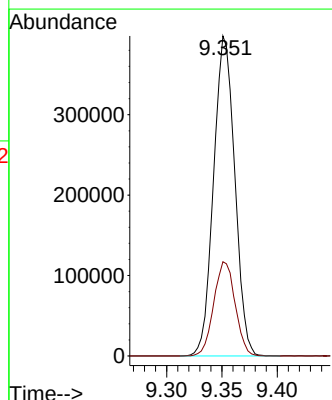
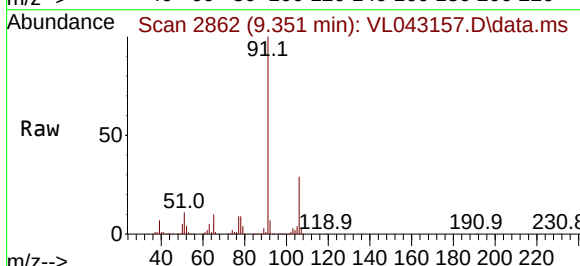
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 529847

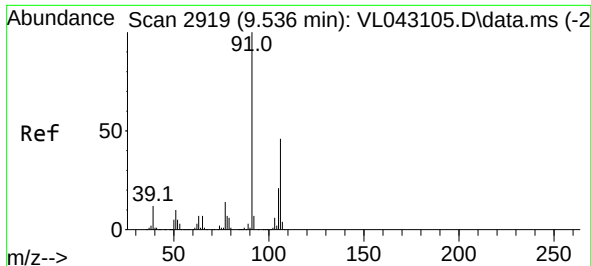
Ion Ratio Lower Upper

91 100

106 29.4 24.8 37.2







#59

m/p-Xylene

Concen: 10.774 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.004 min

Lab File: VL043157.D

Acq: 06 Nov 2025 08:45

Instrument :

MSVOA\_1

ClientSampleId :

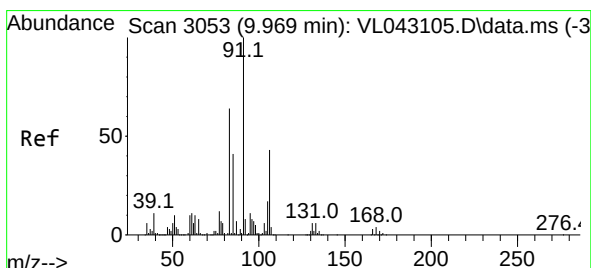
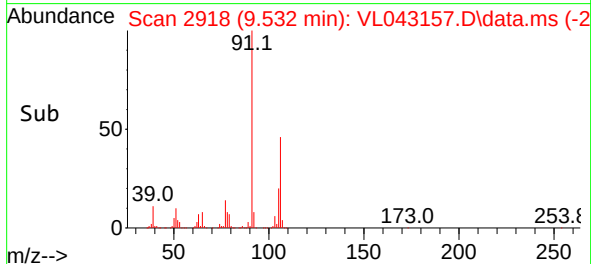
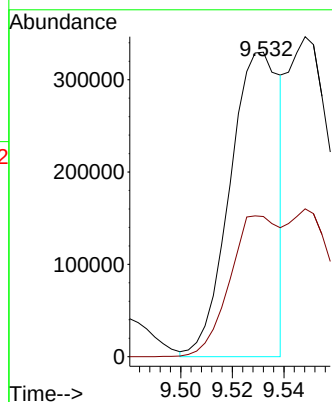
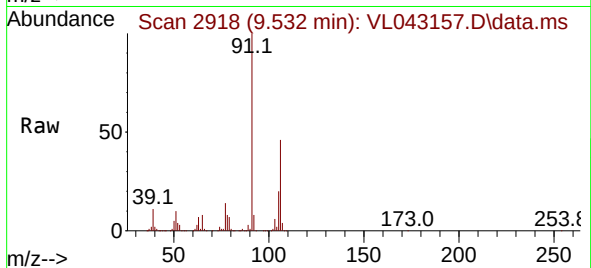
VL1106ABS01

Tgt Ion: 91 Resp: 441757

Ion Ratio Lower Upper

91 100

106 0.0 38.0 57.0#



#60

o-Xylene

Concen: 10.442 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.007 min

Lab File: VL043157.D

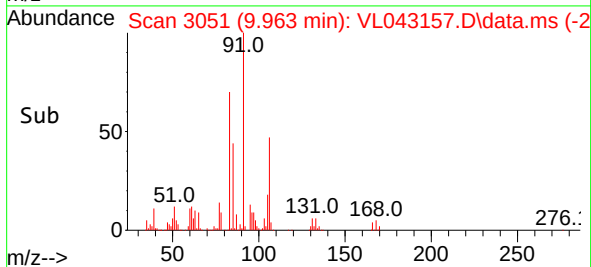
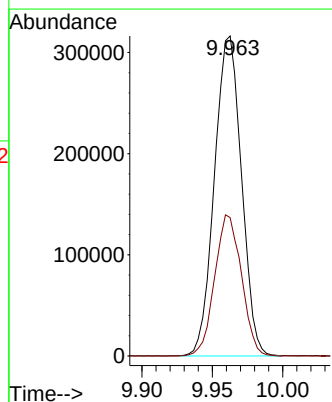
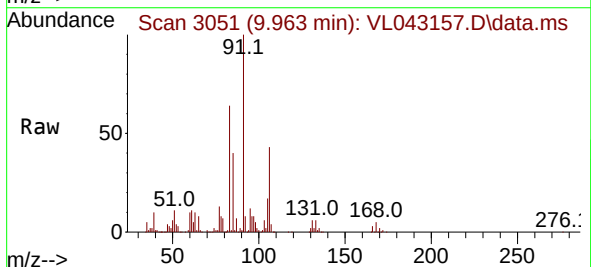
Acq: 06 Nov 2025 08:45

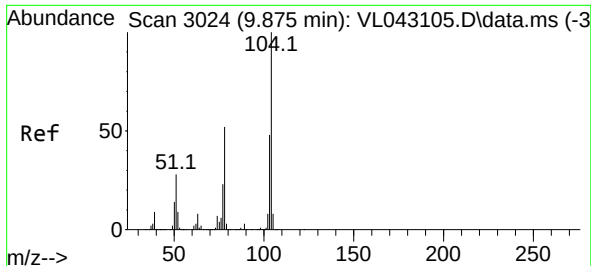
Tgt Ion: 91 Resp: 422838

Ion Ratio Lower Upper

91 100

106 43.6 21.9 65.8

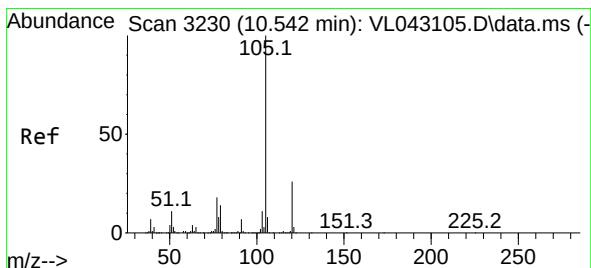
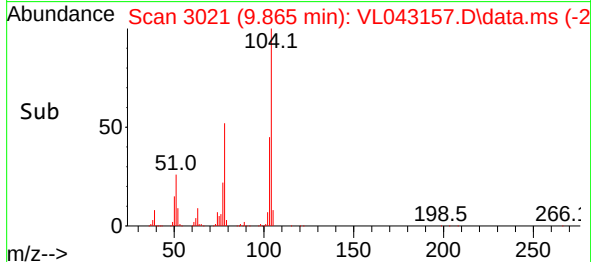
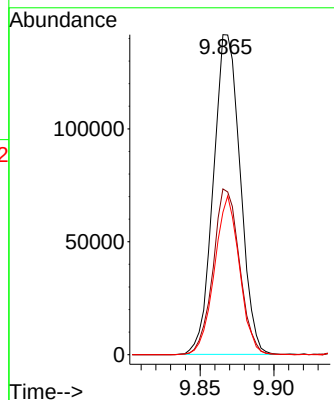
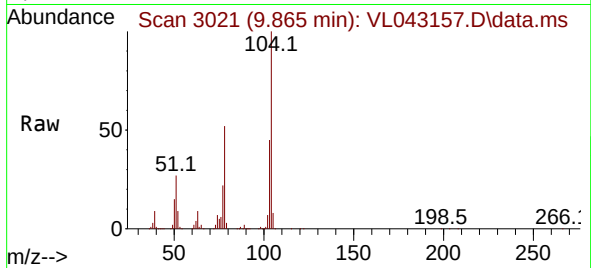




#61  
Styrene  
Concen: 9.802 ppbv  
RT: 9.865 min Scan# 3024  
Delta R.T. -0.010 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

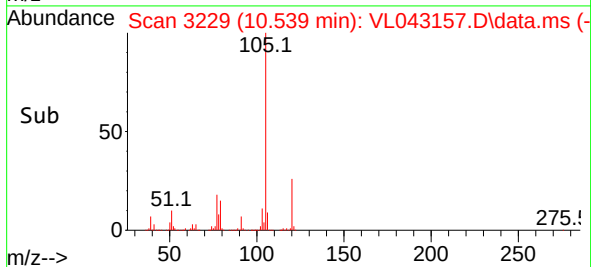
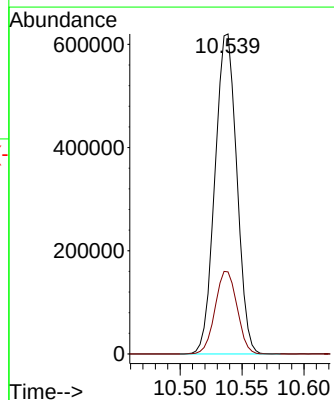
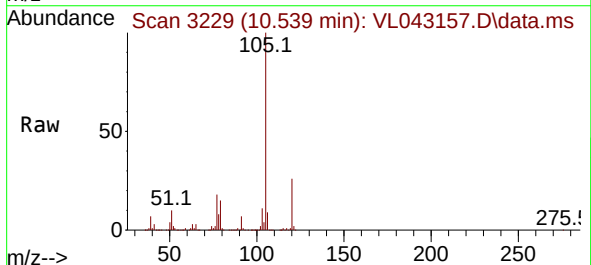
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1106ABS01

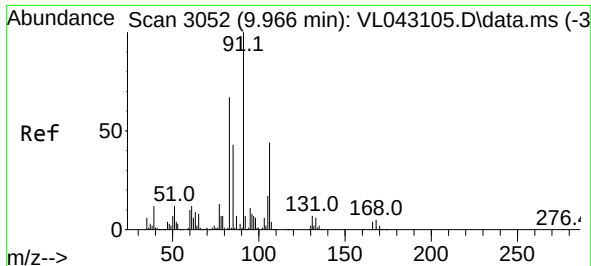
Tgt Ion:104 Resp: 179195  
Ion Ratio Lower Upper  
104 100  
78 51.2 40.2 60.2  
103 46.3 36.9 55.3



#62  
Isopropylbenzene  
Concen: 10.416 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 762154  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.2 30.4

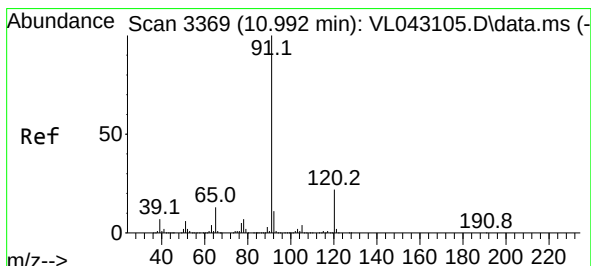
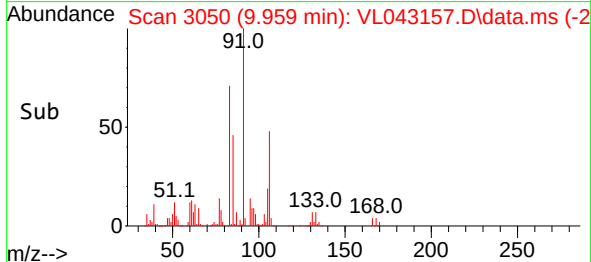
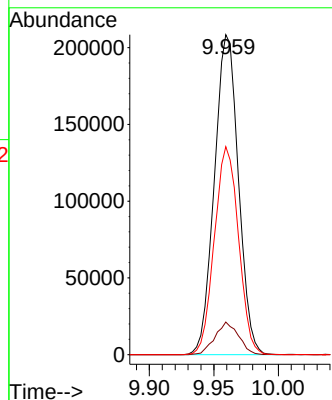
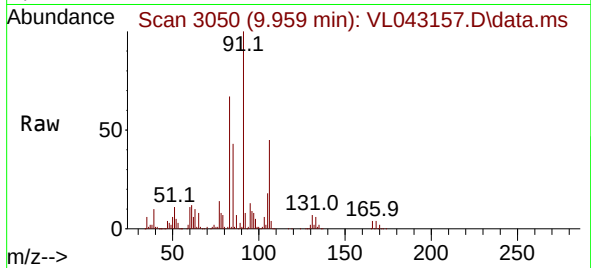




#63  
1,1,2-Tetrachloroethane  
Concen: 9.947 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

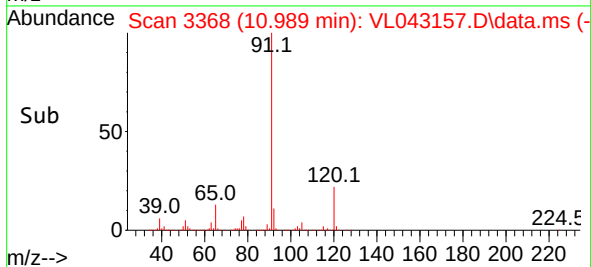
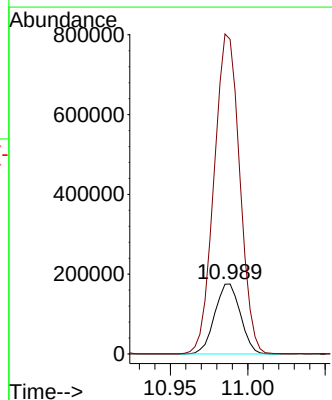
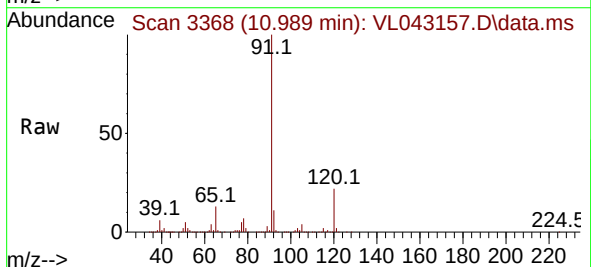
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

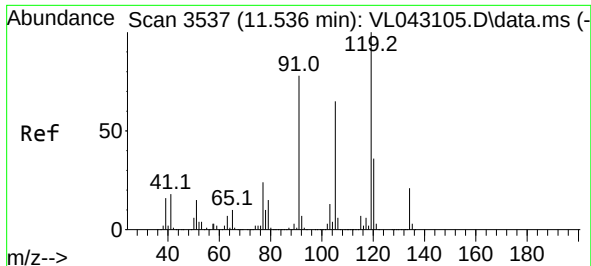
Tgt Ion: 83 Resp: 269723  
Ion Ratio Lower Upper  
83 100  
131 10.0 4.8 14.3  
85 65.2 32.0 96.0



#64  
n-propylbenzene  
Concen: 10.424 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 120 Resp: 201938  
Ion Ratio Lower Upper  
120 100  
91 458.0 361.6 542.4

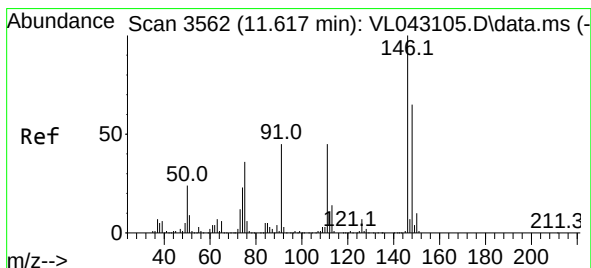
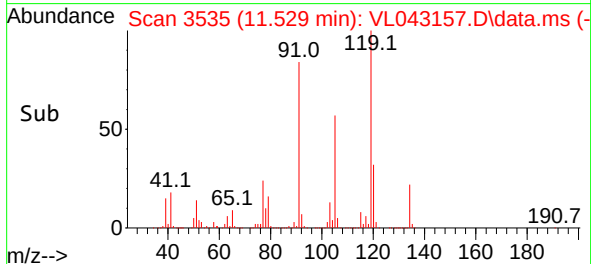
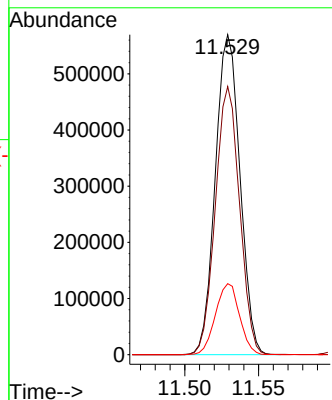
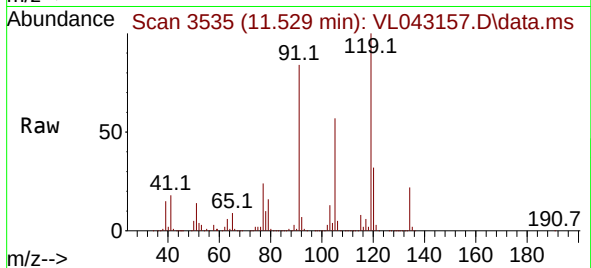




#65  
tert-Butylbenzene  
Concen: 10.254 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

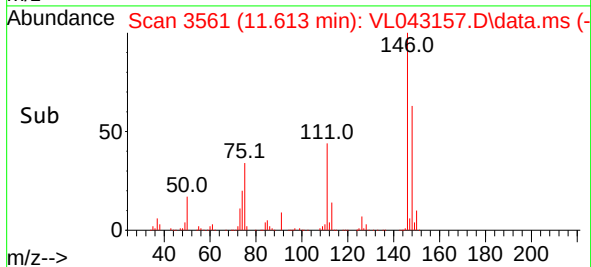
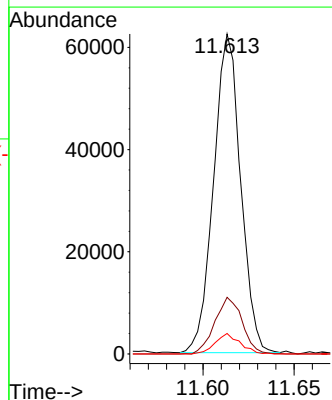
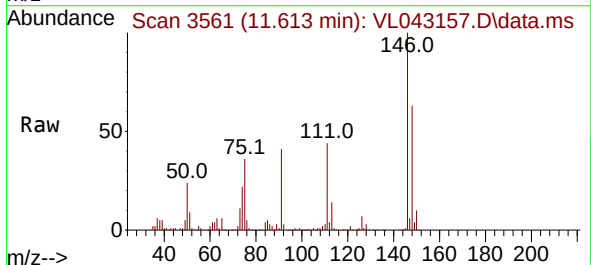
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

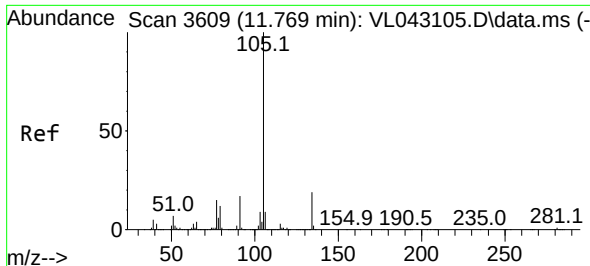
Tgt Ion:119 Resp: 662570  
Ion Ratio Lower Upper  
119 100  
91 82.4 63.4 95.0  
134 21.7 17.3 25.9



#66  
Benzyl Chloride  
Concen: 8.935 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 64257  
Ion Ratio Lower Upper  
91 100  
126 18.0 14.6 22.0  
128 5.9 4.6 6.8

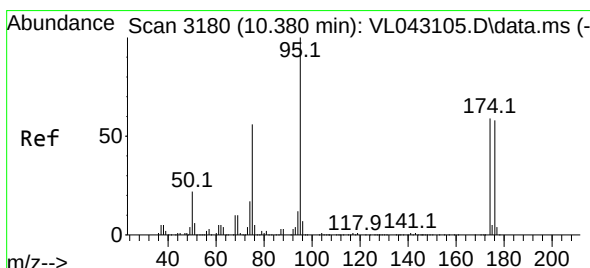
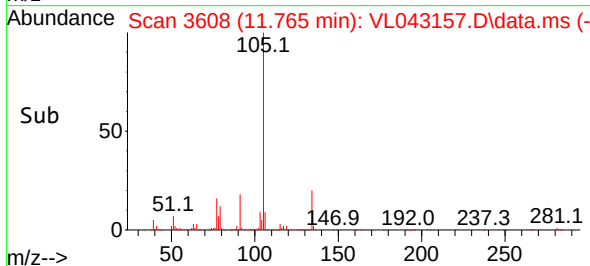
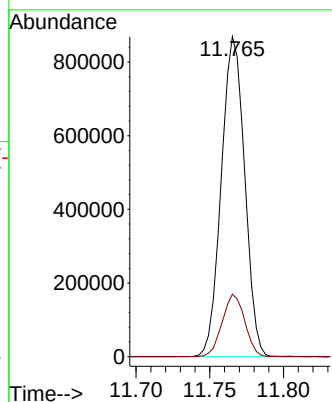
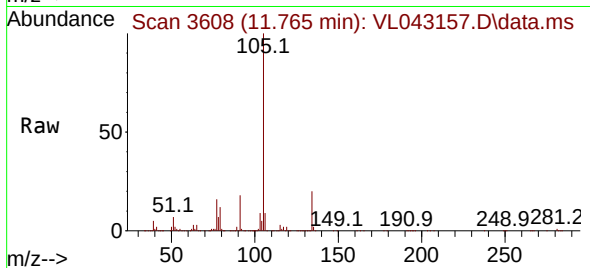




#67  
 sec-Butylbenzene  
 Concen: 10.438 ppbv  
 RT: 11.765 min Scan# 3178  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

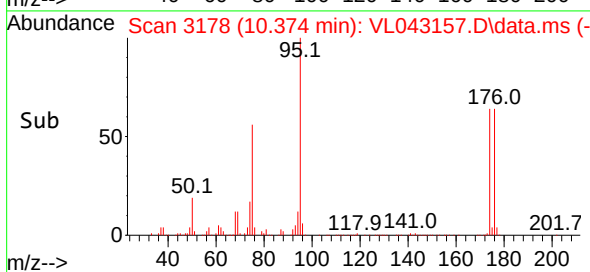
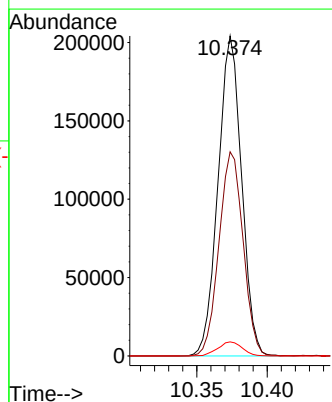
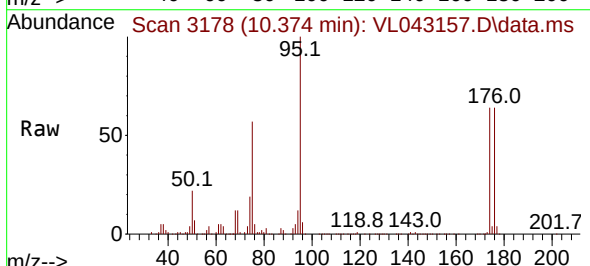
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01

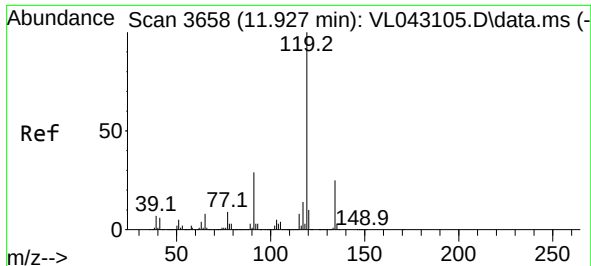
Tgt Ion:105 Resp: 957255  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 15.5 23.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.214 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. -0.007 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Tgt Ion: 95 Resp: 237797  
 Ion Ratio Lower Upper  
 95 100  
 174 65.3 48.3 72.5  
 175 4.6 3.8 5.8

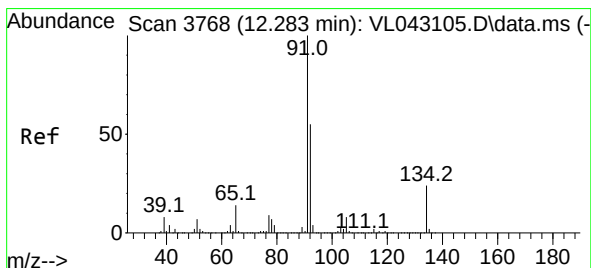
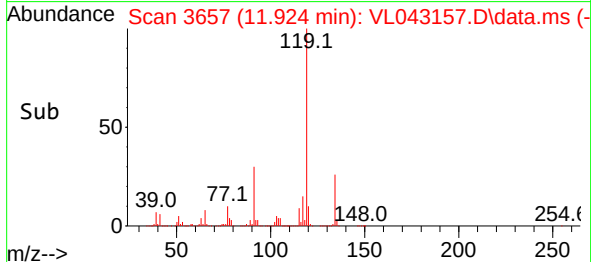
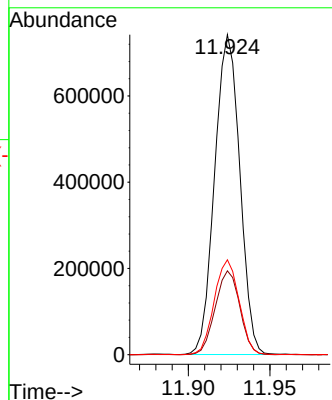
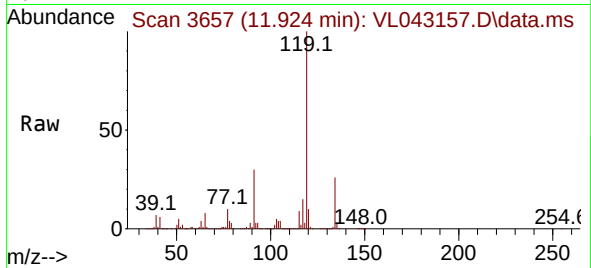




#69  
p-Isopropyltoluene  
Concen: 10.205 ppbv  
RT: 11.924 min Scan# 30  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

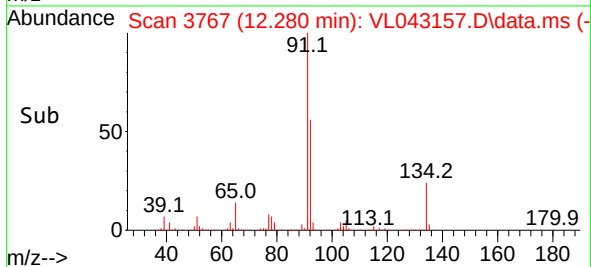
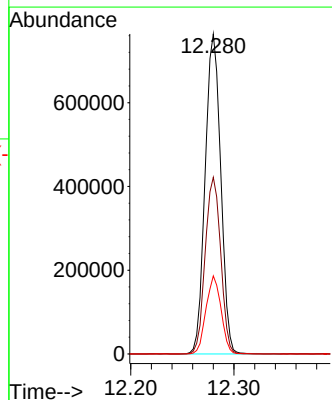
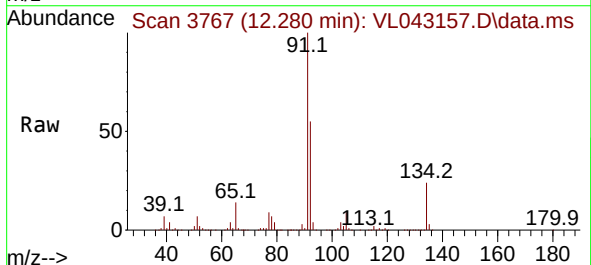
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

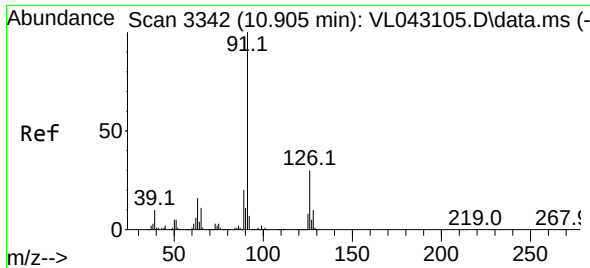
Tgt Ion:119 Resp: 795241  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.3 30.5  
91 29.5 22.6 33.8



#70  
n-Butylbenzene  
Concen: 10.392 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion: 91 Resp: 798019  
Ion Ratio Lower Upper  
91 100  
92 55.0 44.5 66.7  
134 23.6 19.3 28.9

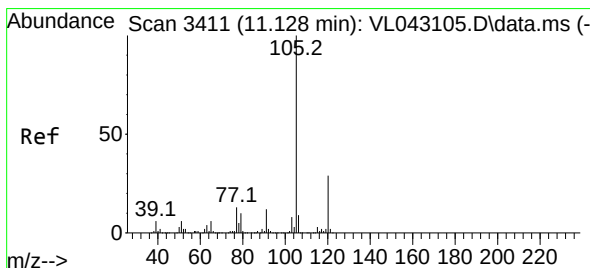
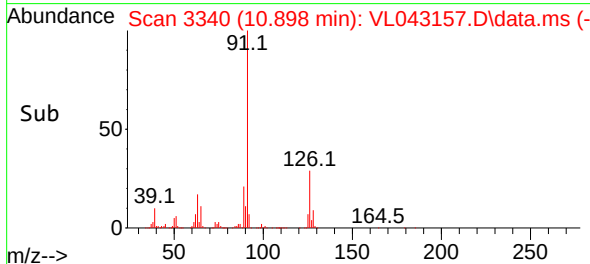
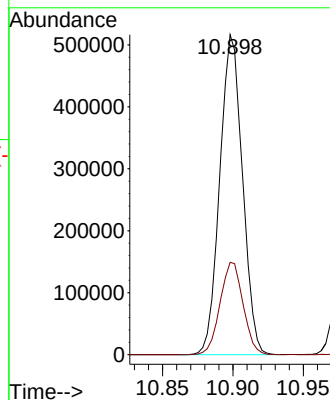
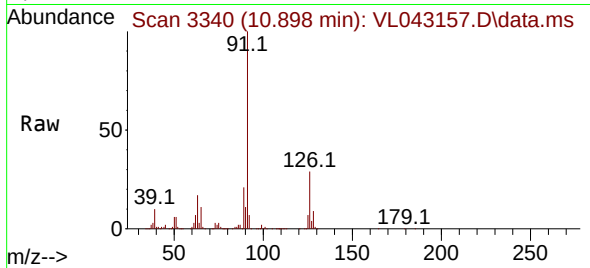




#71  
2-Chlorotoluene  
Concen: 10.386 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

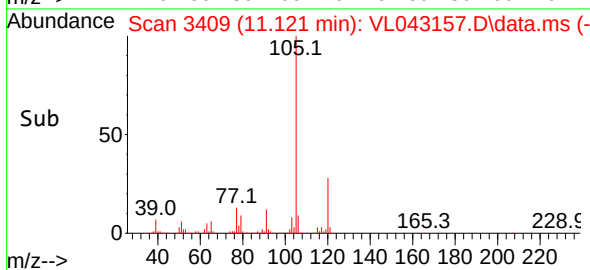
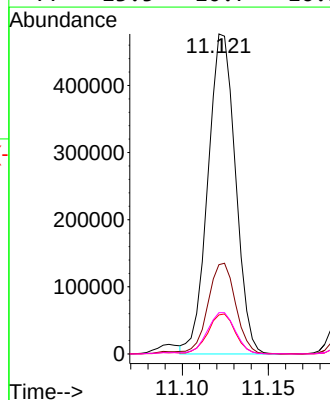
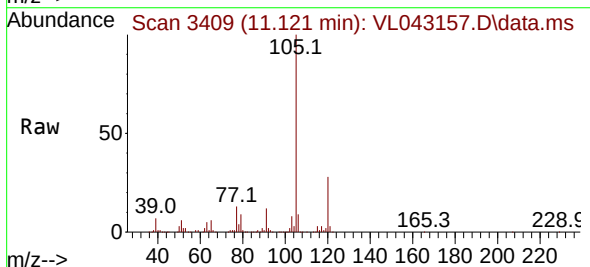
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

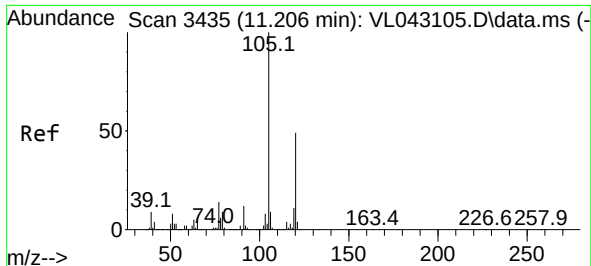
Tgt Ion: 91 Resp: 579642  
Ion Ratio Lower Upper  
91 100  
126 29.3 12.0 48.0



#72  
4-Ethyltoluene  
Concen: 10.660 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 530791  
Ion Ratio Lower Upper  
105 100  
120 29.2 24.2 36.4  
91 12.7 10.0 15.0  
77 13.5 10.7 16.1

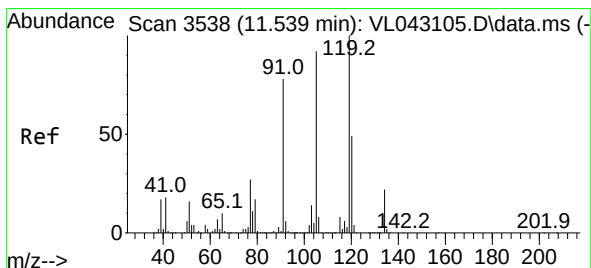
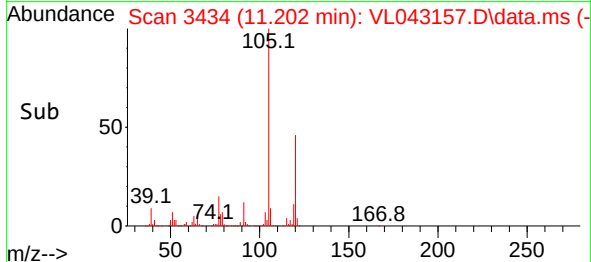
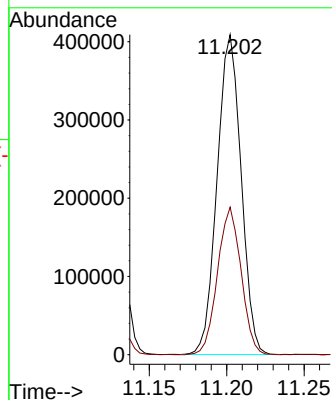
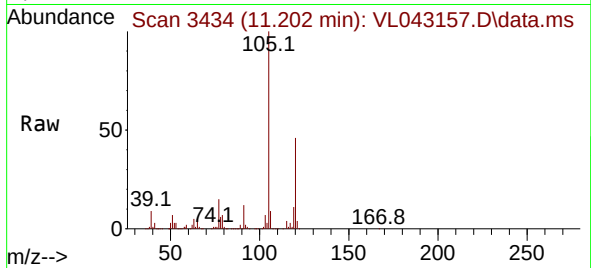




#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.731 ppbv  
 RT: 11.202 min Scan# 3435  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

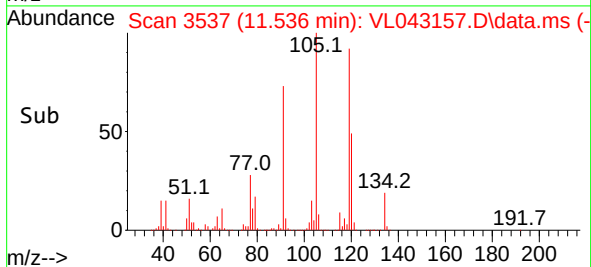
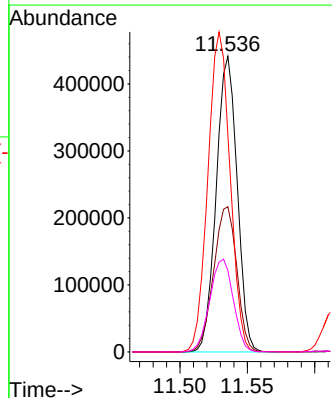
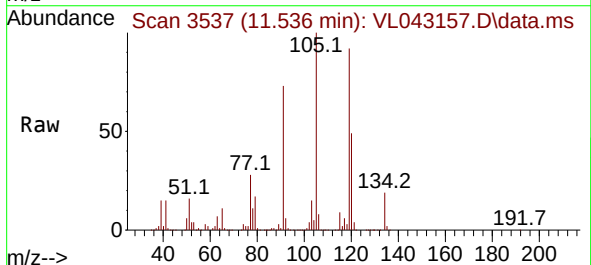
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL1106ABS01

Tgt Ion:105 Resp: 440663  
 Ion Ratio Lower Upper  
 105 100  
 120 46.1 39.0 58.6

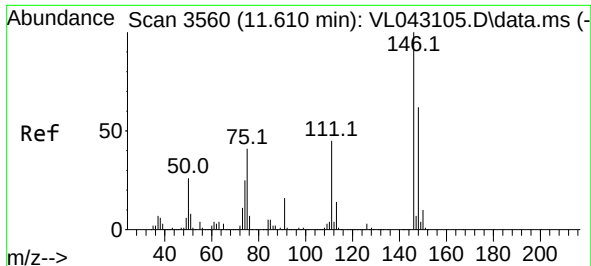


#74  
 1,2,4-Trimethylbenzene  
 Concen: 10.390 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Tgt Ion:105 Resp: 477453  
 Ion Ratio Lower Upper  
 105 100  
 120 49.1 42.8 64.2  
 91 73.4 68.3 102.5  
 77 27.5 23.4 35.0



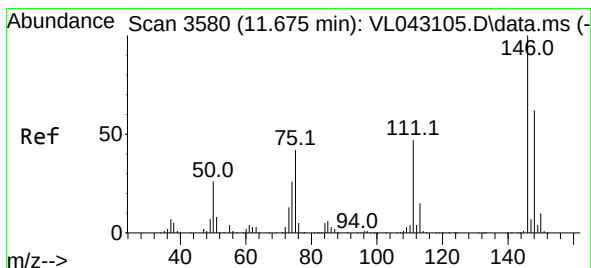
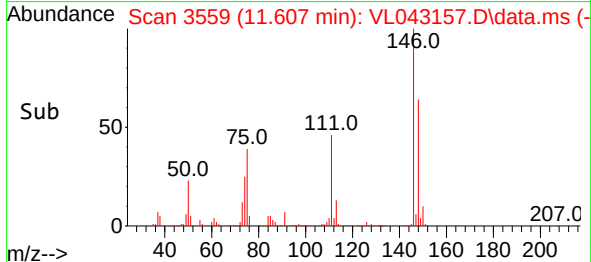
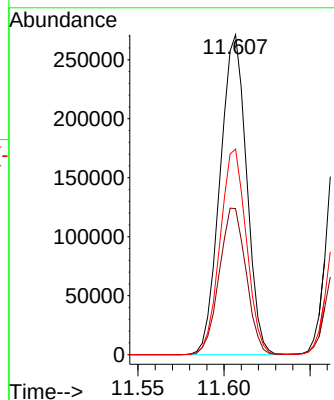
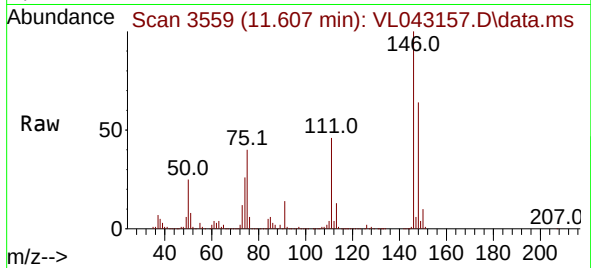




#75  
1,3-Dichlorobenzene  
Concen: 10.894 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

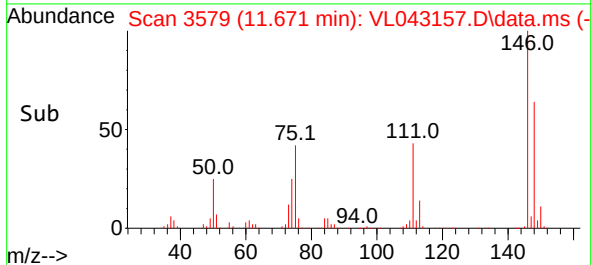
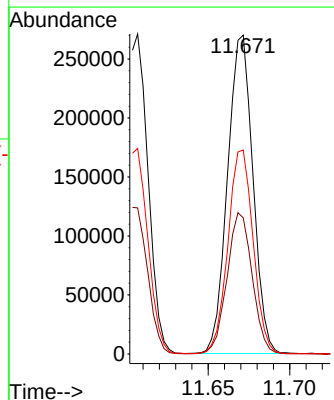
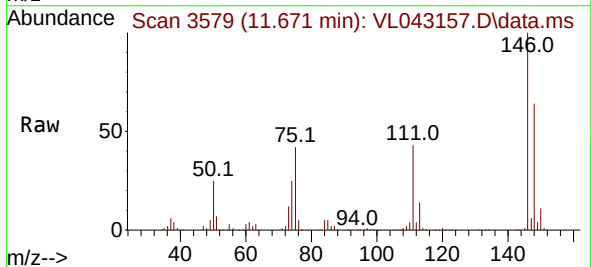
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

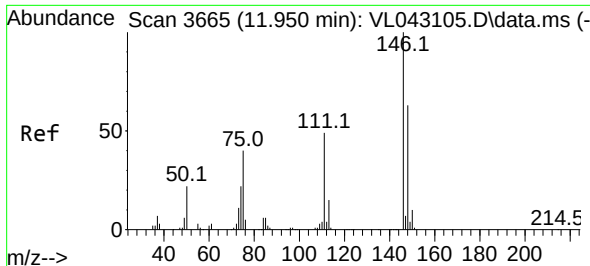
Tgt Ion:146 Resp: 290341  
Ion Ratio Lower Upper  
146 100  
111 46.4 23.3 69.9  
148 63.9 31.6 95.0



#76  
1,4-Dichlorobenzene  
Concen: 10.843 ppbv  
RT: 11.671 min Scan# 3579  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:146 Resp: 291409  
Ion Ratio Lower Upper  
146 100  
111 44.2 22.4 67.0  
148 64.0 31.6 94.7

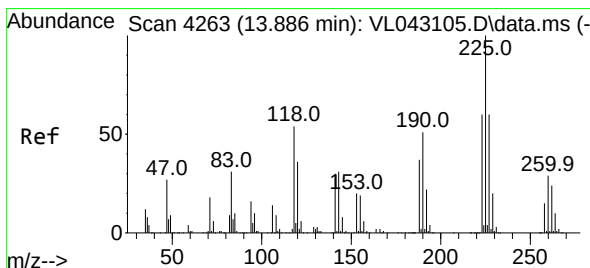
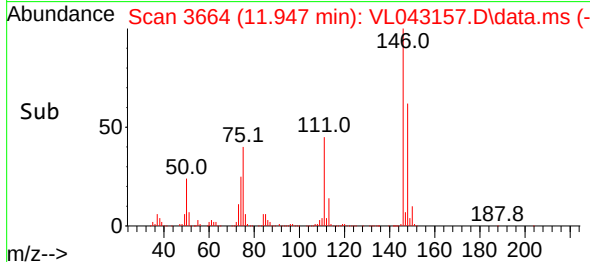
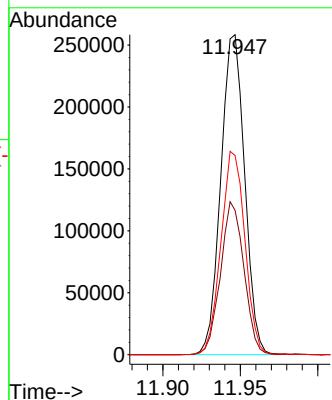
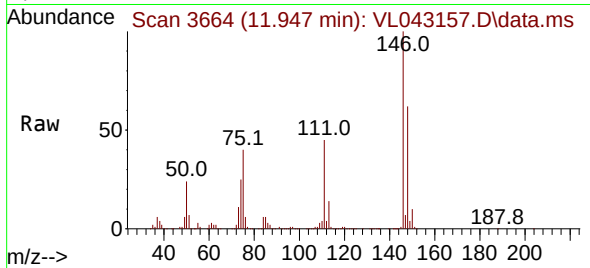




#77  
1,2-Dichlorobenzene  
Concen: 10.728 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

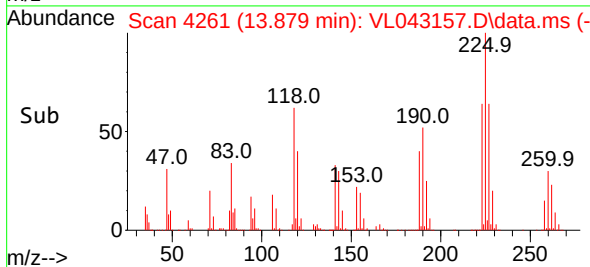
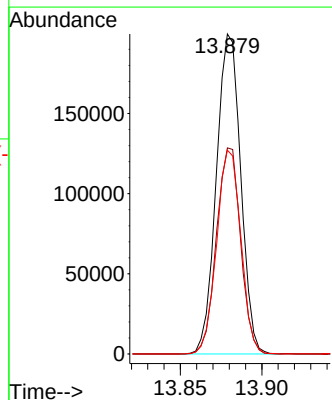
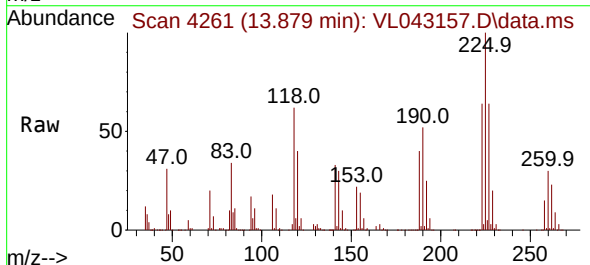
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

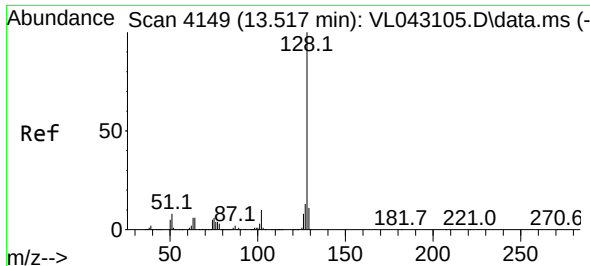
Tgt Ion:146 Resp: 276598  
Ion Ratio Lower Upper  
146 100  
111 47.1 24.0 72.0  
148 64.1 31.1 93.3



#78  
Hexachloro-1,3-Butadiene  
Concen: 10.393 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:225 Resp: 207474  
Ion Ratio Lower Upper  
225 100  
223 63.7 50.2 75.4  
227 63.3 49.6 74.4

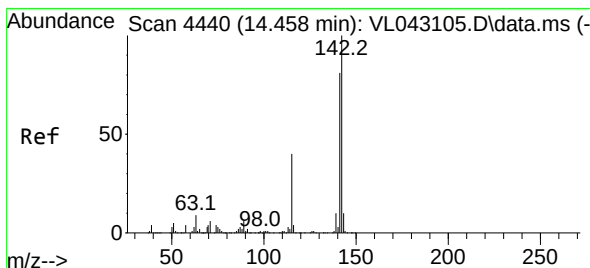
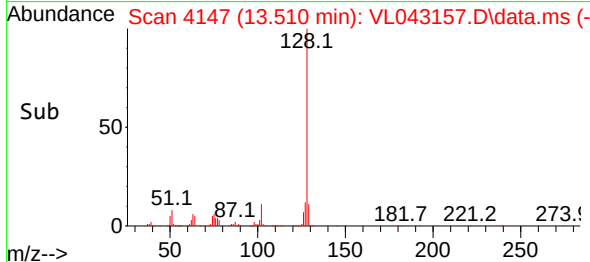
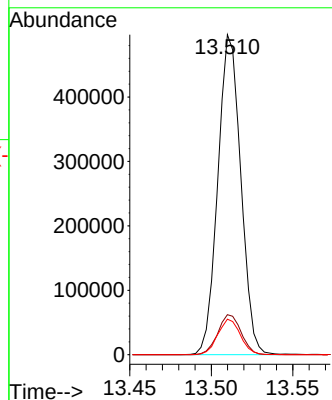
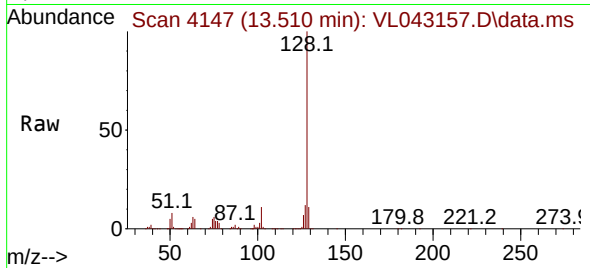




#79  
Naphthalene  
Concen: 10.127 ppbv  
RT: 13.510 min Scan# 4149  
Delta R.T. -0.007 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

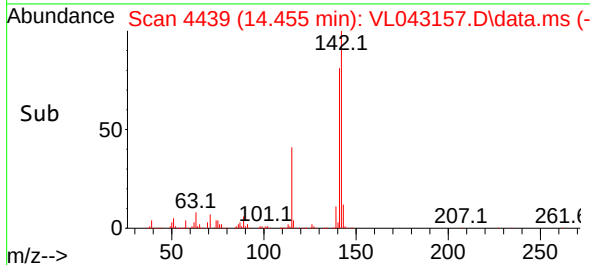
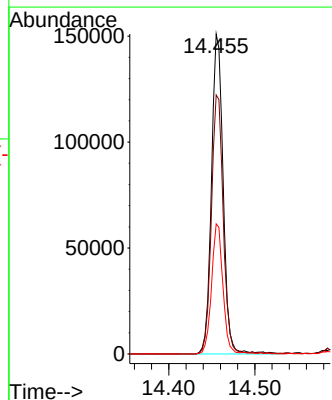
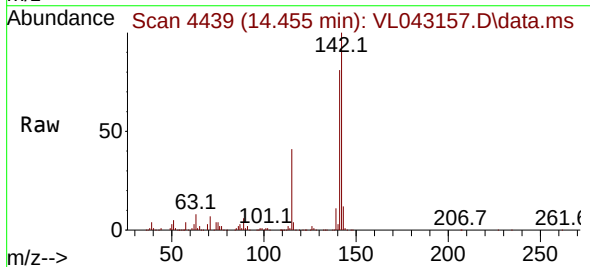
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL1106ABS01

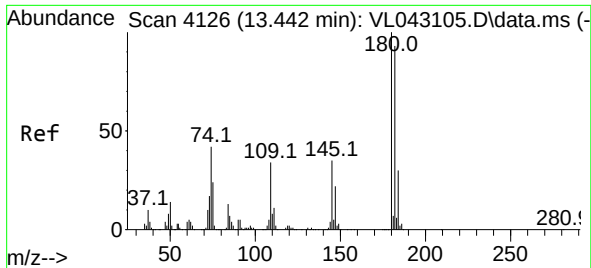
Tgt Ion:128 Resp: 486413  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 11.1 9.1 13.7



#80  
Naphthalene,2-methyl-  
Concen: 11.387 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.004 min  
Lab File: VL043157.D  
Acq: 06 Nov 2025 08:45

Tgt Ion:142 Resp: 142500  
Ion Ratio Lower Upper  
142 100  
141 83.2 64.6 97.0  
115 40.0 30.2 45.4

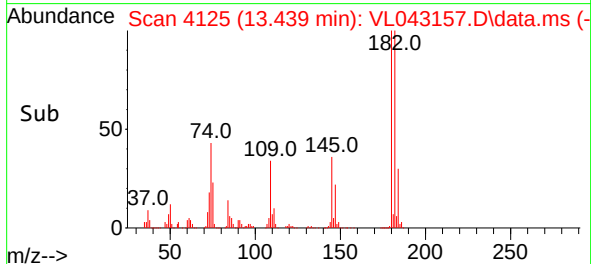
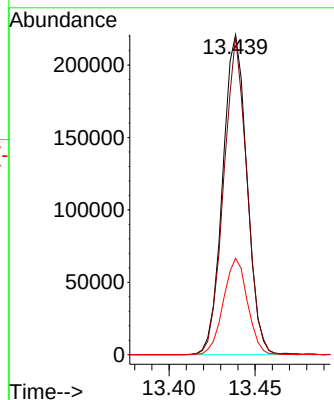
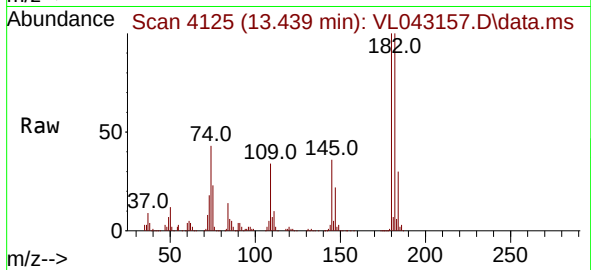




#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.849 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. -0.004 min  
 Lab File: VL043157.D  
 Acq: 06 Nov 2025 08:45

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1106ABS01

Tgt Ion:180 Resp: 216292  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 75.5 113.3  
 184 29.9 23.9 35.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043159.D  
 Acq On : 06 Nov 2025 10:17  
 Operator : SY/MD  
 Sample : Q3555-02DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 151-IA-2DUP

