

## Cover Page

**Order ID :** Q1908

**Project ID :** 32 Park St Orange NJ

**Client :** RMJ Environomics, Inc.

**Lab Sample Number**

Q1908-01  
Q1908-02  
Q1908-03

**Client Sample Number**

B-1  
B-2  
B-3

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

Signature : \_\_\_\_\_

Date: 5/9/2025



# SHIPPING DOCUMENTS

|                                                                                                                                                                                            |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|-------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------|----------------------------------|-------------|-------|---------------------|--|--|--------------------|----------|--|--|
| Client Contact Information                                                                                                                                                                 |                |                          |                         | Bottle Order ID : <b>B2504043</b>         |                                    |                            |                           | Courier :                                                              |                                   |                                                                                                                                                              |        | <u>3</u> of <u>3</u> COCs      |                                  |             |       |                     |  |  |                    |          |  |  |
| Client ID : <b>RMJE02</b> Project ID : <b>NJ Cleanup</b>                                                                                                                                   |                |                          |                         | Sampler Name(s) :                         |                                    |                            |                           | Analysis                                                               |                                   |                                                                                                                                                              |        | Matrix                         |                                  |             |       |                     |  |  |                    |          |  |  |
| Customer Name : <b>RMJ Environomics, Inc.</b><br><br>Address : <b>190 Parish Drive</b><br><br>City : <b>Wayne</b><br><br>State : <b>NJ</b><br><br>Zip Code : <b>07470</b><br><br>Country : |                |                          |                         | Project Manager : <b>Jonathan pereira</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|                                                                                                                                                                                            |                |                          |                         | Phone Number : <b>973-633-0020</b>        |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|                                                                                                                                                                                            |                |                          |                         | Fax Number : <b>9736330019</b>            |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|                                                                                                                                                                                            |                |                          |                         | Site Details:                             |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|                                                                                                                                                                                            |                |                          |                         | Analysis Turnaround Time                  |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Standard : <b>10 business days</b> <b>OR</b>                                                                                                                                               |                |                          |                         | Data Package Type :                       |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Rush (Specify): _____ Days                                                                                                                                                                 |                |                          |                         | 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/Ambinet Air | Soil Gas |  |  |
| B-3                                                                                                                                                                                        | 4/28           | 1340                     | 1355                    | -30                                       | -5                                 | 60°F                       | 61°F                      | -30                                                                    | -5.1                              | 10615                                                                                                                                                        | 10297  | 6 L                            | 400                              | VL042399.D  |       |                     |  |  |                    |          |  |  |
| Temperature (Fahrenheit)                                                                                                                                                                   |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   | GC/