Quant Time: Nov 07 00:19:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

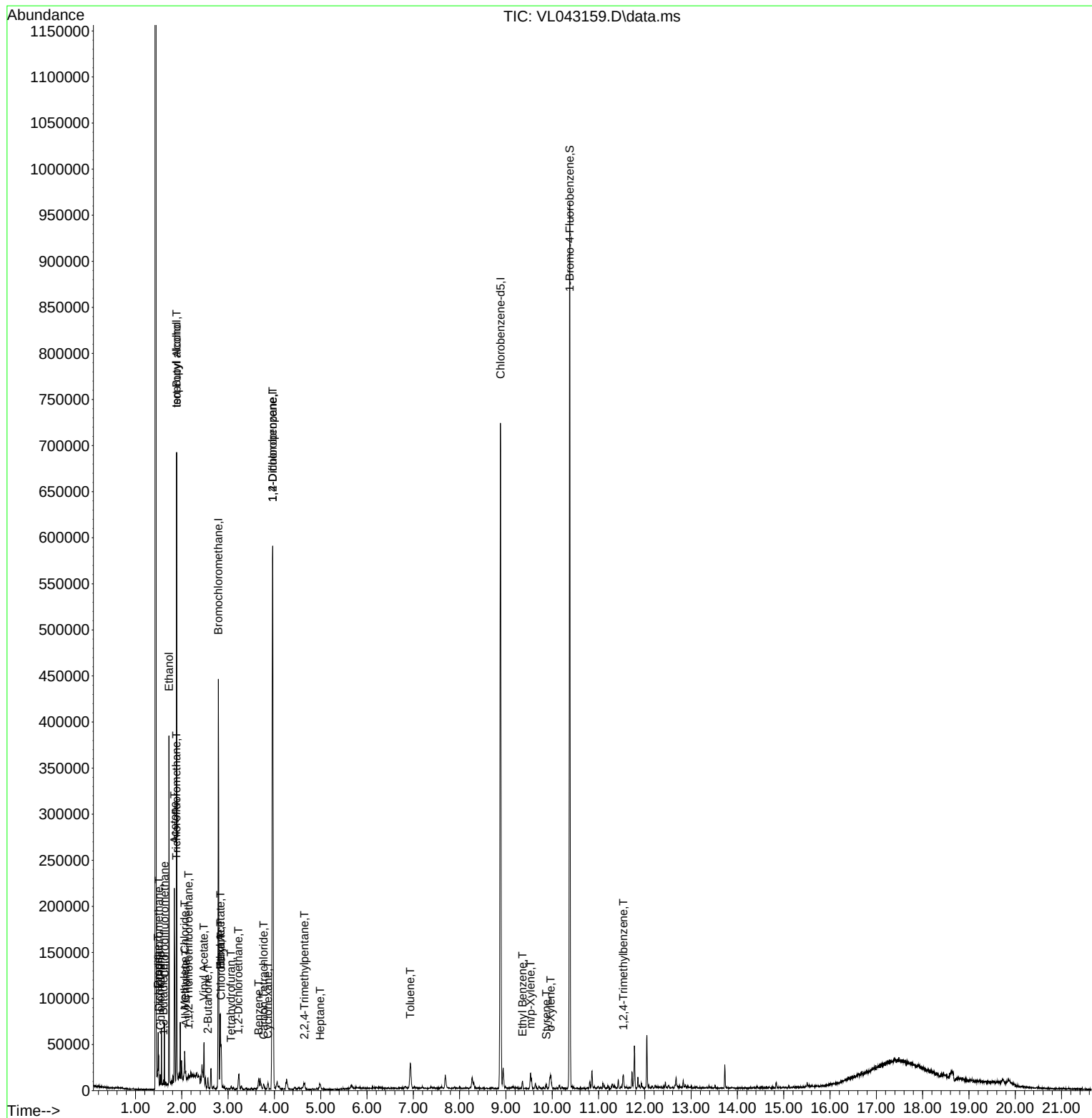
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 118024   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 354784   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.881  | 117   | 303947   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 238666   | 10.102   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 101.000% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 7609     | 0.453    | ppbv   | 94       |
| 3) Chlorodifluoromethane      | 1.625  | 51    | 552      | 0.030    | ppbv   | 100      |
| 4) Chloromethane              | 1.534  | 50    | 2577     | 0.388    | ppbv   | 98       |
| 9) Propene                    | 1.489  | 41    | 3944     | 0.490    | ppbv   | 85       |
| 10) Heptane                   | 4.985  | 43    | 1039     | 0.045    | ppbv # | 27       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 5437     | 0.331    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 1161     | 0.088    | ppbv   | 99       |
| 13) Ethanol                   | 1.722  | 45    | 124950   | 41.954   | ppbv   | 96       |
| 15) Acetone                   | 1.839  | 43    | 97541    | 6.132    | ppbv   | 95       |
| 16) 1,3-Butadiene             | 1.602  | 39    | 908      | 0.120    | ppbv # | 13       |
| 17) tert-Butyl alcohol        | 1.887  | 59    | 10088    | 0.462    | ppbv   | 97       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 278208   | 28.080   | ppbv # | 37       |
| 20) Methylene Chloride        | 2.065  | 84    | 3186     | 0.507    | ppbv   | 96       |
| 21) Allyl Chloride            | 2.084  | 41    | 933      | 0.080    | ppbv # | 45       |
| 23) Vinyl Acetate             | 2.476  | 43    | 12803    | 0.549    | ppbv # | 59       |
| 25) Ethyl Acetate             | 2.832  | 43    | 18936    | 0.480    | ppbv # | 93       |
| 26) Hexane                    | 2.832  | 57    | 18040    | 0.992    | ppbv # | 56       |
| 29) Chloroform                | 2.848  | 83    | 16144    | 0.613    | ppbv   | 93       |
| 30) Cyclohexane               | 3.861  | 84    | 508      | 0.032    | ppbv # | 1        |
| 34) 2-Butanone                | 2.560  | 43    | 6502     | 0.273    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 2069     | 0.081    | ppbv # | 93       |
| 36) Benzene                   | 3.658  | 78    | 3482     | 0.104    | ppbv   | 97       |
| 37) 1,2-Dichloroethane        | 3.221  | 62    | 4176     | 0.217    | ppbv   | 96       |
| 39) 1,2-Dichloropropane       | 3.962  | 63    | 89086    | 7.292    | ppbv # | 26       |
| 41) Tetrahydrofuran           | 3.062  | 42    | 462      | 0.035    | ppbv # | 37       |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57    | 2264     | 0.040    | ppbv # | 1        |
| 53) Toluene                   | 6.936  | 91    | 20621    | 0.520    | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.357  | 91    | 2454     | 0.047    | ppbv   | 94       |
| 59) m/p-Xylene                | 9.532  | 91    | 8752     | 0.210    | ppbv # | 82       |
| 60) o-Xylene                  | 9.966  | 91    | 4326     | 0.105    | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104   | 1372     | 0.074    | ppbv # | 79       |
| 74) 1,2,4-Trimethylbenzene    | 11.535 | 105   | 3636     | 0.078    | ppbv # | 58       |

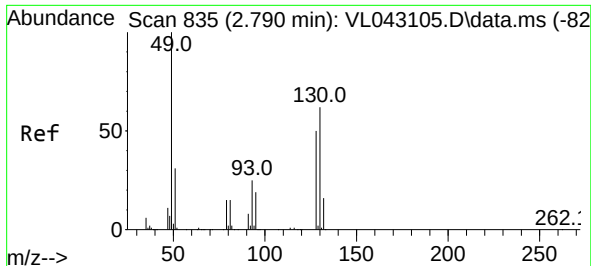
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043159.D  
Acq On : 06 Nov 2025 10:17  
Operator : SY/MD  
Sample : Q3555-02DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

Quant Time: Nov 07 00:19:08 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

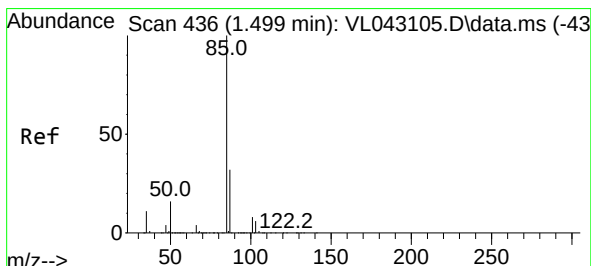
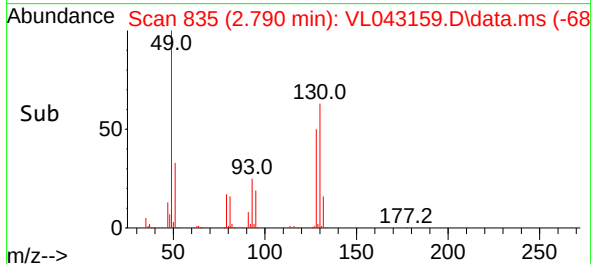
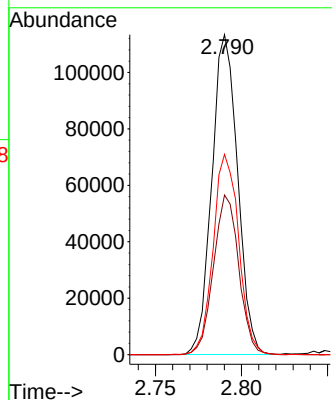
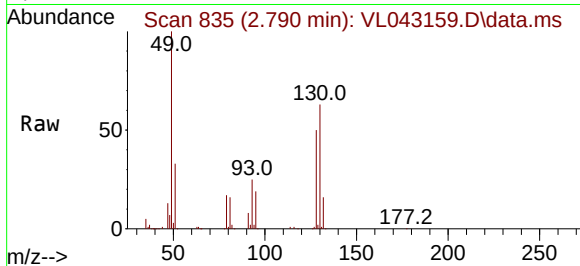




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

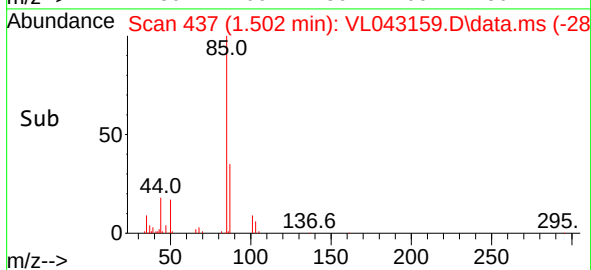
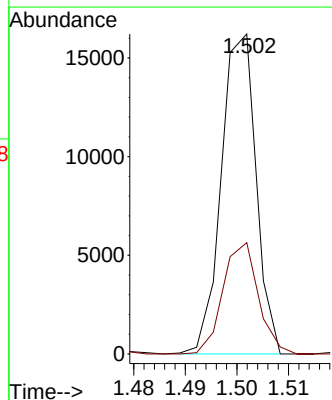
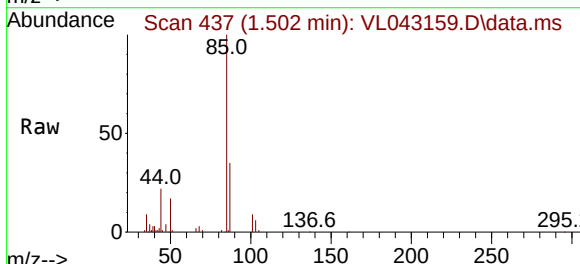
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

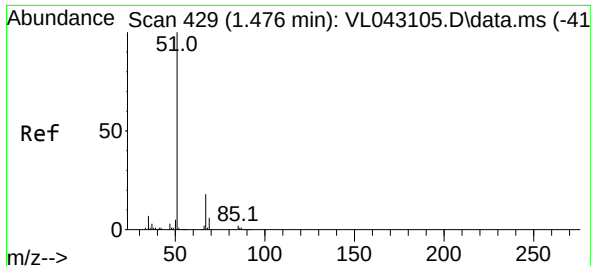
Tgt Ion: 49 Resp: 118024  
Ion Ratio Lower Upper  
49 100  
128 49.1 24.4 73.4  
130 62.2 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.453 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 85 Resp: 7609  
Ion Ratio Lower Upper  
85 100  
87 34.8 25.3 37.9

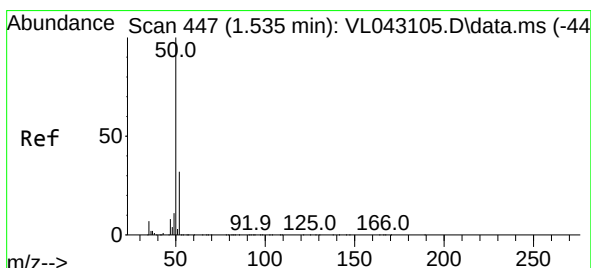
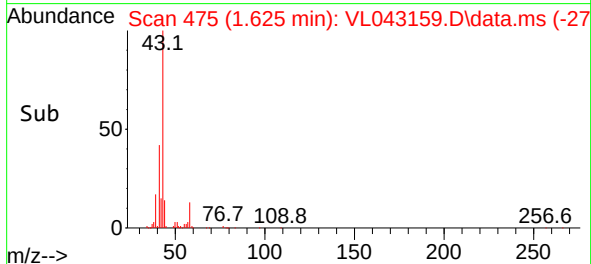
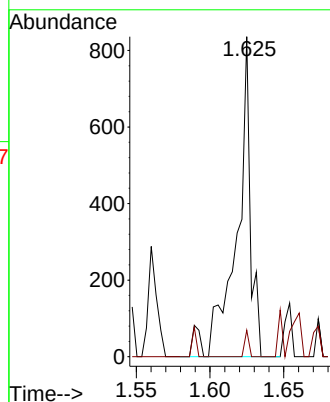
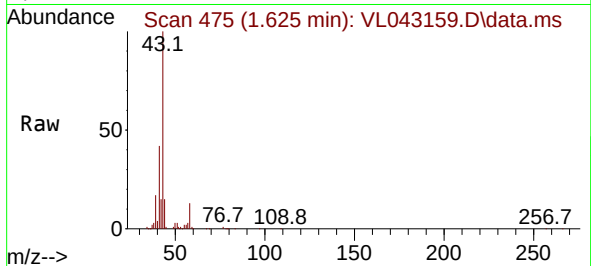




#3  
Chlorodifluoromethane  
Concen: 0.030 ppbv  
RT: 1.625 min Scan# 41  
Delta R.T. 0.149 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

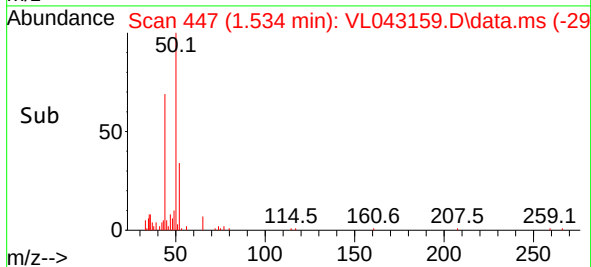
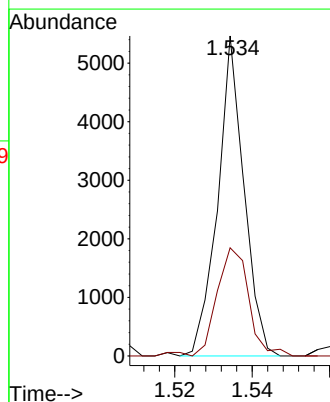
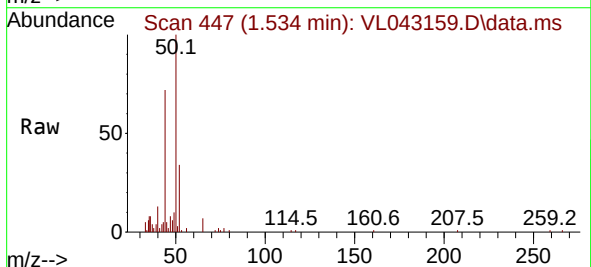
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

Tgt Ion: 51 Resp: 552  
Ion Ratio Lower Upper  
51 100  
67 18.8 15.1 22.7

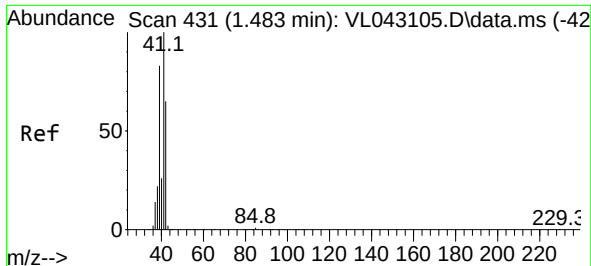


#4  
Chloromethane  
Concen: 0.388 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 50 Resp: 2577  
Ion Ratio Lower Upper  
50 100  
52 32.7 25.2 37.8



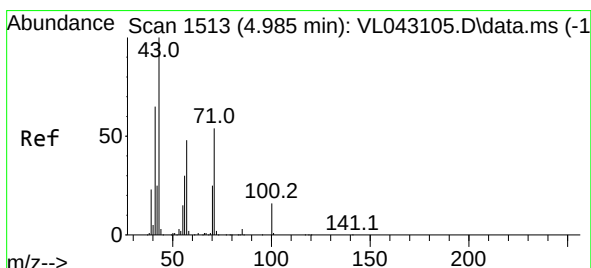
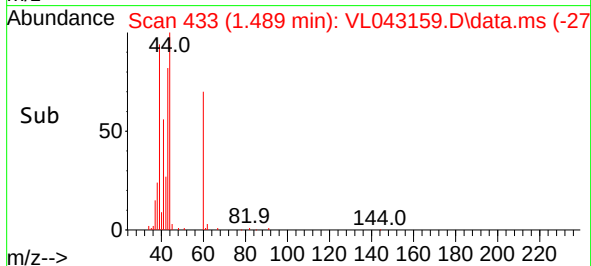
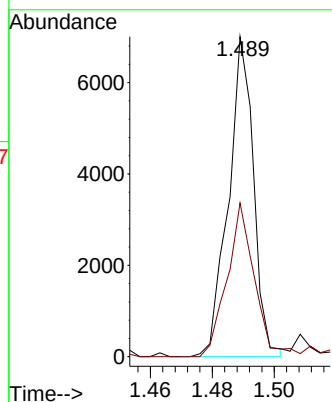
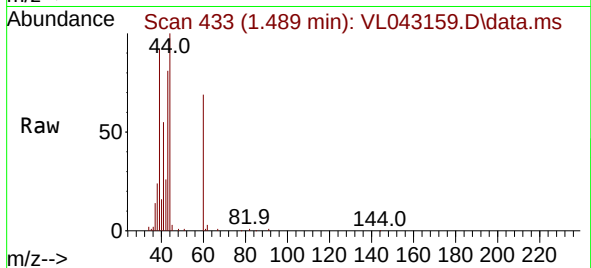




#9  
Propene  
Concen: 0.490 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

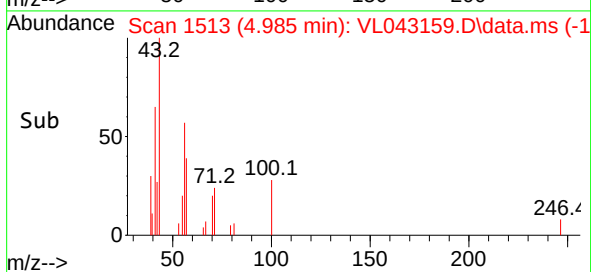
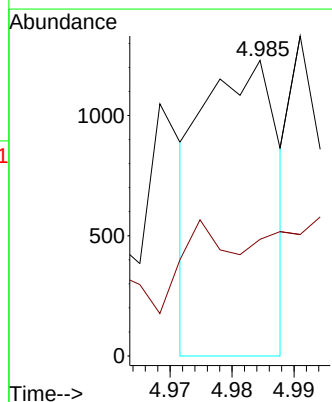
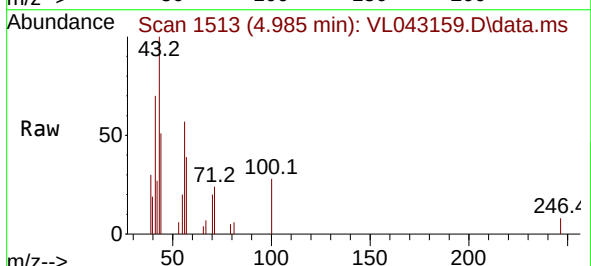
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

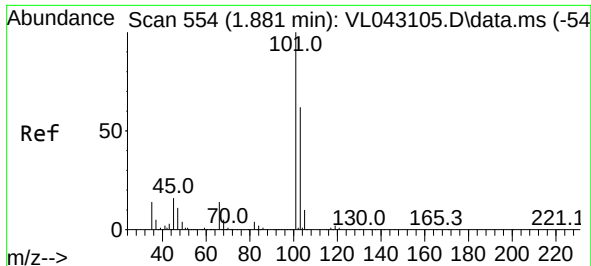
Tgt Ion: 41 Resp: 3944  
Ion Ratio Lower Upper  
41 100  
42 56.6 55.1 82.7



#10  
Heptane  
Concen: 0.045 ppbv  
RT: 4.985 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 43 Resp: 1039  
Ion Ratio Lower Upper  
43 100  
57 0.0 40.8 61.2#

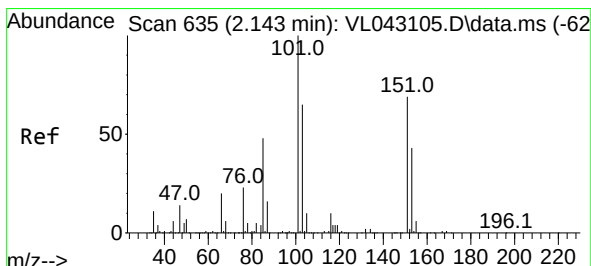
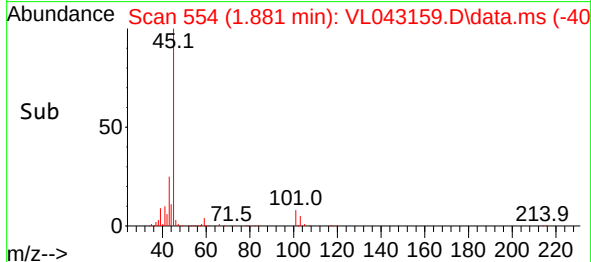
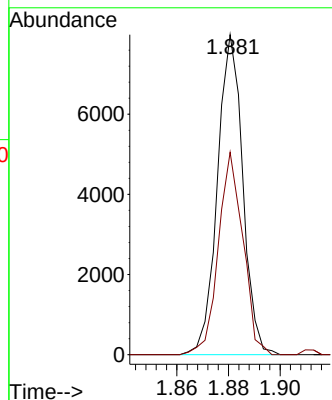
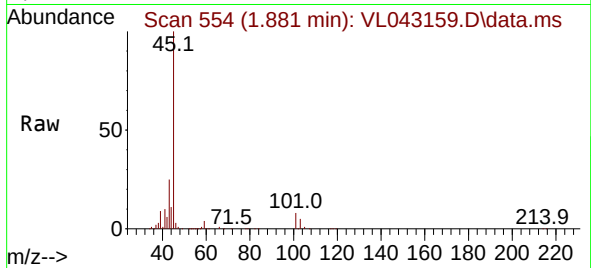




#11  
Trichlorofluoromethane  
Concen: 0.331 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

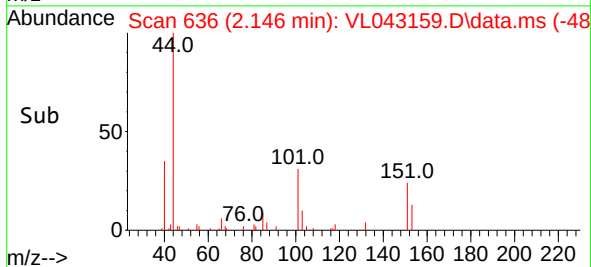
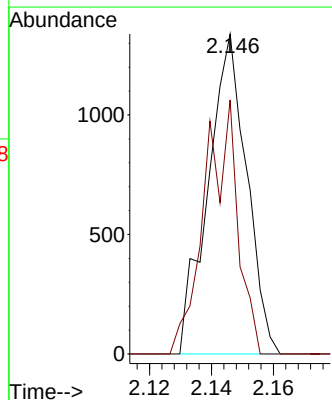
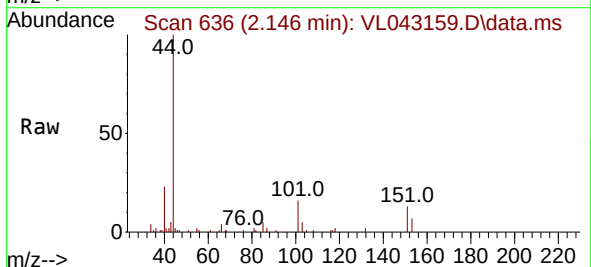
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

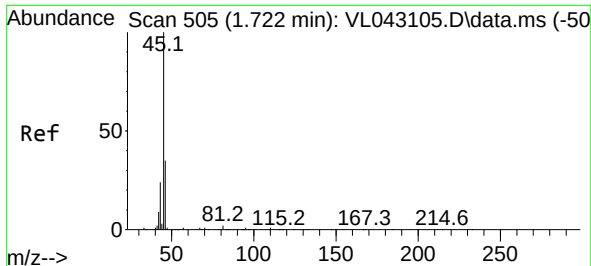
Tgt Ion:101 Resp: 5437  
Ion Ratio Lower Upper  
101 100  
103 63.3 49.3 73.9



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.088 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion:101 Resp: 1161  
Ion Ratio Lower Upper  
101 100  
151 67.8 54.7 82.1





#13

Ethanol

Concen: 41.954 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.000 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

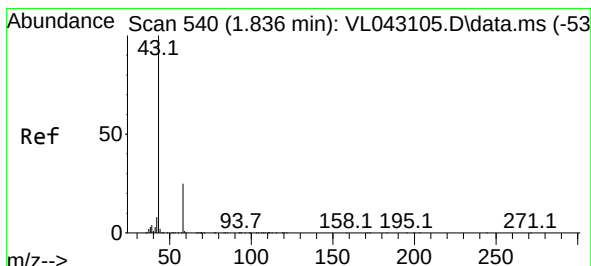
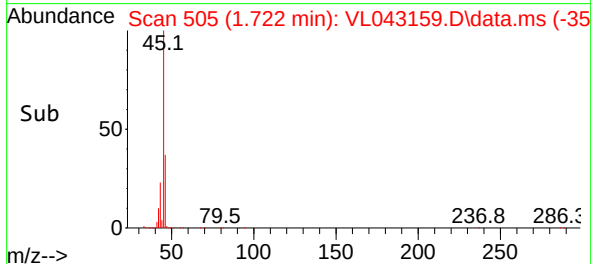
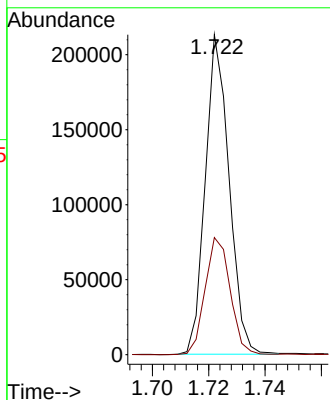
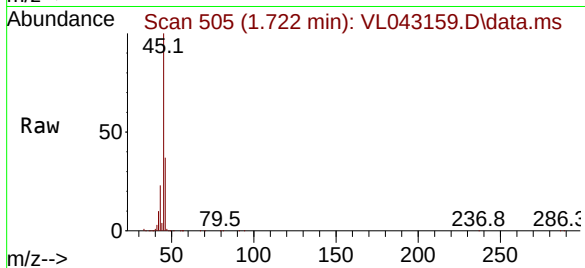
151-IA-2DUP

Tgt Ion: 45 Resp: 124950

Ion Ratio Lower Upper

45 100

46 39.0 14.7 58.9



#15

Acetone

Concen: 6.132 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.003 min

Lab File: VL043159.D

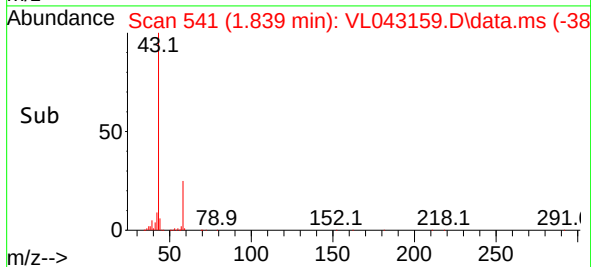
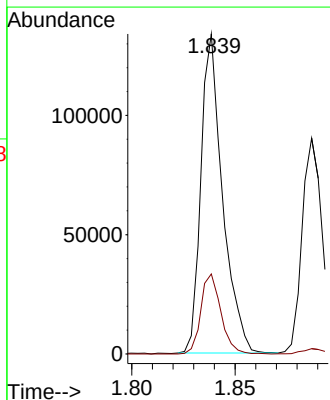
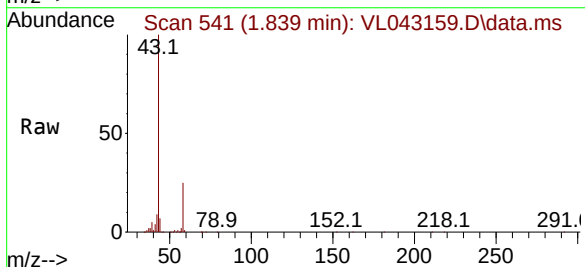
Acq: 06 Nov 2025 10:17

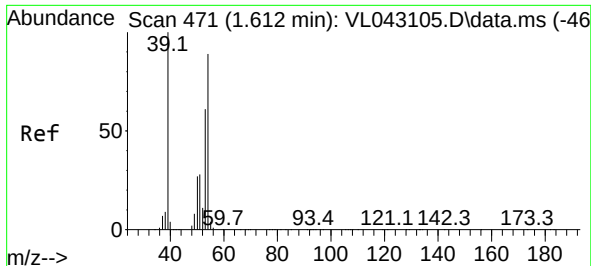
Tgt Ion: 43 Resp: 97541

Ion Ratio Lower Upper

43 100

58 23.2 20.8 31.2

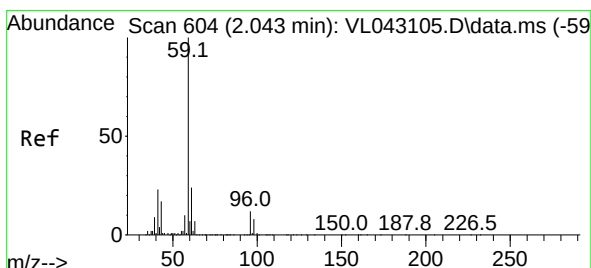
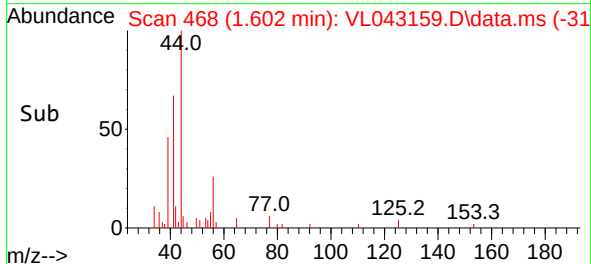
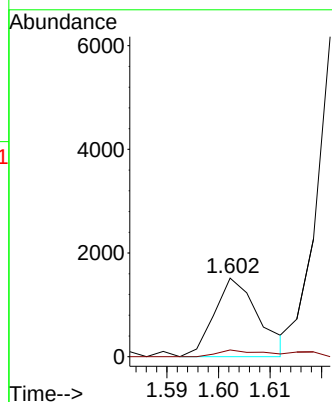
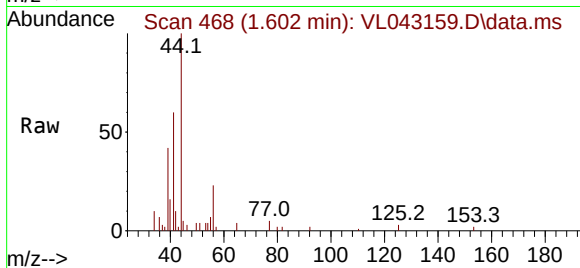




#16  
1,3-Butadiene  
Concen: 0.120 ppbv  
RT: 1.602 min Scan# 41  
Delta R.T. -0.010 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

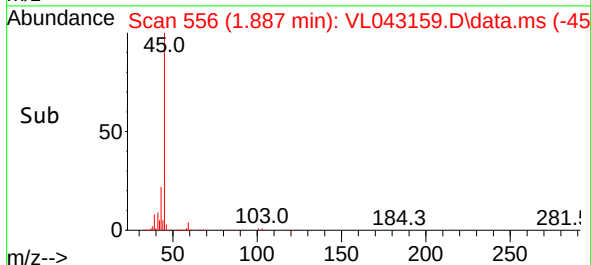
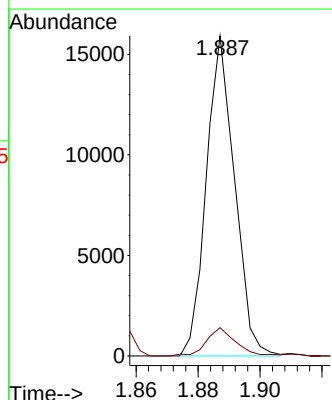
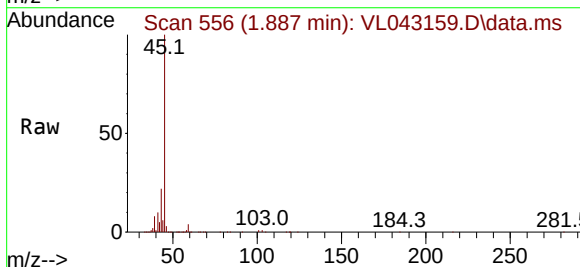
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

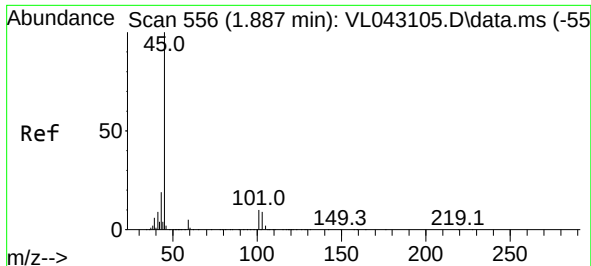
Tgt Ion: 39 Resp: 908  
Ion Ratio Lower Upper  
39 100  
54 0.0 59.0 88.4#



#17  
tert-Butyl alcohol  
Concen: 0.462 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. -0.156 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 59 Resp: 10088  
Ion Ratio Lower Upper  
59 100  
57 9.3 8.2 12.4

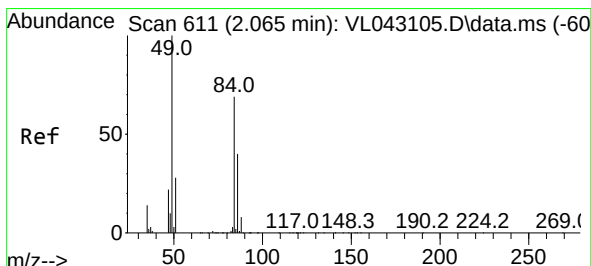
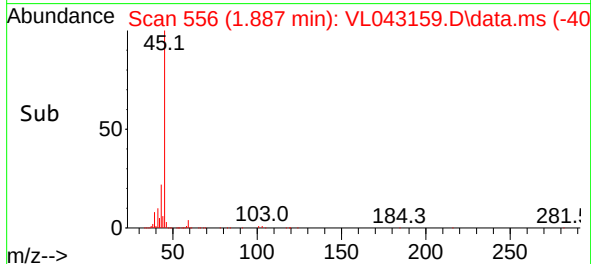
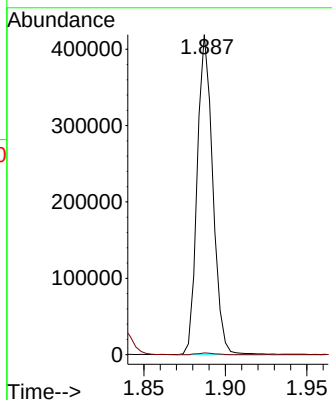
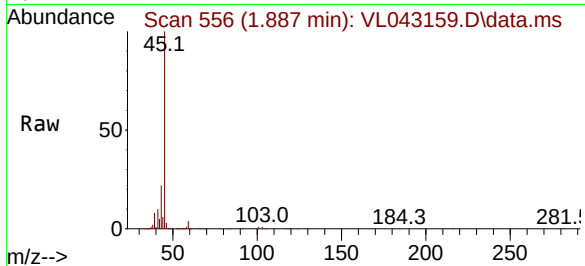




#19  
Isopropyl Alcohol  
Concen: 28.080 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

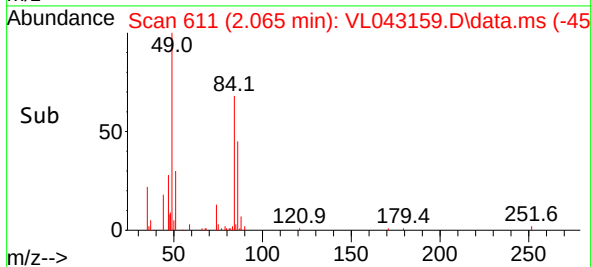
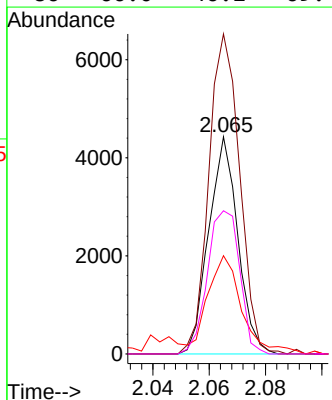
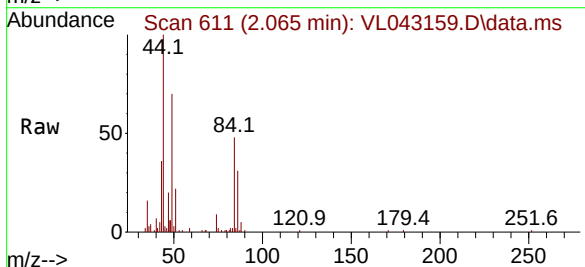
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

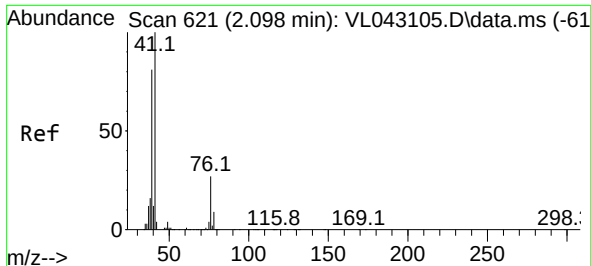
Tgt Ion: 45 Resp: 278208  
Ion Ratio Lower Upper  
45 100  
58 0.6 31.3 46.9#



#20  
Methylene Chloride  
Concen: 0.507 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 84 Resp: 3186  
Ion Ratio Lower Upper  
84 100  
49 147.4 116.6 175.0  
51 41.9 34.8 52.2  
86 66.0 46.2 69.4

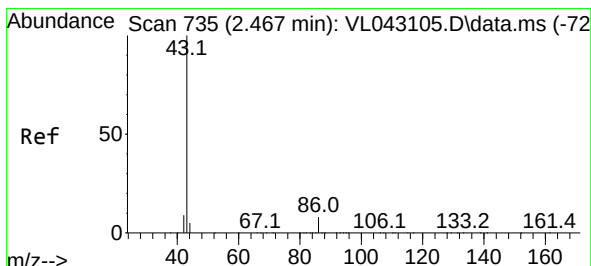
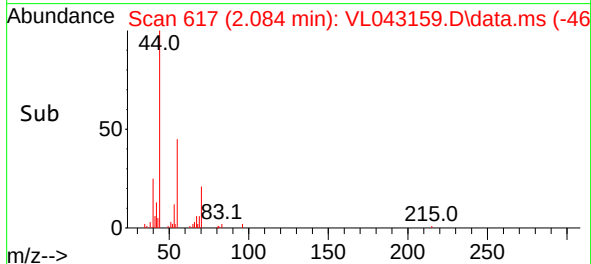
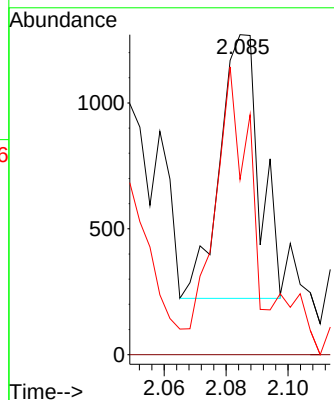
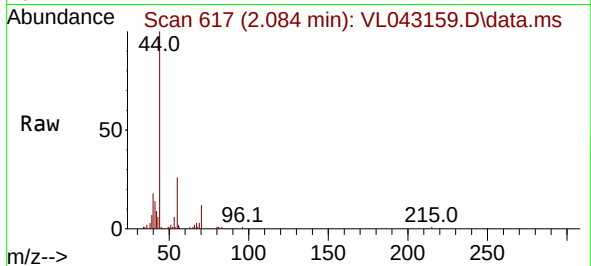




#21  
 Allyl Chloride  
 Concen: 0.080 ppbv  
 RT: 2.084 min Scan# 61  
 Delta R.T. -0.013 min  
 Lab File: VL043159.D  
 Acq: 06 Nov 2025 10:17

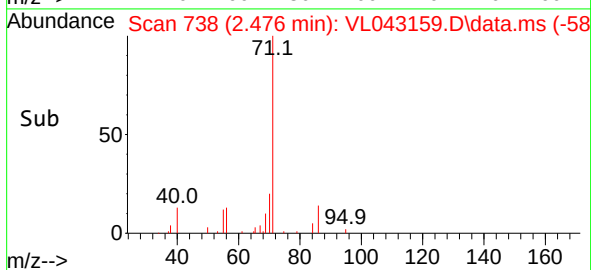
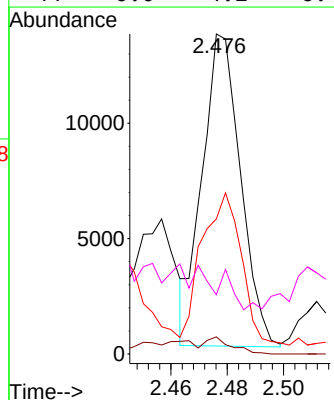
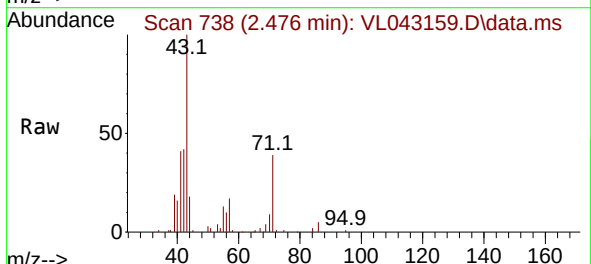
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 151-IA-2DUP

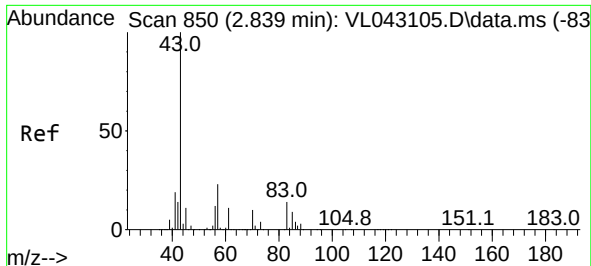
Tgt Ion: 41 Resp: 933  
 Ion Ratio Lower Upper  
 41 100  
 76 35.5 21.5 32.3#  
 39 134.5 60.8 91.2#



#23  
 Vinyl Acetate  
 Concen: 0.549 ppbv  
 RT: 2.476 min Scan# 738  
 Delta R.T. 0.009 min  
 Lab File: VL043159.D  
 Acq: 06 Nov 2025 10:17

Tgt Ion: 43 Resp: 12803  
 Ion Ratio Lower Upper  
 43 100  
 86 5.5 6.2 9.2#  
 42 40.0 7.6 11.4#  
 44 0.0 4.2 6.4#

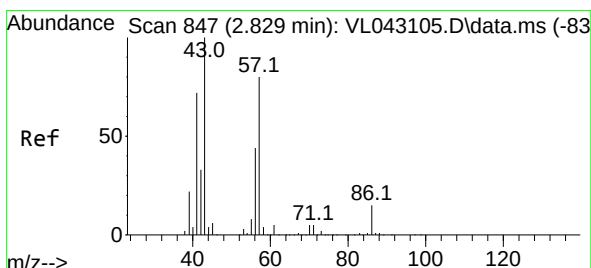
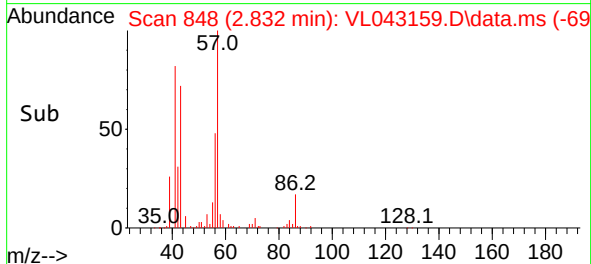
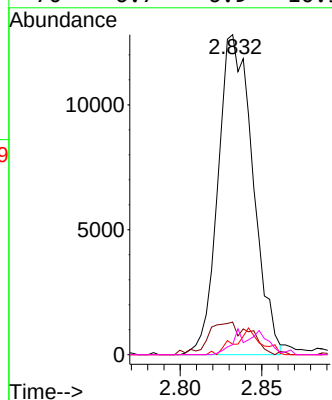
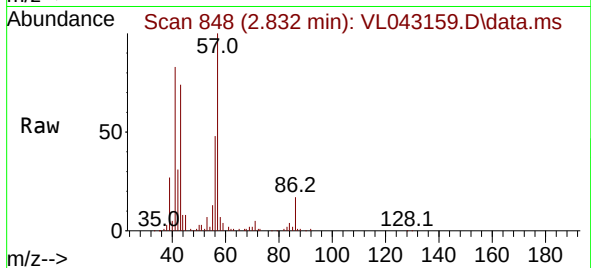




#25  
Ethyl Acetate  
Concen: 0.480 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.007 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

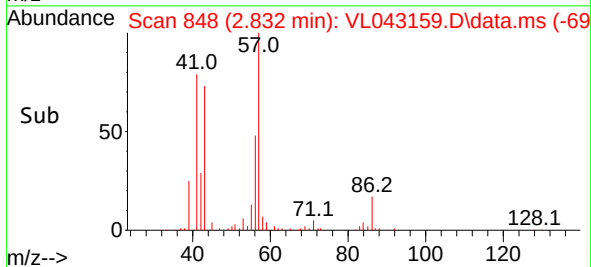
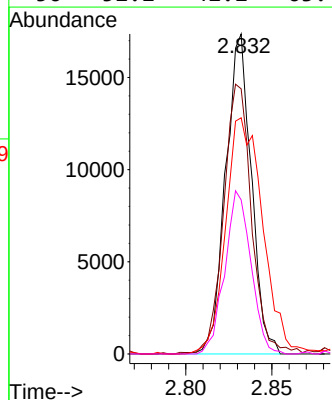
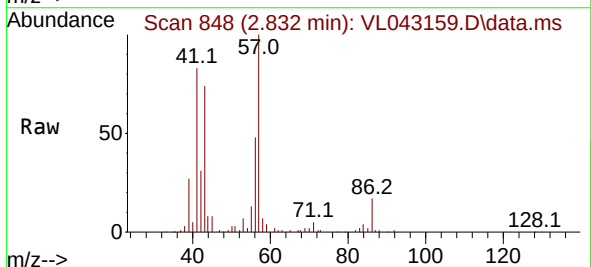
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-IA-2DUP

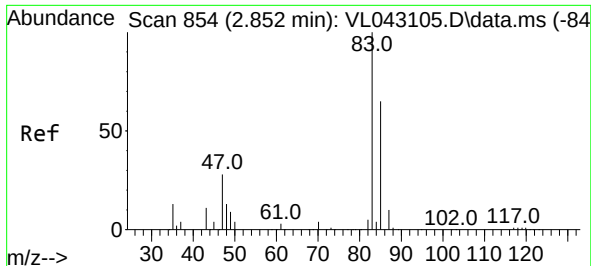
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 18936 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 12.5     | 7.8 11.8#   |
| 61 6.1      | 7.0 10.6#   |
| 70 6.7      | 6.9 10.3#   |



#26  
Hexane  
Concen: 0.992 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 57 | Resp: | 18040  |
| Ion | Ratio   | Lower | Upper  |
| 57  | 100     |       |        |
| 41  | 92.0    | 71.4  | 107.0  |
| 43  | 108.4   | 178.5 | 267.7# |
| 56  | 52.2    | 42.2  | 63.4   |





#29

Chloroform

Concen: 0.613 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.004 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

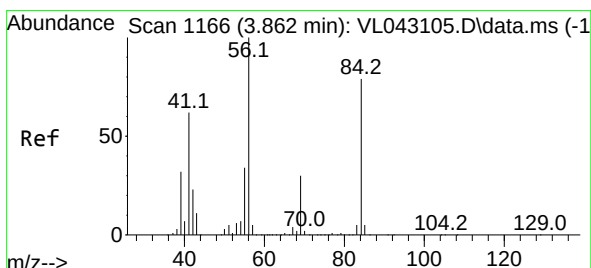
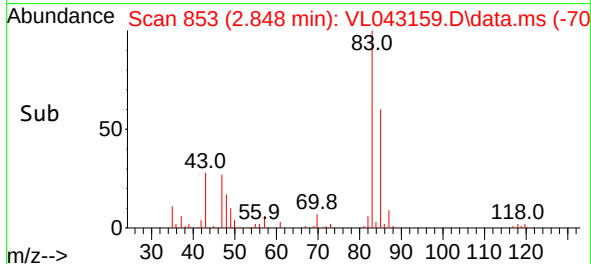
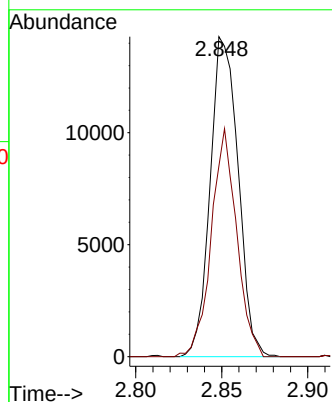
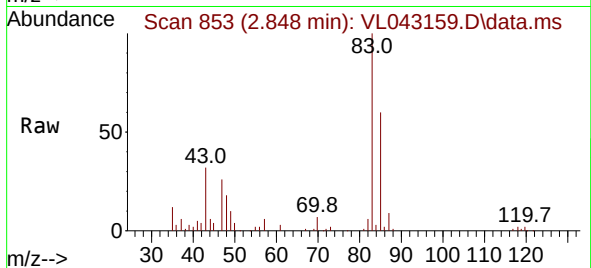
151-IA-2DUP

Tgt Ion: 83 Resp: 16144

Ion Ratio Lower Upper

83 100

85 59.6 51.8 77.6



#30

Cyclohexane

Concen: 0.032 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043159.D

Acq: 06 Nov 2025 10:17

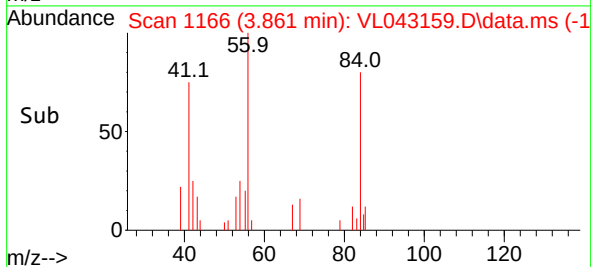
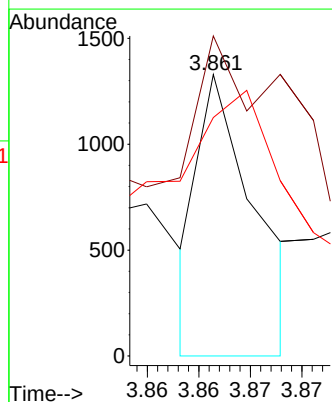
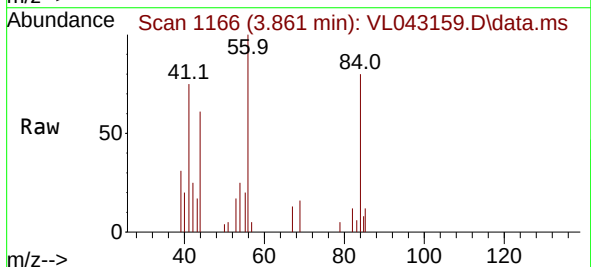
Tgt Ion: 84 Resp: 508

Ion Ratio Lower Upper

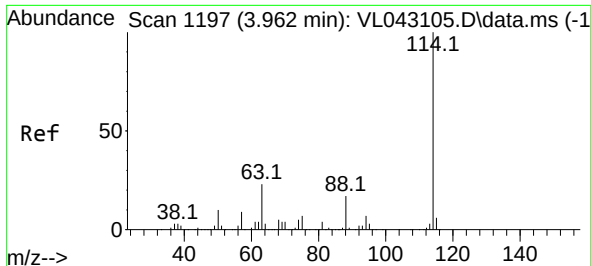
84 100

56 436.0 100.9 151.3#

41 353.7 63.8 95.6#



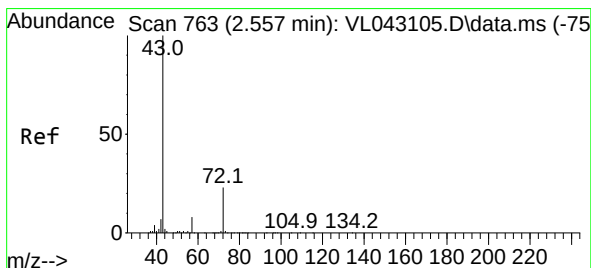
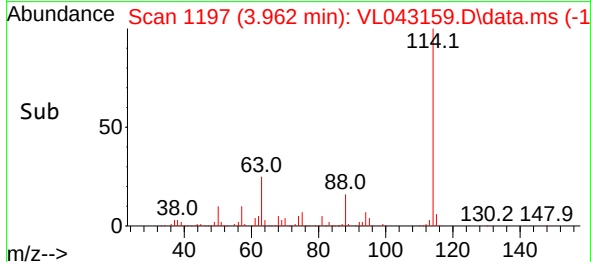
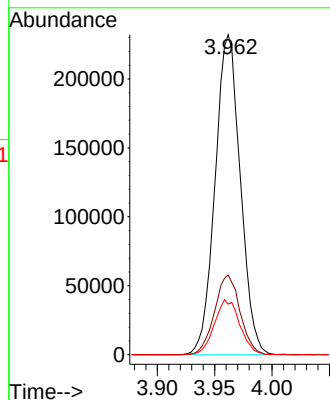
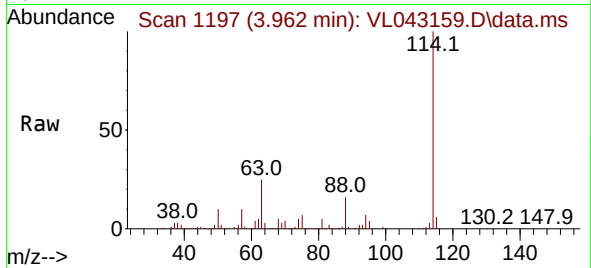




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.962 min Scan# 1197  
 Delta R.T. -0.000 min  
 Lab File: VL043159.D  
 Acq: 06 Nov 2025 10:17

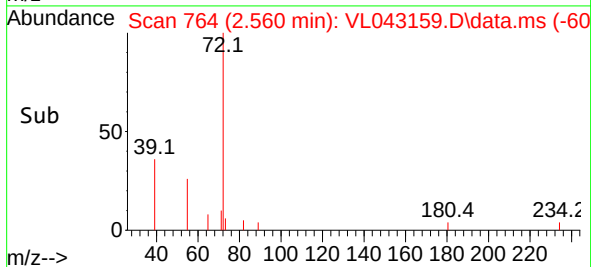
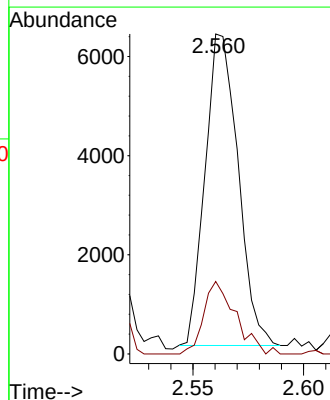
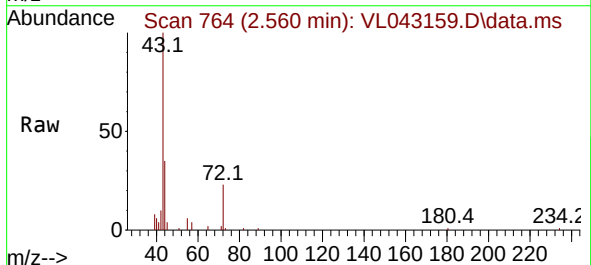
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 151-IA-2DUP

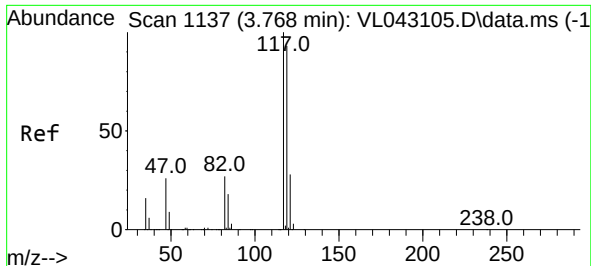
Tgt Ion:114 Resp: 354784  
 Ion Ratio Lower Upper  
 114 100  
 63 25.2 19.3 28.9  
 88 17.3 13.9 20.9



#34  
 2-Butanone  
 Concen: 0.273 ppbv  
 RT: 2.560 min Scan# 764  
 Delta R.T. 0.003 min  
 Lab File: VL043159.D  
 Acq: 06 Nov 2025 10:17

Tgt Ion: 43 Resp: 6502  
 Ion Ratio Lower Upper  
 43 100  
 72 22.6 18.4 27.6

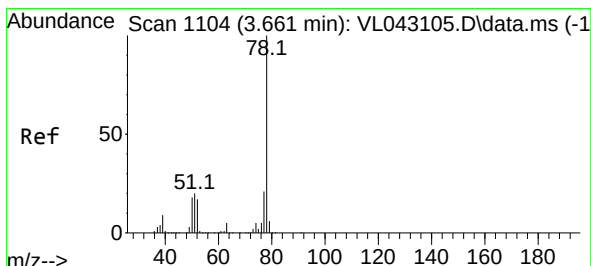
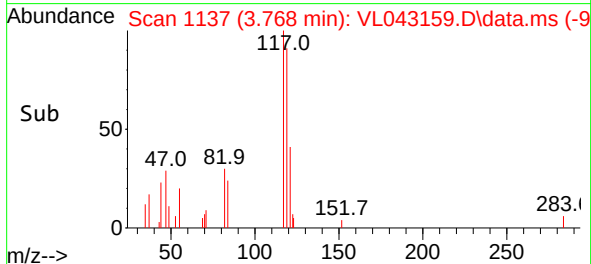
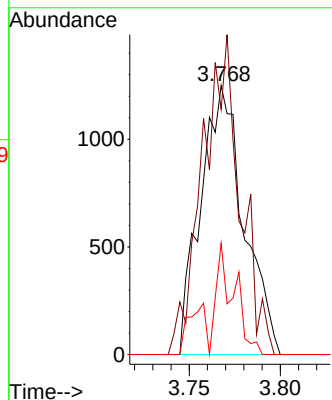
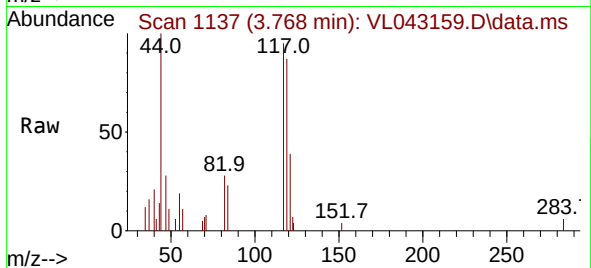




#35  
Carbon Tetrachloride  
Concen: 0.081 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

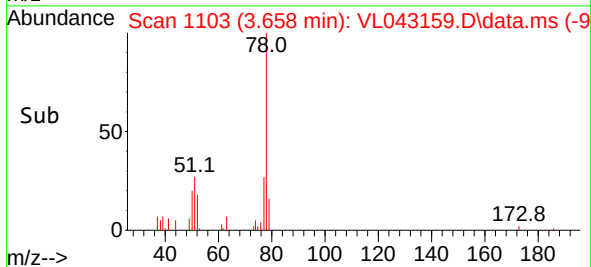
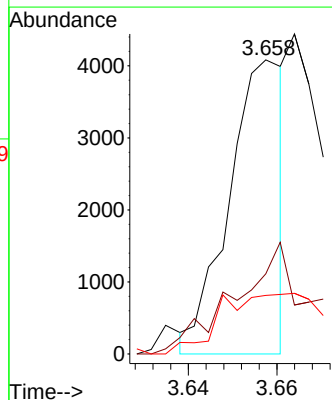
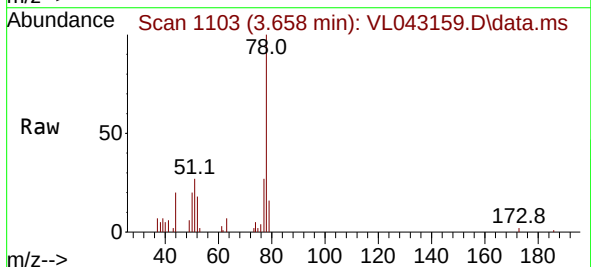
Instrument : MSVOA\_1  
ClientSampleId : 151-IA-2DUP

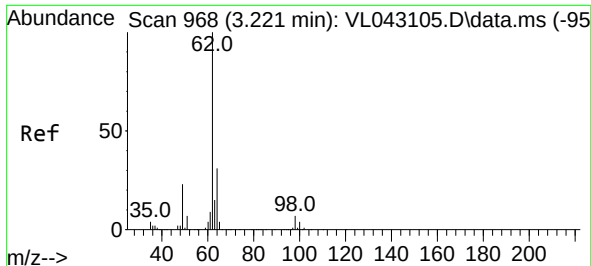
Tgt Ion:117 Resp: 2069  
Ion Ratio Lower Upper  
117 100  
119 91.2 74.1 111.1  
121 41.4 22.2 33.2#



#36  
Benzene  
Concen: 0.104 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 78 Resp: 3482  
Ion Ratio Lower Upper  
78 100  
77 23.4 17.0 25.6  
50 17.3 14.6 22.0

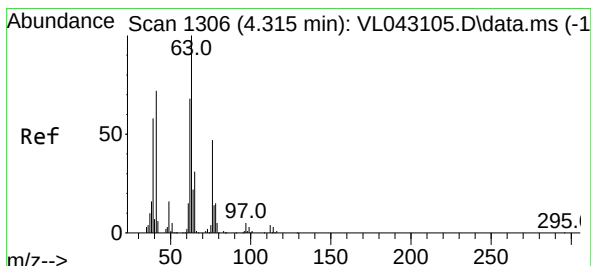
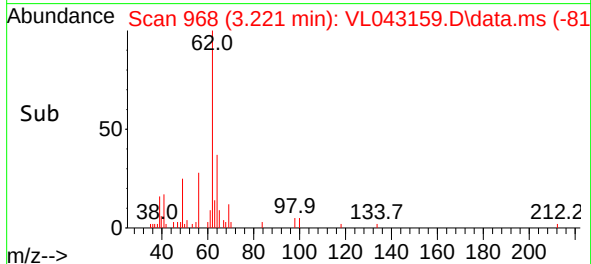
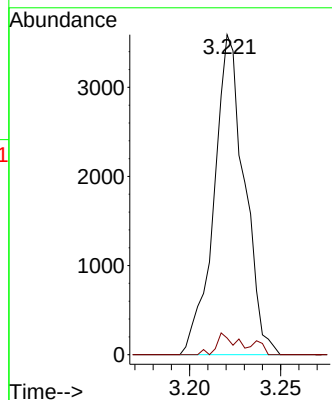
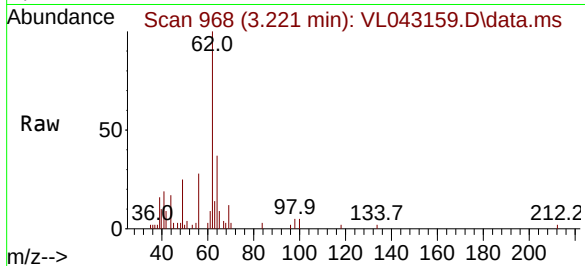




#37  
 1,2-Dichloroethane  
 Concen: 0.217 ppbv  
 RT: 3.221 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VL043159.D  
 Acq: 06 Nov 2025 10:17

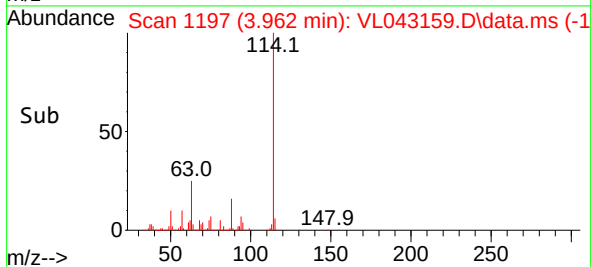
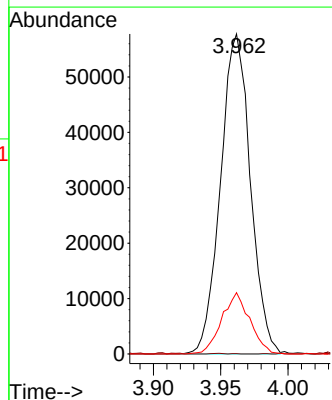
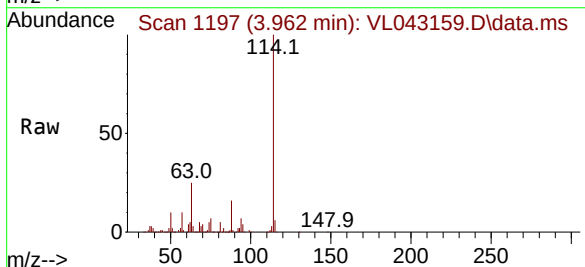
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 151-IA-2DUP

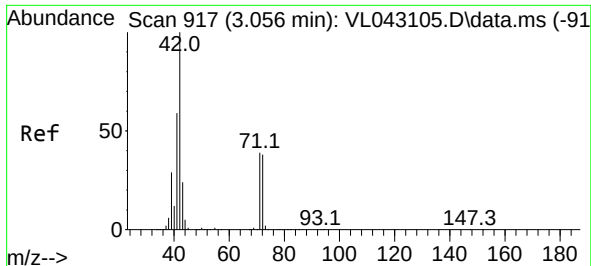
Tgt Ion: 62 Resp: 4176  
 Ion Ratio Lower Upper  
 62 100  
 98 6.0 5.8 8.6



#39  
 1,2-Dichloropropane  
 Concen: 7.292 ppbv  
 RT: 3.962 min Scan# 1197  
 Delta R.T. -0.353 min  
 Lab File: VL043159.D  
 Acq: 06 Nov 2025 10:17

Tgt Ion: 63 Resp: 89086  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 58.0 87.0#  
 62 19.2 54.7 82.1#

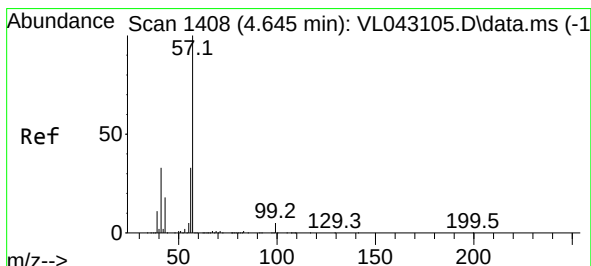
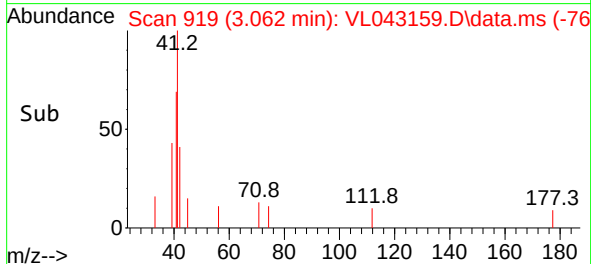
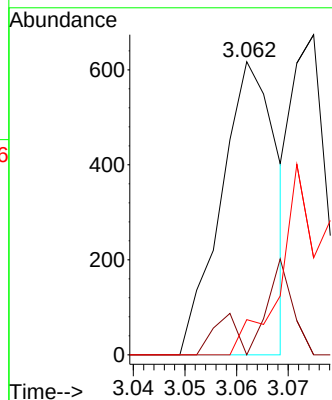
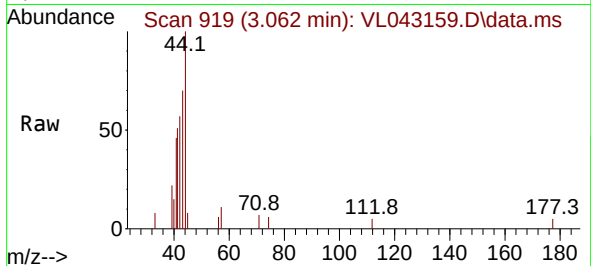




#41  
Tetrahydrofuran  
Concen: 0.035 ppbv  
RT: 3.062 min Scan# 917  
Delta R.T. 0.006 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

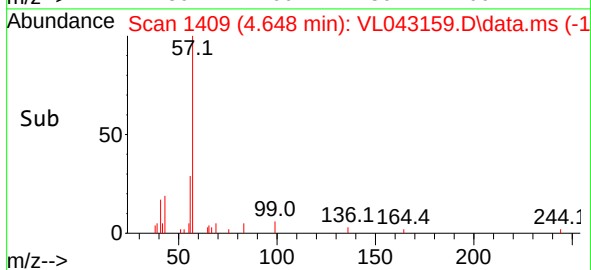
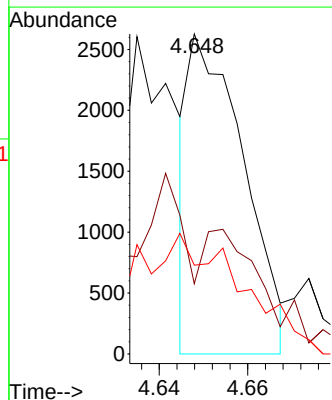
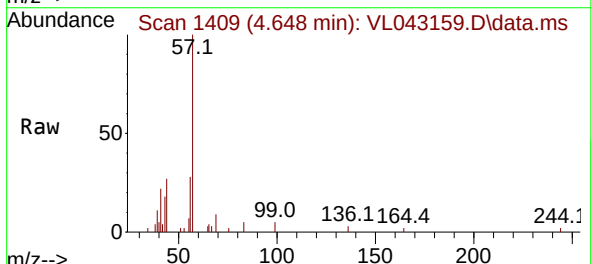
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-IA-2DUP

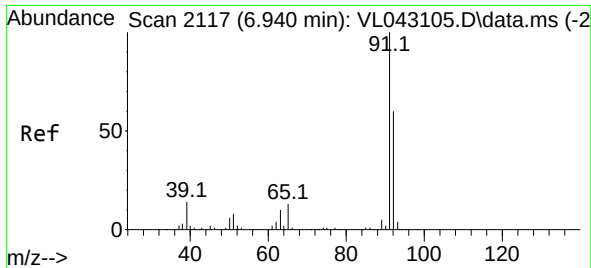
Tgt Ion: 42 Resp: 462  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.3 46.9#  
71 0.0 30.4 45.6#



#44  
2,2,4-Trimethylpentane  
Concen: 0.040 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.003 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 57 Resp: 2264  
Ion Ratio Lower Upper  
57 100  
41 130.6 26.3 39.5#  
56 112.9 25.9 38.9#

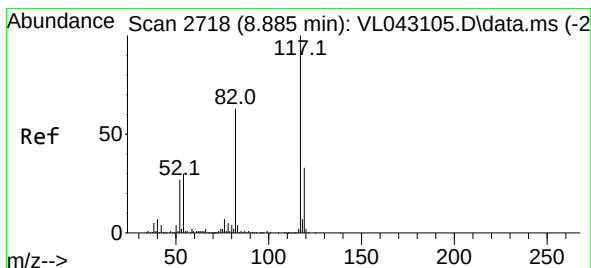
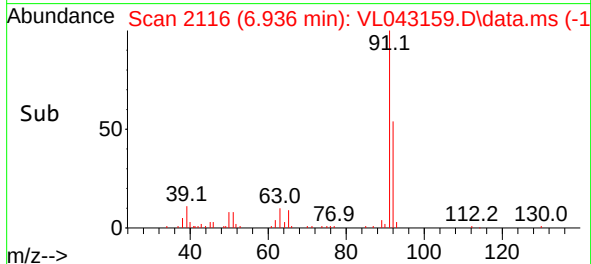
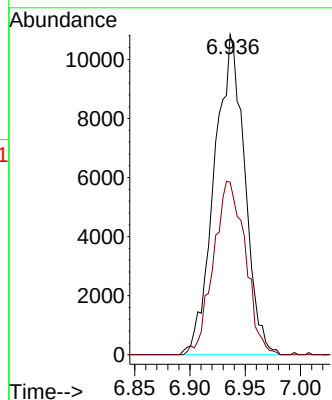
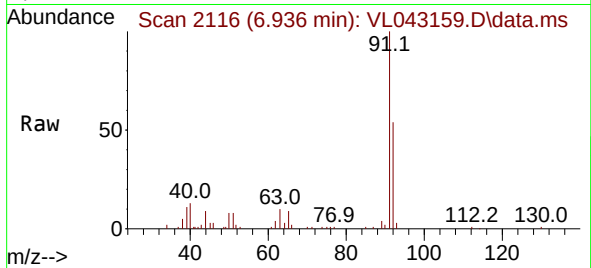




#53  
Toluene  
Concen: 0.520 ppbv  
RT: 6.936 min Scan# 2116  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

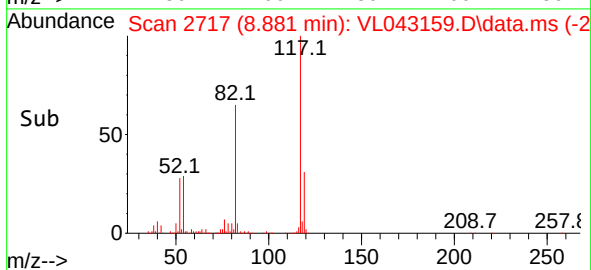
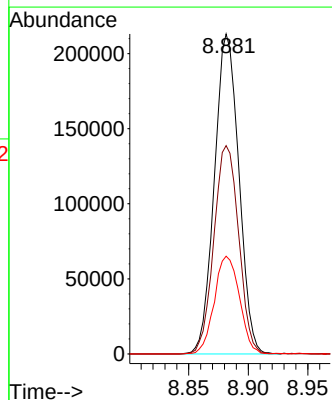
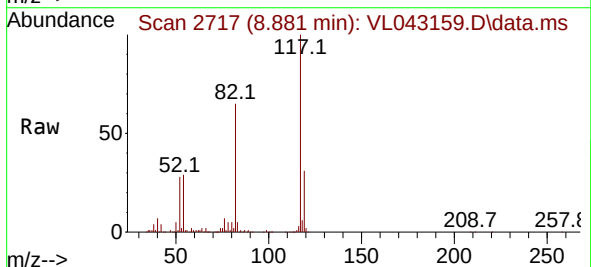
Instrument :  
MSVOA\_L  
ClientSampleId :  
151-IA-2DUP

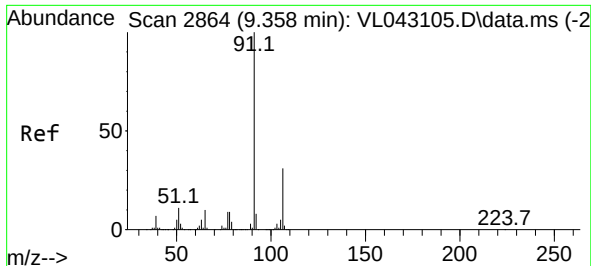
Tgt Ion: 91 Resp: 20621  
Ion Ratio Lower Upper  
91 100  
92 57.0 48.8 73.2



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2717  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 117 Resp: 303947  
Ion Ratio Lower Upper  
117 100  
82 66.1 53.8 80.8  
119 31.6 25.4 38.0

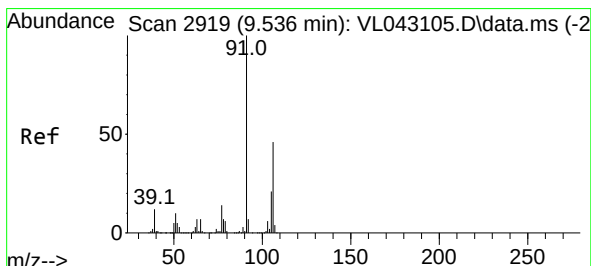
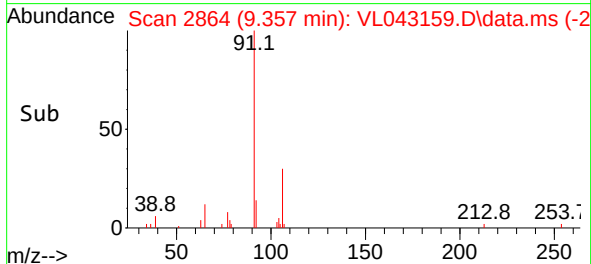
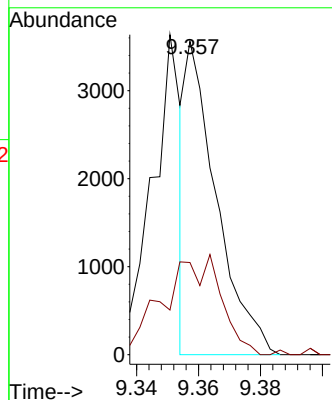
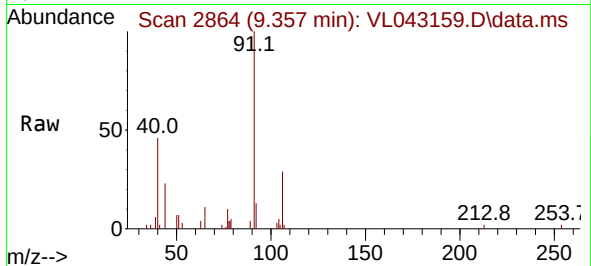




#58  
Ethyl Benzene  
Concen: 0.047 ppbv  
RT: 9.357 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

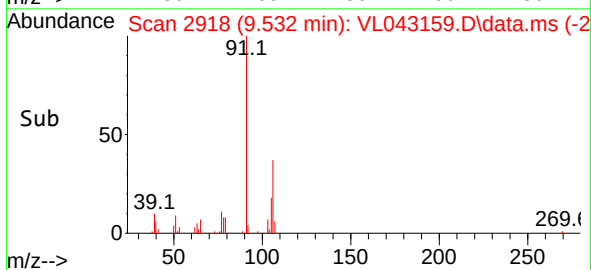
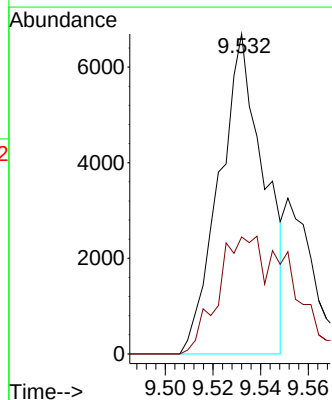
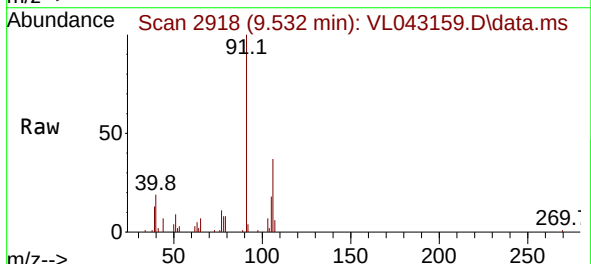
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-IA-2DUP

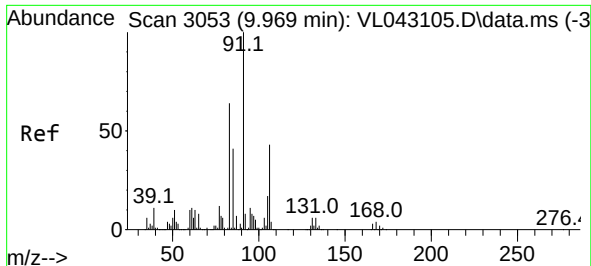
Tgt Ion: 91 Resp: 2454  
Ion Ratio Lower Upper  
91 100  
106 27.9 24.8 37.2



#59  
m/p-Xylene  
Concen: 0.210 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 91 Resp: 8752  
Ion Ratio Lower Upper  
91 100  
106 59.3 38.0 57.0#

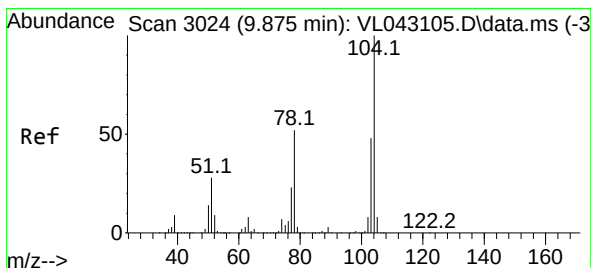
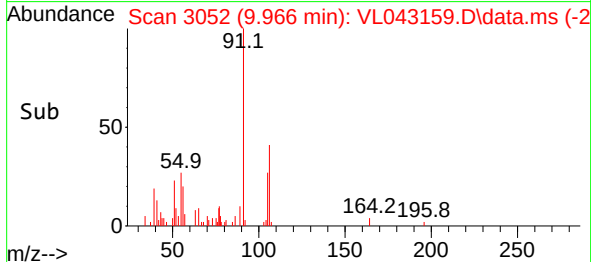
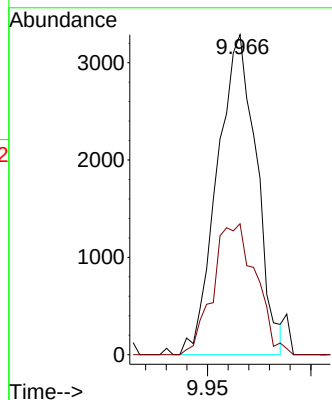
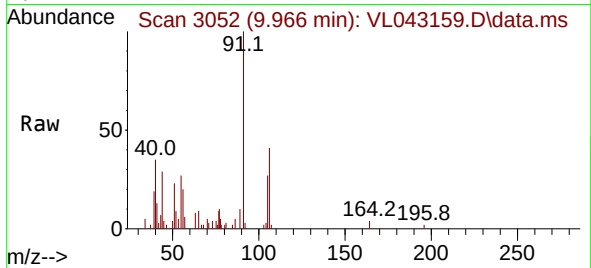




#60  
o-Xylene  
Concen: 0.105 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

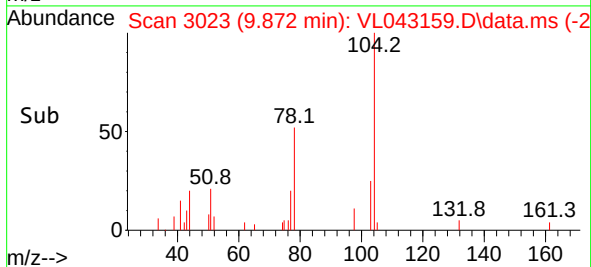
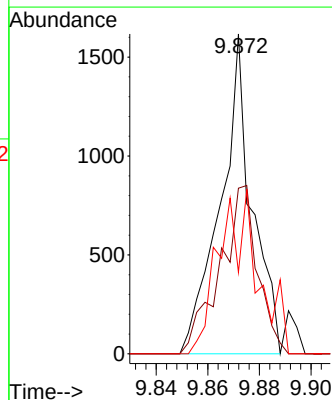
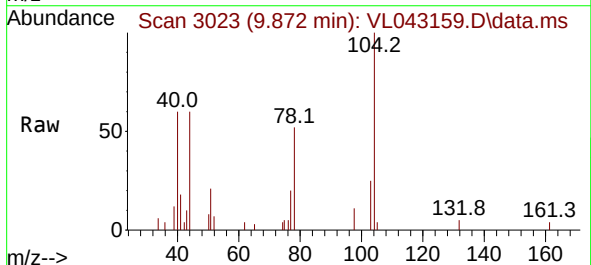
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-IA-2DUP

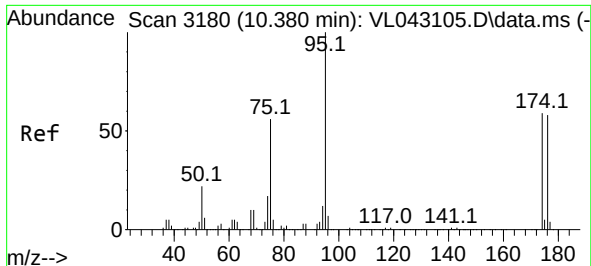
Tgt Ion: 91 Resp: 4326  
Ion Ratio Lower Upper  
91 100  
106 44.9 21.9 65.8



#61  
Styrene  
Concen: 0.074 ppbv  
RT: 9.872 min Scan# 3023  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 104 Resp: 1372  
Ion Ratio Lower Upper  
104 100  
78 62.4 40.2 60.2#  
103 62.9 36.9 55.3#

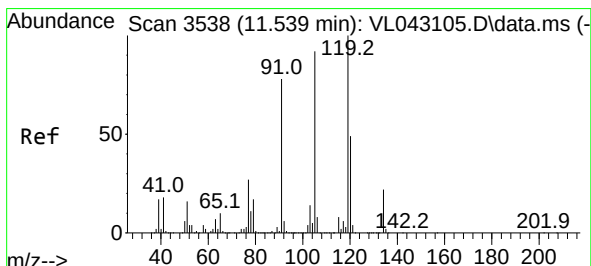
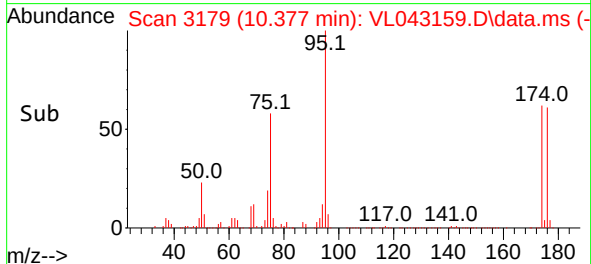
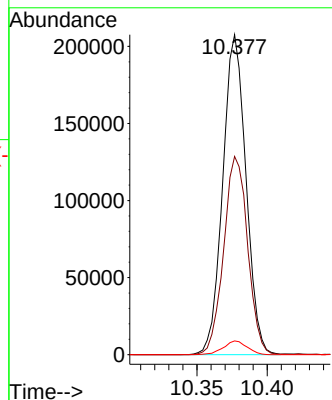
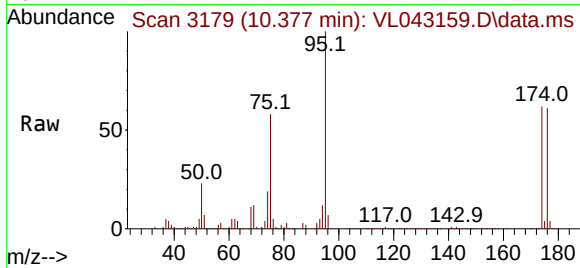




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.102 ppbv  
RT: 10.377 min Scan# 3180  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

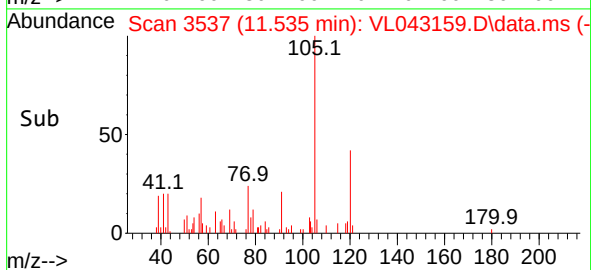
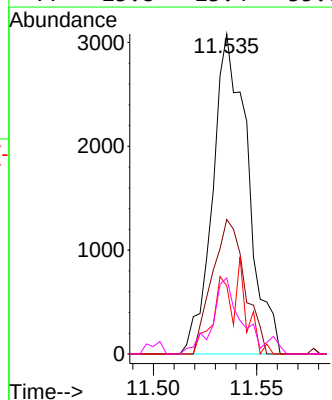
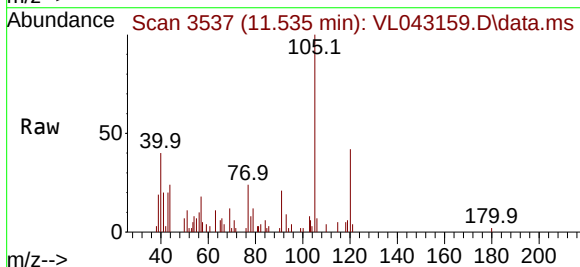
Instrument :  
MSVOA\_1  
ClientSampleId :  
151-IA-2DUP

Tgt Ion: 95 Resp: 238666  
Ion Ratio Lower Upper  
95 100  
174 63.9 48.3 72.5  
175 4.4 3.8 5.8



#74  
1,2,4-Trimethylbenzene  
Concen: 0.078 ppbv  
RT: 11.535 min Scan# 3537  
Delta R.T. -0.004 min  
Lab File: VL043159.D  
Acq: 06 Nov 2025 10:17

Tgt Ion: 105 Resp: 3636  
Ion Ratio Lower Upper  
105 100  
120 42.0 42.8 64.2#  
91 21.3 68.3 102.5#  
77 23.8 23.4 35.0





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043161.D  
 Acq On : 06 Nov 2025 11:36  
 Operator : SY/MD  
 Sample : Q3556-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-IA1

Quant Time: Nov 07 00:20:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

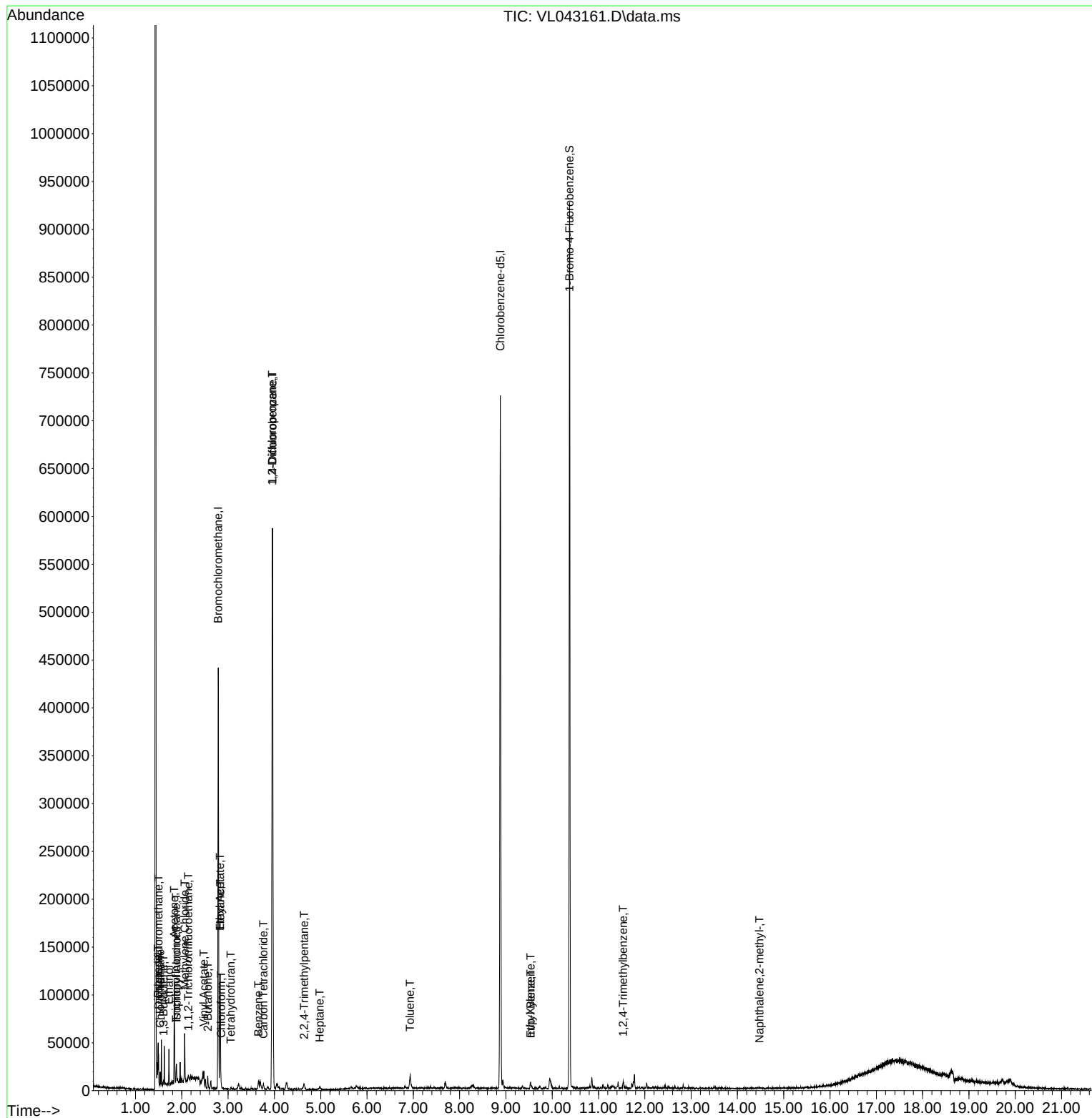
| Compound                    |                           | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|---------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |                           |        |       |          |          |        |          |
| Internal Standards          |                           |        |       |          |          |        |          |
| 1)                          | Bromochloromethane        | 2.787  | 49    | 117302   | 10.000   | ppbv   | 0.00     |
| 33)                         | 1,4-Difluorobenzene       | 3.959  | 114   | 349960   | 10.000   | ppbv   | 0.00     |
| 55)                         | Chlorobenzene-d5          | 8.879  | 117   | 295308   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |                           |        |       |          |          |        |          |
| 68)                         | 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 234219   | 10.204   | ppbv   | 0.00     |
| Spiked Amount               |                           | 10.000 | Range | 65 - 135 | Recovery | =      | 102.000% |
| Target Compounds            |                           |        |       |          |          |        | Qvalue   |
| 2)                          | Dichlorodifluoromethane   | 1.499  | 85    | 7506     | 0.450    | ppbv   | 99       |
| 4)                          | Chloromethane             | 1.531  | 50    | 3813     | 0.577    | ppbv   | 93       |
| 9)                          | Propene                   | 1.489  | 41    | 3516     | 0.439    | ppbv # | 80       |
| 10)                         | Heptane                   | 4.979  | 43    | 715      | 0.031    | ppbv # | 52       |
| 11)                         | Trichlorofluoromethane    | 1.878  | 101   | 4040     | 0.248    | ppbv   | 86       |
| 12)                         | 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 1118     | 0.085    | ppbv # | 76       |
| 13)                         | Ethanol                   | 1.722  | 45    | 11228    | 3.793    | ppbv   | 92       |
| 15)                         | Acetone                   | 1.836  | 43    | 49828    | 3.152    | ppbv   | 100      |
| 16)                         | 1,3-Butadiene             | 1.603  | 39    | 1021     | 0.136    | ppbv # | 13       |
| 19)                         | Isopropyl Alcohol         | 1.888  | 45    | 5602     | 0.569    | ppbv # | 1        |
| 20)                         | Methylene Chloride        | 2.062  | 84    | 7591     | 1.215    | ppbv   | 91       |
| 23)                         | Vinyl Acetate             | 2.477  | 43    | 3997     | 0.173    | ppbv # | 58       |
| 25)                         | Ethyl Acetate             | 2.826  | 43    | 20126    | 0.513    | ppbv # | 79       |
| 26)                         | Hexane                    | 2.829  | 57    | 27779    | 1.538    | ppbv # | 41       |
| 29)                         | Chloroform                | 2.852  | 83    | 1027     | 0.039    | ppbv   | 93       |
| 34)                         | 2-Butanone                | 2.561  | 43    | 7360     | 0.313    | ppbv   | 93       |
| 35)                         | Carbon Tetrachloride      | 3.765  | 117   | 1370     | 0.054    | ppbv # | 87       |
| 36)                         | Benzene                   | 3.655  | 78    | 4711     | 0.143    | ppbv   | 95       |
| 39)                         | 1,2-Dichloropropane       | 3.956  | 63    | 88617    | 7.354    | ppbv # | 24       |
| 41)                         | Tetrahydrofuran           | 3.059  | 42    | 579      | 0.044    | ppbv # | 48       |
| 44)                         | 2,2,4-Trimethylpentane    | 4.645  | 57    | 2245     | 0.040    | ppbv # | 29       |
| 53)                         | Toluene                   | 6.930  | 91    | 8680     | 0.222    | ppbv   | 98       |
| 58)                         | Ethyl Benzene             | 9.532  | 91    | 3414     | 0.067    | ppbv   | 92       |
| 59)                         | m/p-Xylene                | 9.532  | 91    | 3414     | 0.084    | ppbv   | 98       |
| 74)                         | 1,2,4-Trimethylbenzene    | 11.533 | 105   | 1660     | 0.037    | ppbv # | 54       |
| 80)                         | Naphthalene,2-methyl-     | 14.478 | 142   | 583      | 0.047    | ppbv # | 72       |

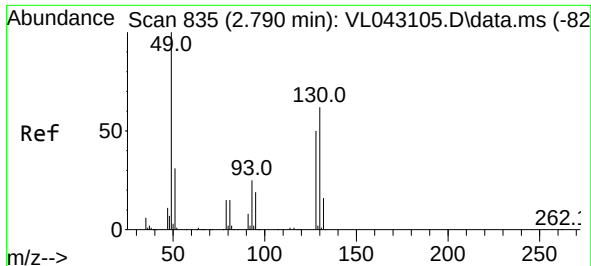
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL043161.D  
Acq On : 06 Nov 2025 11:36  
Operator : SY/MD  
Sample : Q3556-01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

Quant Time: Nov 07 00:20:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

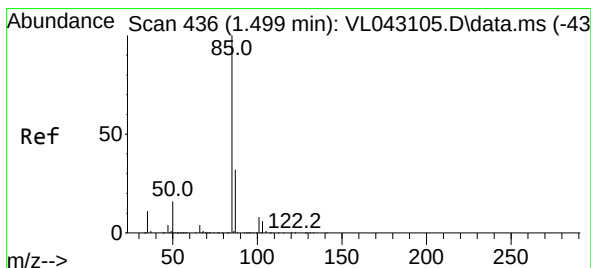
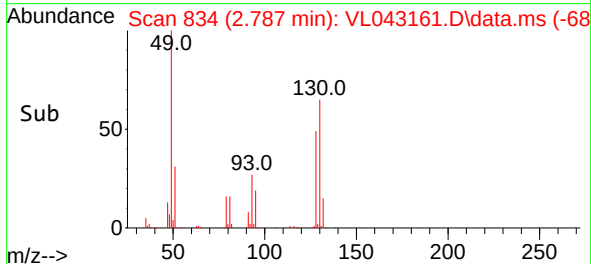
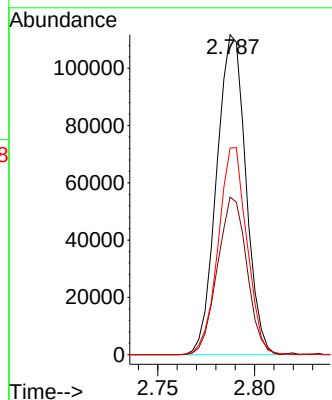
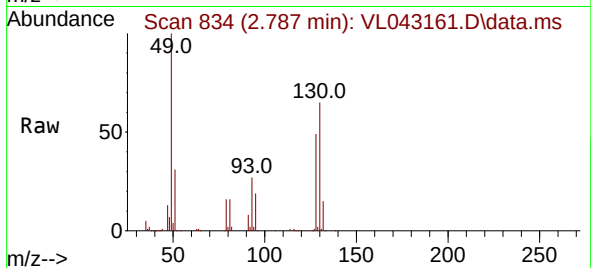




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

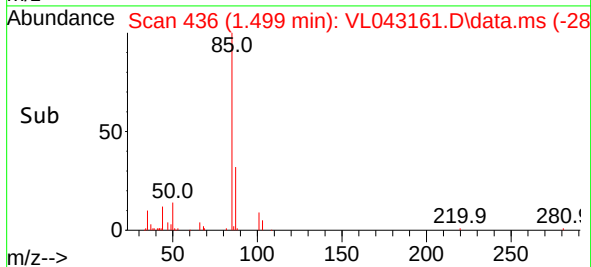
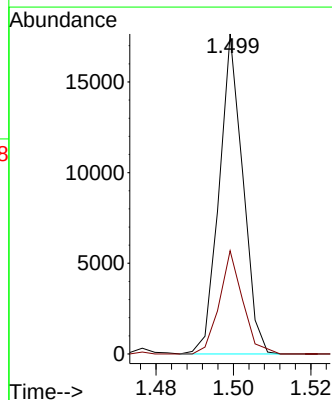
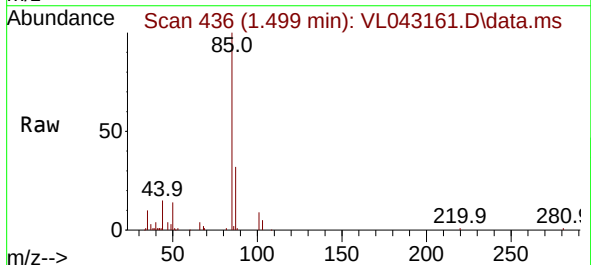
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA1

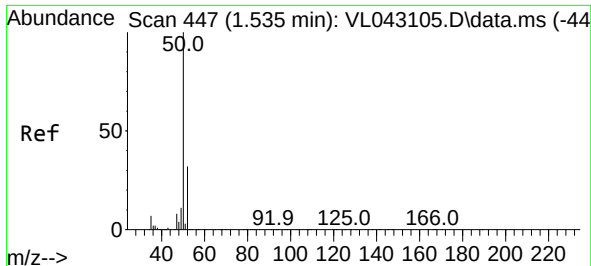
Tgt Ion: 49 Resp: 117302  
Ion Ratio Lower Upper  
49 100  
128 49.6 24.4 73.4  
130 63.6 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.450 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 85 Resp: 7506  
Ion Ratio Lower Upper  
85 100  
87 32.3 25.3 37.9

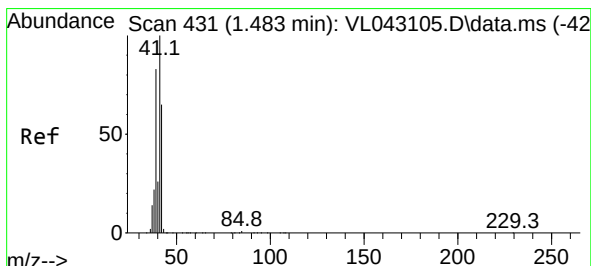
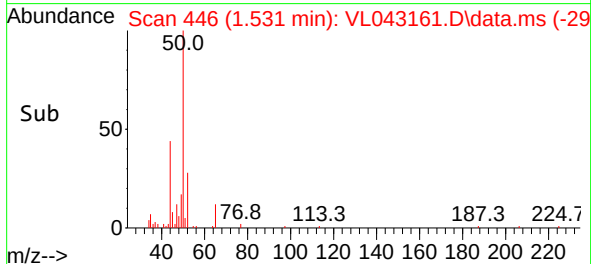
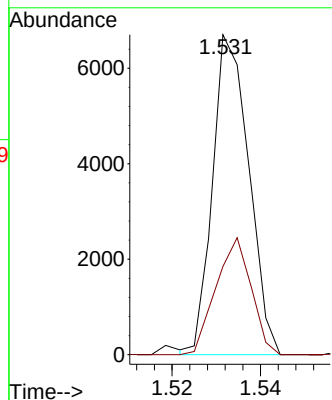
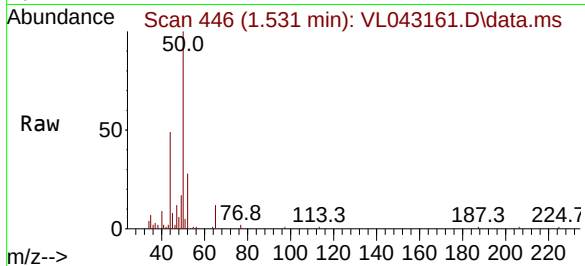




#4  
Chloromethane  
Concen: 0.577 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

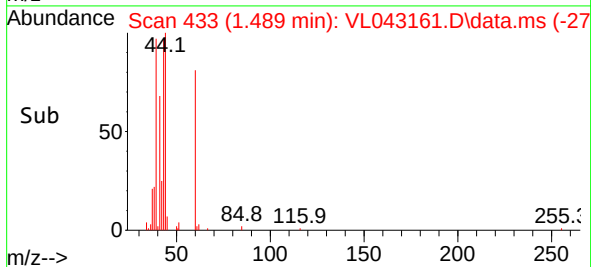
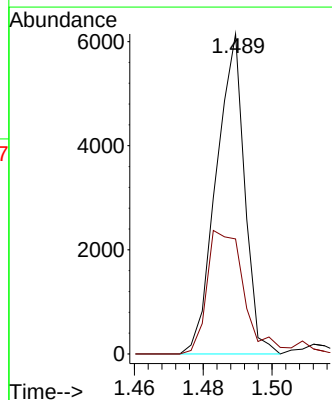
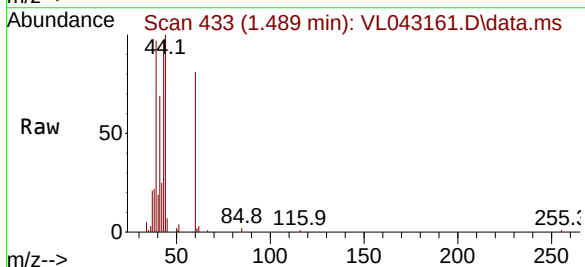
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ClientSampleId :  
131-IA1

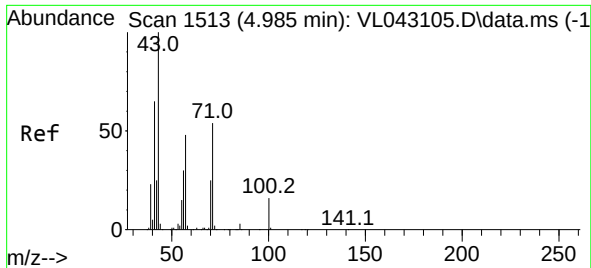
Tgt Ion: 50 Resp: 3813  
Ion Ratio Lower Upper  
50 100  
52 27.6 25.2 37.8



#9  
Propene  
Concen: 0.439 ppbv  
RT: 1.489 min Scan# 433  
Delta R.T. 0.007 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 41 Resp: 3516  
Ion Ratio Lower Upper  
41 100  
42 52.8 55.1 82.7#

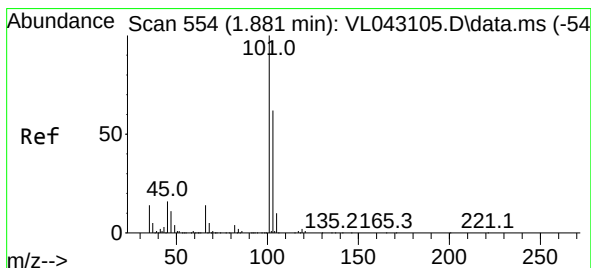
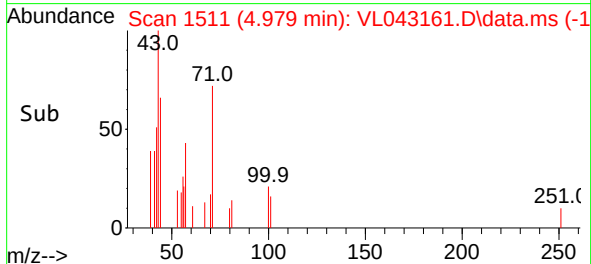
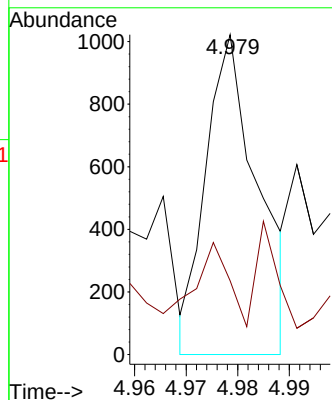
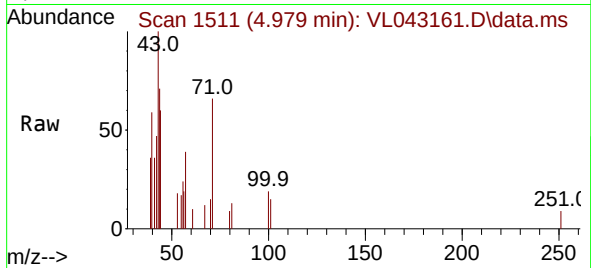




#10  
Heptane  
Concen: 0.031 ppbv  
RT: 4.979 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

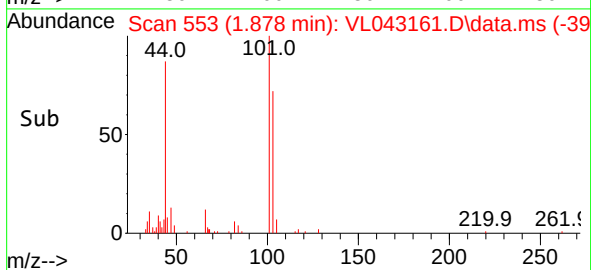
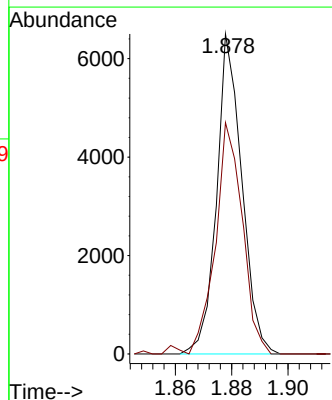
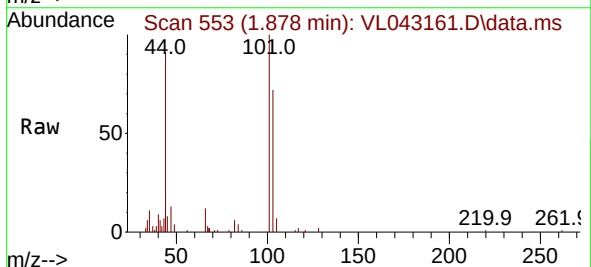
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MSVOA\_1  
ClientSampleId :  
131-IA1

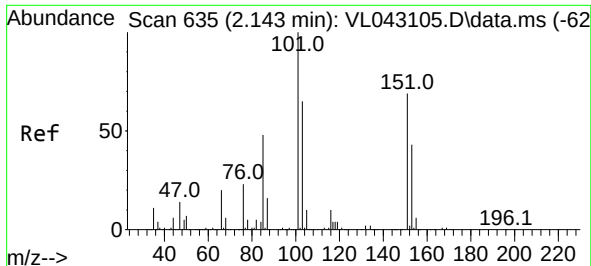
Tgt Ion: 43 Resp: 715  
Ion Ratio Lower Upper  
43 100  
57 84.2 40.8 61.2#



#11  
Trichlorofluoromethane  
Concen: 0.248 ppbv  
RT: 1.878 min Scan# 553  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 101 Resp: 4040  
Ion Ratio Lower Upper  
101 100  
103 72.3 49.3 73.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.085 ppbv

RT: 2.140 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA\_L

ClientSampleId :

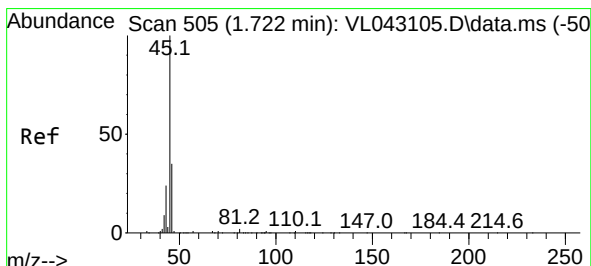
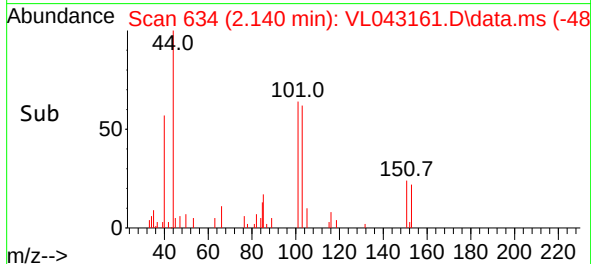
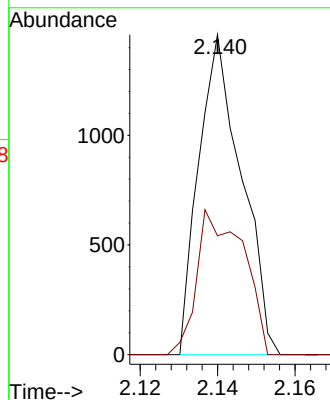
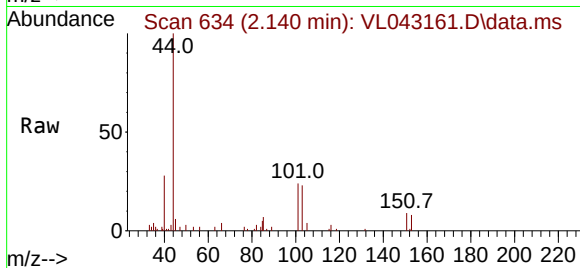
131-IA1

Tgt Ion:101 Resp: 1118

Ion Ratio Lower Upper

101 100

151 49.3 54.7 82.1#



#13

Ethanol

Concen: 3.793 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.000 min

Lab File: VL043161.D

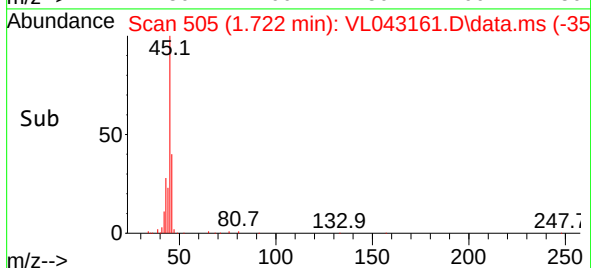
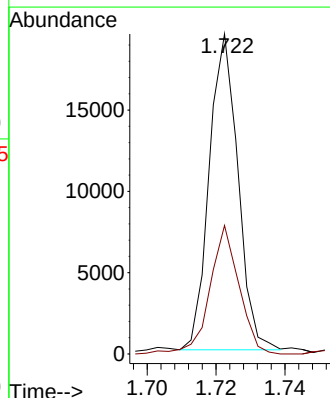
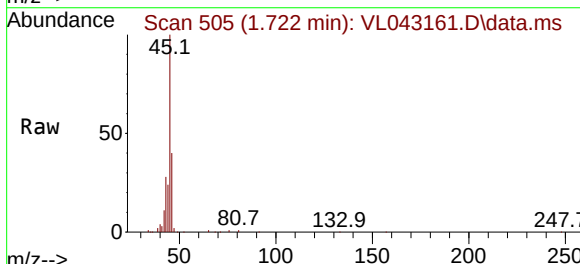
Acq: 06 Nov 2025 11:36

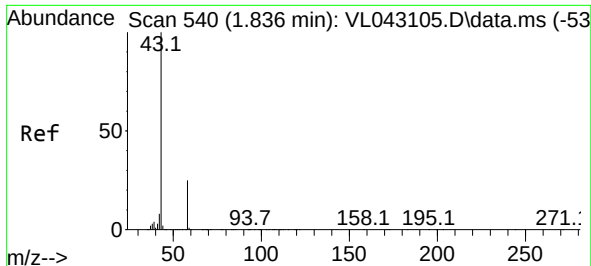
Tgt Ion: 45 Resp: 11228

Ion Ratio Lower Upper

45 100

46 41.5 14.7 58.9

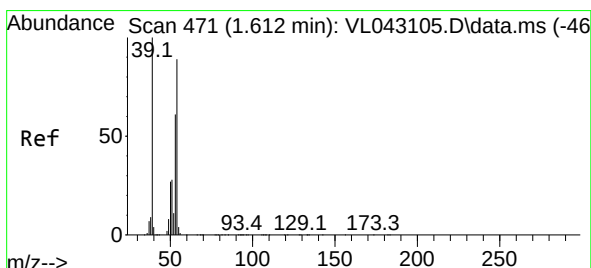
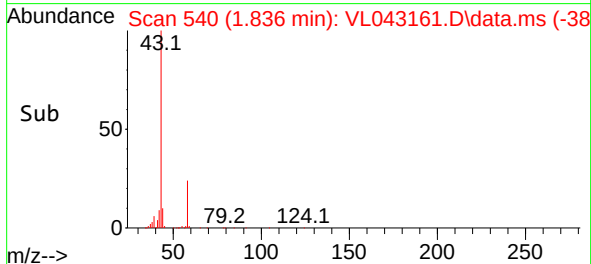
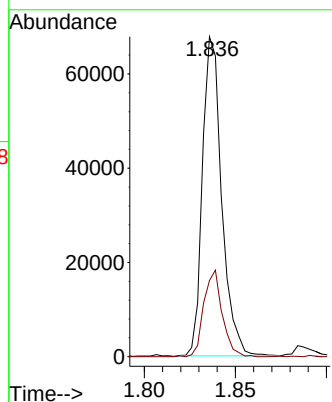
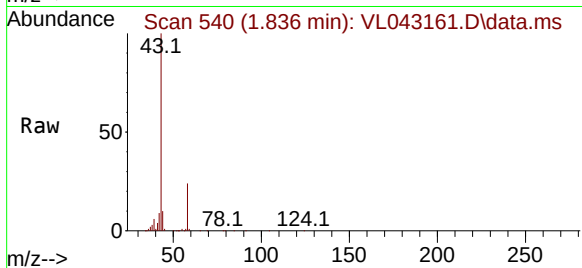




#15  
Acetone  
Concen: 3.152 ppbv  
RT: 1.836 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

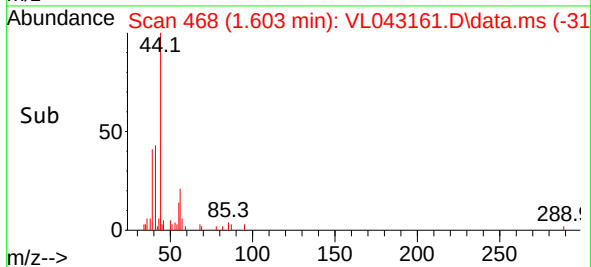
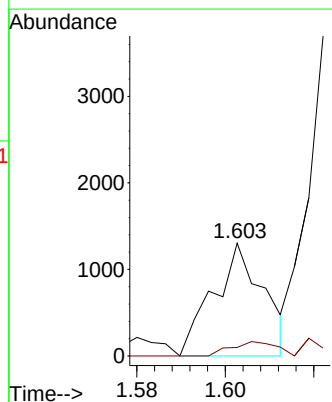
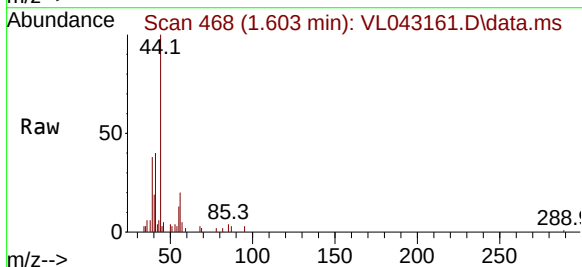
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-IA1

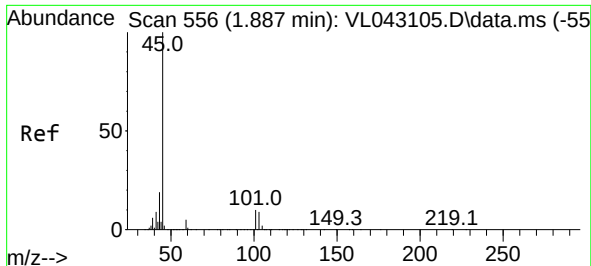
Tgt Ion: 43 Resp: 49828  
Ion Ratio Lower Upper  
43 100  
58 26.0 20.8 31.2



#16  
1,3-Butadiene  
Concen: 0.136 ppbv  
RT: 1.603 min Scan# 468  
Delta R.T. -0.010 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 39 Resp: 1021  
Ion Ratio Lower Upper  
39 100  
54 0.0 59.0 88.4#

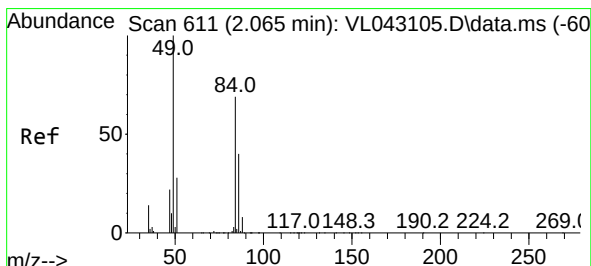
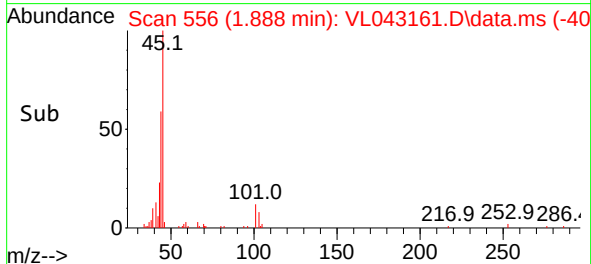
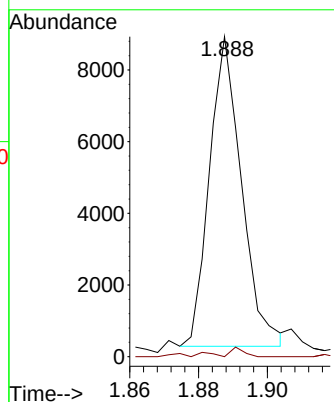
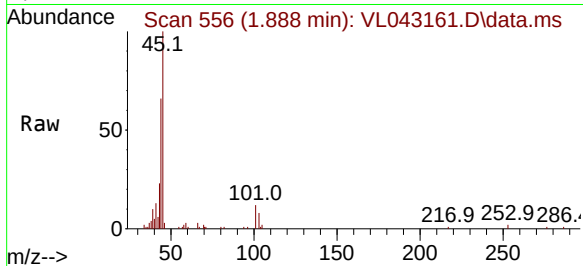




#19  
Isopropyl Alcohol  
Concen: 0.569 ppbv  
RT: 1.888 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

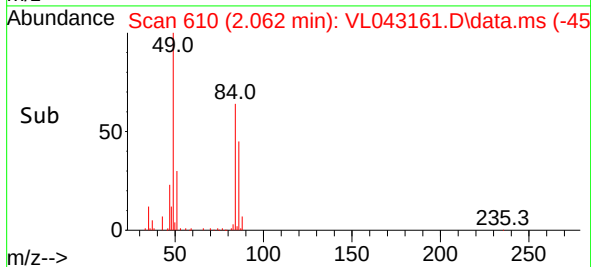
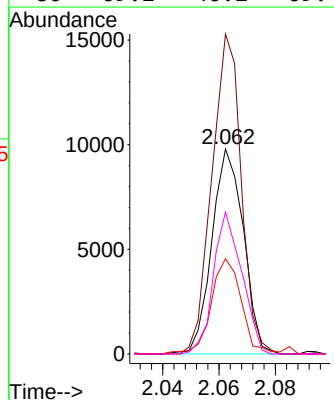
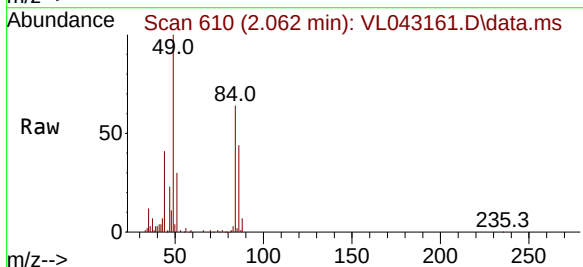
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-IA1

Tgt Ion: 45 Resp: 5602  
Ion Ratio Lower Upper  
45 100  
58 231.1 31.3 46.9#

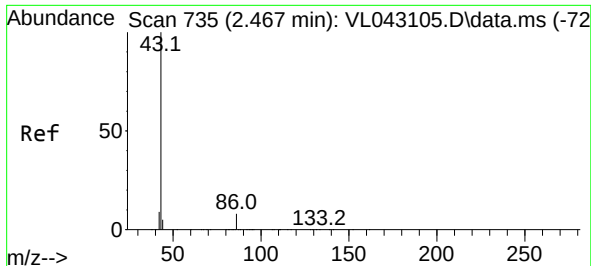


#20  
Methylene Chloride  
Concen: 1.215 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 84 Resp: 7591  
Ion Ratio Lower Upper  
84 100  
49 156.1 116.6 175.0  
51 45.4 34.8 52.2  
86 69.2 46.2 69.4



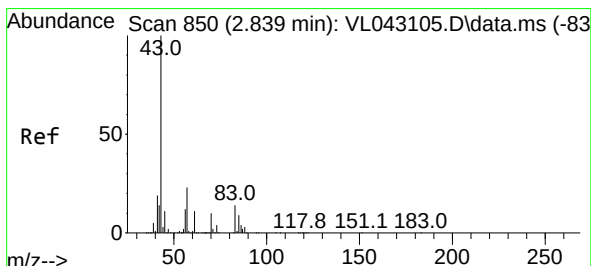
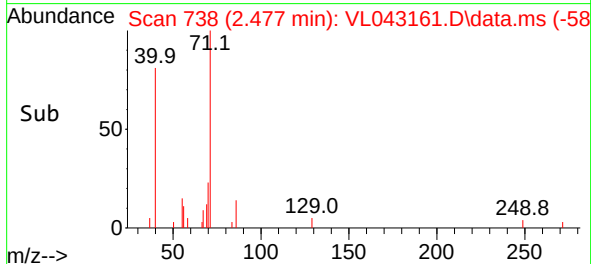
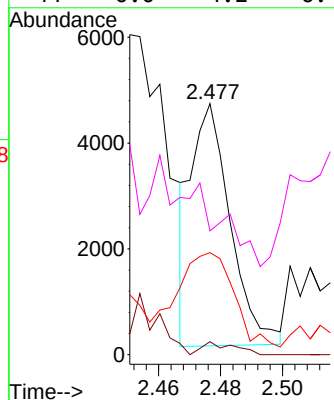
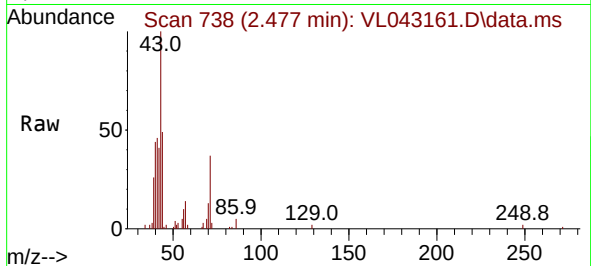




#23  
 Vinyl Acetate  
 Concen: 0.173 ppbv  
 RT: 2.477 min Scan# 71  
 Delta R.T. 0.010 min  
 Lab File: VL043161.D  
 Acq: 06 Nov 2025 11:36

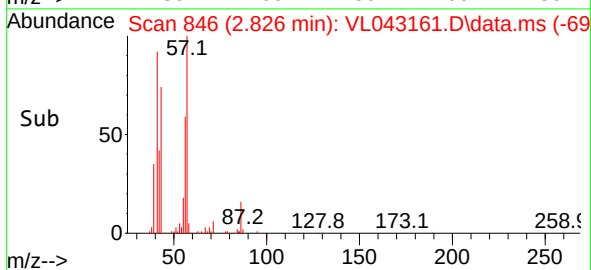
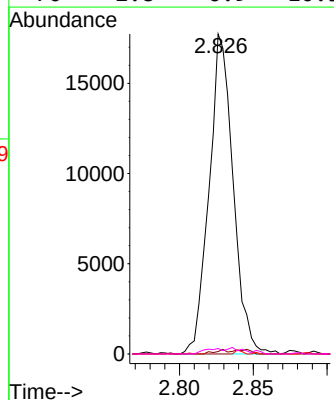
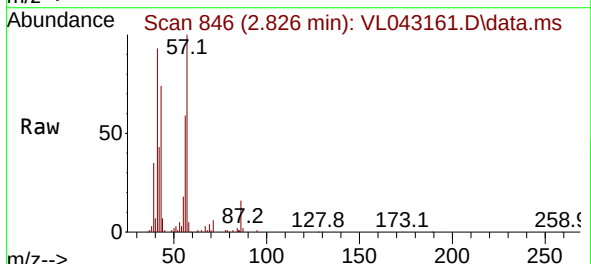
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 ClientSampleId :  
 131-1A1

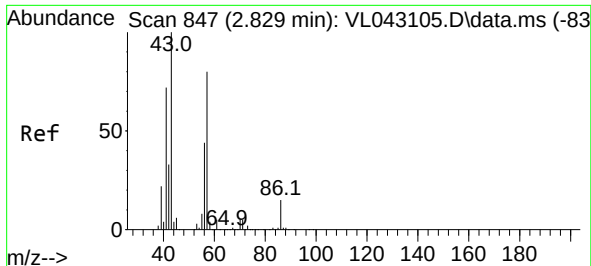
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 3997  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 5.7      | 6.2 9.2#    |
| 42 41.3     | 7.6 11.4#   |
| 44 0.0      | 4.2 6.4#    |



#25  
 Ethyl Acetate  
 Concen: 0.513 ppbv  
 RT: 2.826 min Scan# 846  
 Delta R.T. -0.013 min  
 Lab File: VL043161.D  
 Acq: 06 Nov 2025 11:36

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 20126 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 1.6      | 7.8 11.8#   |
| 61 0.4      | 7.0 10.6#   |
| 70 2.8      | 6.9 10.3#   |

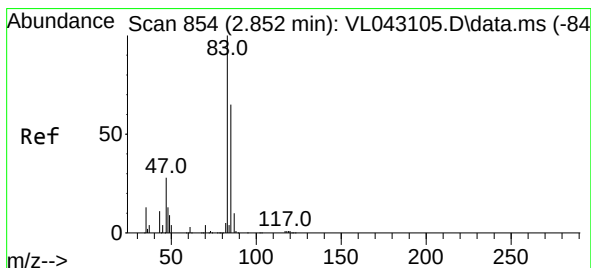
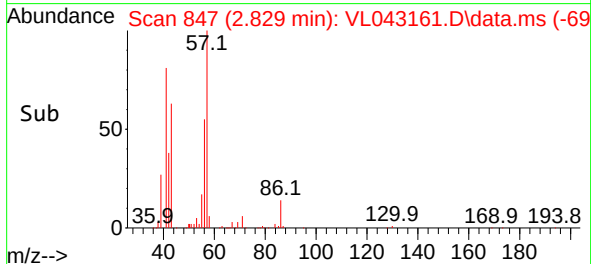
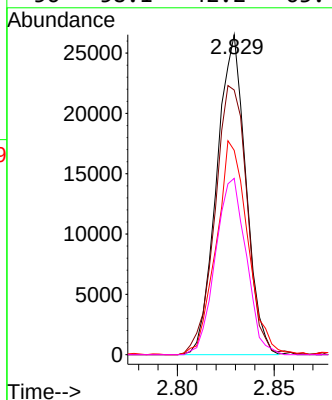
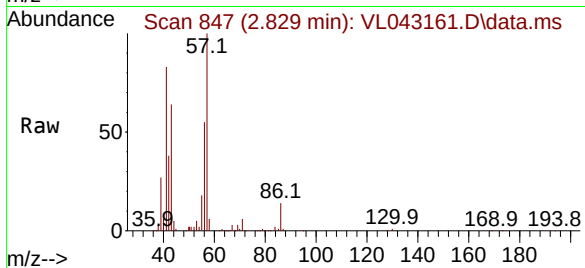




#26  
Hexane  
Concen: 1.538 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

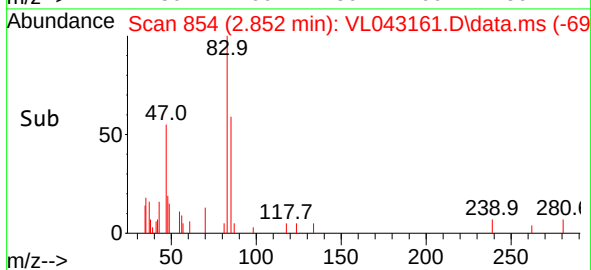
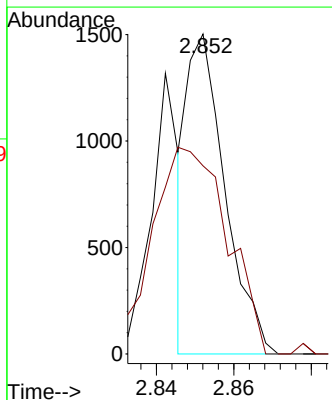
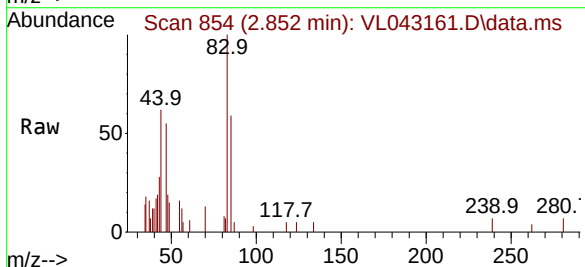
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-1A1

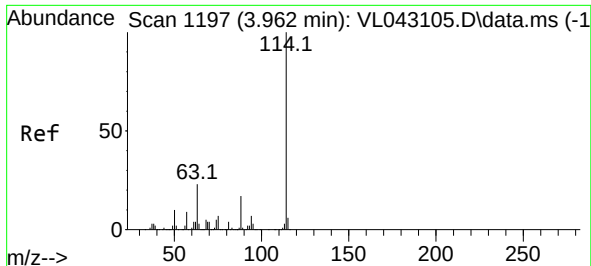
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 27779  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 93.6  | 71.4  | 107.0  |
| 43       | 72.5  | 178.5 | 267.7# |
| 56       | 58.1  | 42.2  | 63.4   |



#29  
Chloroform  
Concen: 0.039 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 1027  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 58.8  | 51.8  | 77.6  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

131-1A1

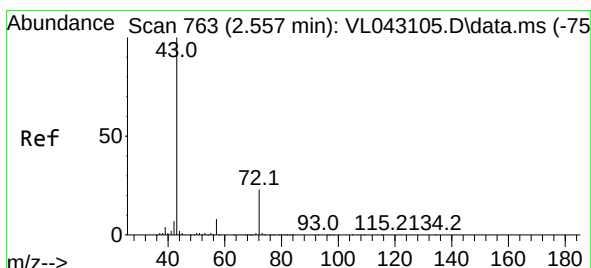
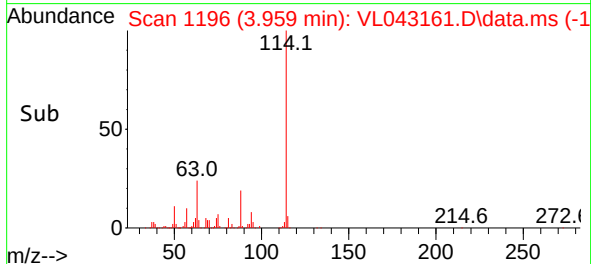
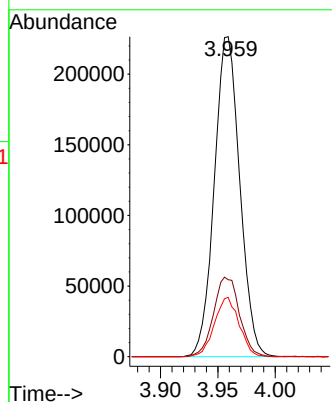
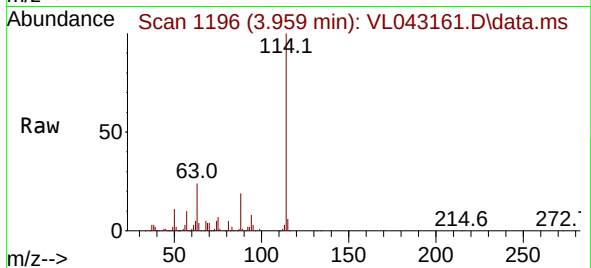
Tgt Ion:114 Resp: 349960

Ion Ratio Lower Upper

114 100

63 25.4 19.3 28.9

88 18.0 13.9 20.9



#34

2-Butanone

Concen: 0.313 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL043161.D

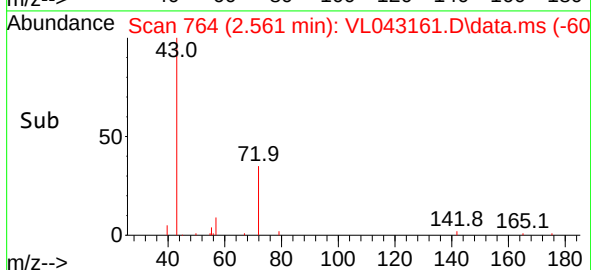
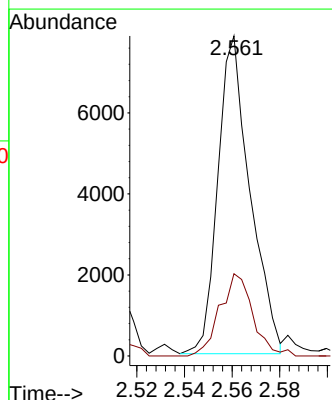
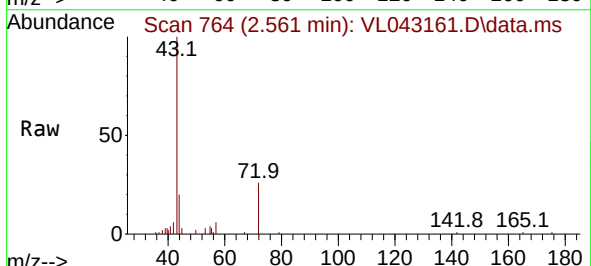
Acq: 06 Nov 2025 11:36

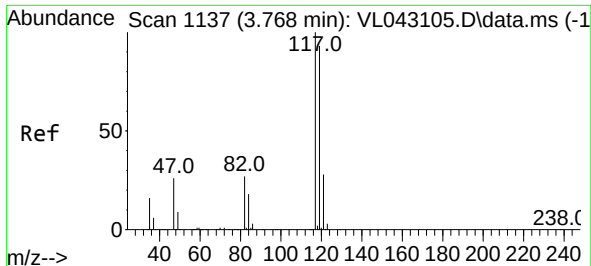
Tgt Ion: 43 Resp: 7360

Ion Ratio Lower Upper

43 100

72 26.5 18.4 27.6

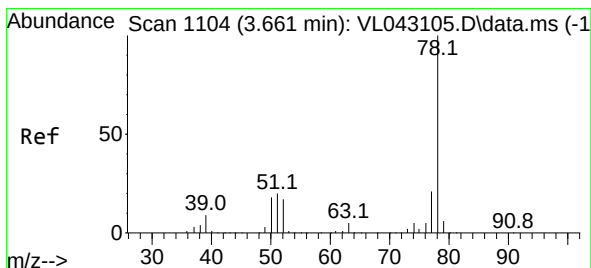
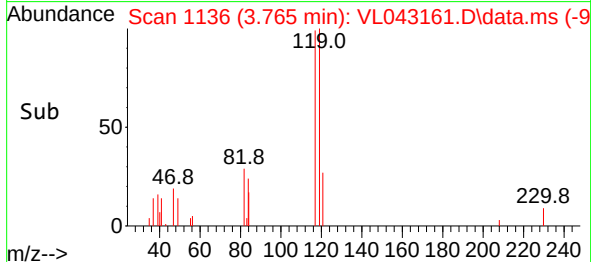
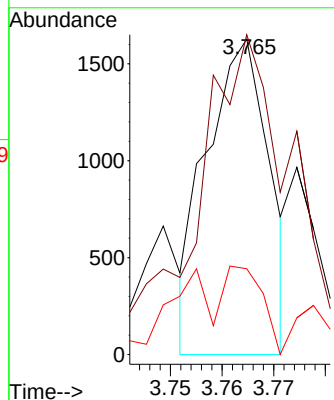
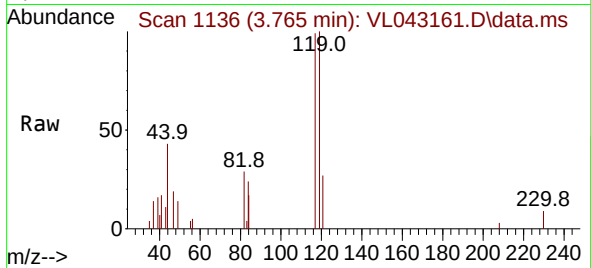




#35  
Carbon Tetrachloride  
Concen: 0.054 ppbv  
RT: 3.765 min Scan# 1137  
Delta R.T. -0.003 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

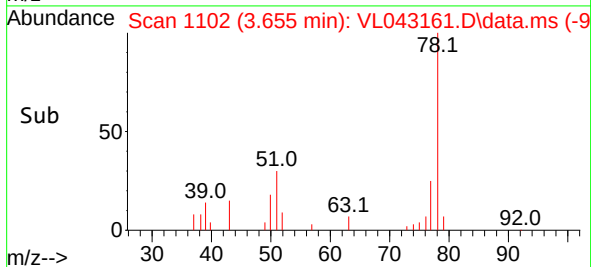
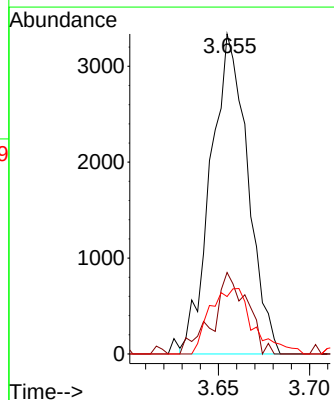
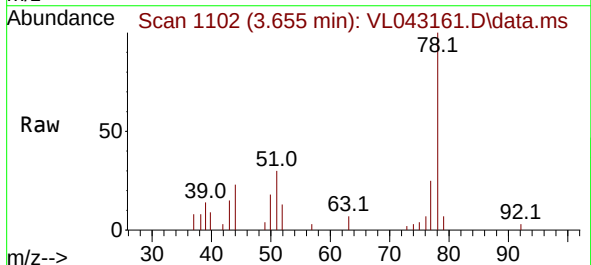
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-1A1

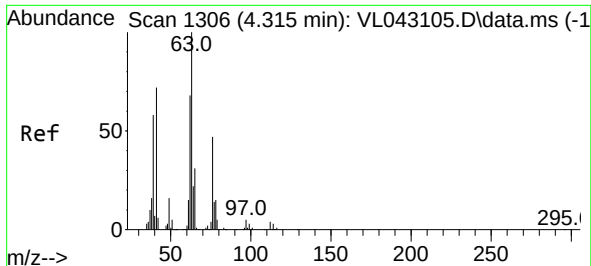
Tgt Ion:117 Resp: 1370  
Ion Ratio Lower Upper  
117 100  
119 103.6 74.1 111.1  
121 36.7 22.2 33.2#



#36  
Benzene  
Concen: 0.143 ppbv  
RT: 3.655 min Scan# 1102  
Delta R.T. -0.006 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 78 Resp: 4711  
Ion Ratio Lower Upper  
78 100  
77 25.5 17.0 25.6  
50 18.0 14.6 22.0





#39

1,2-Dichloropropane

Concen: 7.354 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.359 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA\_L

ClientSampleId :

131-IA1

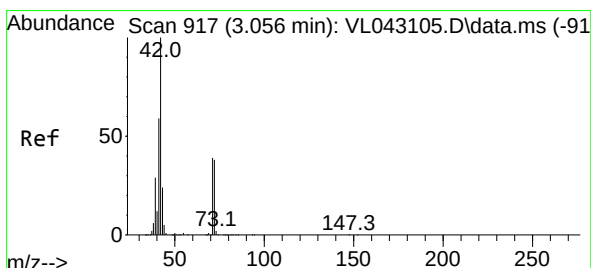
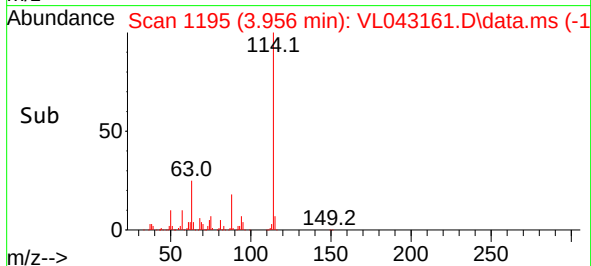
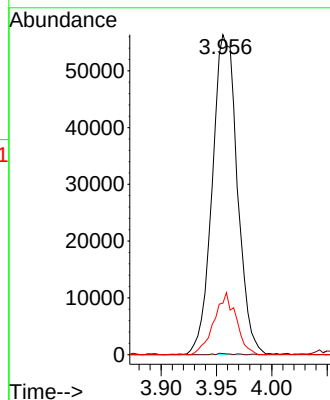
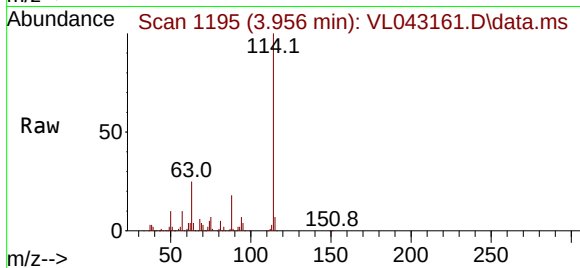
Tgt Ion: 63 Resp: 88617

Ion Ratio Lower Upper

63 100

41 0.2 58.0 87.0#

62 16.1 54.7 82.1#



#41

Tetrahydrofuran

Concen: 0.044 ppbv

RT: 3.059 min Scan# 918

Delta R.T. 0.003 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

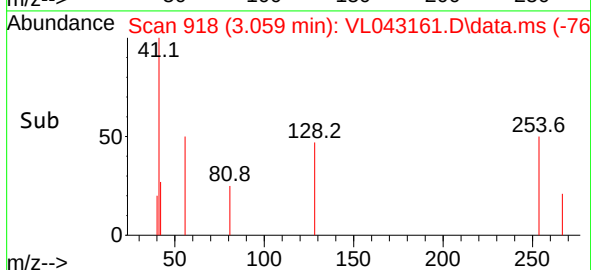
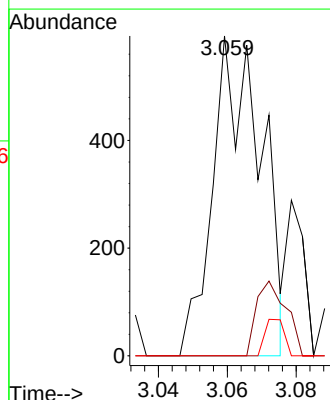
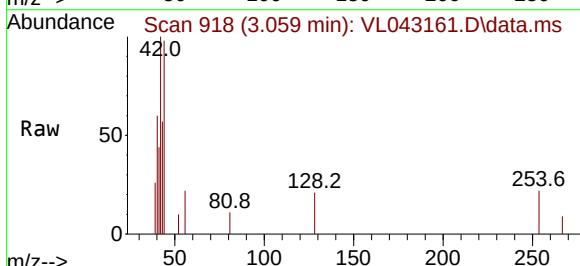
Tgt Ion: 42 Resp: 579

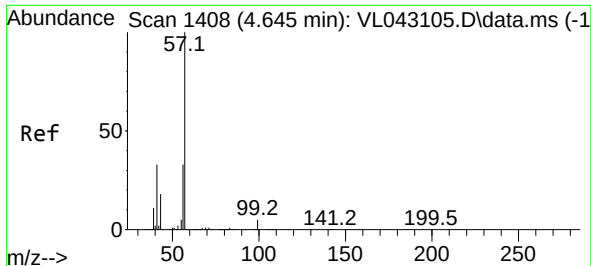
Ion Ratio Lower Upper

42 100

72 14.3 31.3 46.9#

71 0.0 30.4 45.6#

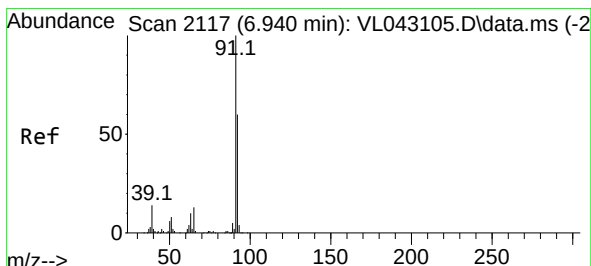
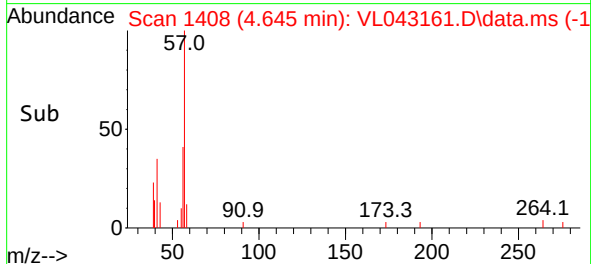
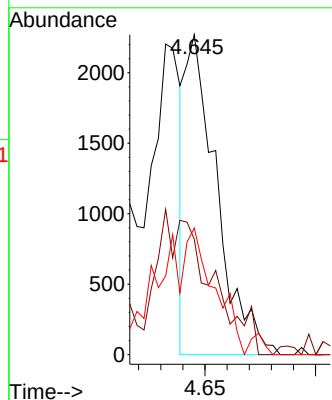
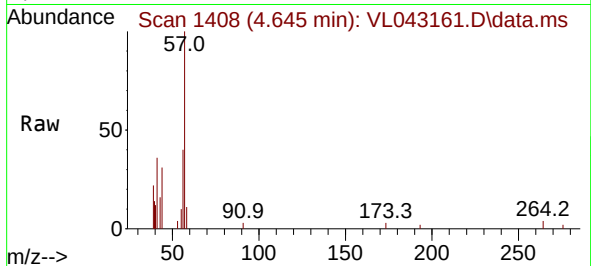




#44  
2,2,4-Trimethylpentane  
Concen: 0.040 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. 0.000 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

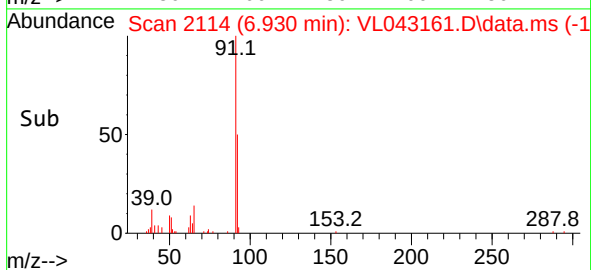
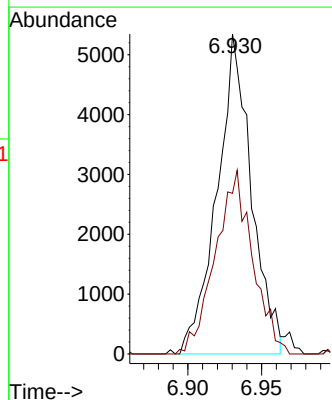
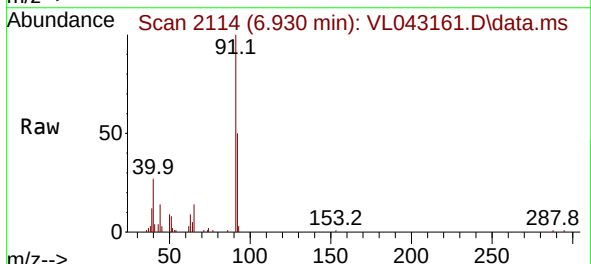
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-1A1

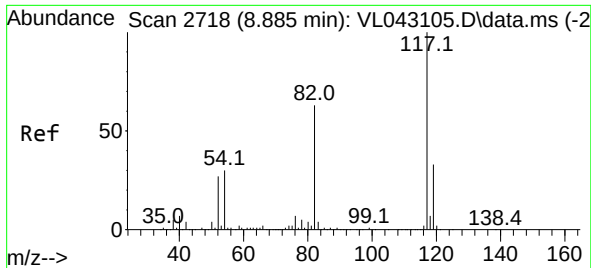
Tgt Ion: 57 Resp: 2245  
Ion Ratio Lower Upper  
57 100  
41 0.0 26.3 39.5#  
56 80.0 25.9 38.9#



#53  
Toluene  
Concen: 0.222 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. -0.010 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 91 Resp: 8680  
Ion Ratio Lower Upper  
91 100  
92 62.3 48.8 73.2

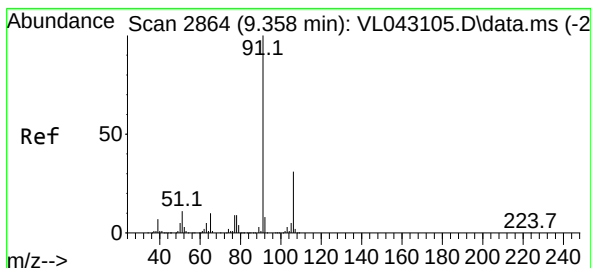
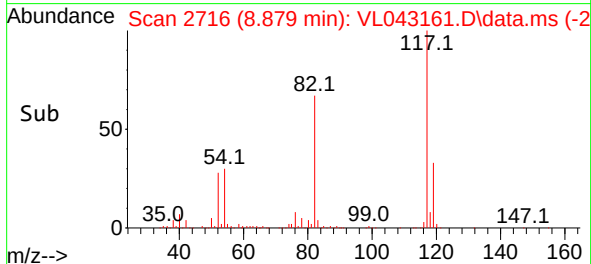
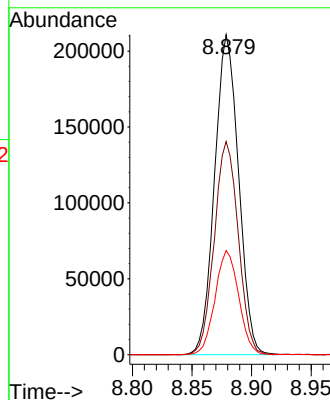
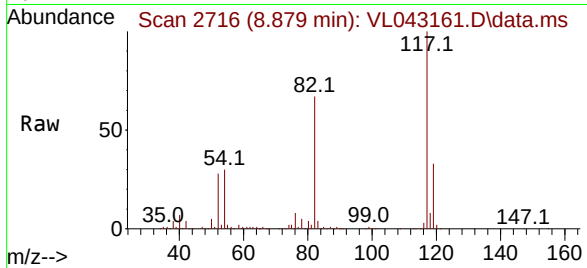




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.879 min Scan# 2117  
Delta R.T. -0.006 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

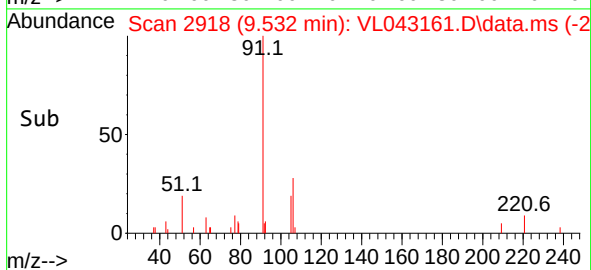
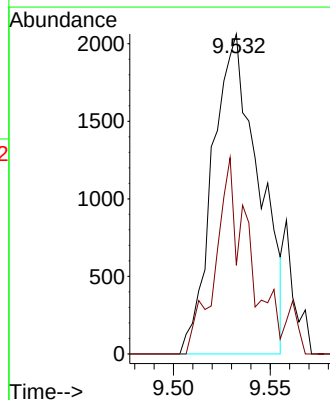
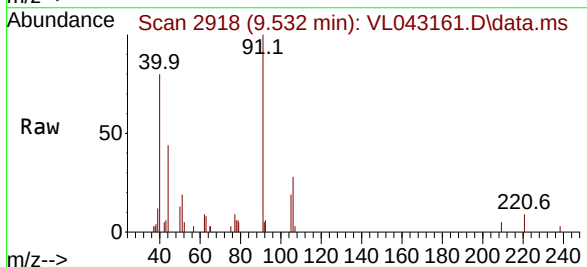
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-1A1

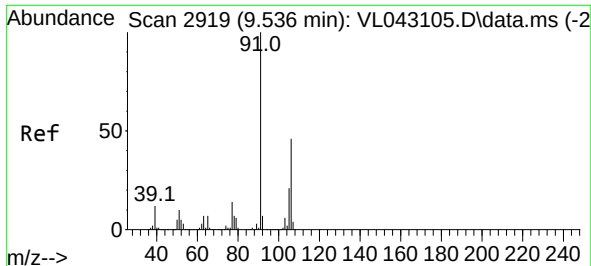
Tgt Ion:117 Resp: 295308  
Ion Ratio Lower Upper  
117 100  
82 66.6 53.8 80.8  
119 32.2 25.4 38.0



#58  
Ethyl Benzene  
Concen: 0.067 ppbv  
RT: 9.532 min Scan# 2918  
Delta R.T. 0.175 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

Tgt Ion: 91 Resp: 3414  
Ion Ratio Lower Upper  
91 100  
106 26.5 24.8 37.2





#59

m/p-Xylene

Concen: 0.084 ppbv

RT: 9.532 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

Instrument :

MSVOA\_1

ClientSampleId :

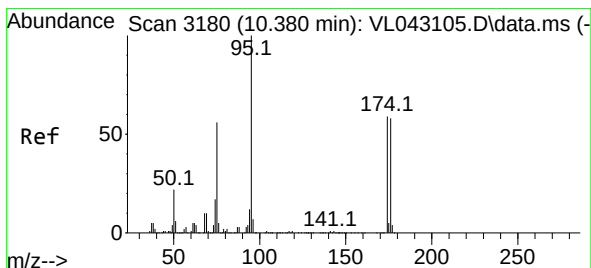
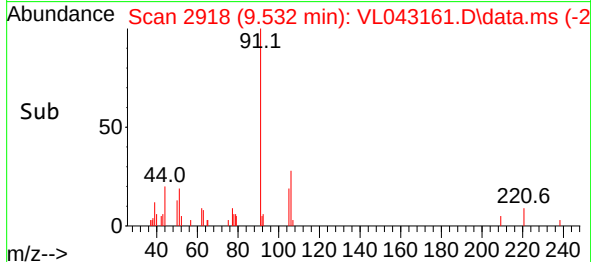
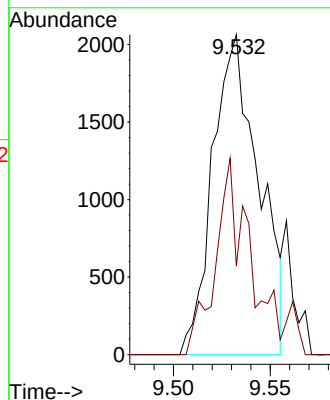
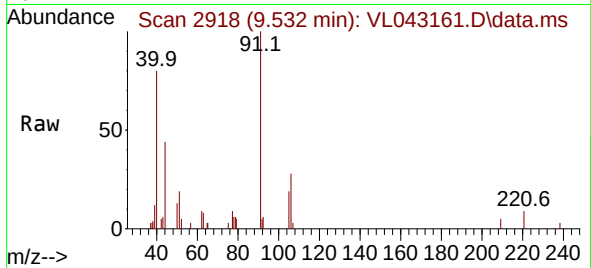
131-IA1

Tgt Ion: 91 Resp: 3414

Ion Ratio Lower Upper

91 100

106 49.2 38.0 57.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.204 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.006 min

Lab File: VL043161.D

Acq: 06 Nov 2025 11:36

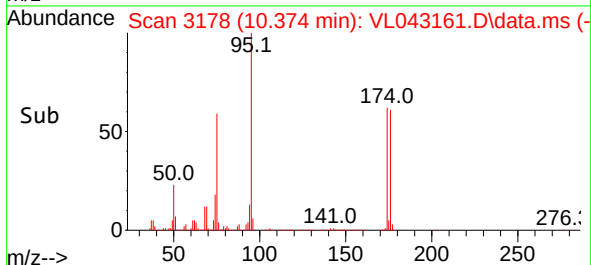
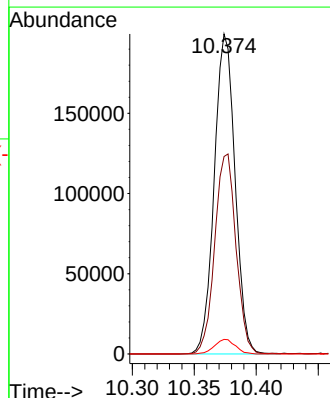
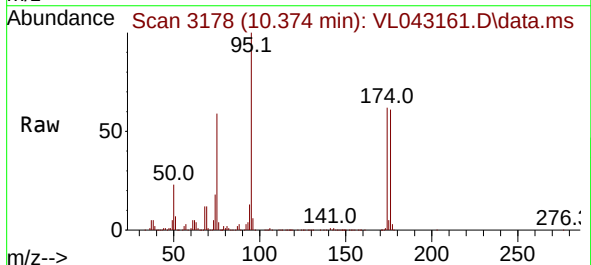
Tgt Ion: 95 Resp: 234219

Ion Ratio Lower Upper

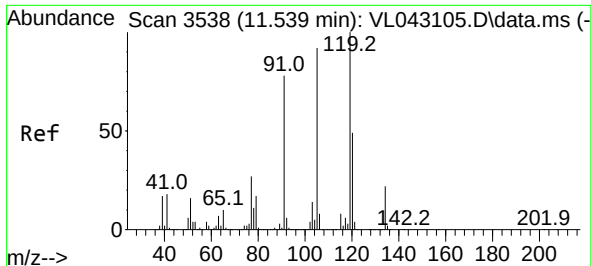
95 100

174 63.8 48.3 72.5

175 4.6 3.8 5.8



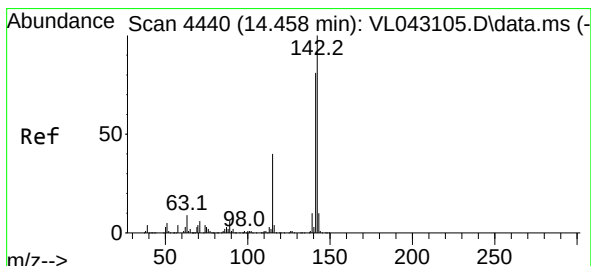
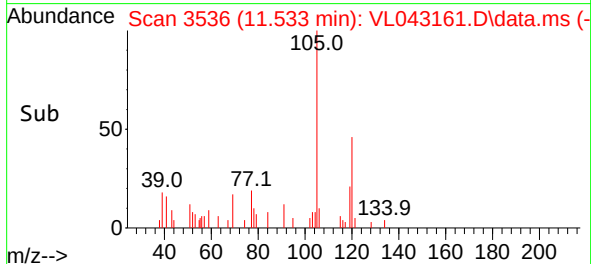
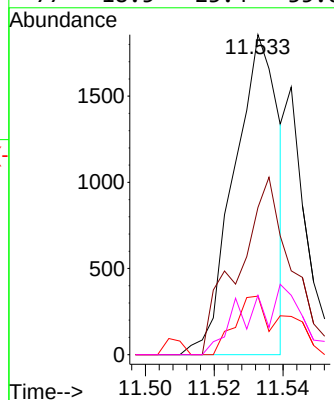
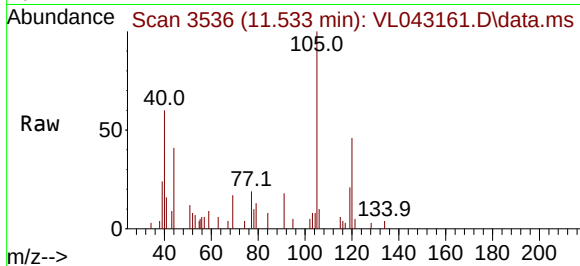




#74  
1,2,4-Trimethylbenzene  
Concen: 0.037 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. -0.006 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

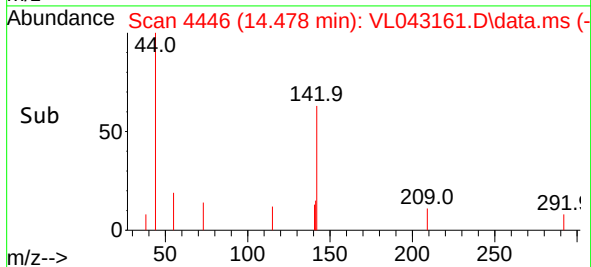
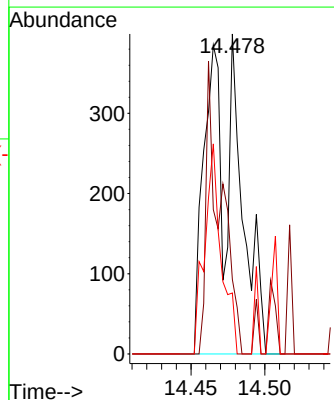
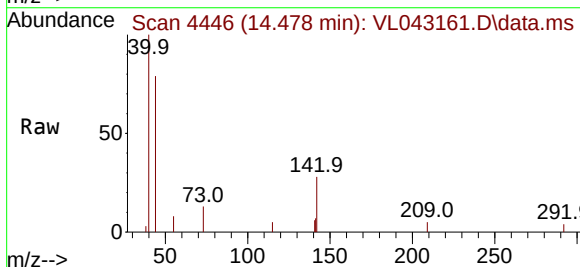
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-1A1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 1660   |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 46.0  | 42.8  | 64.2   |
| 91        | 14.1  | 68.3  | 102.5# |
| 77        | 18.5  | 23.4  | 35.0#  |



#80  
Naphthalene,2-methyl-  
Concen: 0.047 ppbv  
RT: 14.478 min Scan# 4446  
Delta R.T. 0.020 min  
Lab File: VL043161.D  
Acq: 06 Nov 2025 11:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 583   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 45.8  | 64.6  | 97.0# |
| 115       | 35.7  | 30.2  | 45.4  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043162.D  
 Acq On : 06 Nov 2025 12:10  
 Operator : SY/MD  
 Sample : Q3556-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-1A2

Quant Time: Nov 07 00:20:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

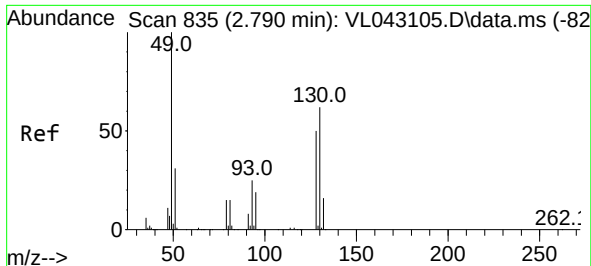
| Compound                    |                           |        | R.T.   | QIon     | Response | Conc   | Units    | Dev(Min) |
|-----------------------------|---------------------------|--------|--------|----------|----------|--------|----------|----------|
| -----                       |                           |        |        |          |          |        |          |          |
| Internal Standards          |                           |        |        |          |          |        |          |          |
| 1)                          | Bromochloromethane        |        | 2.790  | 49       | 115682   | 10.000 | ppbv     | 0.00     |
| 33)                         | 1,4-Difluorobenzene       |        | 3.962  | 114      | 345961   | 10.000 | ppbv     | 0.00     |
| 55)                         | Chlorobenzene-d5          |        | 8.885  | 117      | 296213   | 10.000 | ppbv     | 0.00     |
| System Monitoring Compounds |                           |        |        |          |          |        |          |          |
| 68)                         | 1-Bromo-4-Fluorobenzene   |        | 10.377 | 95       | 230759   | 10.023 | ppbv     | 0.00     |
| Spiked Amount               |                           | 10.000 | Range  | 65 - 135 | Recovery | =      | 100.200% |          |
| Target Compounds            |                           |        |        |          |          |        |          | Qvalue   |
| 2)                          | Dichlorodifluoromethane   |        | 1.502  | 85       | 8022     | 0.488  | ppbv     | 99       |
| 3)                          | Chlorodifluoromethane     |        | 1.479  | 51       | 10919    | 0.614  | ppbv #   | 78       |
| 4)                          | Chloromethane             |        | 1.535  | 50       | 2549     | 0.391  | ppbv     | 96       |
| 9)                          | Propene                   |        | 1.489  | 41       | 3218     | 0.408  | ppbv #   | 82       |
| 11)                         | Trichlorofluoromethane    |        | 1.881  | 101      | 4202     | 0.261  | ppbv     | 98       |
| 12)                         | 1,1,2-Trichlorotrifluo... |        | 2.146  | 101      | 985      | 0.076  | ppbv #   | 82       |
| 13)                         | Ethanol                   |        | 1.725  | 45       | 22891    | 7.842  | ppbv     | 98       |
| 15)                         | Acetone                   |        | 1.839  | 43       | 43810    | 2.810  | ppbv     | 97       |
| 16)                         | 1,3-Butadiene             |        | 1.606  | 39       | 704      | 0.095  | ppbv #   | 51       |
| 17)                         | tert-Butyl alcohol        |        | 2.052  | 59       | 985      | 0.046  | ppbv #   | 69       |
| 19)                         | Isopropyl Alcohol         |        | 1.891  | 45       | 4423     | 0.455  | ppbv #   | 1        |
| 20)                         | Methylene Chloride        |        | 2.065  | 84       | 3546     | 0.575  | ppbv #   | 78       |
| 23)                         | Vinyl Acetate             |        | 2.480  | 43       | 5449     | 0.239  | ppbv #   | 57       |
| 25)                         | Ethyl Acetate             |        | 2.832  | 43       | 14044    | 0.363  | ppbv #   | 84       |
| 26)                         | Hexane                    |        | 2.836  | 57       | 18626    | 1.045  | ppbv #   | 41       |
| 29)                         | Chloroform                |        | 2.849  | 83       | 1691     | 0.066  | ppbv #   | 79       |
| 30)                         | Cyclohexane               |        | 3.865  | 84       | 610      | 0.039  | ppbv #   | 53       |
| 34)                         | 2-Butanone                |        | 2.564  | 43       | 5233     | 0.225  | ppbv     | 97       |
| 35)                         | Carbon Tetrachloride      |        | 3.768  | 117      | 1925     | 0.077  | ppbv #   | 31       |
| 36)                         | Benzene                   |        | 3.661  | 78       | 4029     | 0.124  | ppbv #   | 92       |
| 37)                         | 1,2-Dichloroethane        |        | 3.227  | 62       | 1106     | 0.059  | ppbv #   | 79       |
| 39)                         | 1,2-Dichloropropane       |        | 3.962  | 63       | 87030    | 7.306  | ppbv #   | 26       |
| 44)                         | 2,2,4-Trimethylpentane    |        | 4.645  | 57       | 2398     | 0.044  | ppbv #   | 17       |
| 53)                         | Toluene                   |        | 6.936  | 91       | 1794     | 0.046  | ppbv #   | 1        |
| 59)                         | m/p-Xylene                |        | 9.529  | 91       | 3278     | 0.081  | ppbv     | 87       |
| 60)                         | o-Xylene                  |        | 9.529  | 91       | 3278     | 0.082  | ppbv     | 81       |

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

- 1
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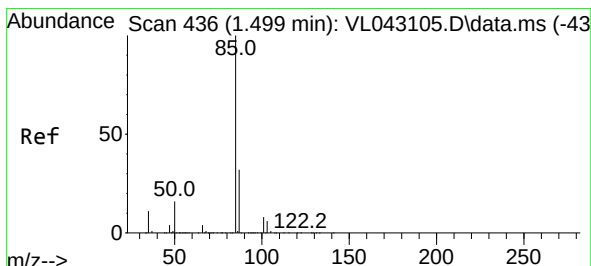
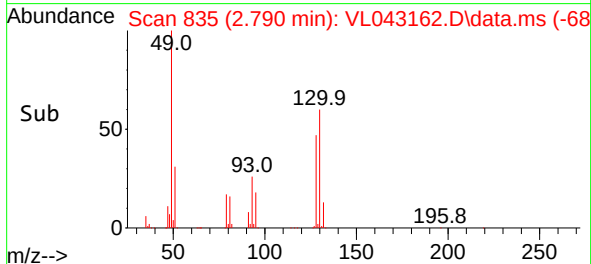
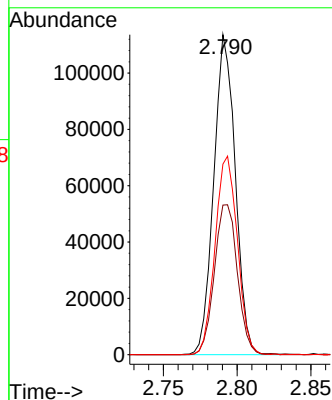
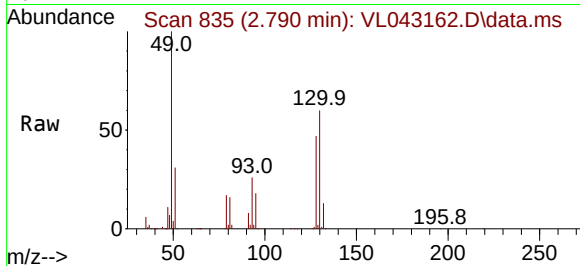




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

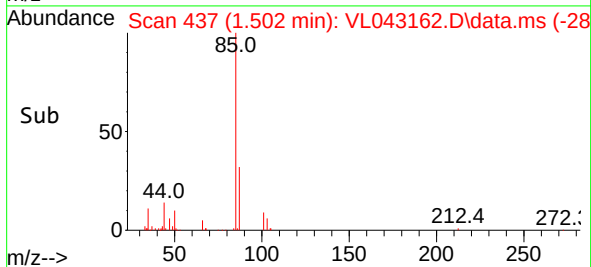
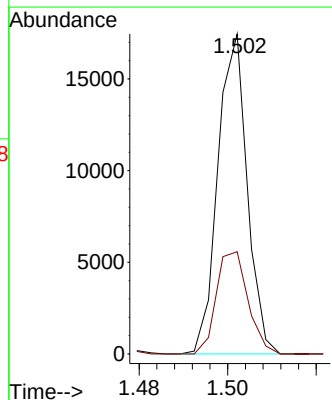
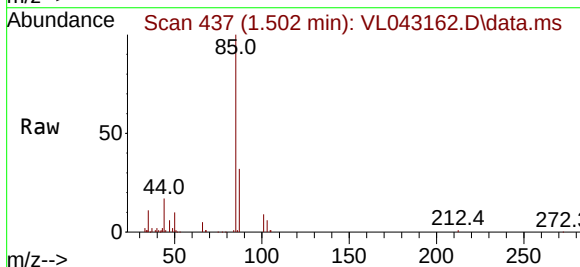
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

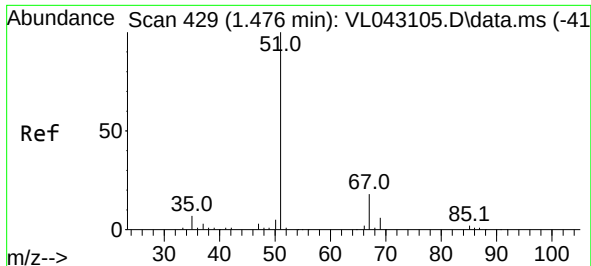
Tgt Ion: 49 Resp: 115682  
Ion Ratio Lower Upper  
49 100  
128 50.1 24.4 73.4  
130 64.4 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.488 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 85 Resp: 8022  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.3 37.9

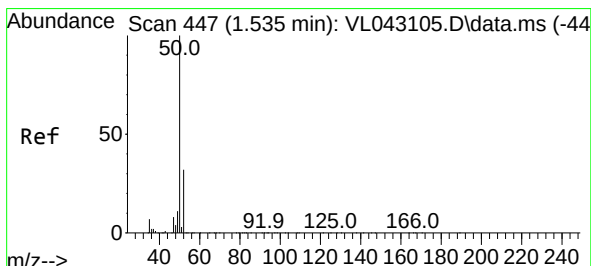
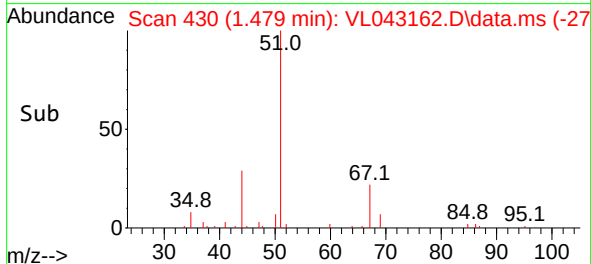
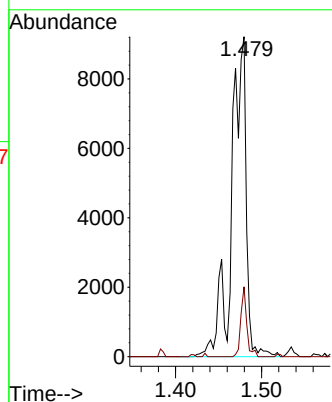
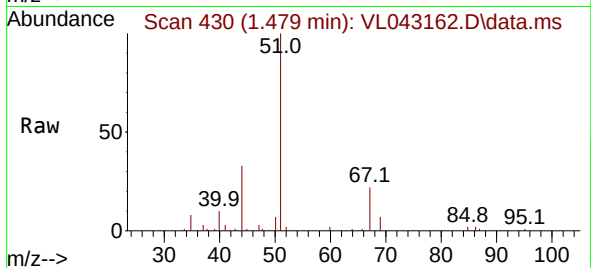




#3  
Chlorodifluoromethane  
Concen: 0.614 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

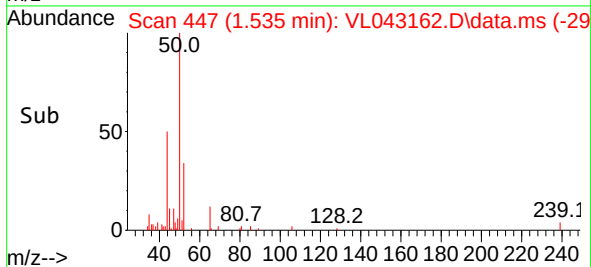
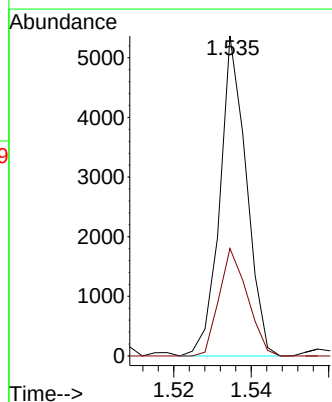
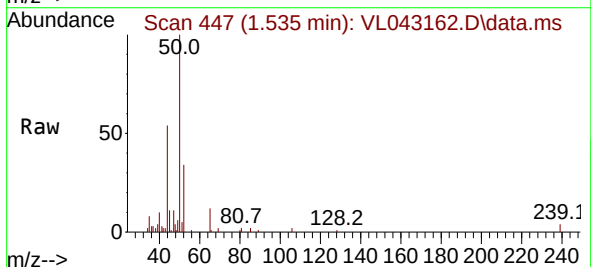
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-IA2

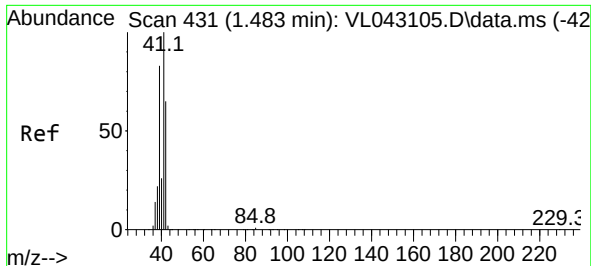
Tgt Ion: 51 Resp: 10919  
Ion Ratio Lower Upper  
51 100  
67 8.8 15.1 22.7#



#4  
Chloromethane  
Concen: 0.391 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 50 Resp: 2549  
Ion Ratio Lower Upper  
50 100  
52 33.6 25.2 37.8

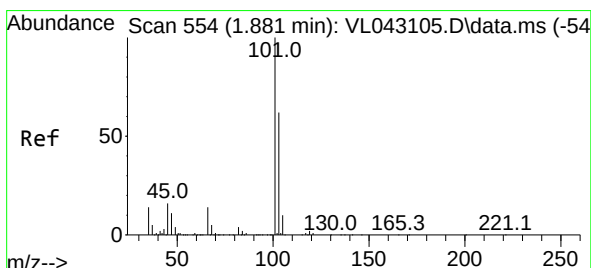
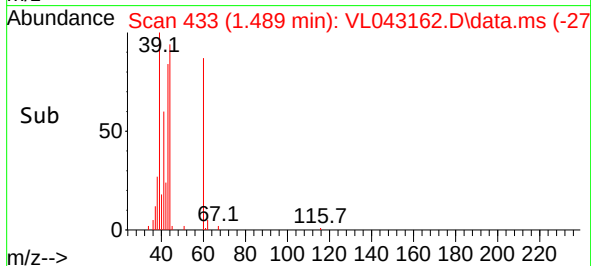
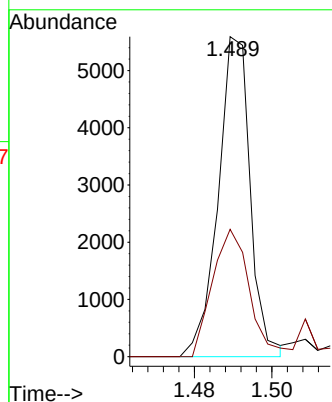
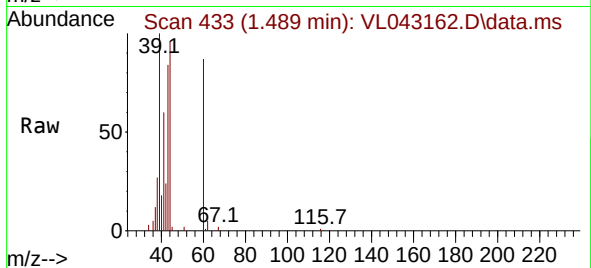




#9  
 Propene  
 Concen: 0.408 ppbv  
 RT: 1.489 min Scan# 41  
 Delta R.T. 0.006 min  
 Lab File: VL043162.D  
 Acq: 06 Nov 2025 12:10

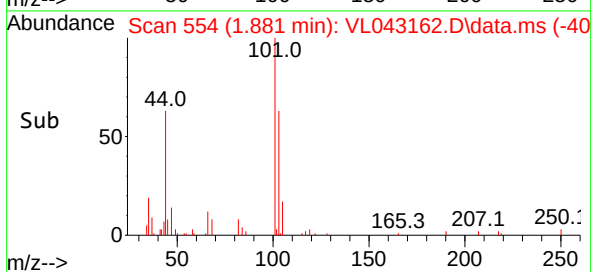
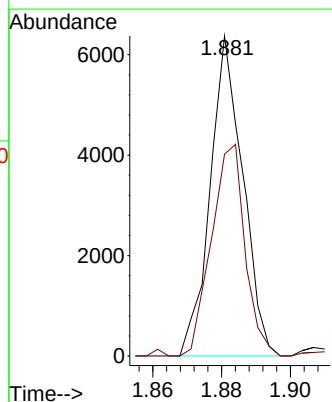
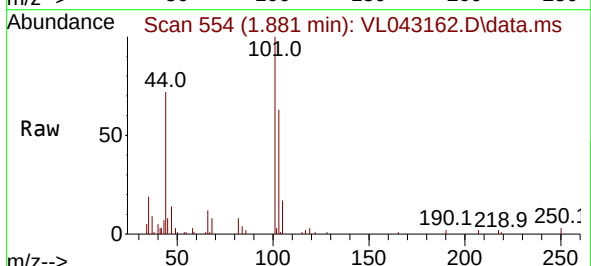
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 131-IA2

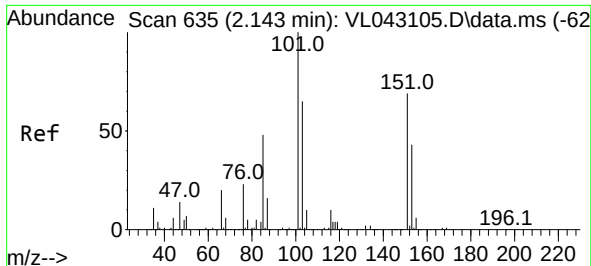
Tgt Ion: 41 Resp: 3218  
 Ion Ratio Lower Upper  
 41 100  
 42 54.0 55.1 82.7#



#11  
 Trichlorofluoromethane  
 Concen: 0.261 ppbv  
 RT: 1.881 min Scan# 554  
 Delta R.T. -0.000 min  
 Lab File: VL043162.D  
 Acq: 06 Nov 2025 12:10

Tgt Ion:101 Resp: 4202  
 Ion Ratio Lower Upper  
 101 100  
 103 63.0 49.3 73.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.076 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA\_1

ClientSampleId :

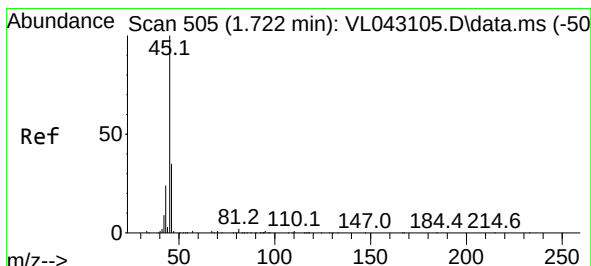
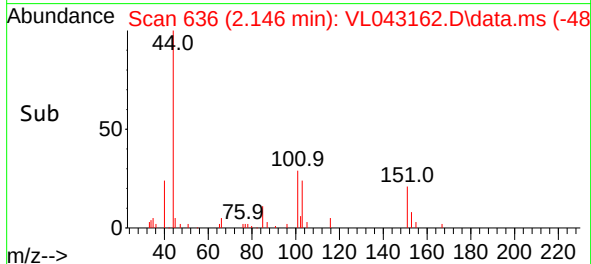
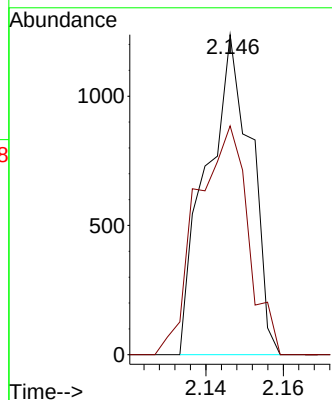
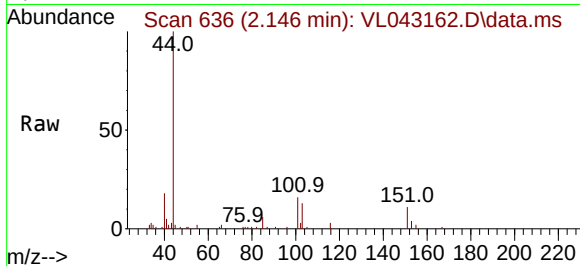
131-IA2

Tgt Ion:101 Resp: 985

Ion Ratio Lower Upper

101 100

151 83.0 54.7 82.1#



#13

Ethanol

Concen: 7.842 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.003 min

Lab File: VL043162.D

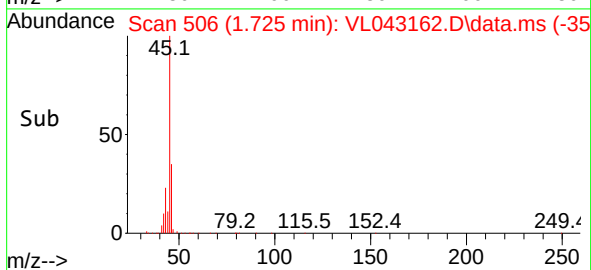
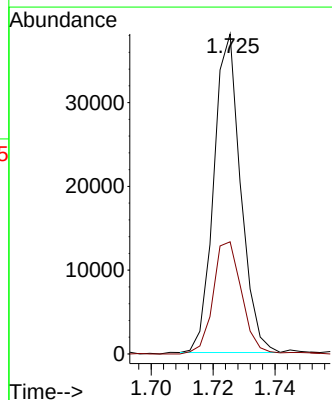
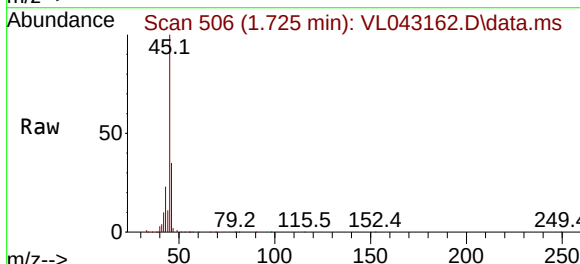
Acq: 06 Nov 2025 12:10

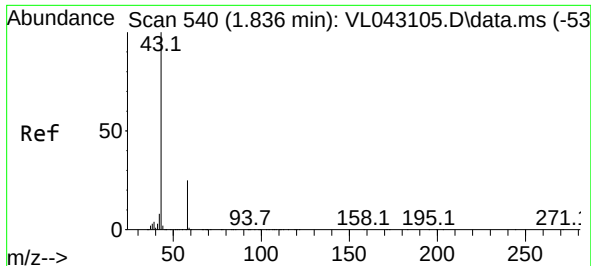
Tgt Ion: 45 Resp: 22891

Ion Ratio Lower Upper

45 100

46 38.0 14.7 58.9

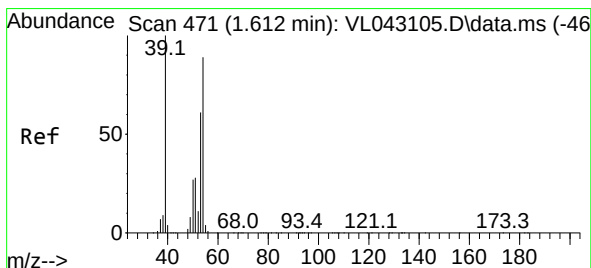
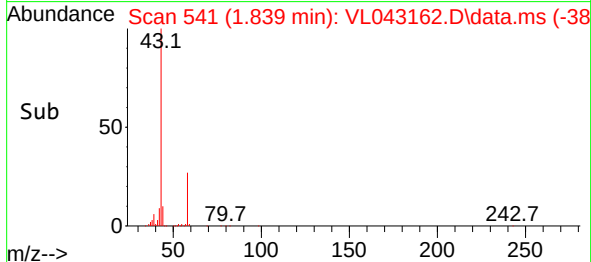
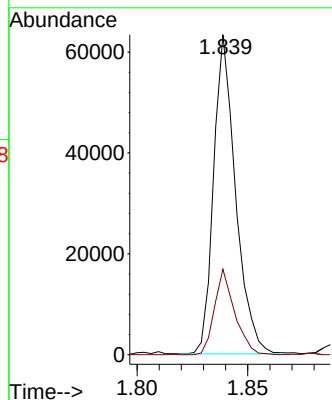
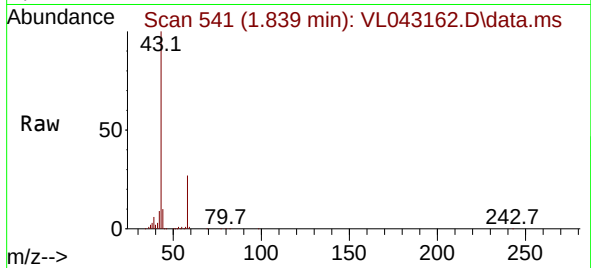




#15  
Acetone  
Concen: 2.810 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

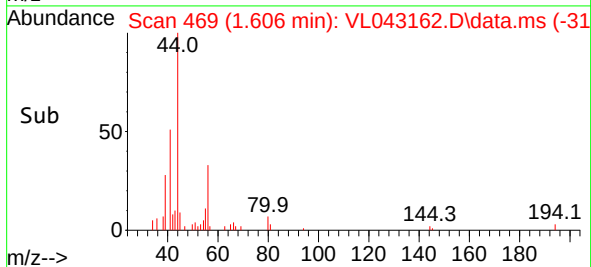
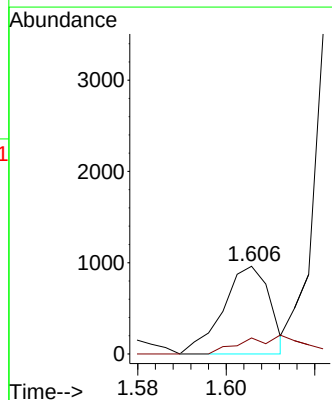
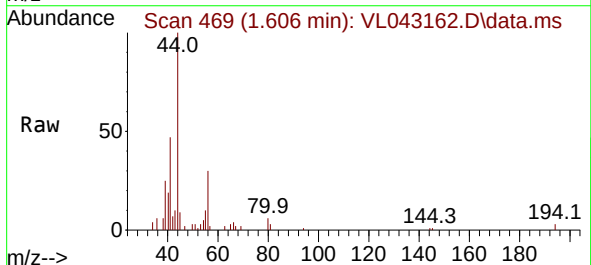
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-IA2

Tgt Ion: 43 Resp: 43810  
Ion Ratio Lower Upper  
43 100  
58 24.6 20.8 31.2

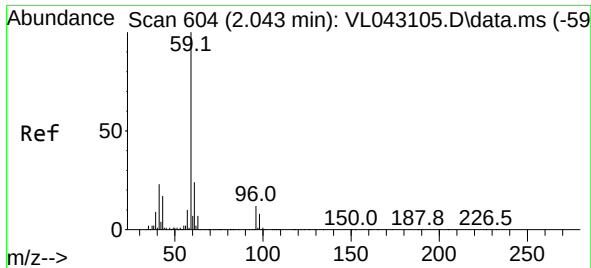


#16  
1,3-Butadiene  
Concen: 0.095 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. -0.007 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 39 Resp: 704  
Ion Ratio Lower Upper  
39 100  
54 32.1 59.0 88.4#







#17

tert-Butyl alcohol

Concen: 0.046 ppbv

RT: 2.052 min Scan# 604

Delta R.T. 0.010 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA\_1

ClientSampleId :

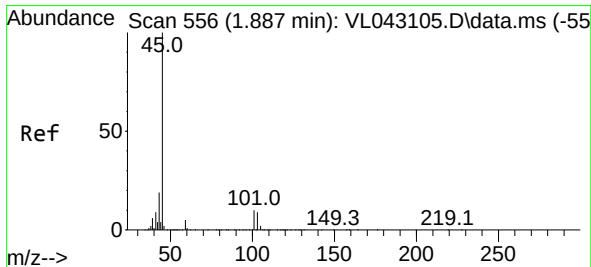
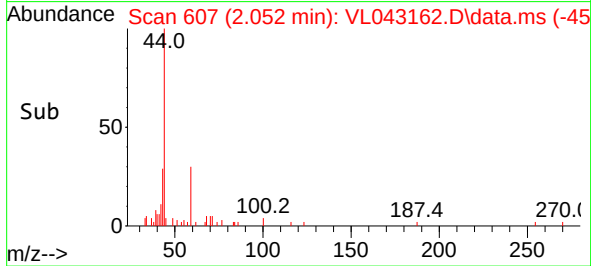
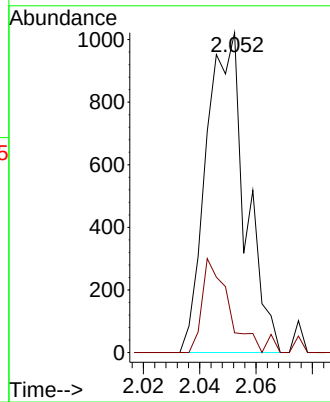
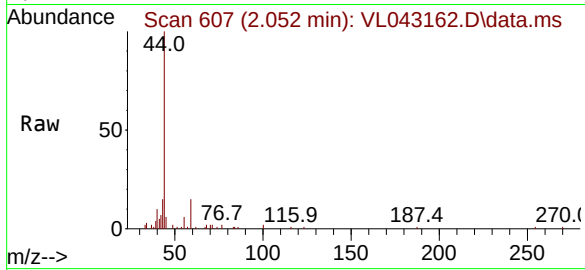
131-IA2

Tgt Ion: 59 Resp: 985

Ion Ratio Lower Upper

59 100

57 21.9 8.2 12.4#



#19

Isopropyl Alcohol

Concen: 0.455 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.003 min

Lab File: VL043162.D

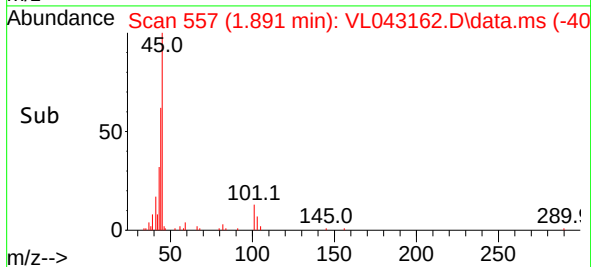
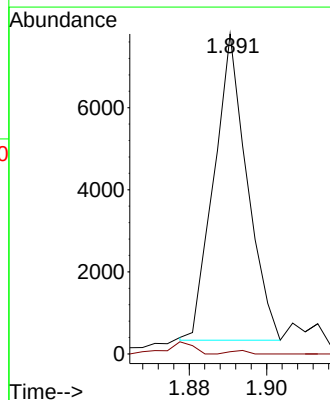
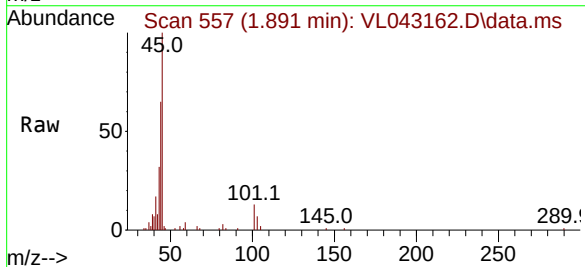
Acq: 06 Nov 2025 12:10

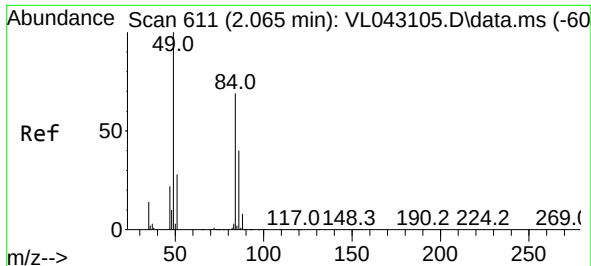
Tgt Ion: 45 Resp: 4423

Ion Ratio Lower Upper

45 100

58 246.9 31.3 46.9#

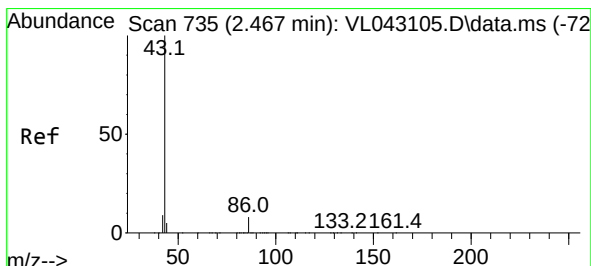
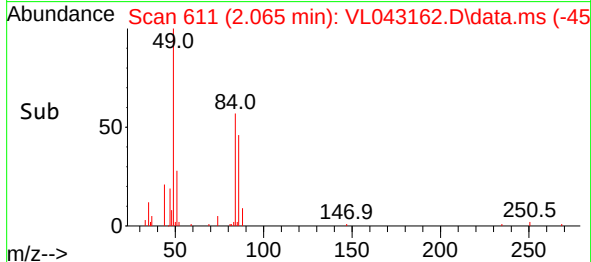
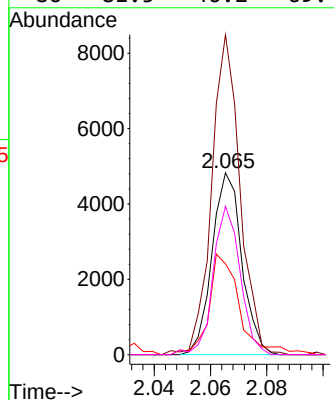
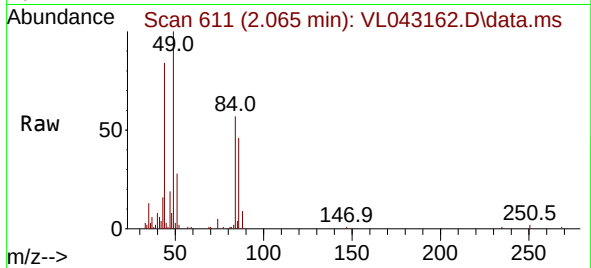




#20  
Methylene Chloride  
Concen: 0.575 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

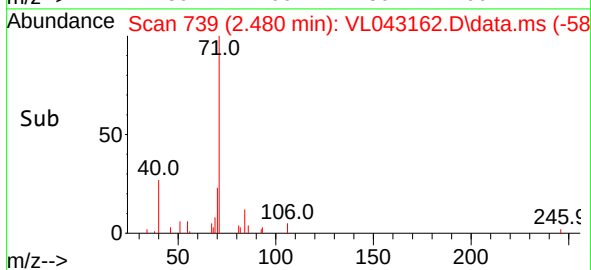
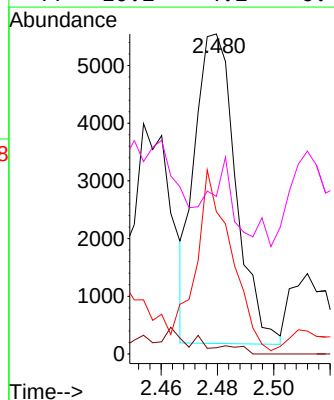
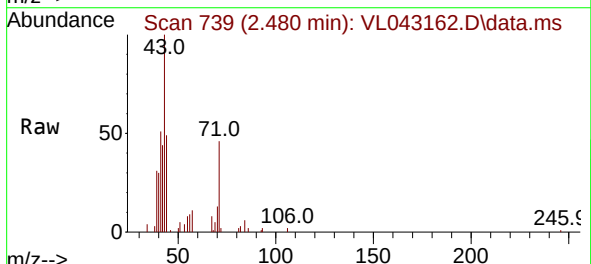
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

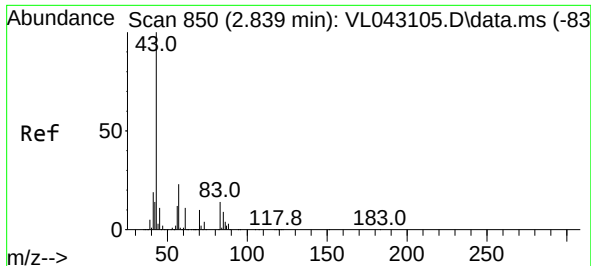
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 3546  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 174.6    | 116.6 175.0 |
| 51 47.4     | 34.8 52.2   |
| 86 81.5     | 46.2 69.4#  |



#23  
Vinyl Acetate  
Concen: 0.239 ppbv  
RT: 2.480 min Scan# 739  
Delta R.T. 0.013 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 43 | Resp: | 5449  |
| Ion | Ratio   | Lower | Upper |
| 43  | 100     |       |       |
| 86  | 2.1     | 6.2   | 9.2#  |
| 42  | 38.6    | 7.6   | 11.4# |
| 44  | 10.2    | 4.2   | 6.4#  |

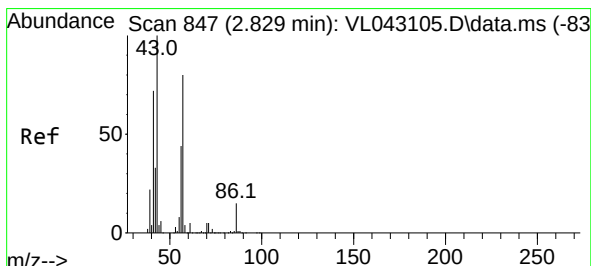
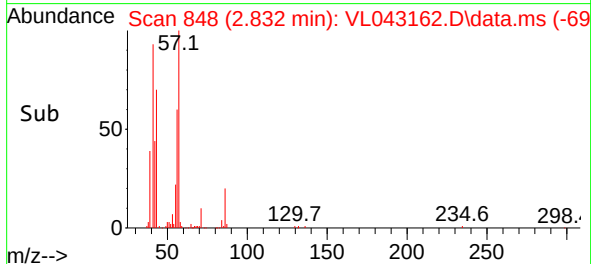
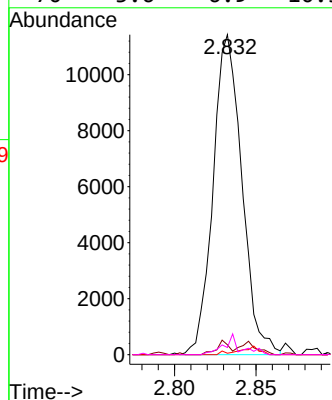
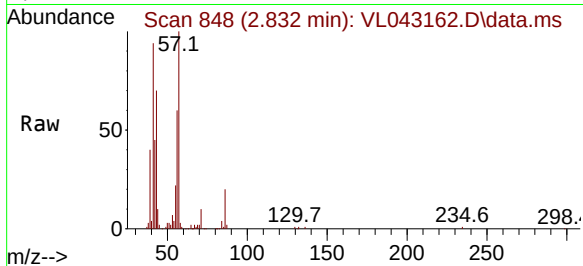




#25  
Ethyl Acetate  
Concen: 0.363 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. -0.007 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

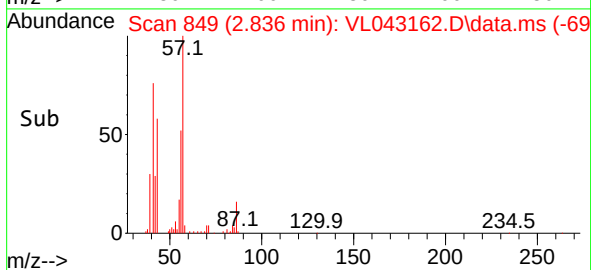
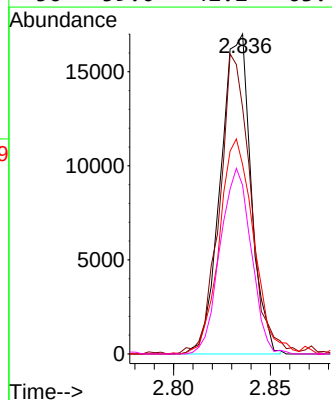
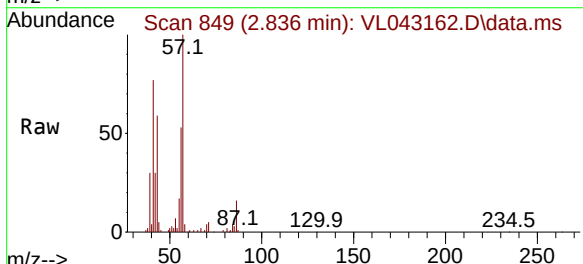
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-IA2

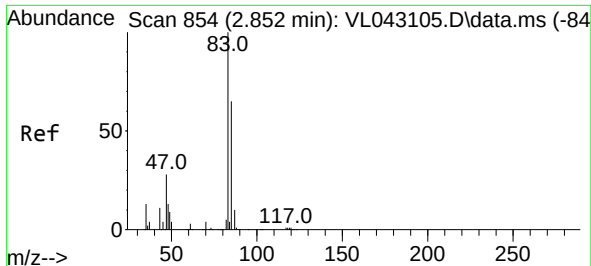
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 14044 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 4.5      | 7.8 11.8#   |
| 61 1.8      | 7.0 10.6#   |
| 70 3.6      | 6.9 10.3#   |



#26  
Hexane  
Concen: 1.045 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.006 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 18626  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 96.5     | 71.4 107.0   |
| 43 76.1     | 178.5 267.7# |
| 56 59.0     | 42.2 63.4    |





#29

Chloroform

Concen: 0.066 ppbv

RT: 2.849 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA\_L

ClientSampleId :

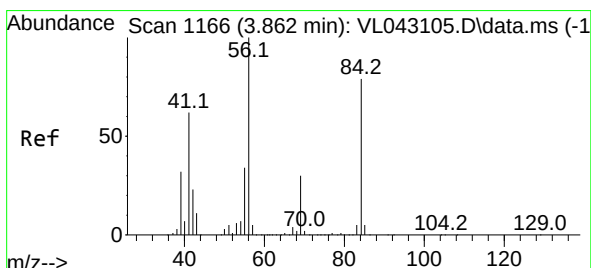
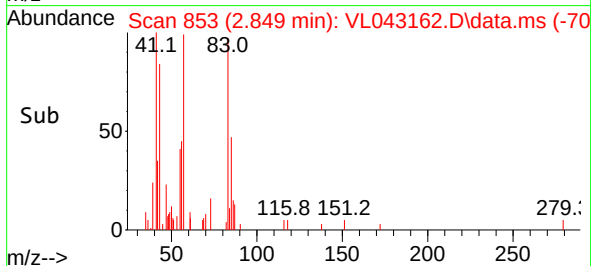
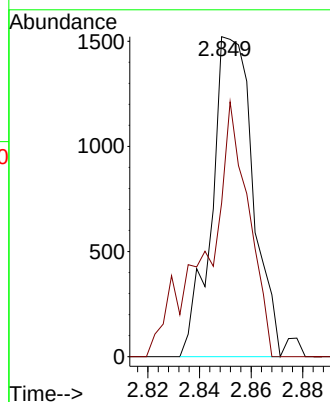
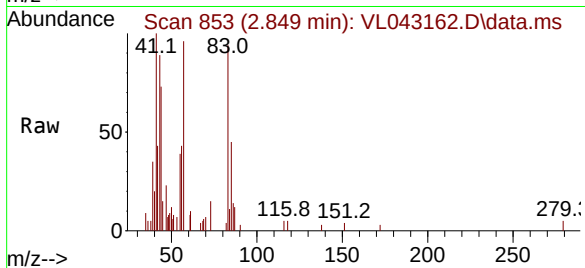
131-IA2

Tgt Ion: 83 Resp: 1691

Ion Ratio Lower Upper

83 100

85 48.0 51.8 77.6#



#30

Cyclohexane

Concen: 0.039 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

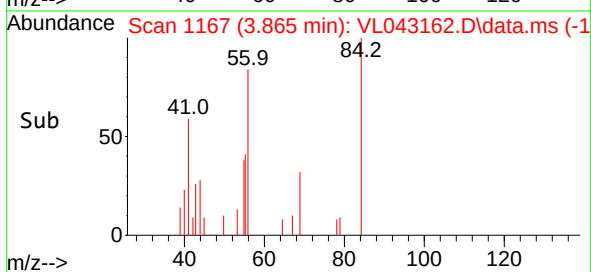
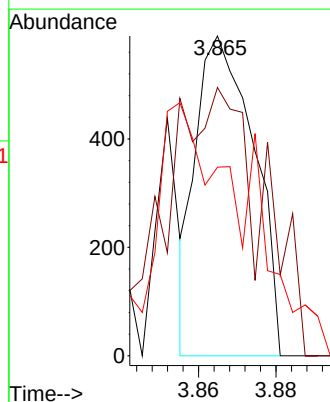
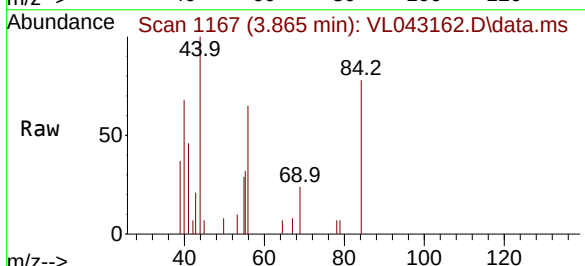
Tgt Ion: 84 Resp: 610

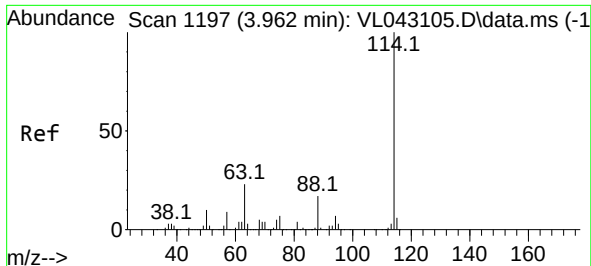
Ion Ratio Lower Upper

84 100

56 148.9 100.9 151.3

41 0.0 63.8 95.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA\_1

ClientSampleId :

131-IA2

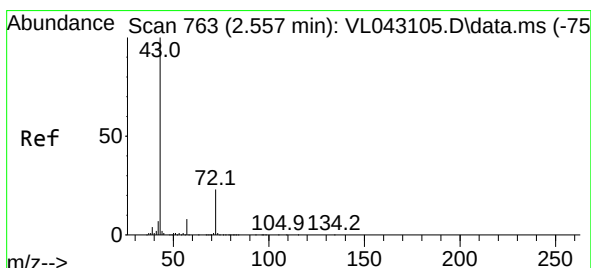
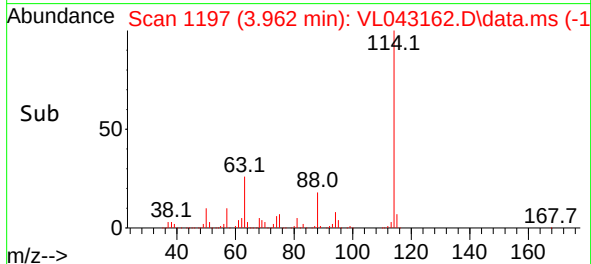
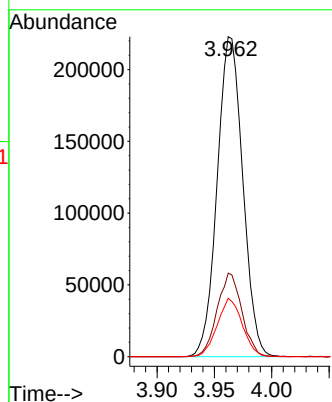
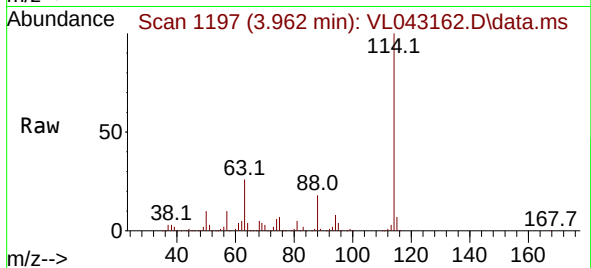
Tgt Ion:114 Resp: 345961

Ion Ratio Lower Upper

114 100

63 25.2 19.3 28.9

88 17.8 13.9 20.9



#34

2-Butanone

Concen: 0.225 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.006 min

Lab File: VL043162.D

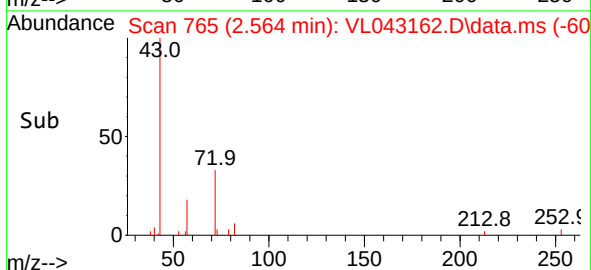
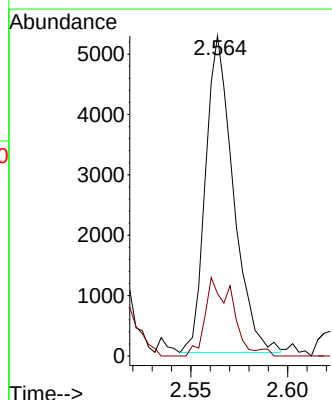
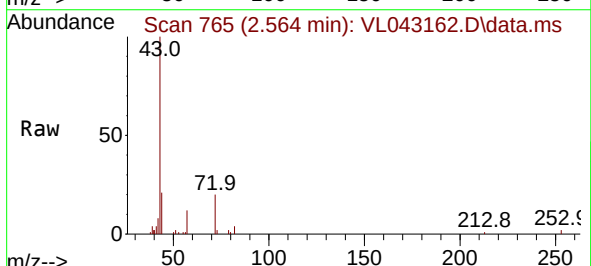
Acq: 06 Nov 2025 12:10

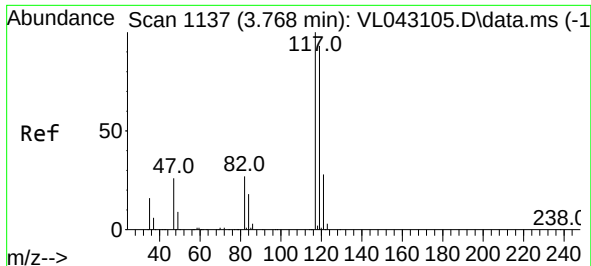
Tgt Ion: 43 Resp: 5233

Ion Ratio Lower Upper

43 100

72 24.5 18.4 27.6

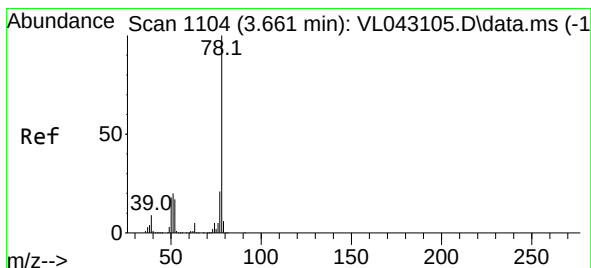
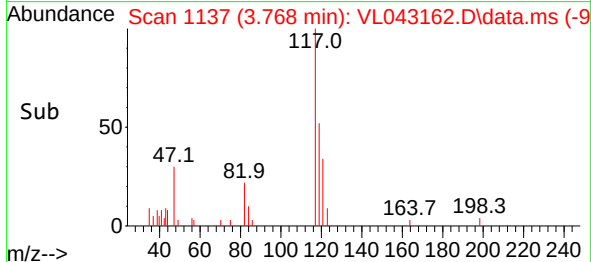
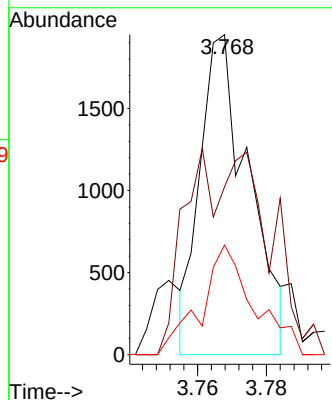
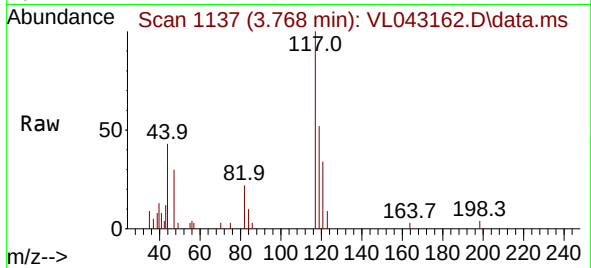




#35  
Carbon Tetrachloride  
Concen: 0.077 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

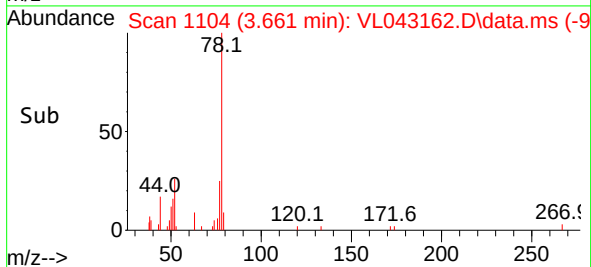
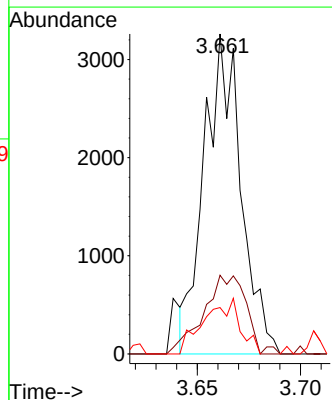
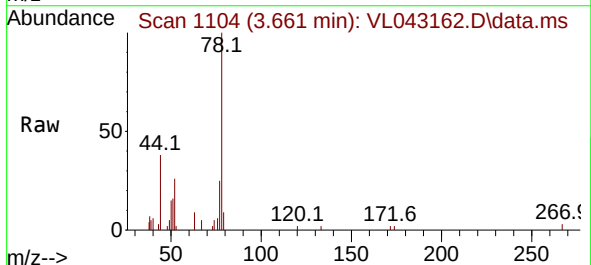
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-1A2

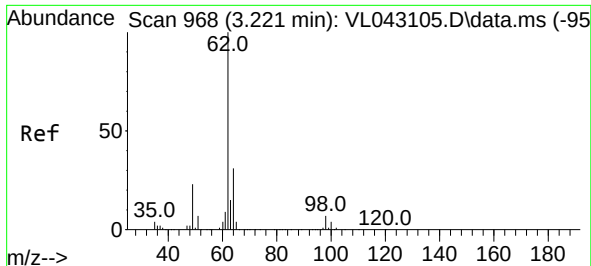
Tgt Ion:117 Resp: 1925  
Ion Ratio Lower Upper  
117 100  
119 8.8 74.1 111.1#  
121 32.4 22.2 33.2



#36  
Benzene  
Concen: 0.124 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 78 Resp: 4029  
Ion Ratio Lower Upper  
78 100  
77 24.6 17.0 25.6  
50 14.5 14.6 22.0#

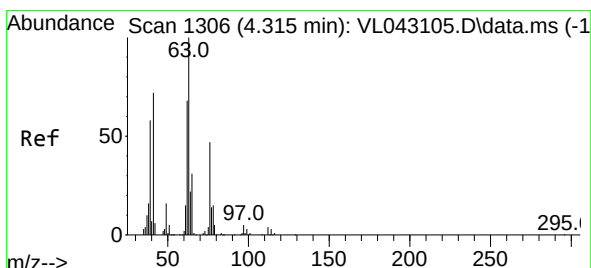
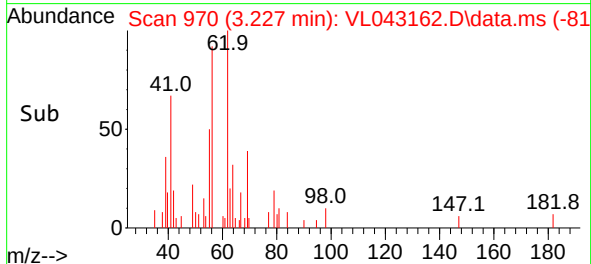
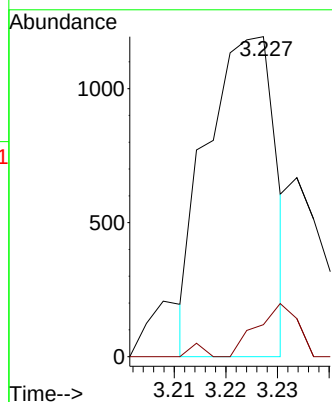
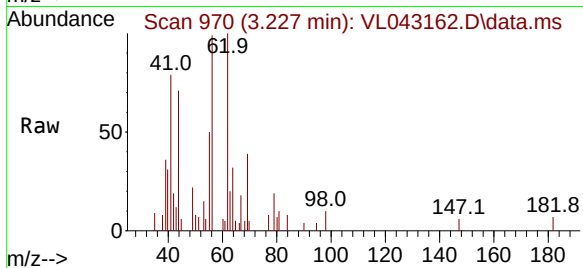




#37  
1,2-Dichloroethane  
Concen: 0.059 ppbv  
RT: 3.227 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

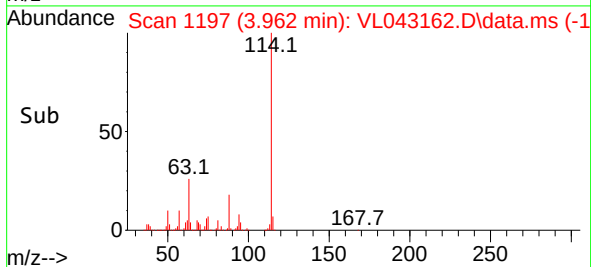
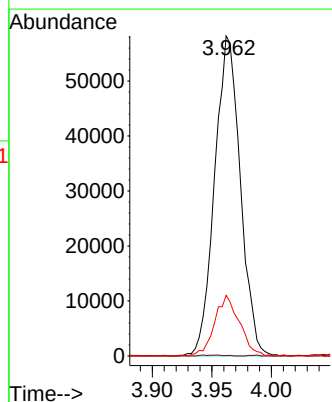
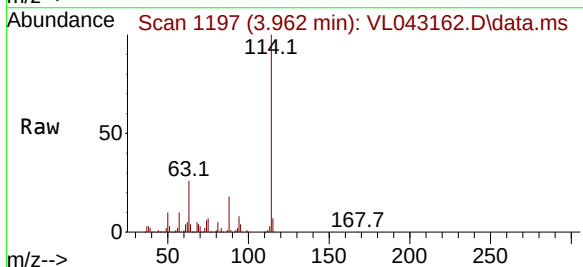
Instrument :  
MSVOA\_L  
ClientSampleId :  
131-1A2

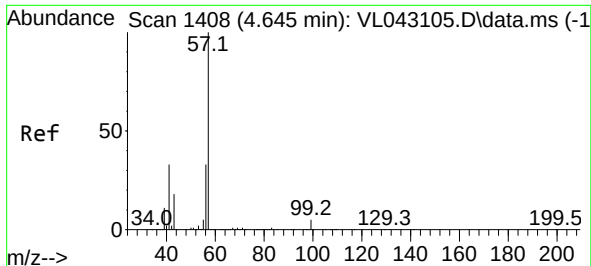
Tgt Ion: 62 Resp: 1106  
Ion Ratio Lower Upper  
62 100  
98 0.0 5.8 8.6#



#39  
1,2-Dichloropropane  
Concen: 7.306 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.353 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 63 Resp: 87030  
Ion Ratio Lower Upper  
63 100  
41 0.1 58.0 87.0#  
62 19.0 54.7 82.1#





#44

2,2,4-Trimethylpentane

Concen: 0.044 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.000 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA\_1

ClientSampleId :

131-1A2

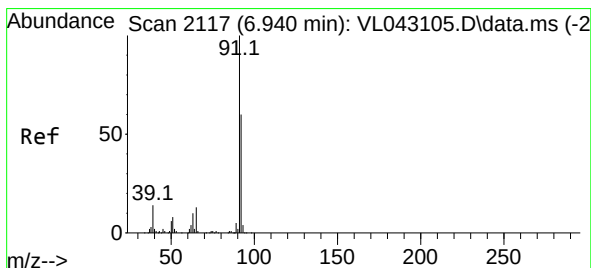
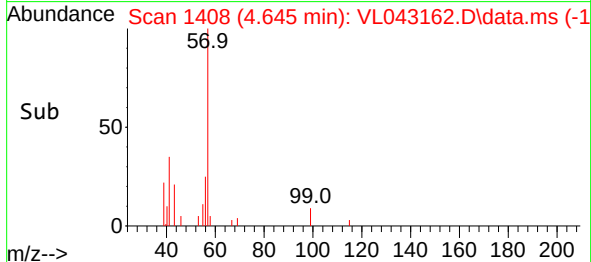
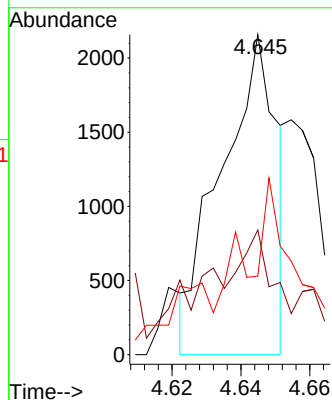
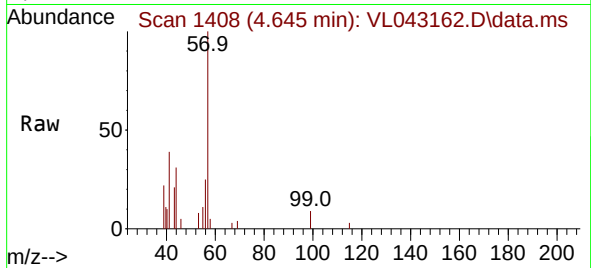
Tgt Ion: 57 Resp: 2398

Ion Ratio Lower Upper

57 100

41 79.6 26.3 39.5#

56 79.2 25.9 38.9#



#53

Toluene

Concen: 0.046 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. -0.003 min

Lab File: VL043162.D

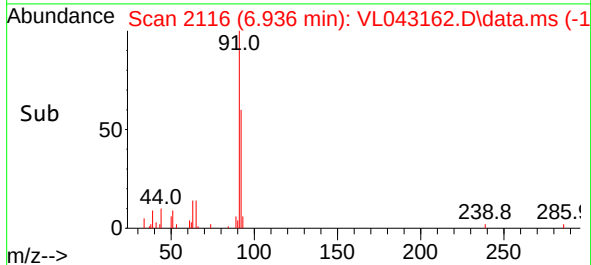
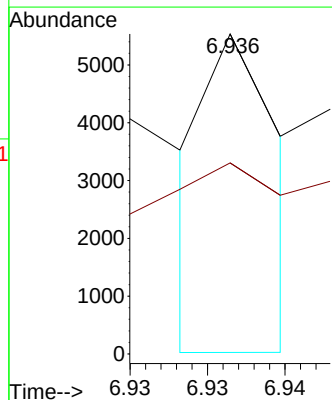
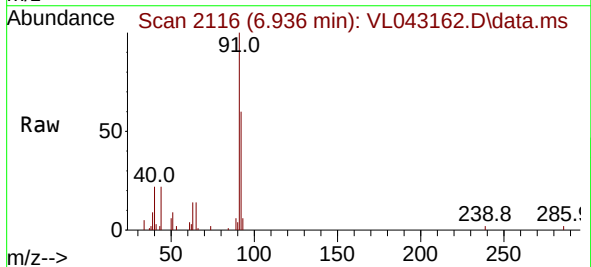
Acq: 06 Nov 2025 12:10

Tgt Ion: 91 Resp: 1794

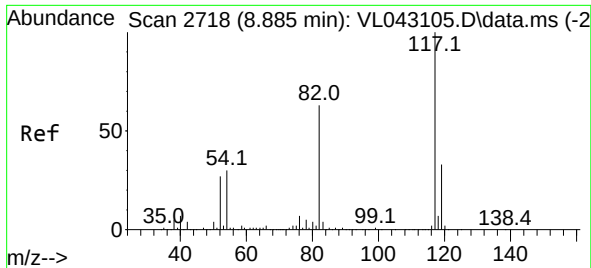
Ion Ratio Lower Upper

91 100

92 337.4 48.8 73.2#



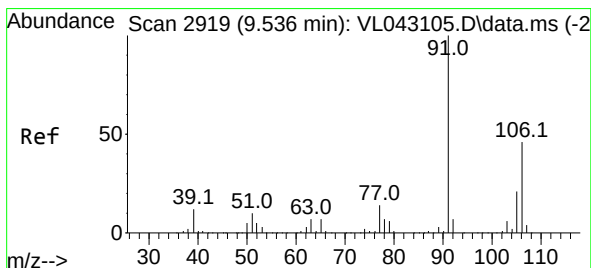
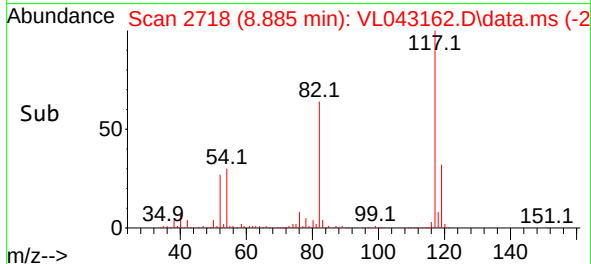
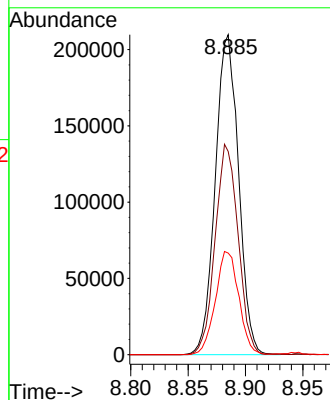
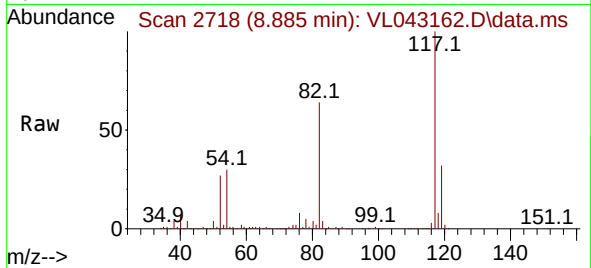




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

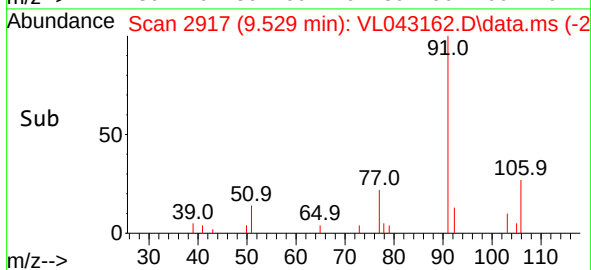
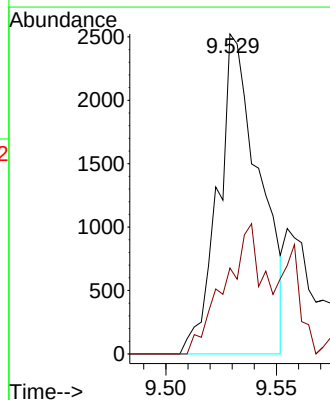
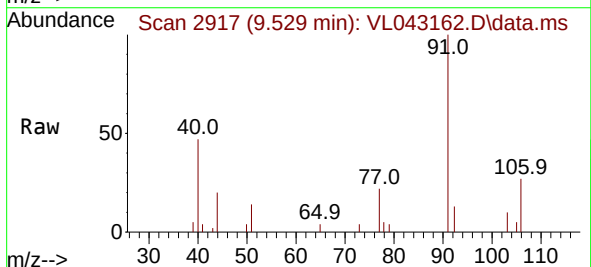
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-IA2

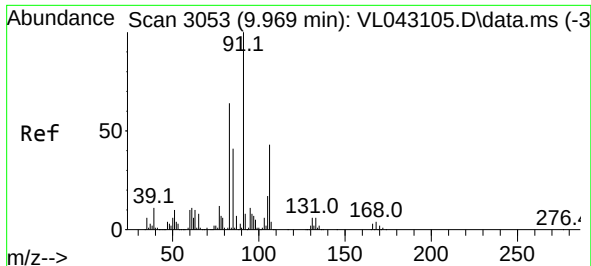
Tgt Ion:117 Resp: 296213  
Ion Ratio Lower Upper  
117 100  
82 64.9 53.8 80.8  
119 32.4 25.4 38.0



#59  
m/p-Xylene  
Concen: 0.081 ppbv  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.007 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 91 Resp: 3278  
Ion Ratio Lower Upper  
91 100  
106 56.1 38.0 57.0

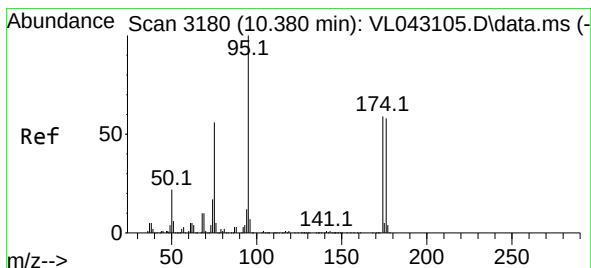
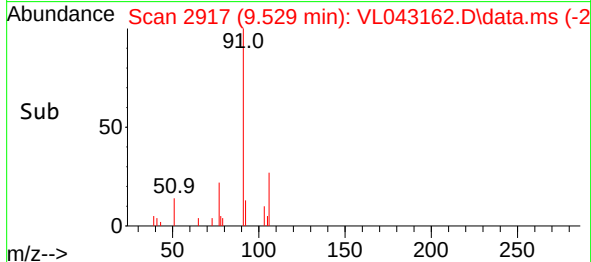
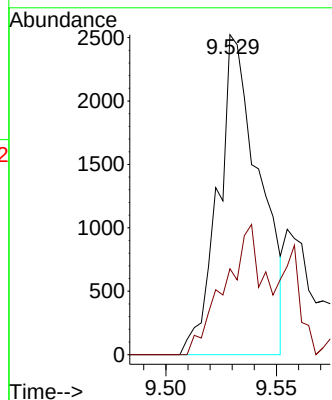
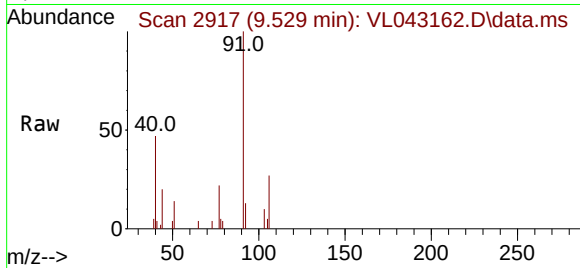




#60  
o-Xylene  
Concen: 0.082 ppbv  
RT: 9.529 min Scan# 2917  
Delta R.T. -0.440 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

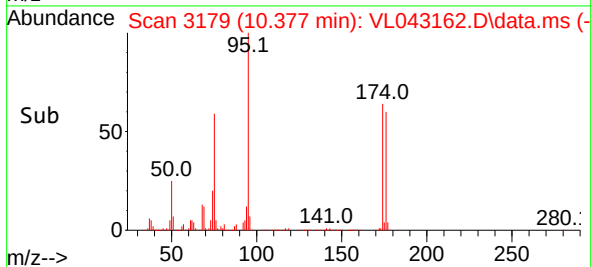
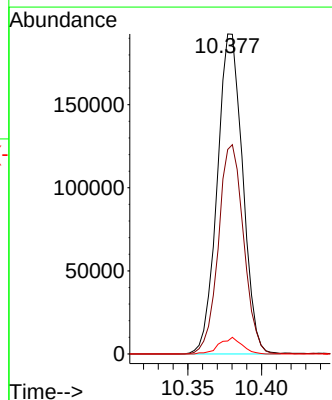
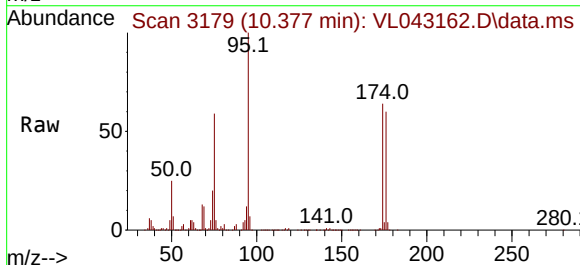
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-IA2

Tgt Ion: 91 Resp: 3278  
Ion Ratio Lower Upper  
91 100  
106 56.1 21.9 65.8



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.023 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.003 min  
Lab File: VL043162.D  
Acq: 06 Nov 2025 12:10

Tgt Ion: 95 Resp: 230759  
Ion Ratio Lower Upper  
95 100  
174 65.1 48.3 72.5  
175 4.6 3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043175.D  
 Acq On : 06 Nov 2025 19:30  
 Operator : SY/MD  
 Sample : Q3556-03 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-SG-1

Quant Time: Nov 07 00:27:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 127539   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 353509   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.872 | 117  | 299020   | 10.000 | ppbv  | -0.01    |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95    | 232369   | 9.998    | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.000% |

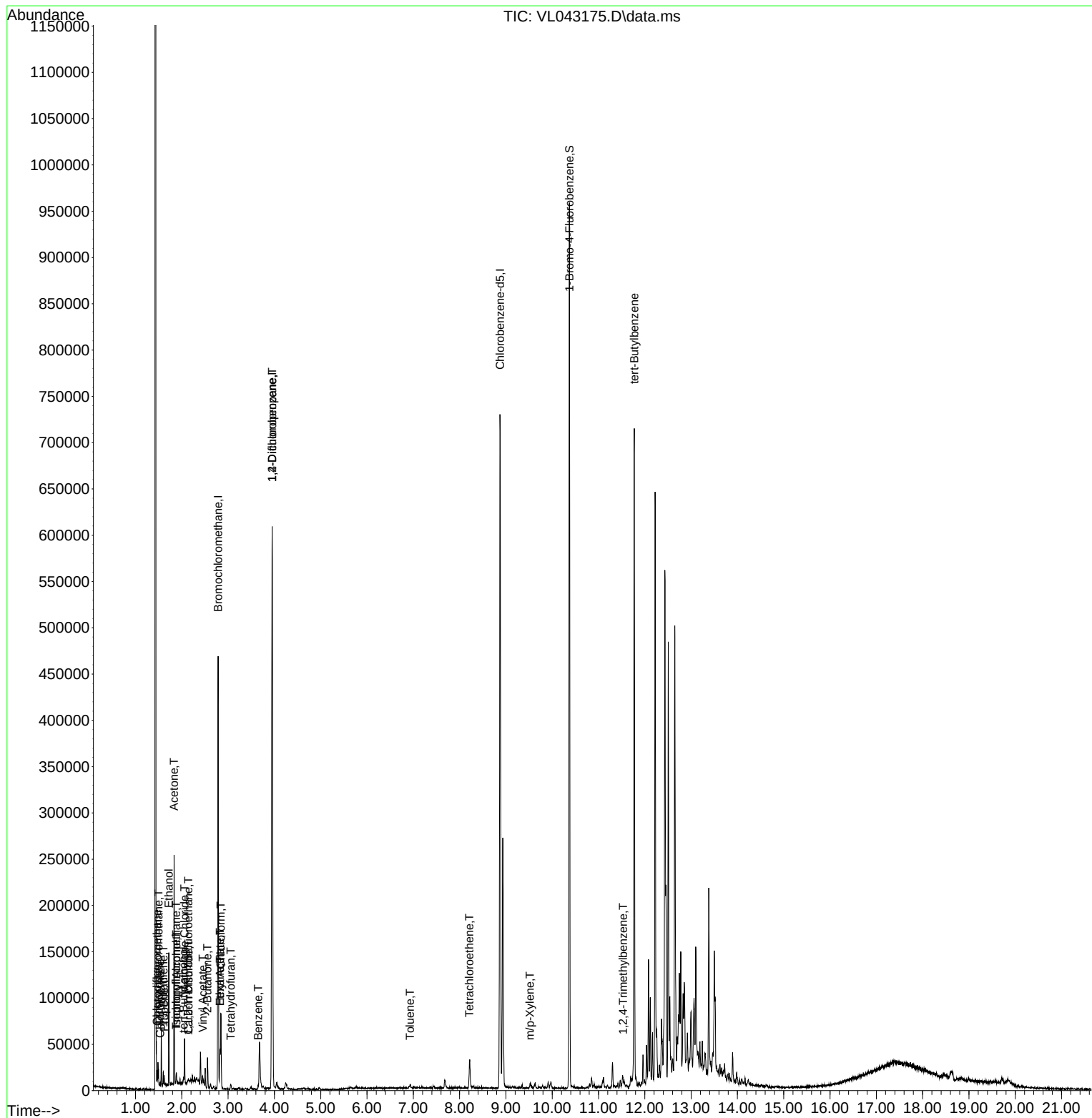
| Target Compounds              |        |     |        |        |        | Qvalue |
|-------------------------------|--------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 4484   | 0.247  | ppbv # | 74     |
| 3) Chlorodifluoromethane      | 1.467  | 51  | 7795   | 0.397  | ppbv # | 75     |
| 4) Chloromethane              | 1.531  | 50  | 787    | 0.110  | ppbv # | 72     |
| 9) Propene                    | 1.622  | 41  | 1091   | 0.125  | ppbv   | 95     |
| 11) Trichlorofluoromethane    | 1.878  | 101 | 2510   | 0.142  | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101 | 530    | 0.037  | ppbv   | 94     |
| 13) Ethanol                   | 1.719  | 45  | 46750  | 14.526 | ppbv   | 97     |
| 15) Acetone                   | 1.832  | 43  | 106525 | 6.197  | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.603  | 39  | 1882   | 0.230  | ppbv # | 23     |
| 17) tert-Butyl alcohol        | 2.040  | 59  | 2540   | 0.108  | ppbv # | 85     |
| 19) Isopropyl Alcohol         | 1.884  | 45  | 4232   | 0.395  | ppbv # | 1      |
| 20) Methylene Chloride        | 2.059  | 84  | 6903   | 1.016  | ppbv   | 91     |
| 23) Vinyl Acetate             | 2.454  | 43  | 4250   | 0.169  | ppbv # | 62     |
| 25) Ethyl Acetate             | 2.823  | 43  | 6532   | 0.153  | ppbv # | 82     |
| 26) Hexane                    | 2.823  | 57  | 8524   | 0.434  | ppbv # | 41     |
| 27) Carbon Disulfide          | 2.146  | 76  | 840    | 0.047  | ppbv # | 1      |
| 29) Chloroform                | 2.842  | 83  | 33102  | 1.163  | ppbv   | 98     |
| 34) 2-Butanone                | 2.554  | 43  | 20168  | 0.849  | ppbv   | 99     |
| 36) Benzene                   | 3.651  | 78  | 2054   | 0.062  | ppbv # | 68     |
| 39) 1,2-Dichloropropane       | 3.952  | 63  | 90629  | 7.446  | ppbv # | 24     |
| 41) Tetrahydrofuran           | 3.059  | 42  | 1049   | 0.079  | ppbv # | 58     |
| 52) Tetrachloroethene         | 8.212  | 164 | 3107   | 0.259  | ppbv   | 91     |
| 53) Toluene                   | 6.930  | 91  | 1473   | 0.037  | ppbv # | 42     |
| 59) m/p-Xylene                | 9.516  | 91  | 1252   | 0.031  | ppbv # | 29     |
| 65) tert-Butylbenzene         | 11.772 | 119 | 5269   | 0.082  | ppbv # | 22     |
| 74) 1,2,4-Trimethylbenzene    | 11.533 | 105 | 1532   | 0.033  | ppbv # | 47     |

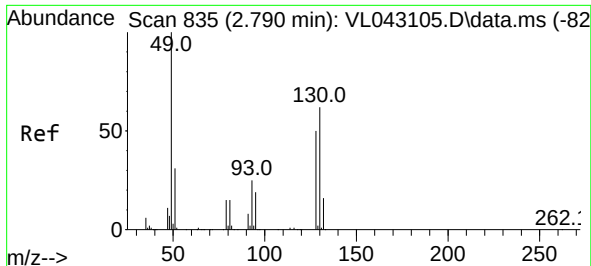
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043175.D  
Acq On : 06 Nov 2025 19:30  
Operator : SY/MD  
Sample : Q3556-03 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-1

Quant Time: Nov 07 00:27:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

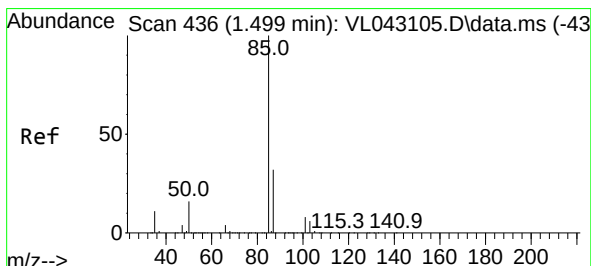
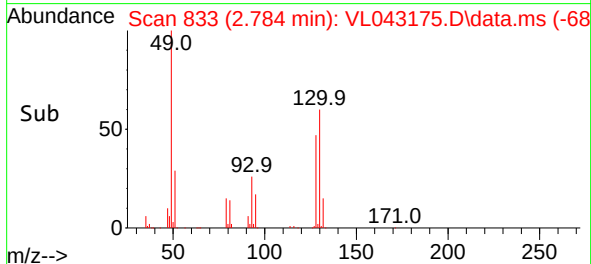
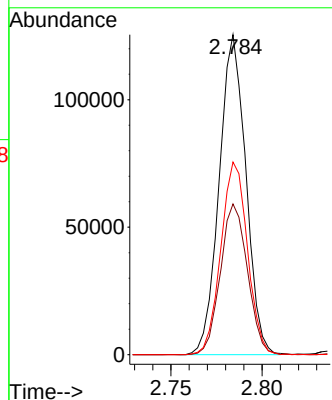
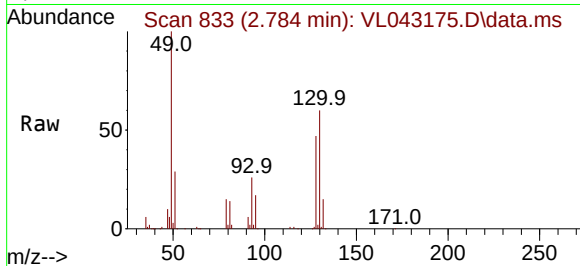




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

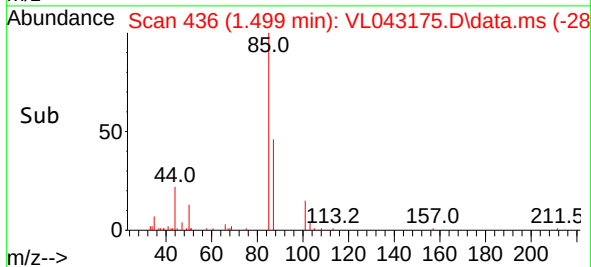
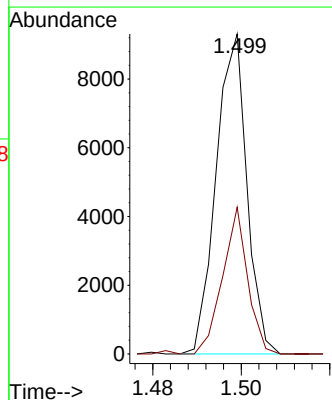
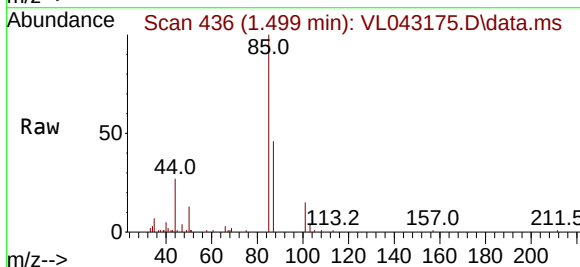
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

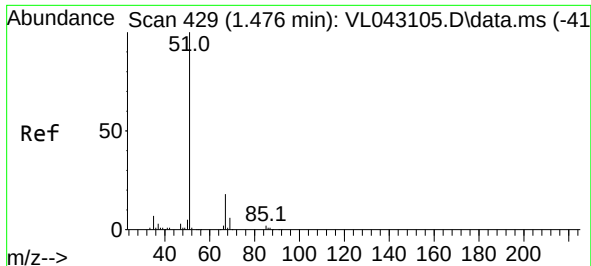
Tgt Ion: 49 Resp: 127539  
Ion Ratio Lower Upper  
49 100  
128 48.0 24.4 73.4  
130 60.1 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.247 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 85 Resp: 4484  
Ion Ratio Lower Upper  
85 100  
87 45.9 25.3 37.9

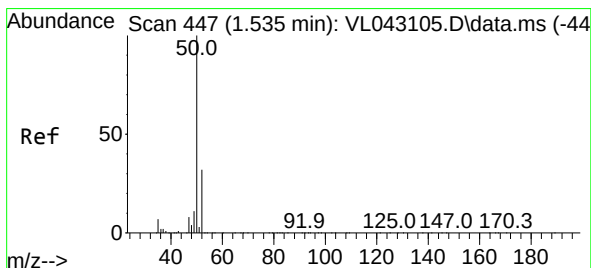
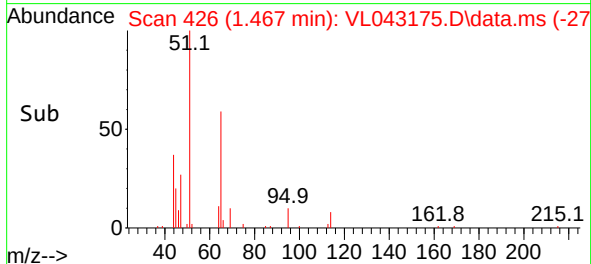
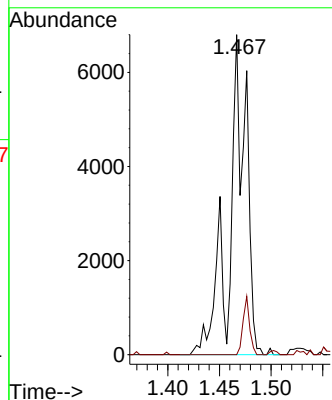
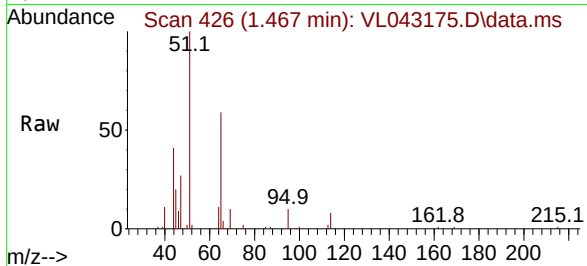




#3  
Chlorodifluoromethane  
Concen: 0.397 ppbv  
RT: 1.467 min Scan# 41  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

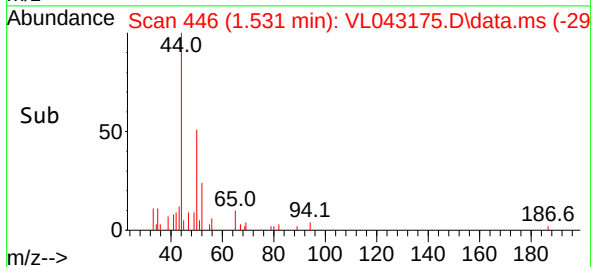
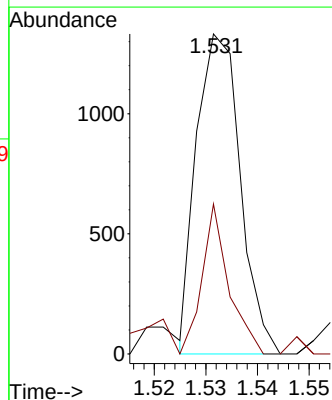
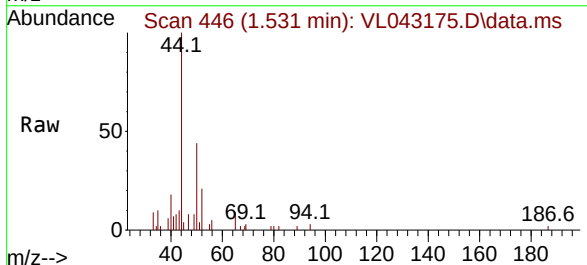
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

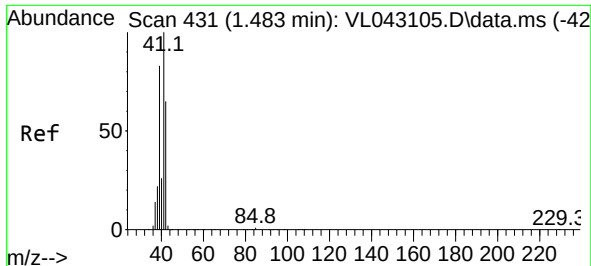
Tgt Ion: 51 Resp: 7795  
Ion Ratio Lower Upper  
51 100  
67 7.5 15.1 22.7#



#4  
Chloromethane  
Concen: 0.110 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.003 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 50 Resp: 787  
Ion Ratio Lower Upper  
50 100  
52 46.8 25.2 37.8#





#9

Propene

Concen: 0.125 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

Instrument :

MSVOA\_1

ClientSampleId :

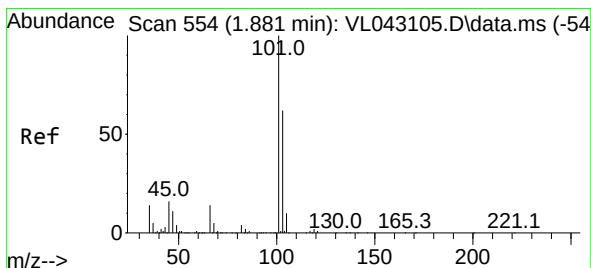
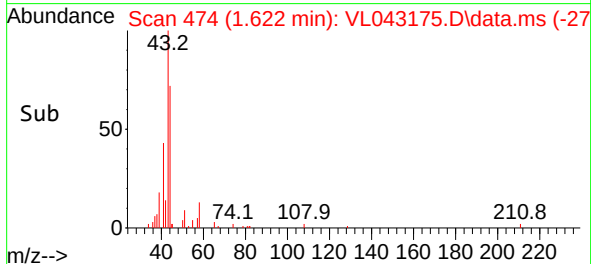
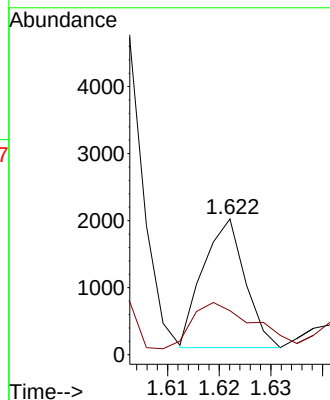
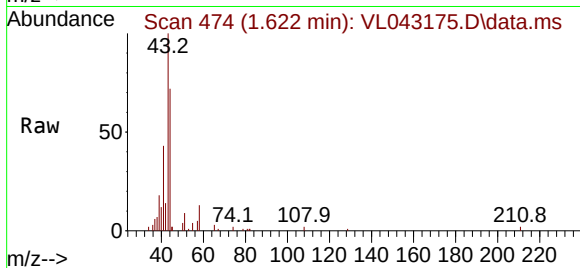
131-SG-1

Tgt Ion: 41 Resp: 1091

Ion Ratio Lower Upper

41 100

42 73.2 55.1 82.7



#11

Trichlorofluoromethane

Concen: 0.142 ppbv

RT: 1.878 min Scan# 553

Delta R.T. -0.003 min

Lab File: VL043175.D

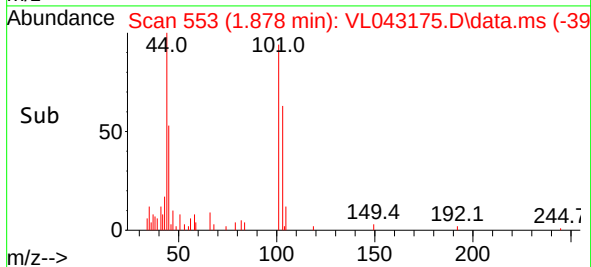
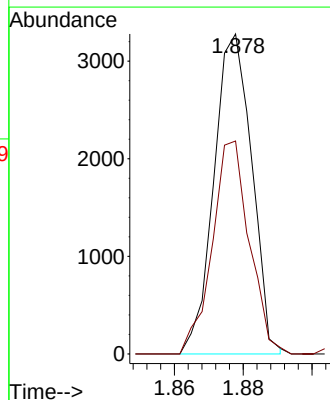
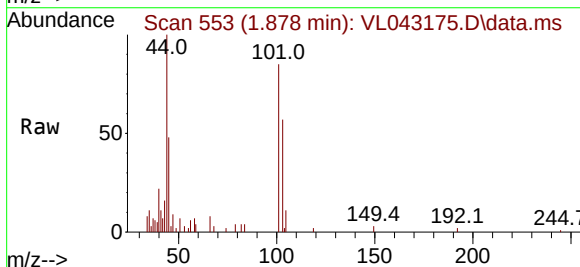
Acq: 06 Nov 2025 19:30

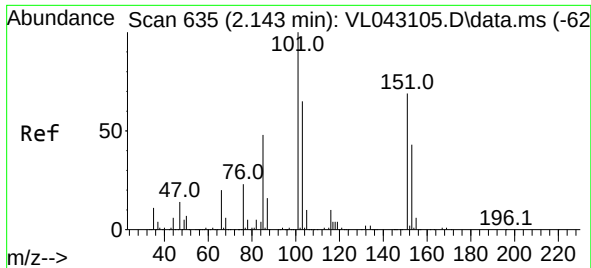
Tgt Ion: 101 Resp: 2510

Ion Ratio Lower Upper

101 100

103 66.5 49.3 73.9

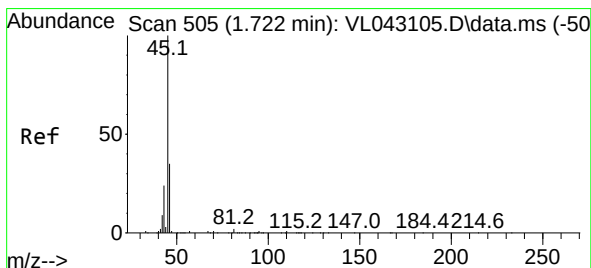
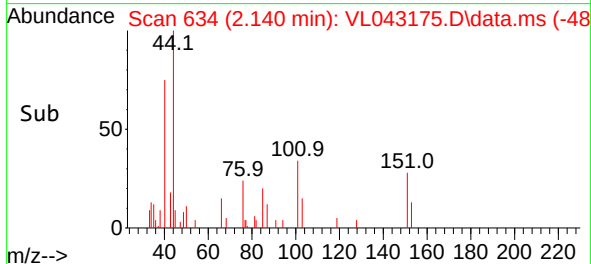
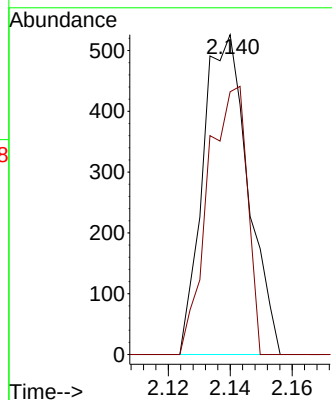
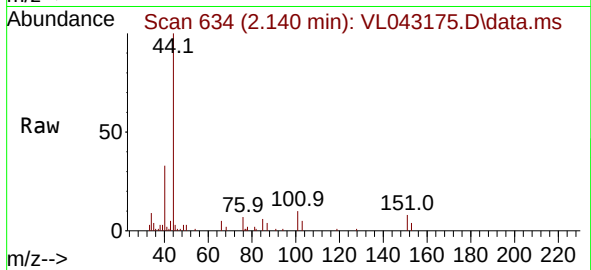




#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.037 ppbv  
 RT: 2.140 min Scan# 61  
 Delta R.T. -0.003 min  
 Lab File: VL043175.D  
 Acq: 06 Nov 2025 19:30

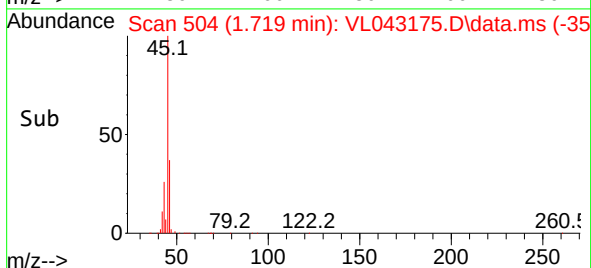
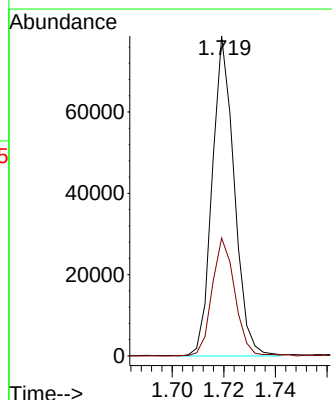
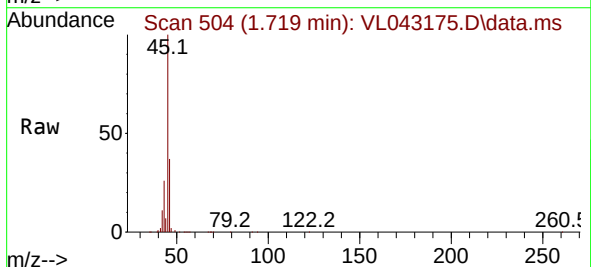
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 131-SG-1

Tgt Ion:101 Resp: 530  
 Ion Ratio Lower Upper  
 101 100  
 151 73.0 54.7 82.1

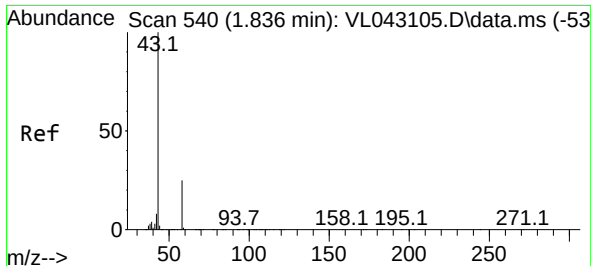


#13  
 Ethanol  
 Concen: 14.526 ppbv  
 RT: 1.719 min Scan# 504  
 Delta R.T. -0.003 min  
 Lab File: VL043175.D  
 Acq: 06 Nov 2025 19:30

Tgt Ion: 45 Resp: 46750  
 Ion Ratio Lower Upper  
 45 100  
 46 38.5 14.7 58.9







#15

Acetone

Concen: 6.197 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.003 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

Instrument :

MSVOA\_1

ClientSampleId :

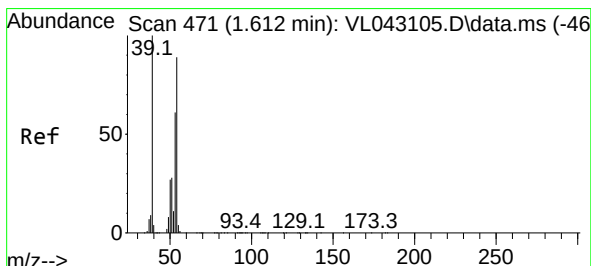
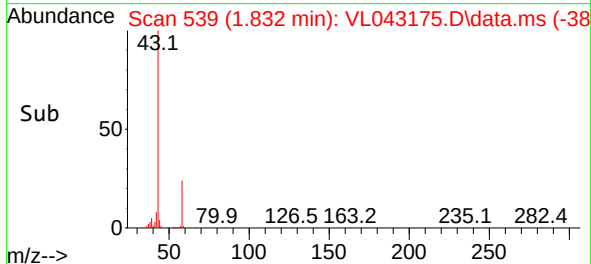
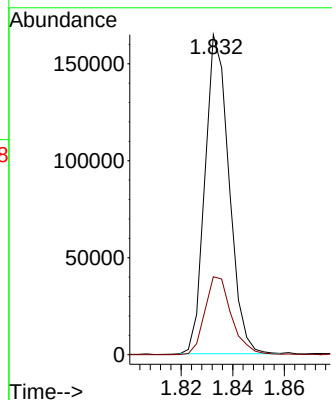
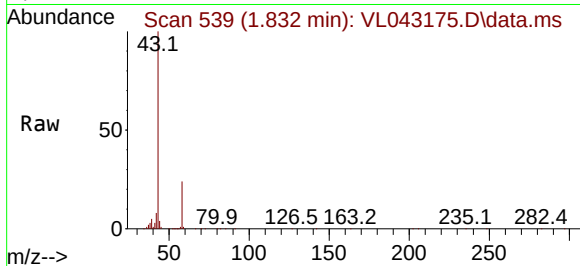
131-SG-1

Tgt Ion: 43 Resp: 106525

Ion Ratio Lower Upper

43 100

58 27.4 20.8 31.2



#16

1,3-Butadiene

Concen: 0.230 ppbv

RT: 1.603 min Scan# 468

Delta R.T. -0.010 min

Lab File: VL043175.D

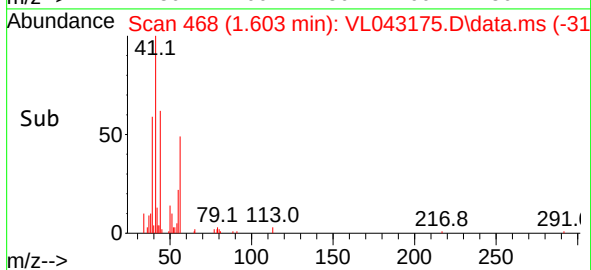
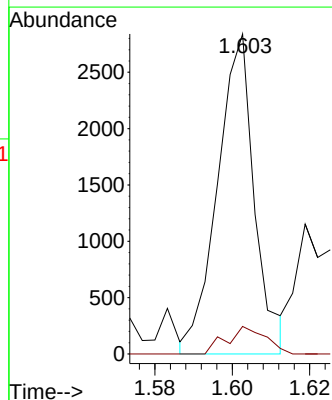
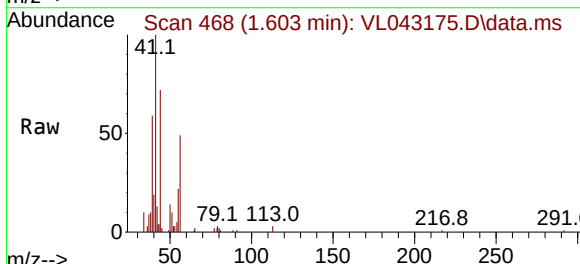
Acq: 06 Nov 2025 19:30

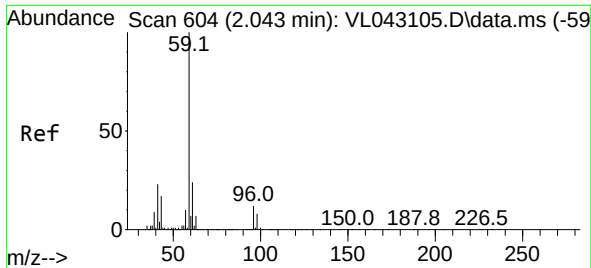
Tgt Ion: 39 Resp: 1882

Ion Ratio Lower Upper

39 100

54 9.1 59.0 88.4#





#17

tert-Butyl alcohol

Concen: 0.108 ppbv

RT: 2.040 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL043175.D

Acq: 06 Nov 2025 19:30

Instrument :

MSVOA\_1

ClientSampleId :

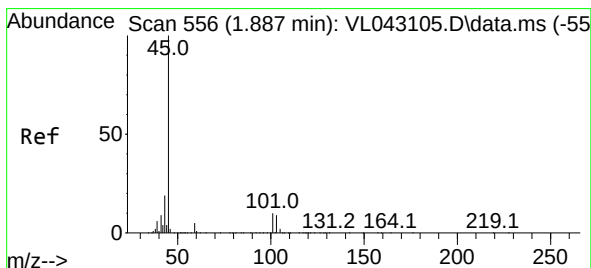
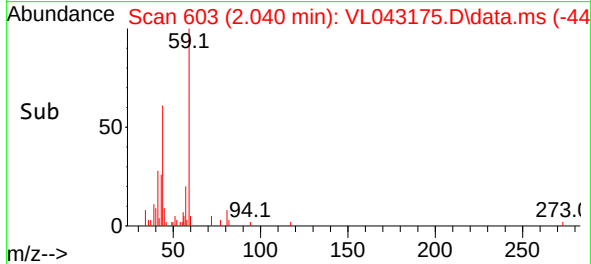
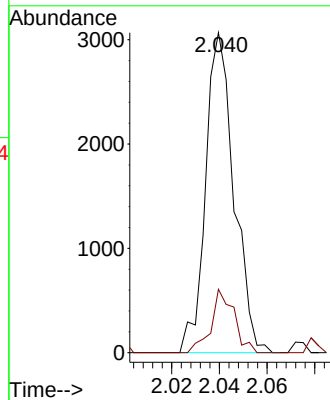
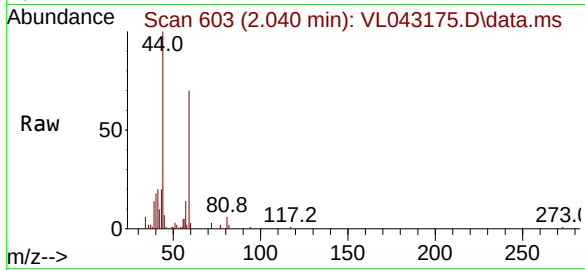
131-SG-1

Tgt Ion: 59 Resp: 2540

Ion Ratio Lower Upper

59 100

57 15.9 8.2 12.4#



#19

Isopropyl Alcohol

Concen: 0.395 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.003 min

Lab File: VL043175.D

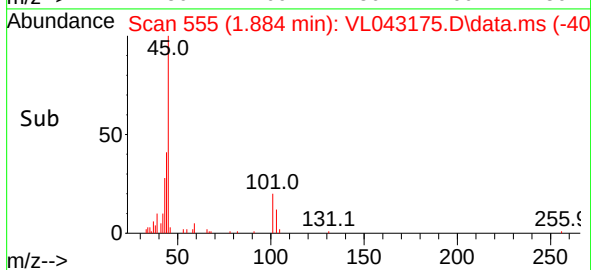
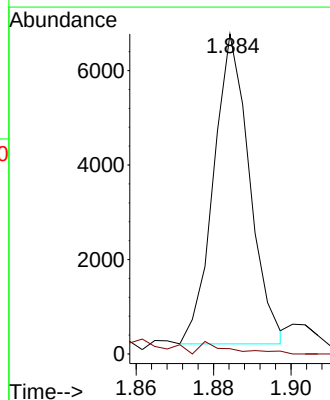
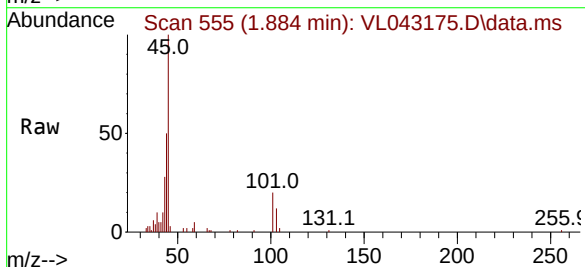
Acq: 06 Nov 2025 19:30

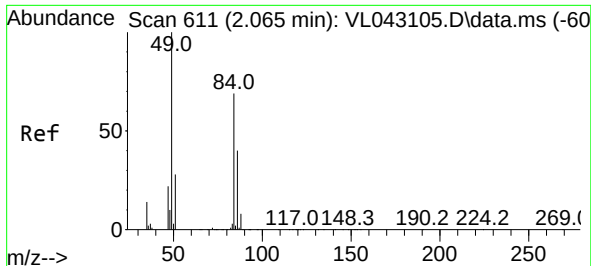
Tgt Ion: 45 Resp: 4232

Ion Ratio Lower Upper

45 100

58 689.4 31.3 46.9#

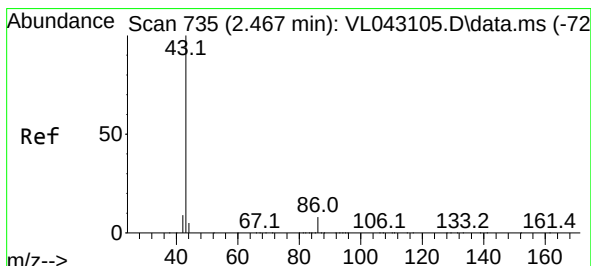
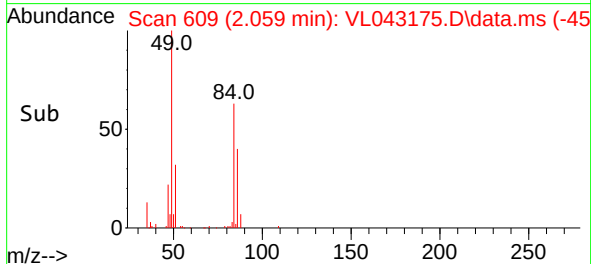
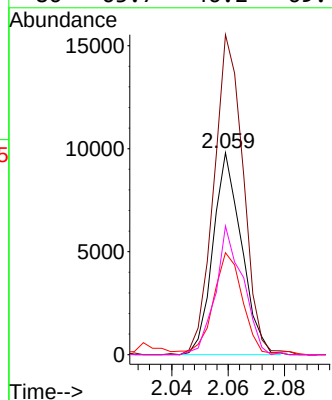
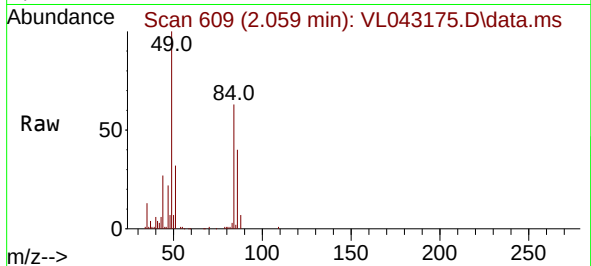




#20  
Methylene Chloride  
Concen: 1.016 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

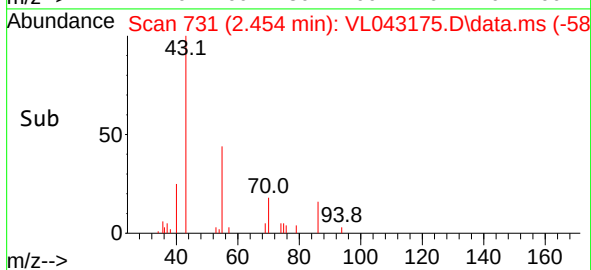
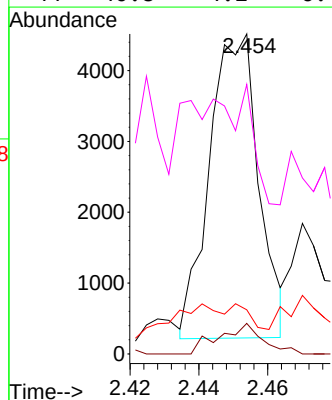
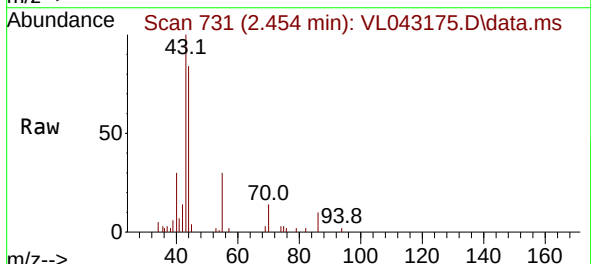
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

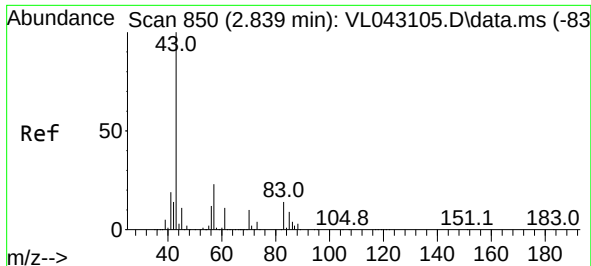
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 6903  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 158.5 | 116.6 | 175.0 |
| 51       | 49.2  | 34.8  | 52.2  |
| 86       | 63.7  | 46.2  | 69.4  |



#23  
Vinyl Acetate  
Concen: 0.169 ppbv  
RT: 2.454 min Scan# 731  
Delta R.T. -0.013 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4250  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.3  | 6.2   | 9.2#  |
| 42       | 0.1   | 7.6   | 11.4# |
| 44       | 40.8  | 4.2   | 6.4#  |

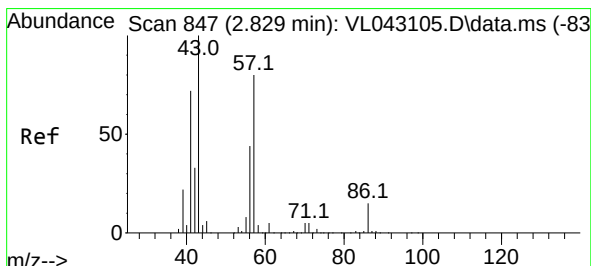
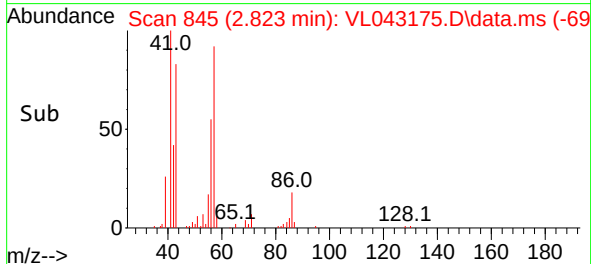
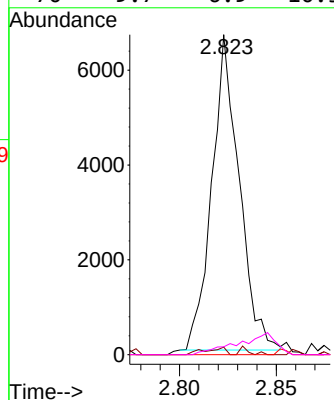
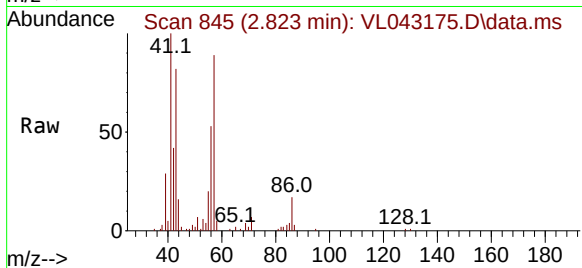




#25  
Ethyl Acetate  
Concen: 0.153 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.016 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

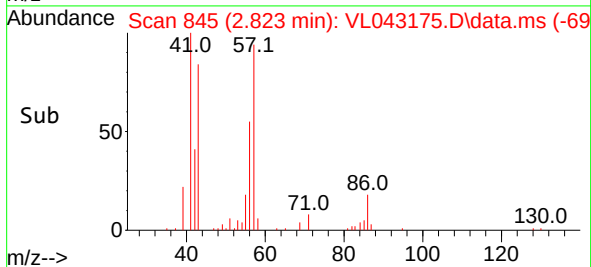
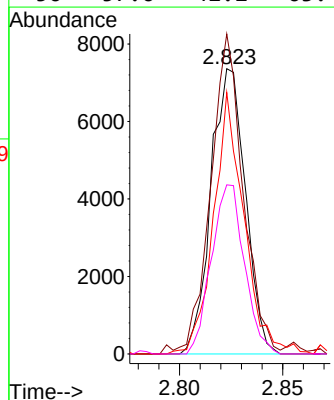
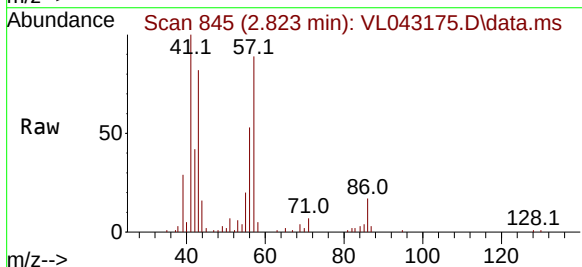
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

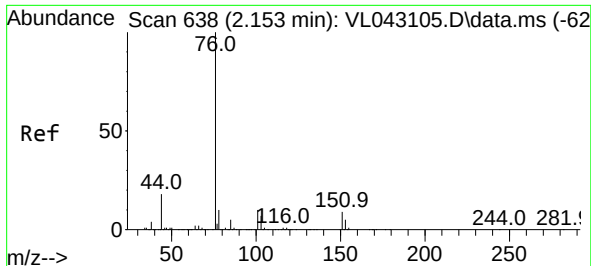
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 6532  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 0.0      | 7.8 11.8#   |
| 61 0.0      | 7.0 10.6#   |
| 70 9.7      | 6.9 10.3    |



#26  
Hexane  
Concen: 0.434 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 8524   |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 110.2    | 71.4 107.0#  |
| 43 82.9     | 178.5 267.7# |
| 56 57.6     | 42.2 63.4    |

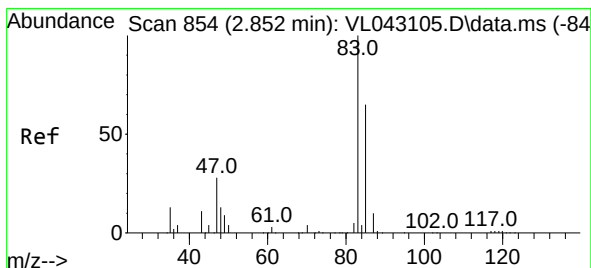
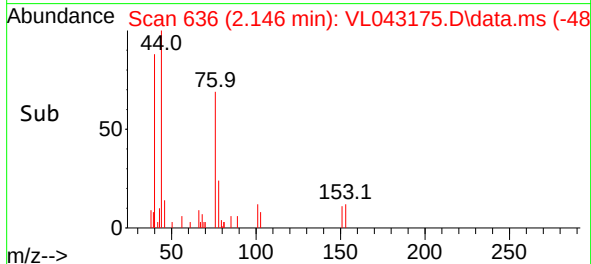
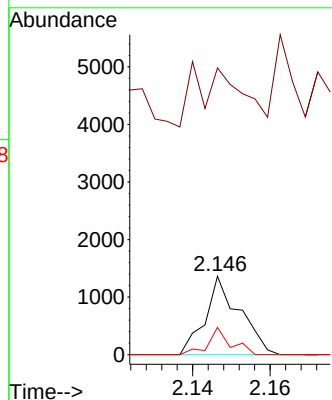
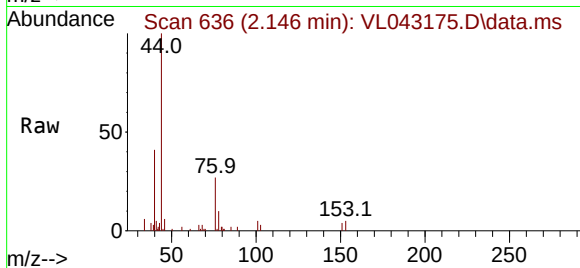




#27  
Carbon Disulfide  
Concen: 0.047 ppbv  
RT: 2.146 min Scan# 611  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

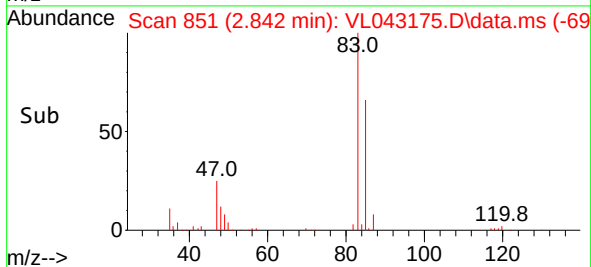
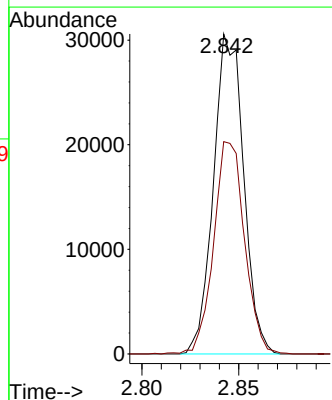
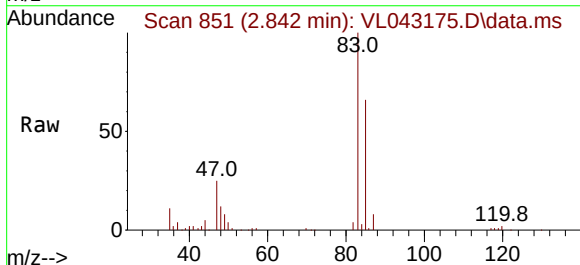
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

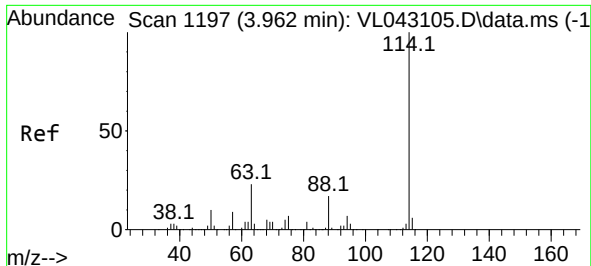
Tgt Ion: 76 Resp: 840  
Ion Ratio Lower Upper  
76 100  
44 1208.6 16.7 25.1#  
78 22.3 9.3 13.9#



#29  
Chloroform  
Concen: 1.163 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 83 Resp: 33102  
Ion Ratio Lower Upper  
83 100  
85 66.1 51.8 77.6

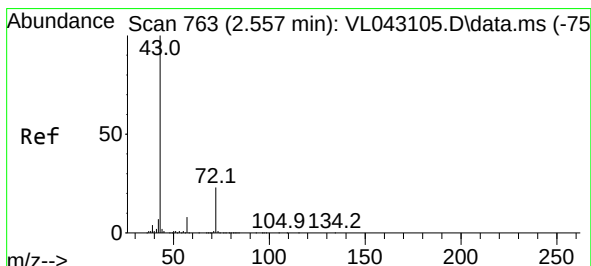
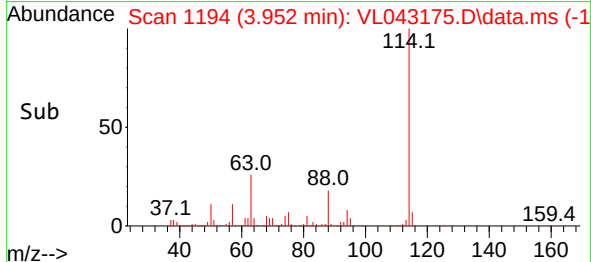
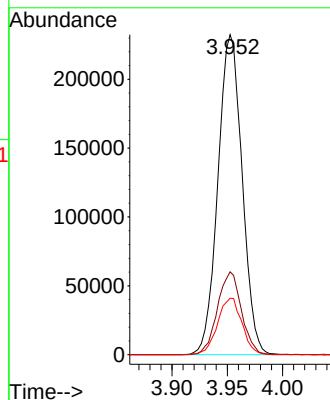
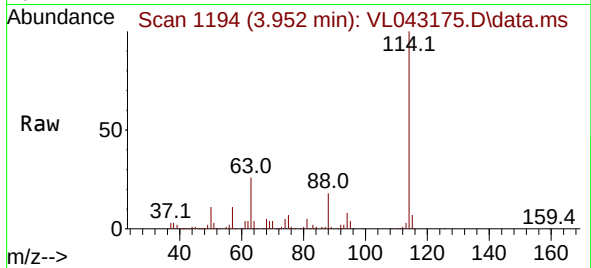




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.952 min Scan# 1194  
 Delta R.T. -0.010 min  
 Lab File: VL043175.D  
 Acq: 06 Nov 2025 19:30

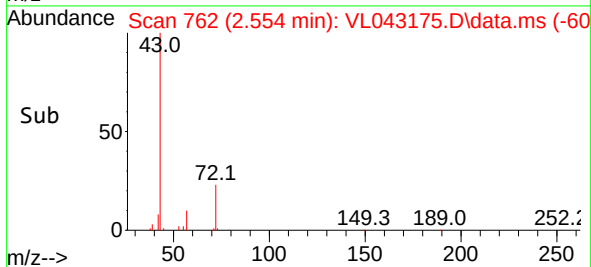
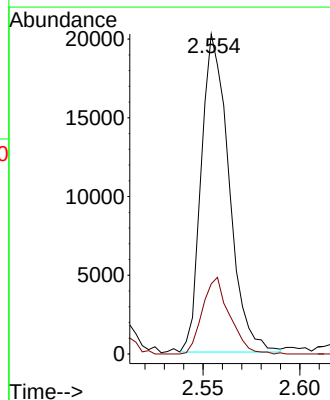
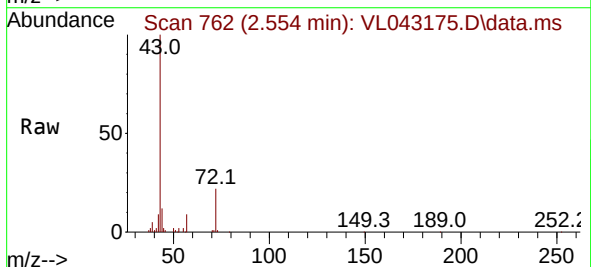
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 MSVOA\_1  
 ClientSampleId :  
 131-SG-1

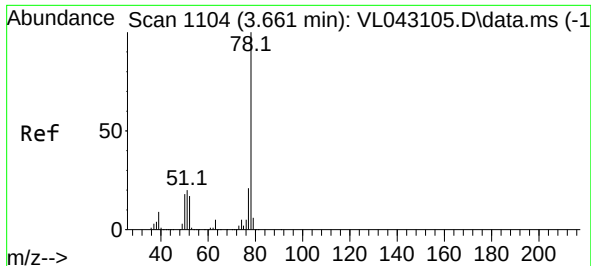
Tgt Ion:114 Resp: 353509  
 Ion Ratio Lower Upper  
 114 100  
 63 25.7 19.3 28.9  
 88 17.8 13.9 20.9



#34  
 2-Butanone  
 Concen: 0.849 ppbv  
 RT: 2.554 min Scan# 762  
 Delta R.T. -0.003 min  
 Lab File: VL043175.D  
 Acq: 06 Nov 2025 19:30

Tgt Ion: 43 Resp: 20168  
 Ion Ratio Lower Upper  
 43 100  
 72 23.5 18.4 27.6

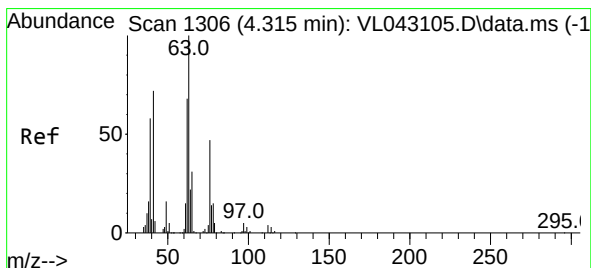
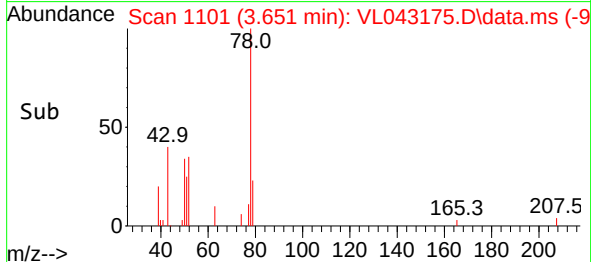
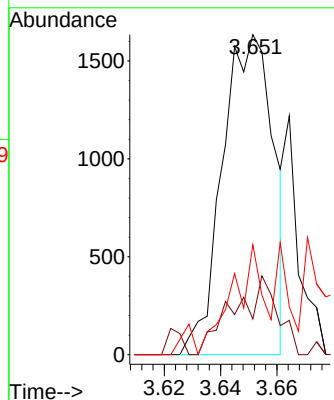
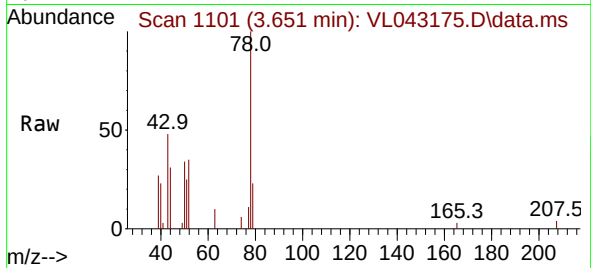




#36  
Benzene  
Concen: 0.062 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

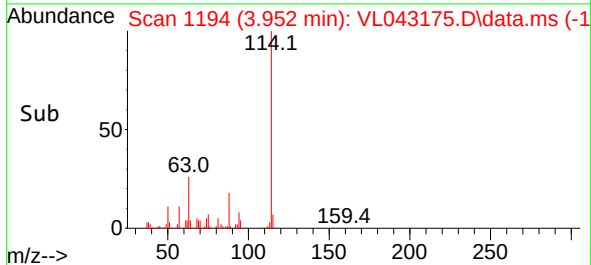
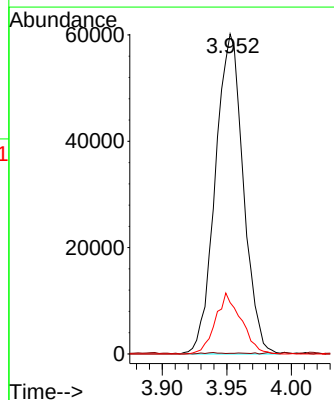
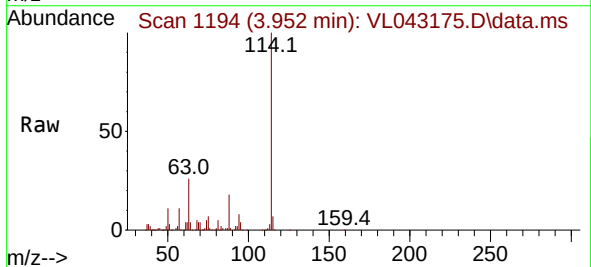
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MSVOA\_1  
ClientSampleId :  
131-SG-1

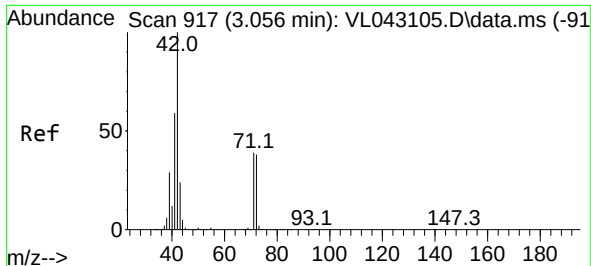
Tgt Ion: 78 Resp: 2054  
Ion Ratio Lower Upper  
78 100  
77 4.7 17.0 25.6#  
50 30.6 14.6 22.0#



#39  
1,2-Dichloropropane  
Concen: 7.446 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.362 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 63 Resp: 90629  
Ion Ratio Lower Upper  
63 100  
41 0.2 58.0 87.0#  
62 16.1 54.7 82.1#

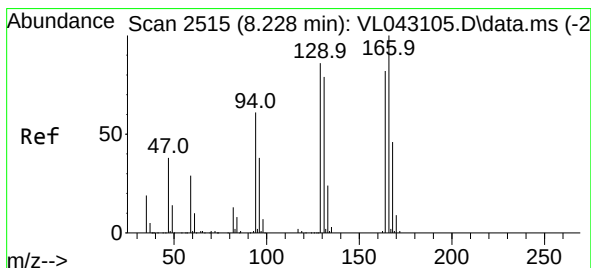
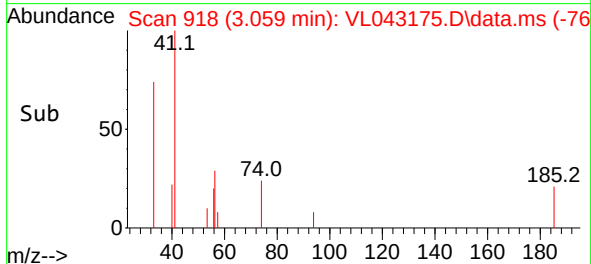
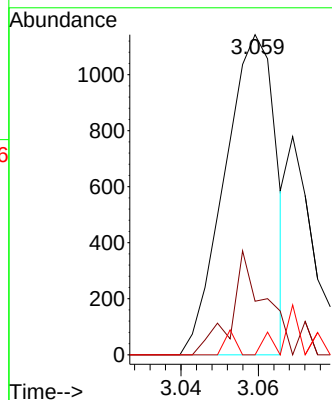
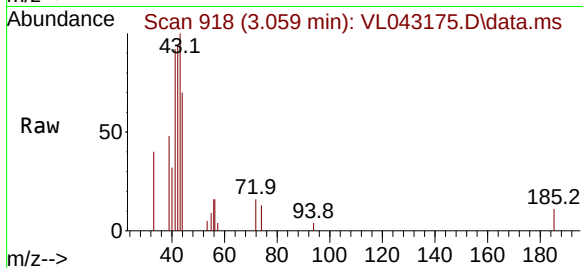




#41  
Tetrahydrofuran  
Concen: 0.079 ppbv  
RT: 3.059 min Scan# 917  
Delta R.T. 0.003 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

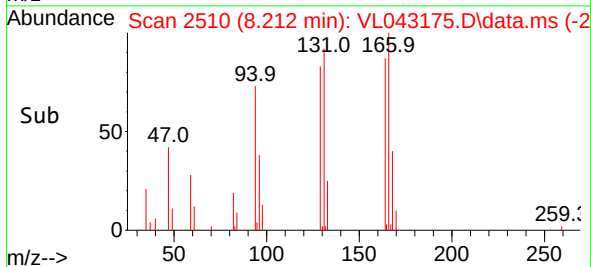
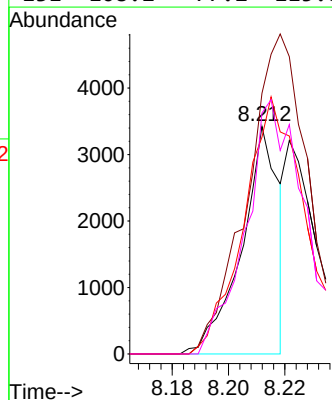
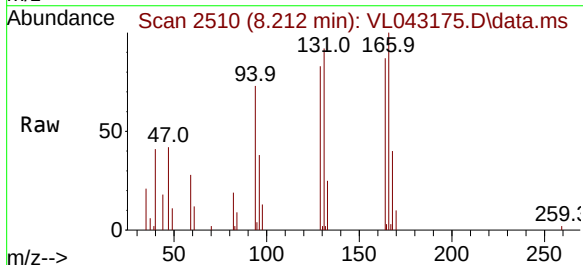
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

Tgt Ion: 42 Resp: 1049  
Ion Ratio Lower Upper  
42 100  
72 26.5 31.3 46.9#  
71 0.0 30.4 45.6#

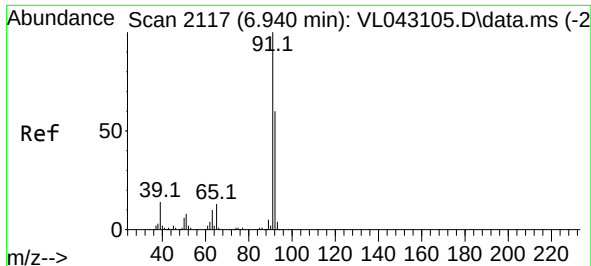


#52  
Tetrachloroethene  
Concen: 0.259 ppbv  
RT: 8.212 min Scan# 2510  
Delta R.T. -0.016 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 164 Resp: 3107  
Ion Ratio Lower Upper  
164 100  
166 114.5 97.6 146.4  
129 95.2 84.5 126.7  
131 108.2 77.2 115.8



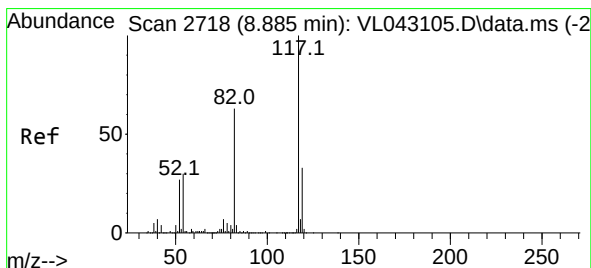
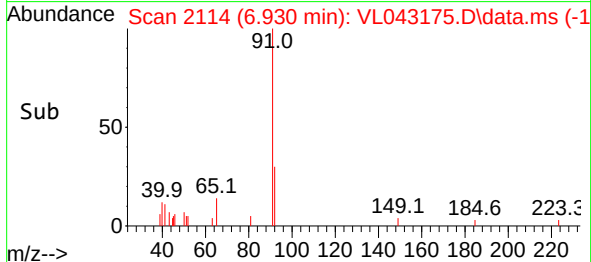
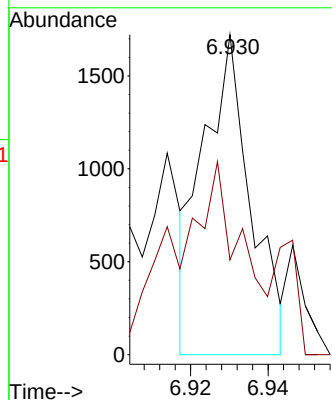
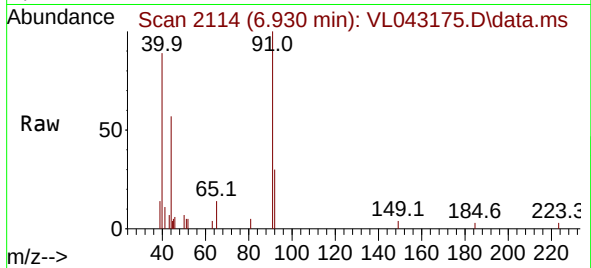




#53  
Toluene  
Concen: 0.037 ppbv  
RT: 6.930 min Scan# 2117  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

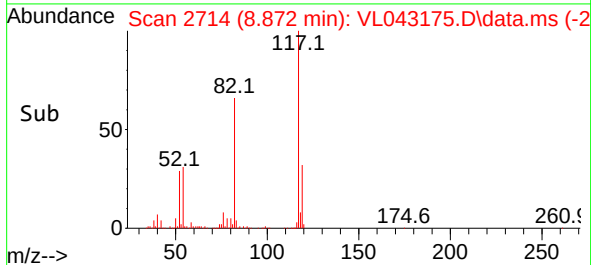
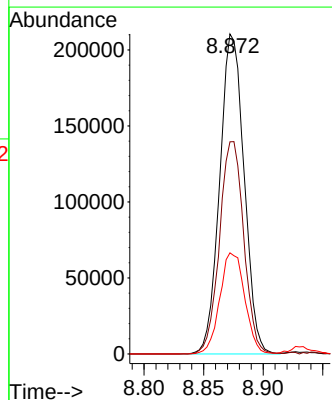
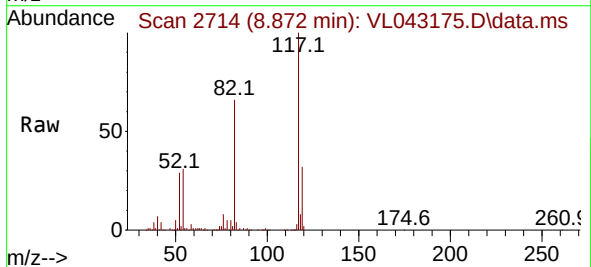
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

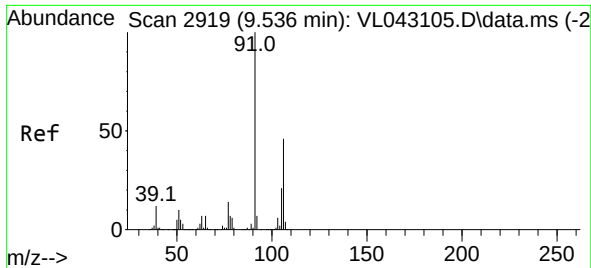
Tgt Ion: 91 Resp: 1473  
Ion Ratio Lower Upper  
91 100  
92 105.5 48.8 73.2#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 2714  
Delta R.T. -0.013 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 117 Resp: 299020  
Ion Ratio Lower Upper  
117 100  
82 66.2 53.8 80.8  
119 32.4 25.4 38.0

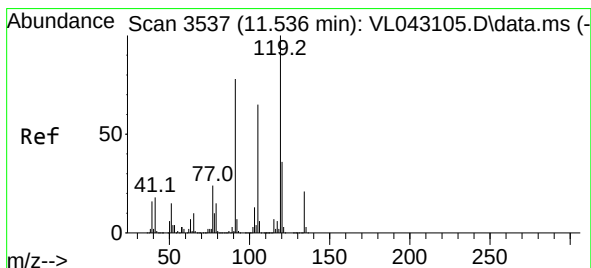
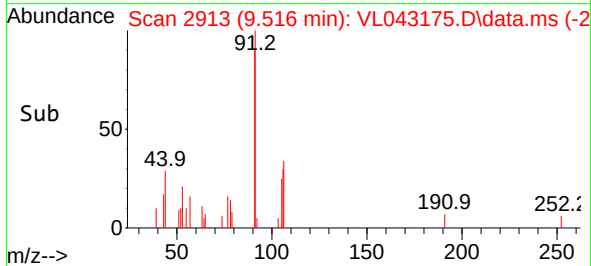
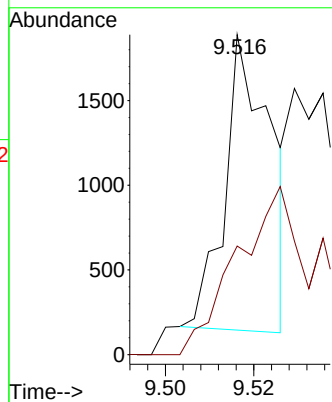
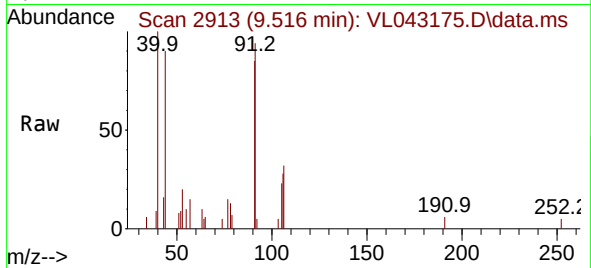




#59  
m/p-Xylene  
Concen: 0.031 ppbv  
RT: 9.516 min Scan# 2919  
Delta R.T. -0.019 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

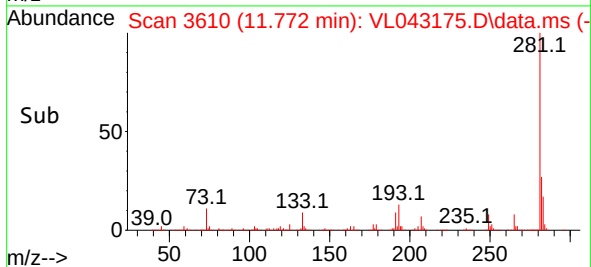
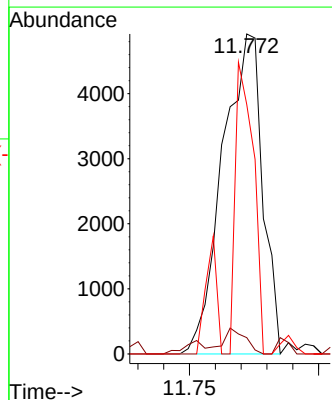
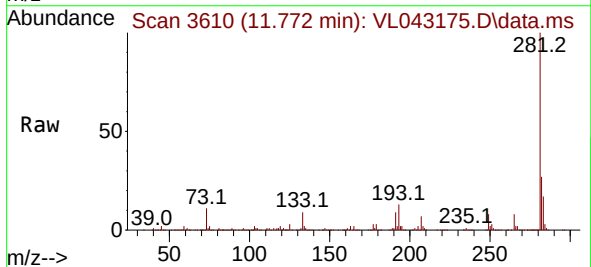
Instrument : MSVOA\_1  
ClientSampleId : 131-SG-1

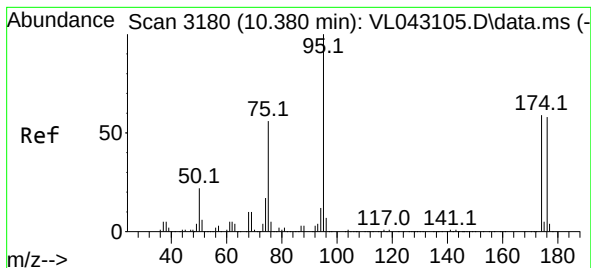
Tgt Ion: 91 Resp: 1252  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.0 57.0#



#65  
tert-Butylbenzene  
Concen: 0.082 ppbv  
RT: 11.772 min Scan# 3610  
Delta R.T. 0.236 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 119 Resp: 5269  
Ion Ratio Lower Upper  
119 100  
91 8.7 63.4 95.0#  
134 54.7 17.3 25.9#

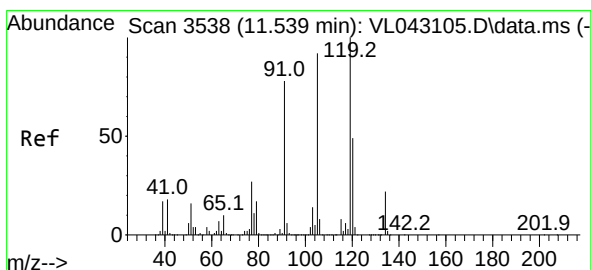
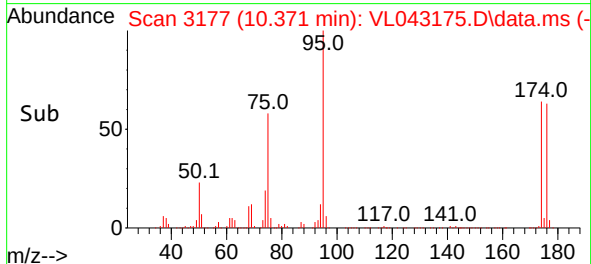
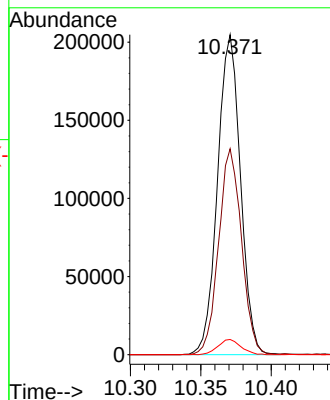
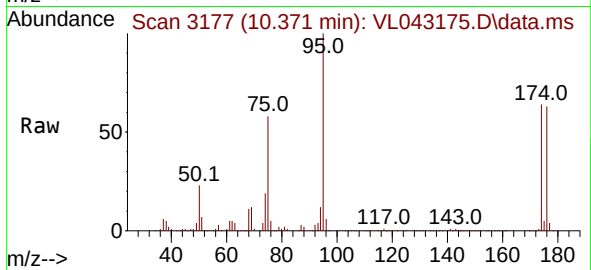




#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.998 ppbv  
RT: 10.371 min Scan# 3180  
Delta R.T. -0.010 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

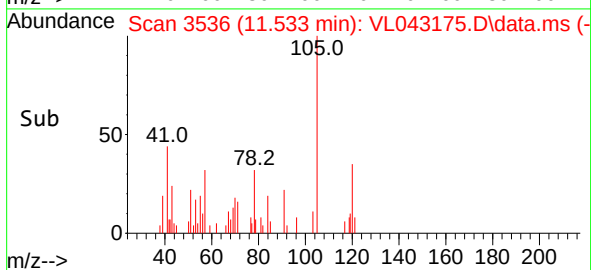
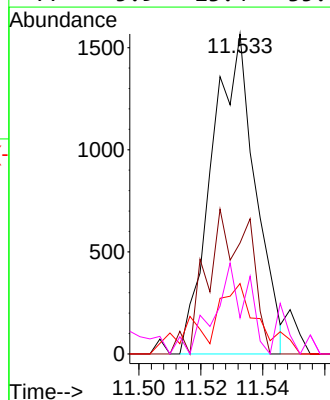
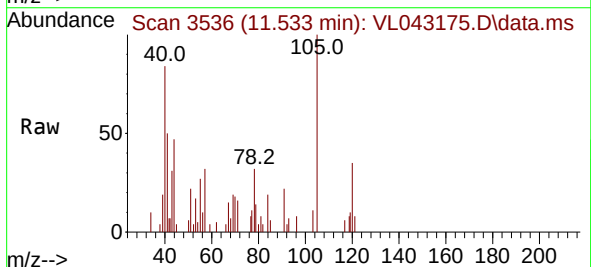
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-1

Tgt Ion: 95 Resp: 232369  
Ion Ratio Lower Upper  
95 100  
174 64.4 48.3 72.5  
175 4.8 3.8 5.8



#74  
1,2,4-Trimethylbenzene  
Concen: 0.033 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. -0.006 min  
Lab File: VL043175.D  
Acq: 06 Nov 2025 19:30

Tgt Ion: 105 Resp: 1532  
Ion Ratio Lower Upper  
105 100  
120 34.7 42.8 64.2#  
91 18.8 68.3 102.5#  
77 5.9 23.4 35.0#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
 Data File : VL043176.D  
 Acq On : 06 Nov 2025 20:03  
 Operator : SY/MD  
 Sample : Q3556-04 2X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 131-SG-2

Quant Time: Nov 07 00:28:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 Response via : Initial Calibration

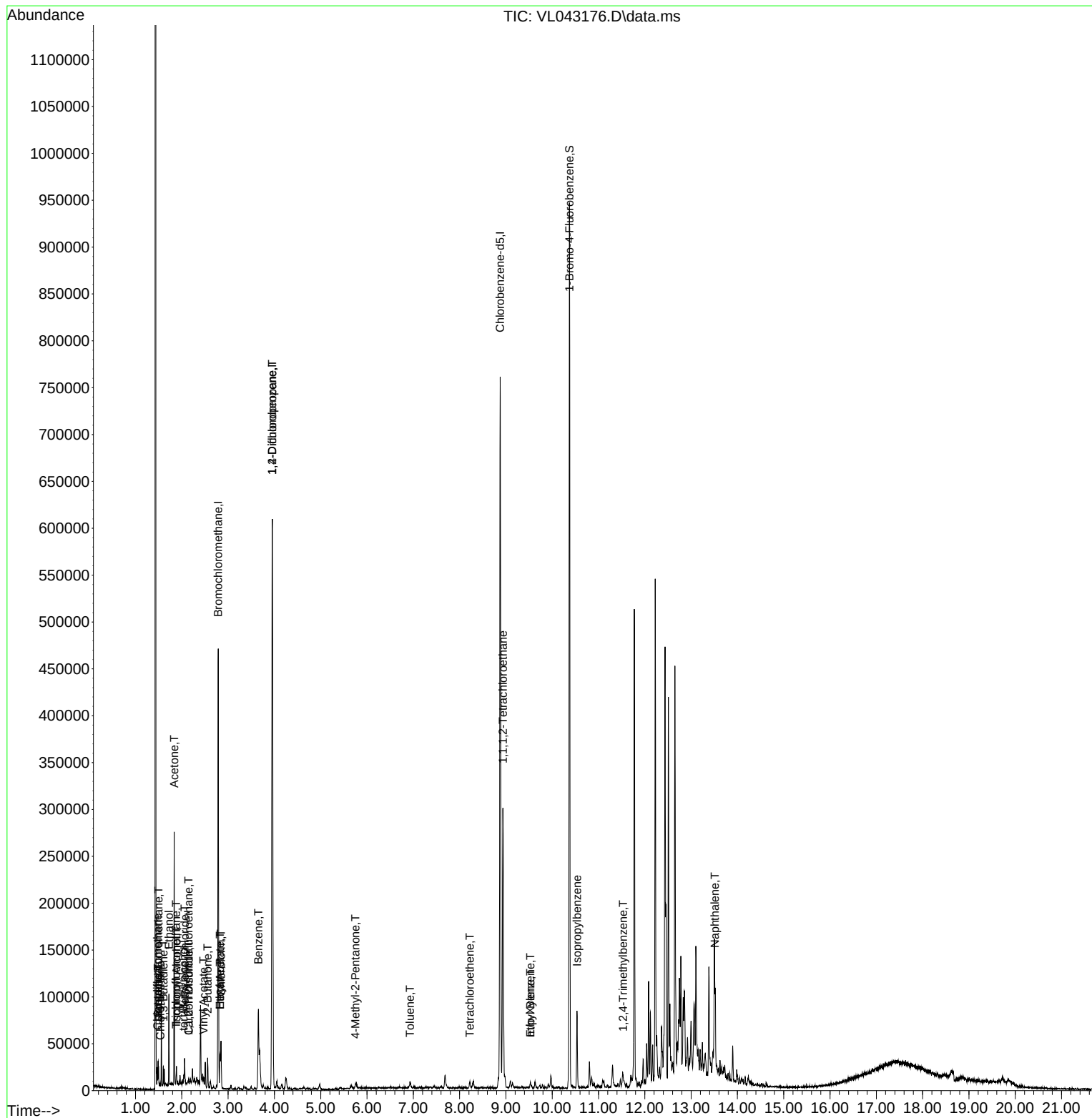
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.784  | 49    | 130480   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 360019   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.875  | 117   | 309583   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 240054   | 9.976    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 4362     | 0.235    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 8747     | 0.436    | ppbv # | 80       |
| 4) Chloromethane              | 1.534  | 50    | 704      | 0.096    | ppbv # | 70       |
| 9) Propene                    | 1.486  | 41    | 3526     | 0.396    | ppbv   | 94       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 2266     | 0.125    | ppbv   | 94       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 548      | 0.038    | ppbv # | 78       |
| 13) Ethanol                   | 1.722  | 45    | 34752    | 10.555   | ppbv   | 100      |
| 15) Acetone                   | 1.835  | 43    | 111827   | 6.359    | ppbv   | 91       |
| 16) 1,3-Butadiene             | 1.602  | 39    | 2451     | 0.292    | ppbv # | 25       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 3728     | 0.154    | ppbv # | 76       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 6484     | 0.592    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.062  | 84    | 4427     | 0.637    | ppbv # | 86       |
| 23) Vinyl Acetate             | 2.470  | 43    | 1891     | 0.073    | ppbv # | 48       |
| 25) Ethyl Acetate             | 2.826  | 43    | 5755     | 0.132    | ppbv # | 83       |
| 26) Hexane                    | 2.826  | 57    | 7014     | 0.349    | ppbv # | 39       |
| 27) Carbon Disulfide          | 2.149  | 76    | 1193     | 0.065    | ppbv # | 1        |
| 29) Chloroform                | 2.845  | 83    | 19971    | 0.686    | ppbv   | 99       |
| 34) 2-Butanone                | 2.557  | 43    | 19902    | 0.822    | ppbv   | 99       |
| 36) Benzene                   | 3.654  | 78    | 52069    | 1.536    | ppbv   | 97       |
| 39) 1,2-Dichloropropane       | 3.955  | 63    | 90779    | 7.323    | ppbv # | 26       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43    | 1643     | 0.049    | ppbv # | 38       |
| 52) Tetrachloroethene         | 8.221  | 164   | 1247     | 0.102    | ppbv # | 65       |
| 53) Toluene                   | 6.927  | 91    | 1746     | 0.043    | ppbv # | 1        |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131   | 631      | 0.032    | ppbv # | 1        |
| 58) Ethyl Benzene             | 9.529  | 91    | 2679     | 0.050    | ppbv   | 96       |
| 59) m/p-Xylene                | 9.529  | 91    | 2679     | 0.063    | ppbv   | 91       |
| 62) Isopropylbenzene          | 10.536 | 105   | 35300    | 0.467    | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105   | 2166     | 0.046    | ppbv # | 47       |
| 79) Naphthalene               | 13.513 | 128   | 1582     | 0.032    | ppbv # | 1        |

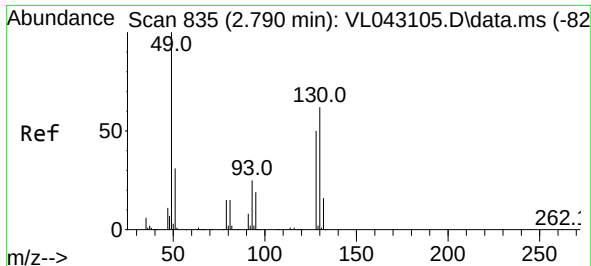
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110625\  
Data File : VL043176.D  
Acq On : 06 Nov 2025 20:03  
Operator : SY/MD  
Sample : Q3556-04 2X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Quant Time: Nov 07 00:28:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

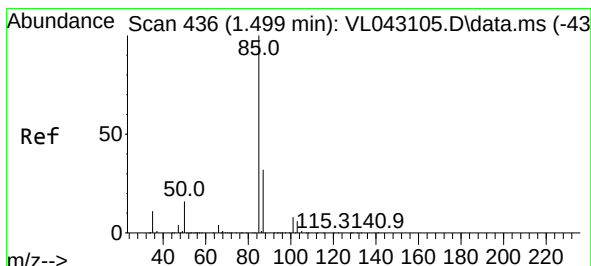
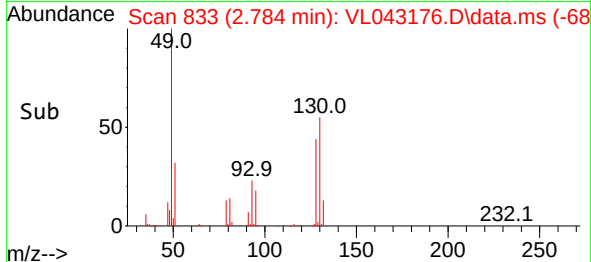
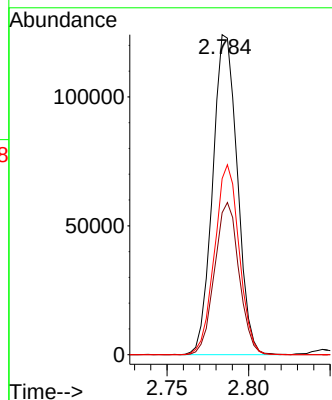
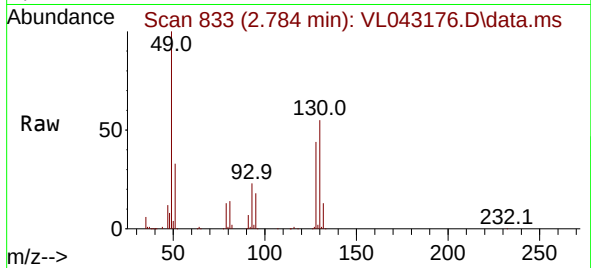




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

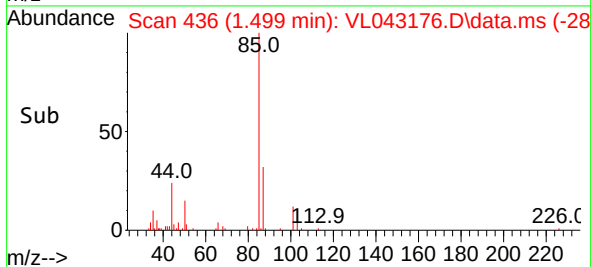
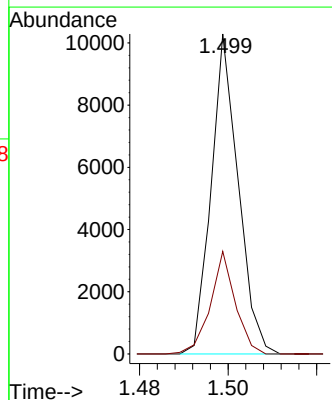
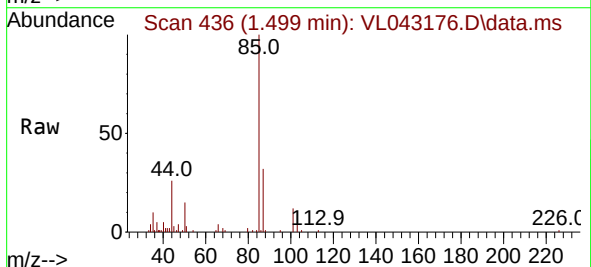
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

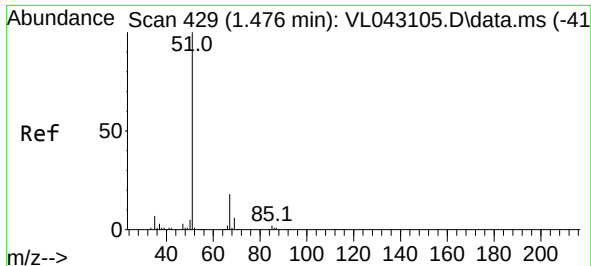
Tgt Ion: 49 Resp: 130480  
Ion Ratio Lower Upper  
49 100  
128 47.2 24.4 73.4  
130 59.3 31.0 93.0



#2  
Dichlorodifluoromethane  
Concen: 0.235 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 85 Resp: 4362  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.3 37.9

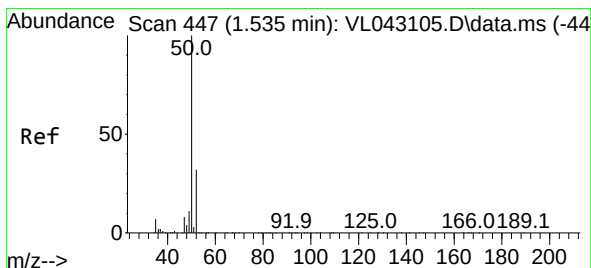
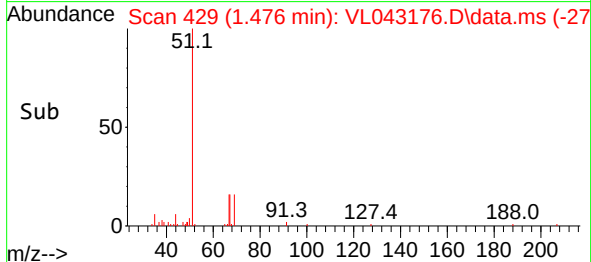
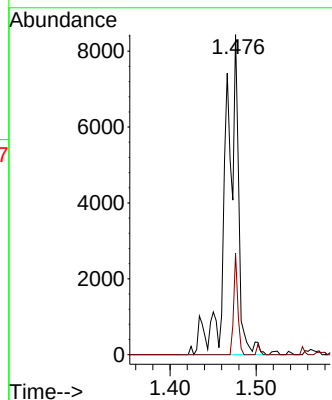
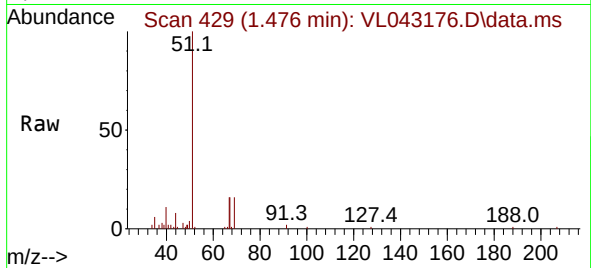




#3  
Chlorodifluoromethane  
Concen: 0.436 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

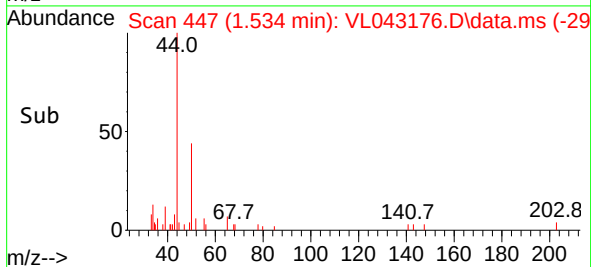
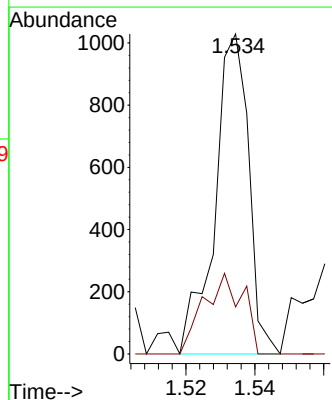
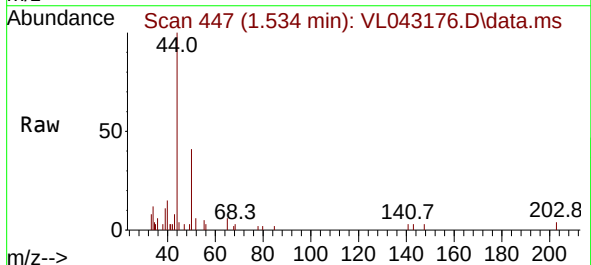
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

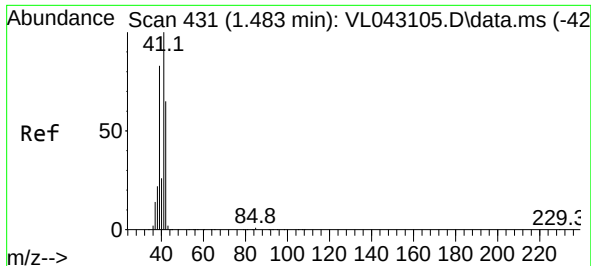
Tgt Ion: 51 Resp: 8747  
Ion Ratio Lower Upper  
51 100  
67 10.1 15.1 22.7#



#4  
Chloromethane  
Concen: 0.096 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 50 Resp: 704  
Ion Ratio Lower Upper  
50 100  
52 14.7 25.2 37.8#





#9

Propene

Concen: 0.396 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

Instrument :

MSVOA\_1

ClientSampleId :

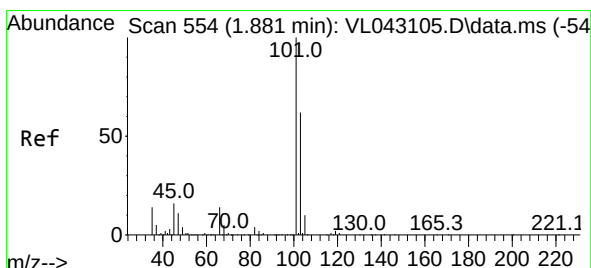
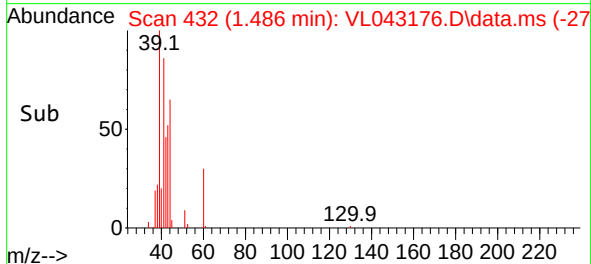
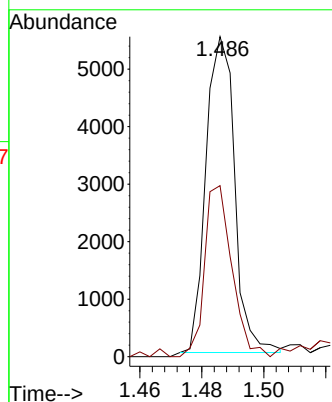
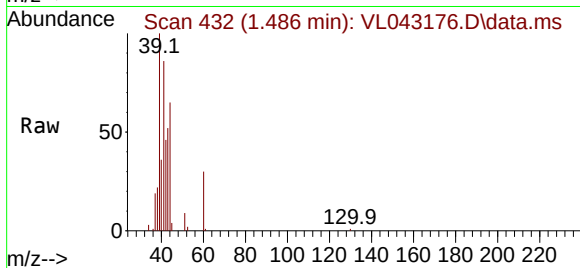
131-SG-2

Tgt Ion: 41 Resp: 3526

Ion Ratio Lower Upper

41 100

42 63.9 55.1 82.7



#11

Trichlorofluoromethane

Concen: 0.125 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.003 min

Lab File: VL043176.D

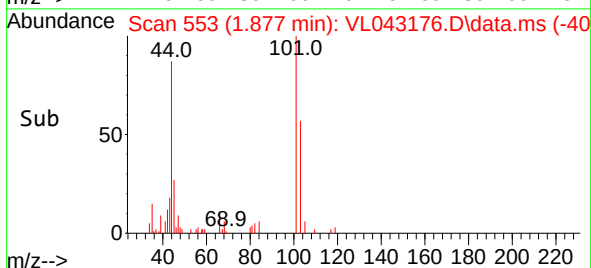
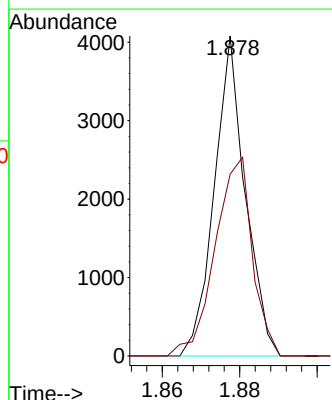
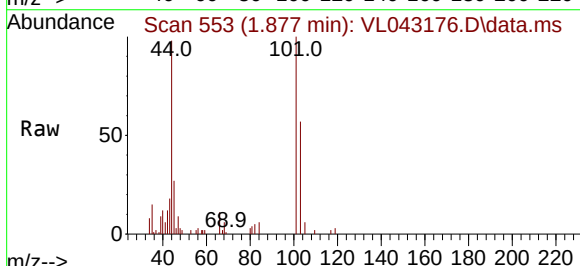
Acq: 06 Nov 2025 20:03

Tgt Ion: 101 Resp: 2266

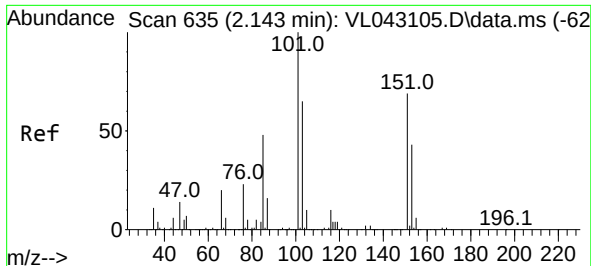
Ion Ratio Lower Upper

101 100

103 56.8 49.3 73.9



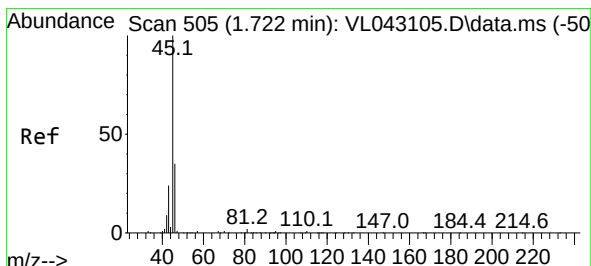
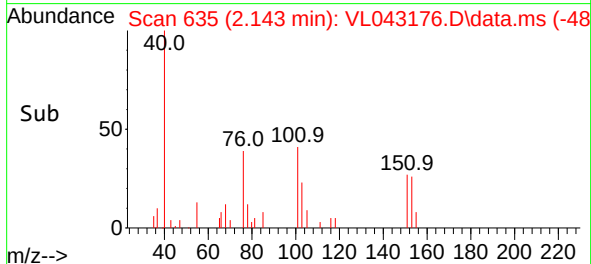
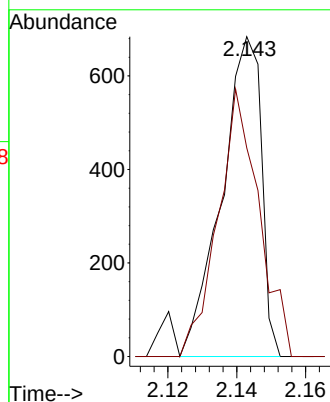
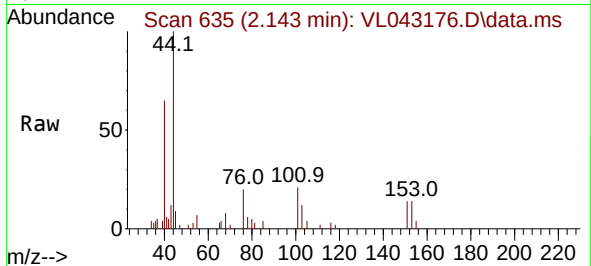




#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.038 ppbv  
 RT: 2.143 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

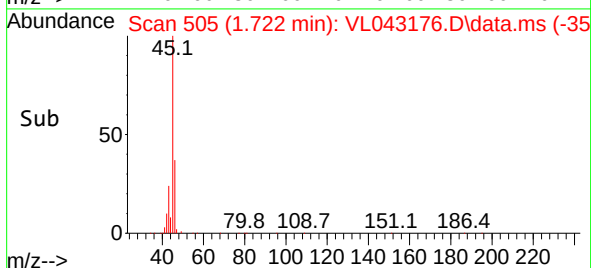
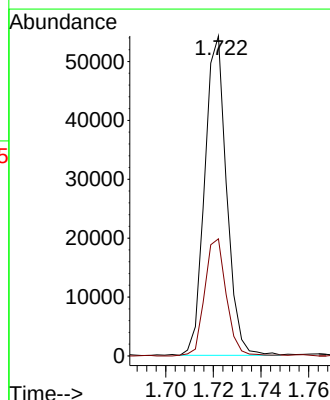
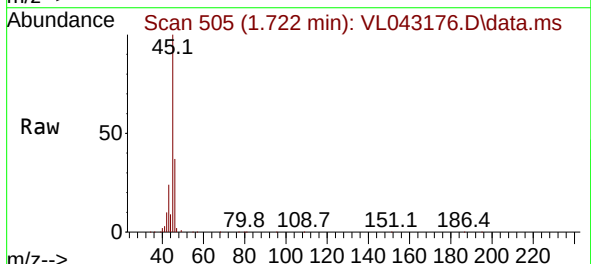
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 131-SG-2

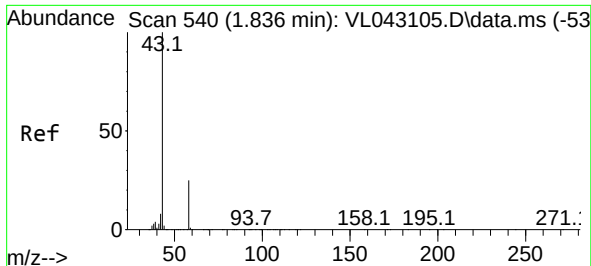
Tgt Ion:101 Resp: 548  
 Ion Ratio Lower Upper  
 101 100  
 151 86.1 54.7 82.1#



#13  
 Ethanol  
 Concen: 10.555 ppbv  
 RT: 1.722 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

Tgt Ion: 45 Resp: 34752  
 Ion Ratio Lower Upper  
 45 100  
 46 37.0 14.7 58.9

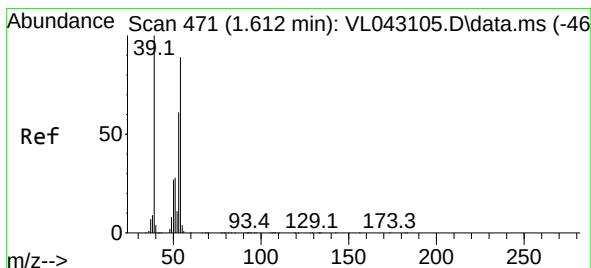
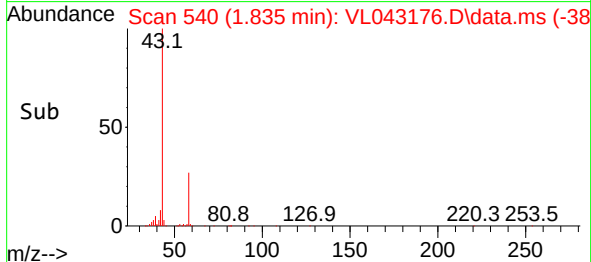
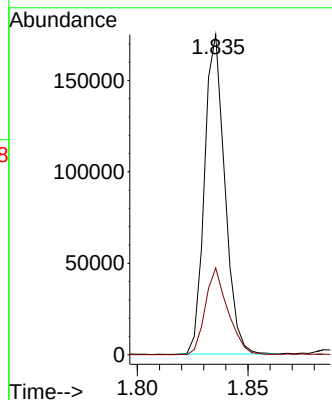
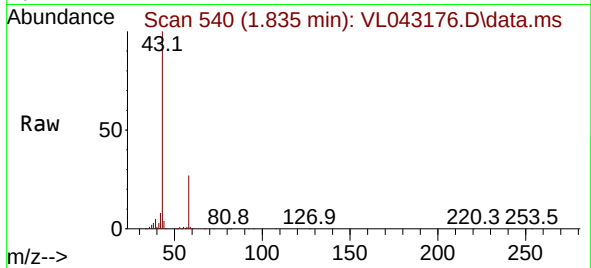




#15  
Acetone  
Concen: 6.359 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

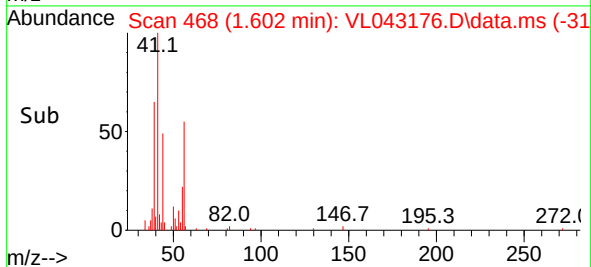
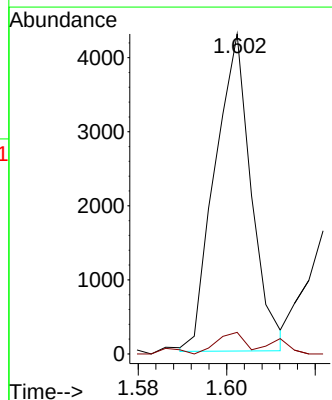
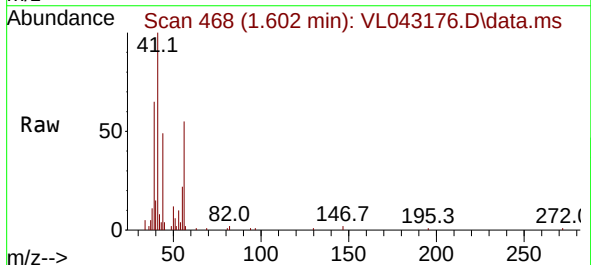
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

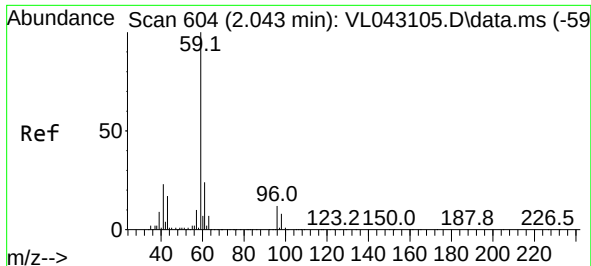
Tgt Ion: 43 Resp: 111827  
Ion Ratio Lower Upper  
43 100  
58 30.5 20.8 31.2



#16  
1,3-Butadiene  
Concen: 0.292 ppbv  
RT: 1.602 min Scan# 468  
Delta R.T. -0.010 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 39 Resp: 2451  
Ion Ratio Lower Upper  
39 100  
54 10.7 59.0 88.4#

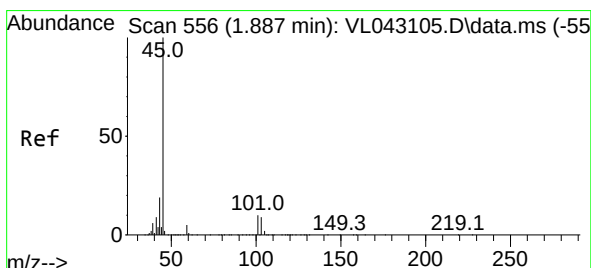
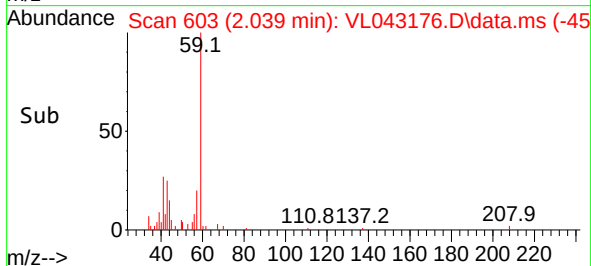
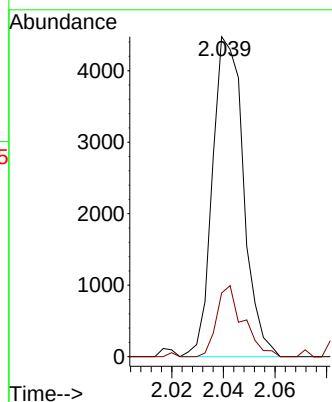
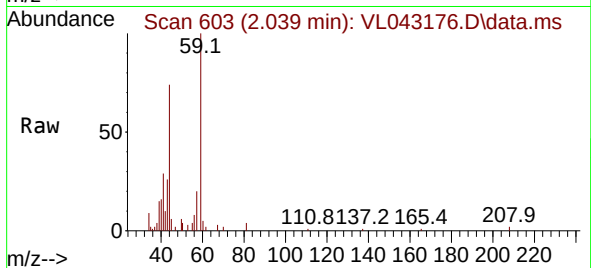




#17  
tert-Butyl alcohol  
Concen: 0.154 ppbv  
RT: 2.039 min Scan# 604  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

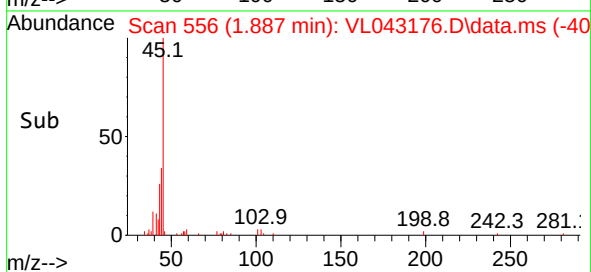
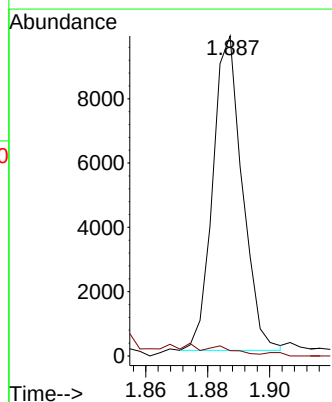
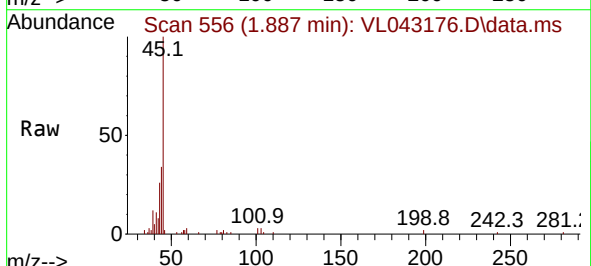
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

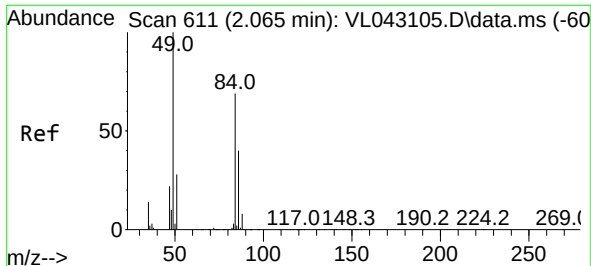
Tgt Ion: 59 Resp: 3728  
Ion Ratio Lower Upper  
59 100  
57 19.3 8.2 12.4#



#19  
Isopropyl Alcohol  
Concen: 0.592 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. -0.000 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 45 Resp: 6484  
Ion Ratio Lower Upper  
45 100  
58 525.6 31.3 46.9#

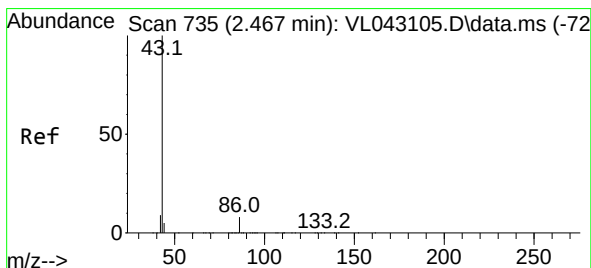
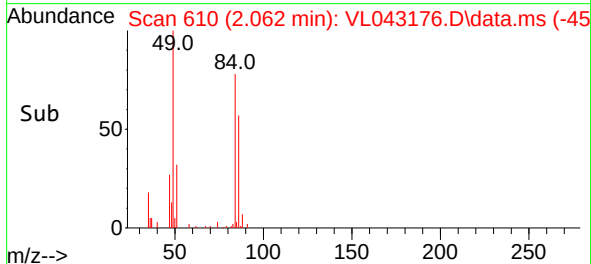
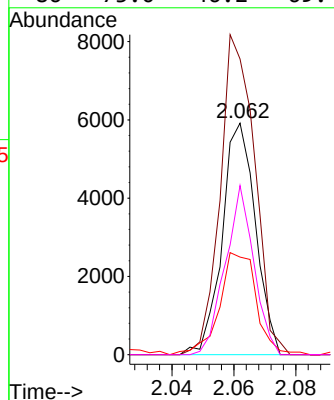
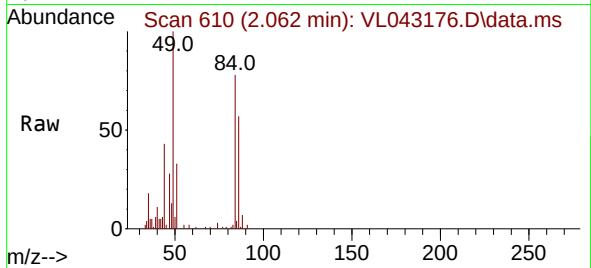




#20  
Methylene Chloride  
Concen: 0.637 ppbv  
RT: 2.062 min Scan# 611  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

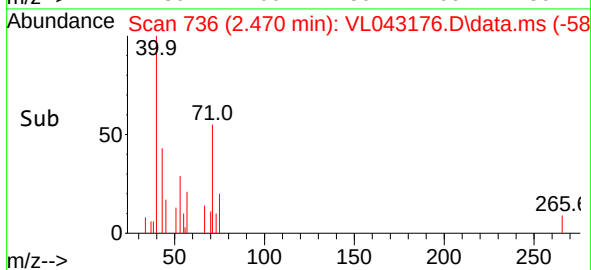
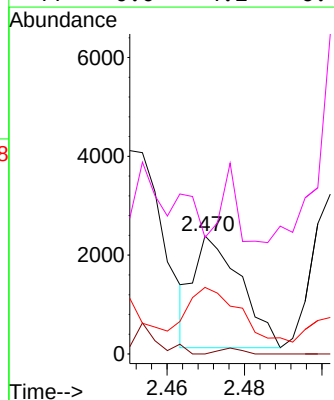
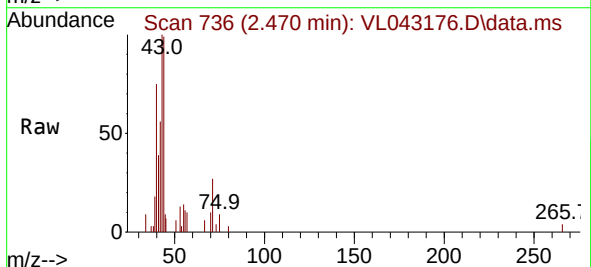
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

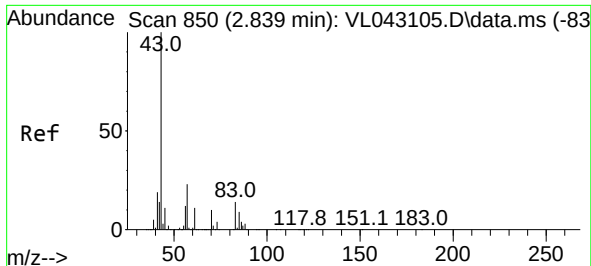
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 4427  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 127.7 | 116.6 | 175.0 |
| 51       | 40.8  | 34.8  | 52.2  |
| 86       | 73.0  | 46.2  | 69.4# |



#23  
Vinyl Acetate  
Concen: 0.073 ppbv  
RT: 2.470 min Scan# 736  
Delta R.T. 0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1891  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 6.2   | 9.2#  |
| 42       | 45.1  | 7.6   | 11.4# |
| 44       | 0.0   | 4.2   | 6.4#  |





#25

Ethyl Acetate

Concen: 0.132 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.013 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

Instrument :

MSVOA\_1

ClientSampleId :

131-SG-2

Tgt Ion: 43 Resp: 5755

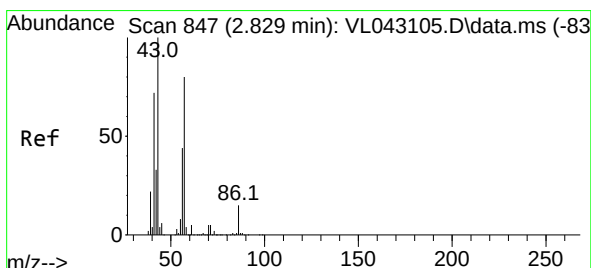
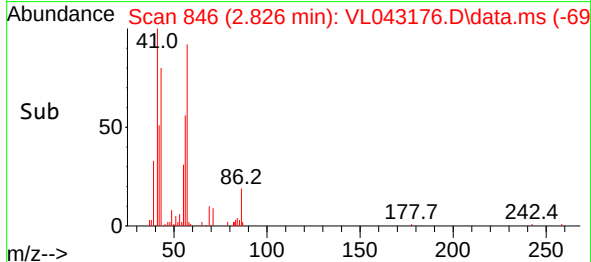
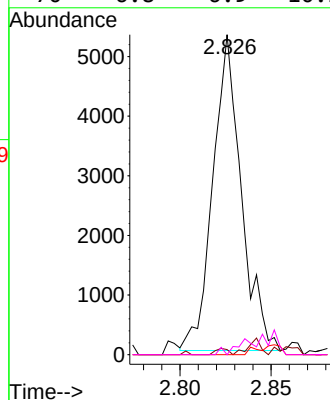
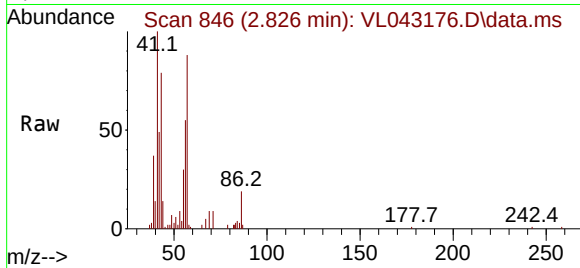
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.8#

61 2.5 7.0 10.6#

70 6.8 6.9 10.3#



#26

Hexane

Concen: 0.349 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.003 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

Tgt Ion: 57 Resp: 7014

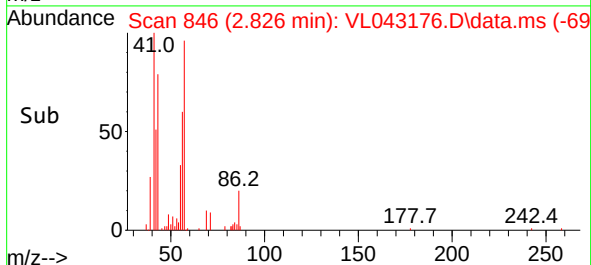
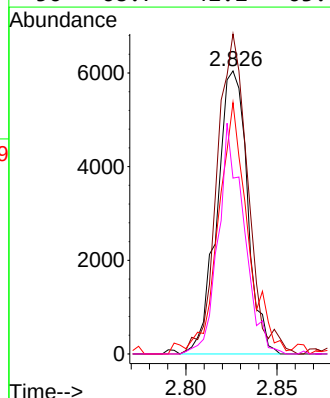
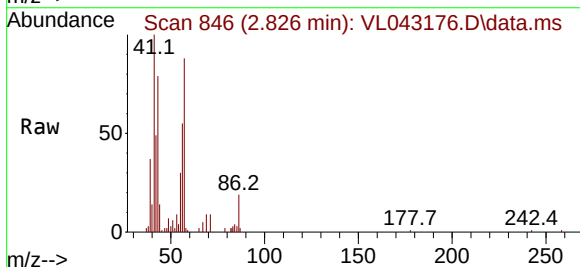
Ion Ratio Lower Upper

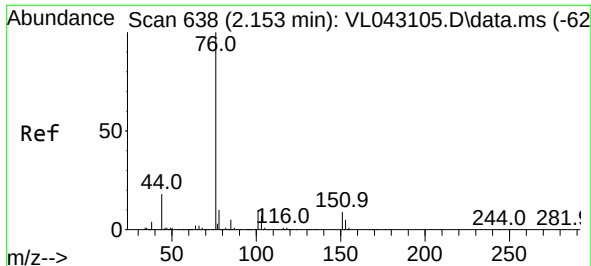
57 100

41 114.7 71.4 107.0#

43 88.2 178.5 267.7#

56 68.7 42.2 63.4#

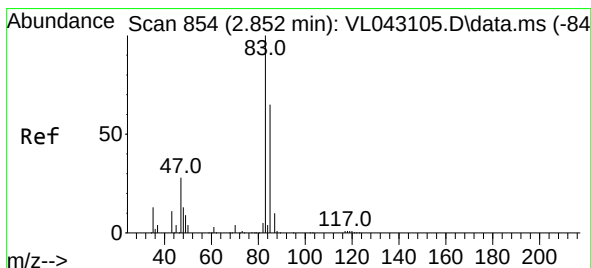
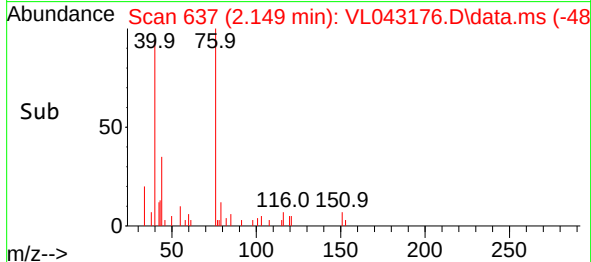
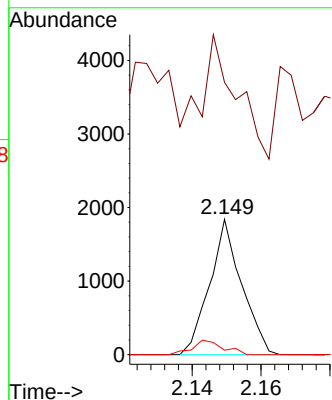
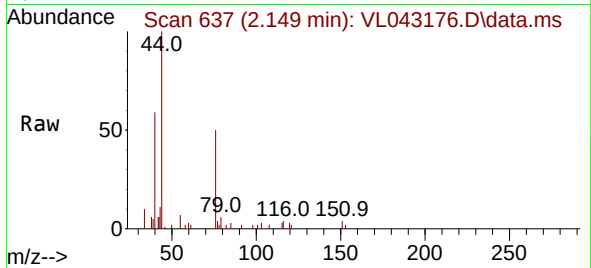




#27  
Carbon Disulfide  
Concen: 0.065 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

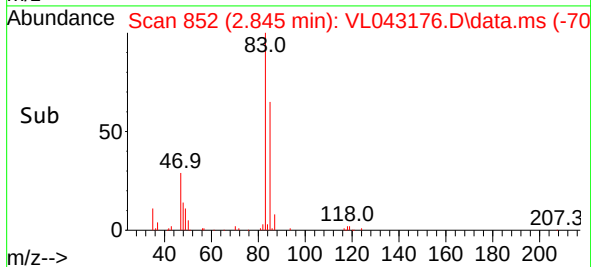
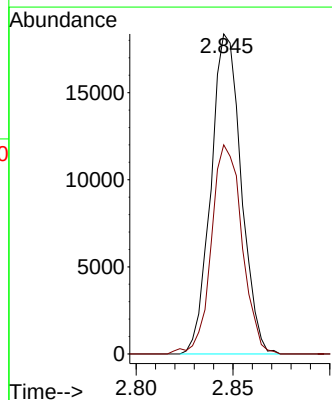
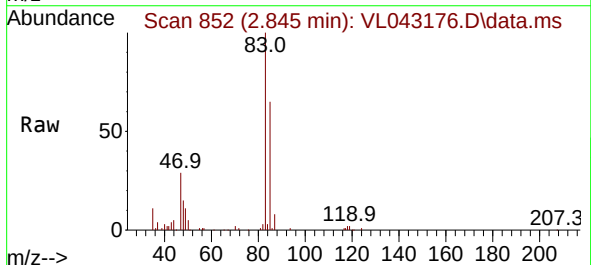
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

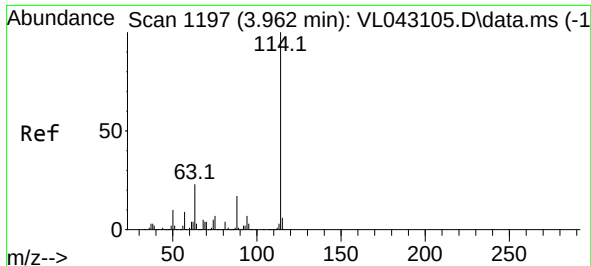
Tgt Ion: 76 Resp: 1193  
Ion Ratio Lower Upper  
76 100  
44 383.9 16.7 25.1#  
78 10.1 9.3 13.9



#29  
Chloroform  
Concen: 0.686 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 83 Resp: 19971  
Ion Ratio Lower Upper  
83 100  
85 65.4 51.8 77.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.007 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

Instrument :

MSVOA\_1

ClientSampleId :

131-SG-2

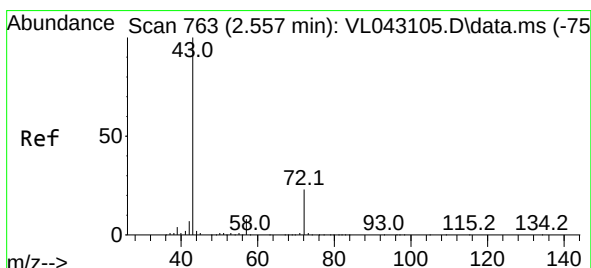
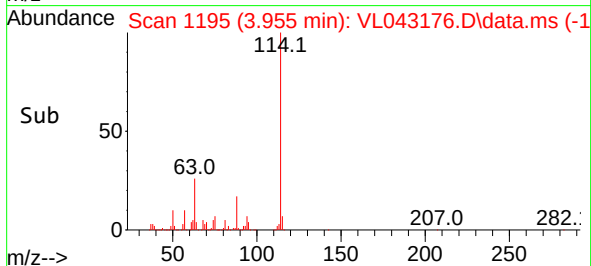
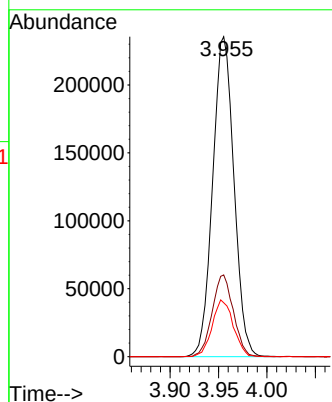
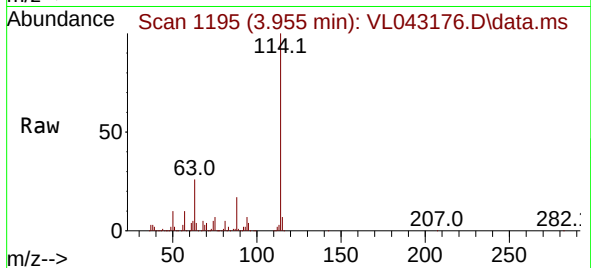
Tgt Ion:114 Resp: 360019

Ion Ratio Lower Upper

114 100

63 25.6 19.3 28.9

88 17.6 13.9 20.9



#34

2-Butanone

Concen: 0.822 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.000 min

Lab File: VL043176.D

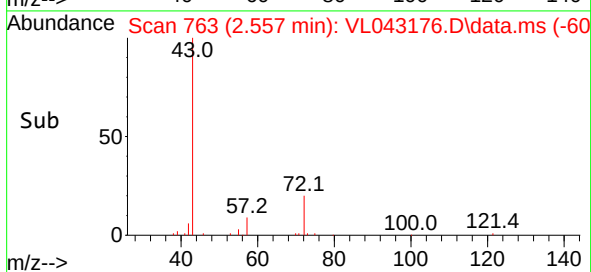
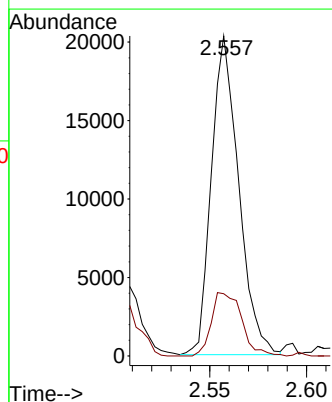
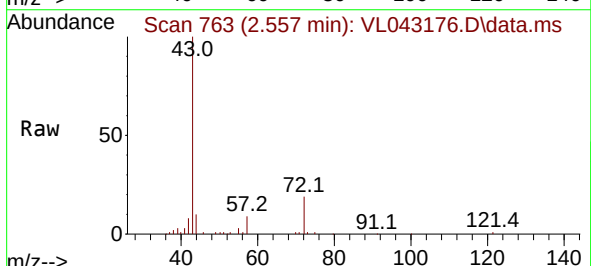
Acq: 06 Nov 2025 20:03

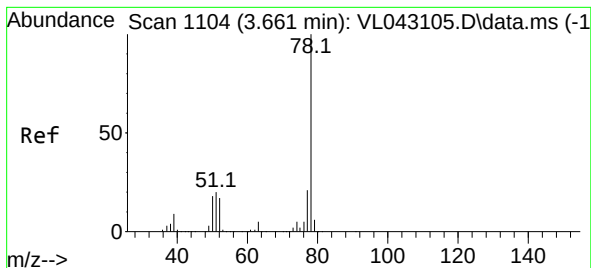
Tgt Ion: 43 Resp: 19902

Ion Ratio Lower Upper

43 100

72 22.4 18.4 27.6





#36

Benzene

Concen: 1.536 ppbv

RT: 3.654 min Scan# 1104

Delta R.T. -0.007 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

Instrument :

MSVOA\_1

ClientSampleId :

131-SG-2

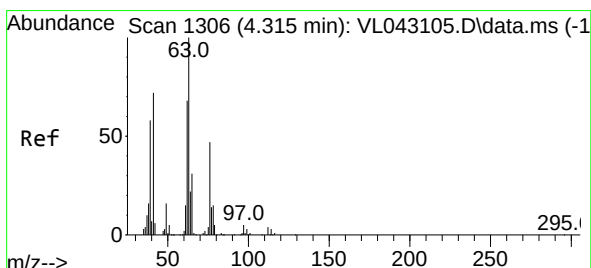
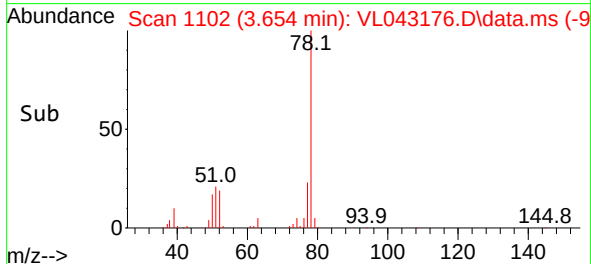
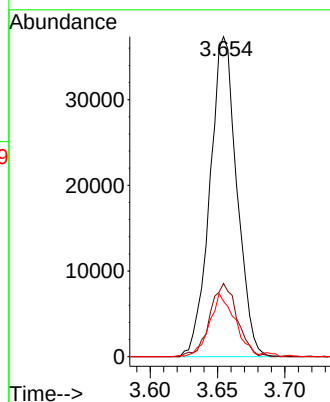
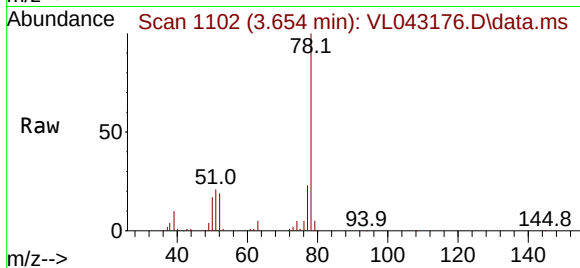
Tgt Ion: 78 Resp: 52069

Ion Ratio Lower Upper

78 100

77 22.9 17.0 25.6

50 17.0 14.6 22.0



#39

1,2-Dichloropropane

Concen: 7.323 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.359 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

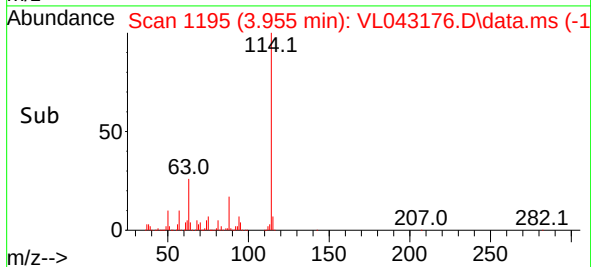
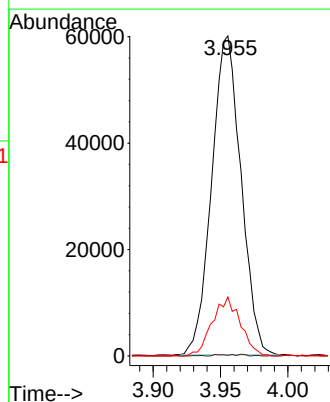
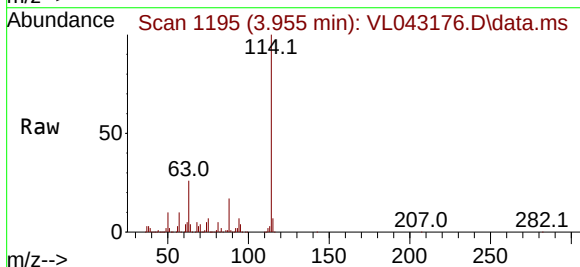
Tgt Ion: 63 Resp: 90779

Ion Ratio Lower Upper

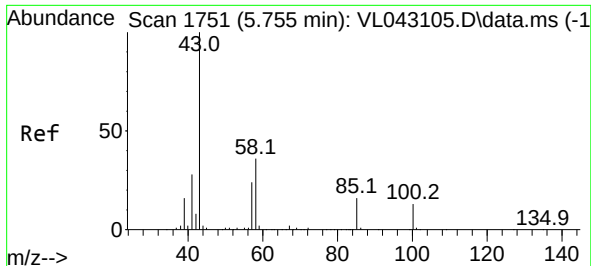
63 100

41 0.2 58.0 87.0#

62 18.5 54.7 82.1#



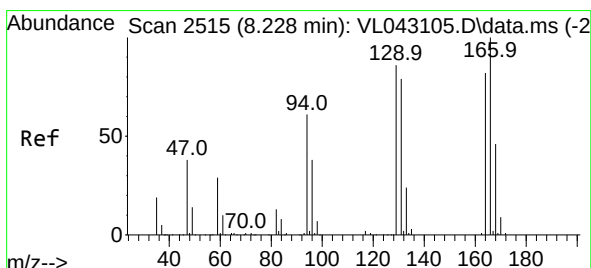
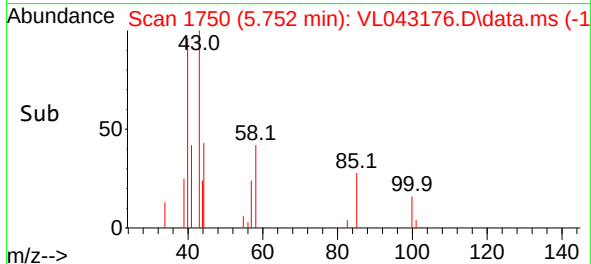
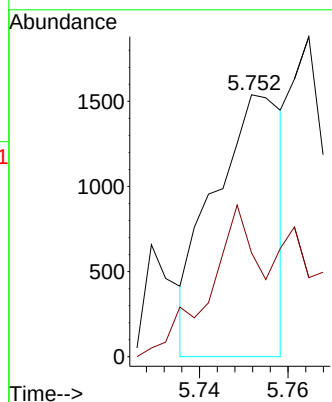
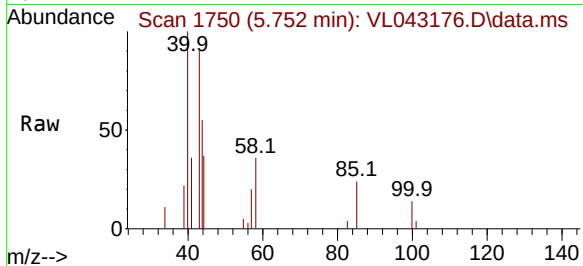




#50  
4-Methyl-2-Pentanone  
Concen: 0.049 ppbv  
RT: 5.752 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

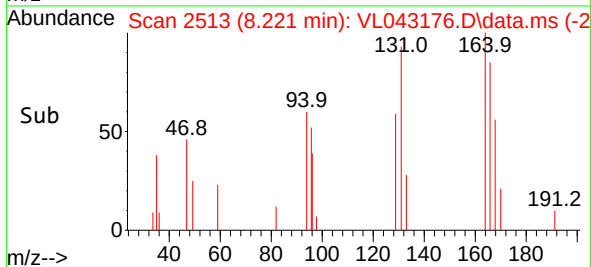
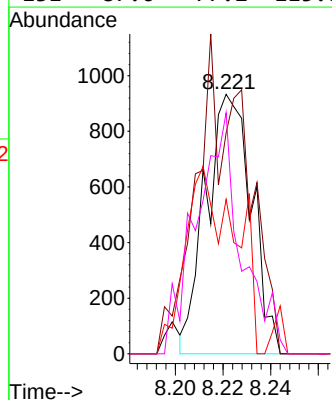
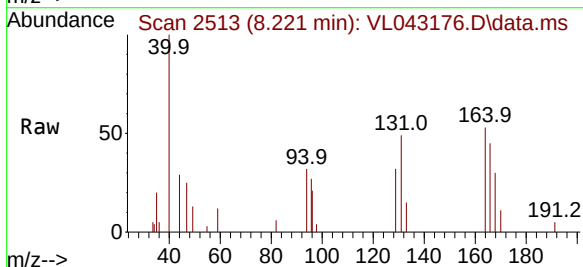
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

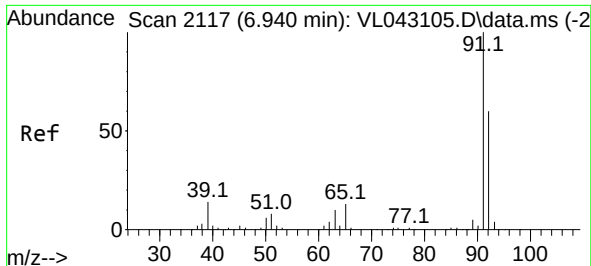
Tgt Ion: 43 Resp: 1643  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.1 43.7#



#52  
Tetrachloroethene  
Concen: 0.102 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.007 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 164 Resp: 1247  
Ion Ratio Lower Upper  
164 100  
166 85.1 97.6 146.4#  
129 41.1 84.5 126.7#  
131 87.6 77.2 115.8

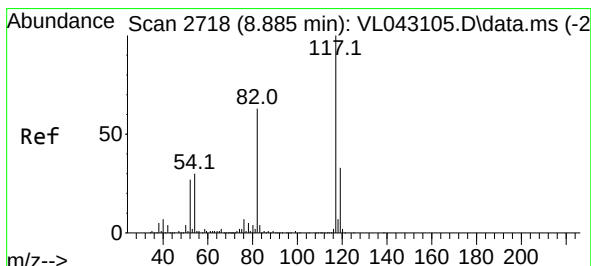
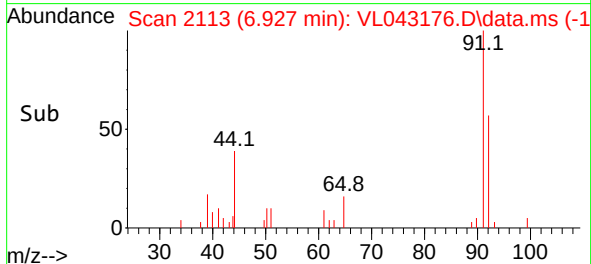
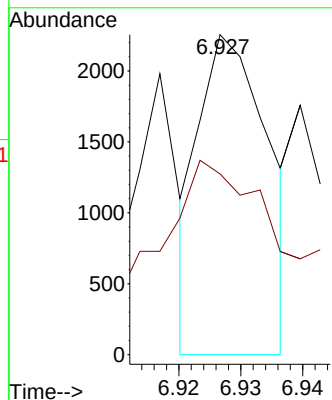
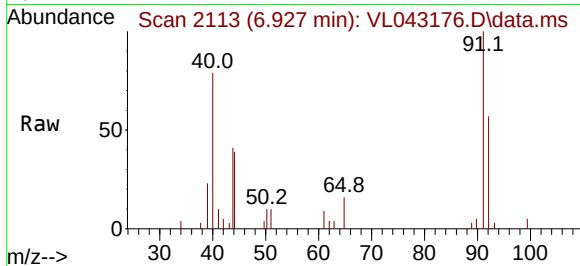




#53  
Toluene  
Concen: 0.043 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.013 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

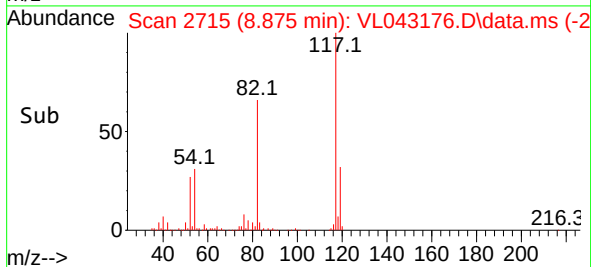
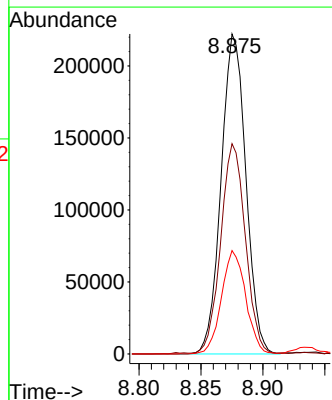
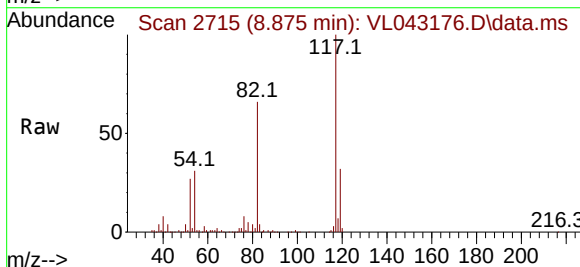
Instrument :  
MSVOA\_1  
ClientSampleId :  
131-SG-2

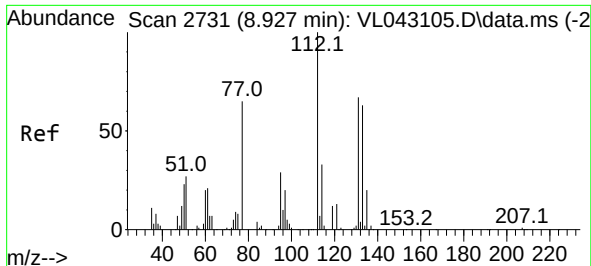
Tgt Ion: 91 Resp: 1746  
Ion Ratio Lower Upper  
91 100  
92 143.3 48.8 73.2#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. -0.010 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Tgt Ion: 117 Resp: 309583  
Ion Ratio Lower Upper  
117 100  
82 65.9 53.8 80.8  
119 31.7 25.4 38.0

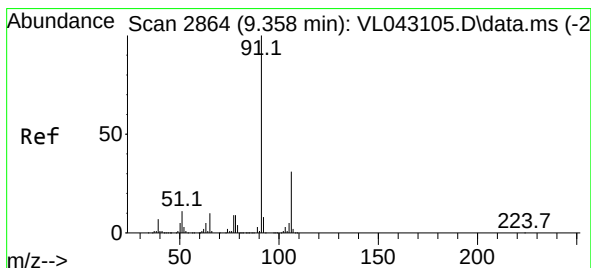
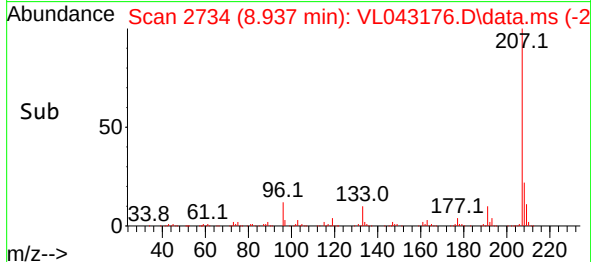
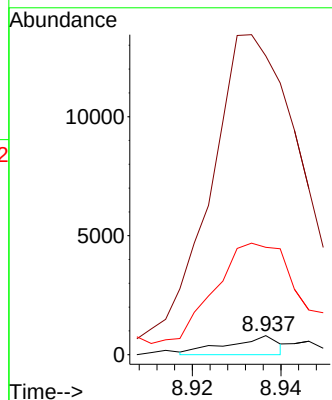
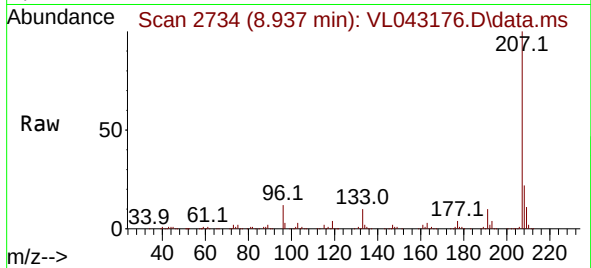




#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 0.032 ppbv  
 RT: 8.937 min Scan# 21  
 Delta R.T. 0.010 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

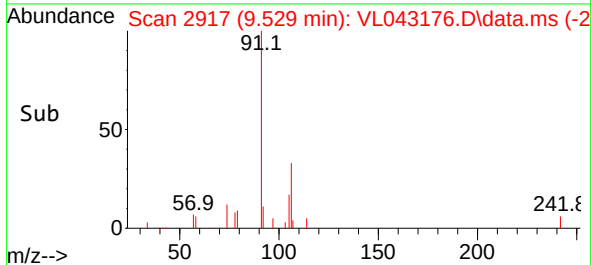
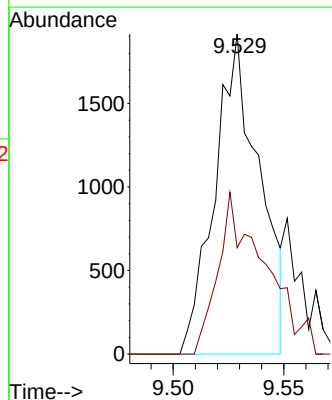
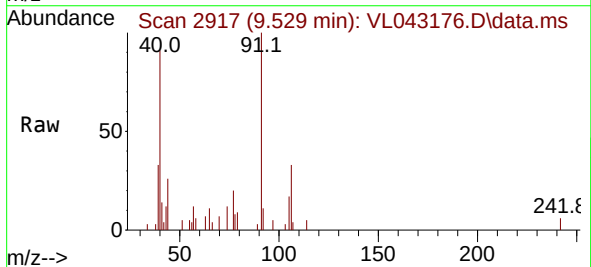
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 131-SG-2

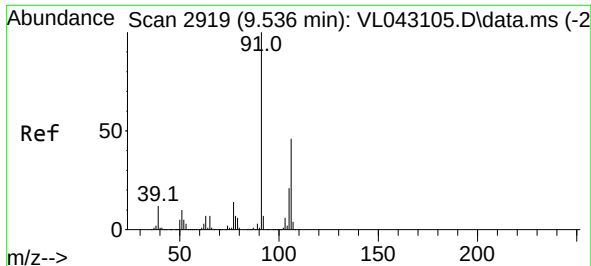
Tgt Ion:131 Resp: 631  
 Ion Ratio Lower Upper  
 131 100  
 133 3271.2 75.7 113.5#  
 119 1100.6 50.6 76.0#



#58  
 Ethyl Benzene  
 Concen: 0.050 ppbv  
 RT: 9.529 min Scan# 2917  
 Delta R.T. 0.171 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

Tgt Ion: 91 Resp: 2679  
 Ion Ratio Lower Upper  
 91 100  
 106 33.2 24.8 37.2





#59

m/p-Xylene

Concen: 0.063 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.007 min

Lab File: VL043176.D

Acq: 06 Nov 2025 20:03

Instrument :

MSVOA\_1

ClientSampleId :

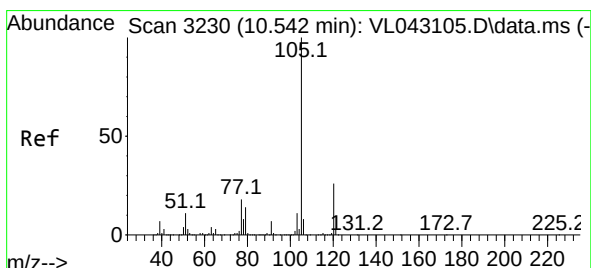
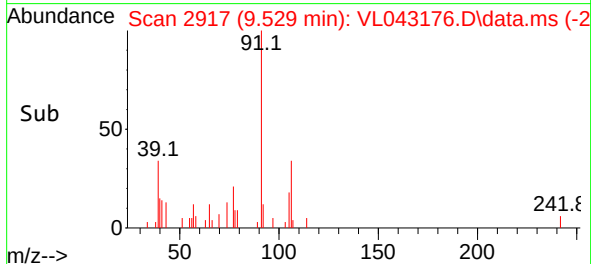
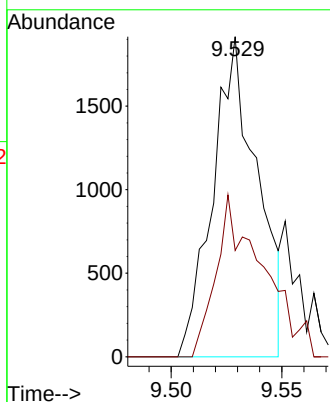
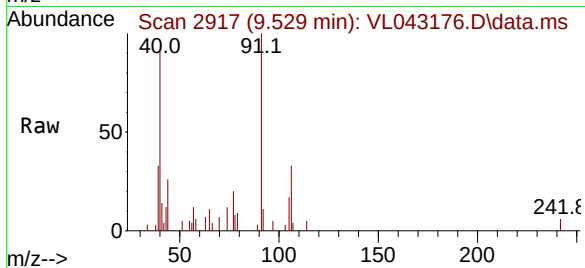
131-SG-2

Tgt Ion: 91 Resp: 2679

Ion Ratio Lower Upper

91 100

106 53.3 38.0 57.0



#62

Isopropylbenzene

Concen: 0.467 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.007 min

Lab File: VL043176.D

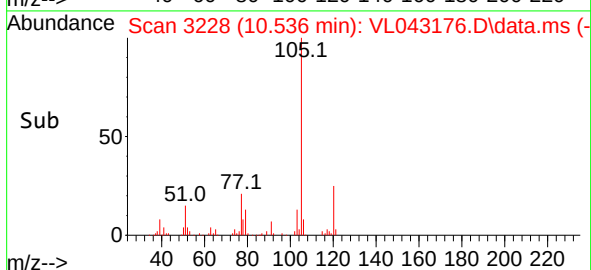
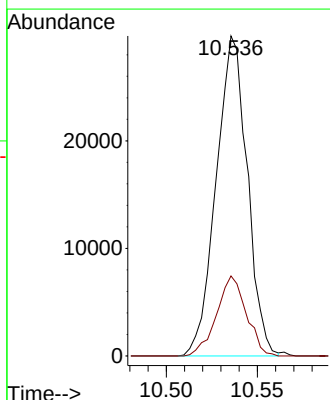
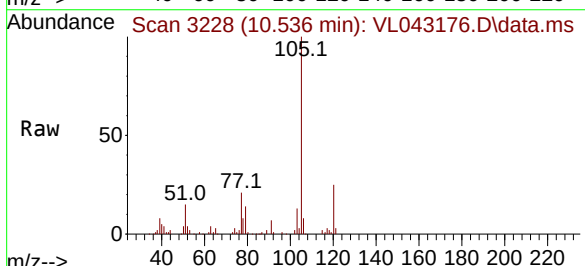
Acq: 06 Nov 2025 20:03

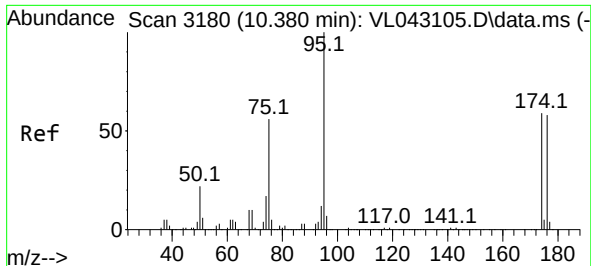
Tgt Ion: 105 Resp: 35300

Ion Ratio Lower Upper

105 100

120 23.9 20.2 30.4

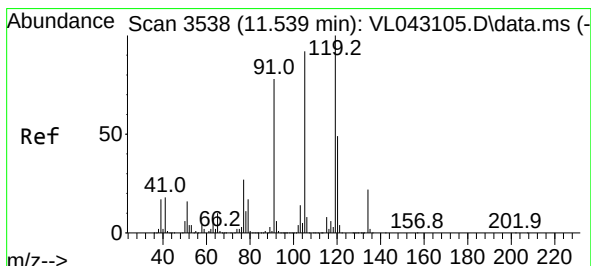
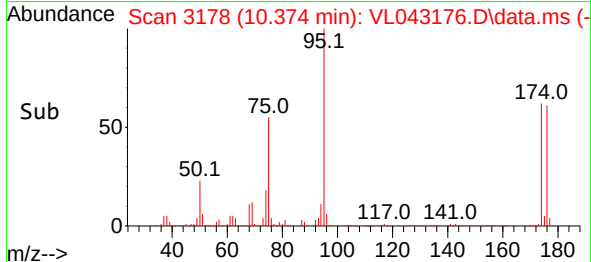
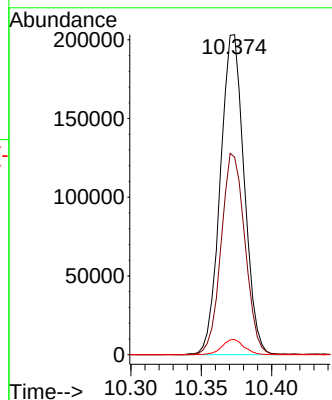
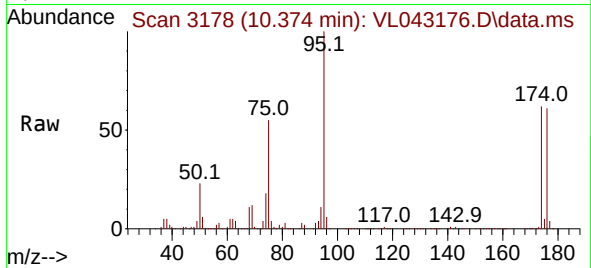




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.976 ppbv  
 RT: 10.374 min Scan# 3180  
 Delta R.T. -0.007 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

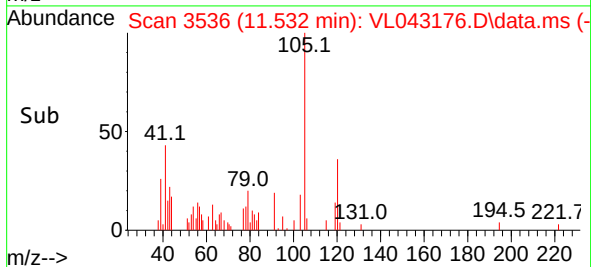
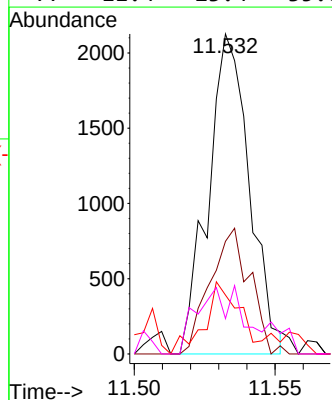
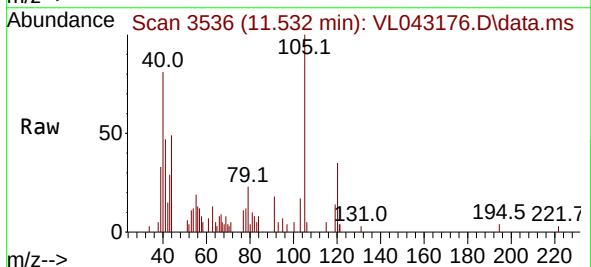
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 131-SG-2

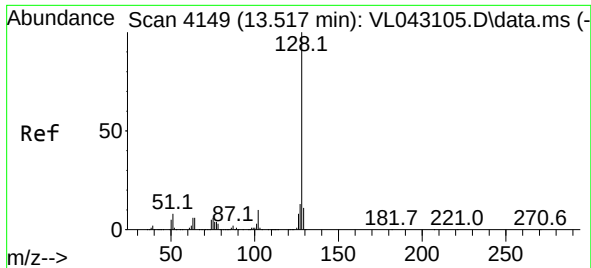
Tgt Ion: 95 Resp: 240054  
 Ion Ratio Lower Upper  
 95 100  
 174 62.9 48.3 72.5  
 175 4.4 3.8 5.8



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.046 ppbv  
 RT: 11.532 min Scan# 3536  
 Delta R.T. -0.007 min  
 Lab File: VL043176.D  
 Acq: 06 Nov 2025 20:03

Tgt Ion: 105 Resp: 2166  
 Ion Ratio Lower Upper  
 105 100  
 120 36.2 42.8 64.2#  
 91 15.2 68.3 102.5#  
 77 11.4 23.4 35.0#





#79  
Naphthalene  
Concen: 0.032 ppbv  
RT: 13.513 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL043176.D  
Acq: 06 Nov 2025 20:03

Instrument :  
MSVOA\_L  
ClientSampleId :  
131-SG-2

Tgt Ion:128 Resp: 1582  
Ion Ratio Lower Upper  
128 100  
127 155.6 10.5 15.7#  
129 21.6 9.1 13.7#

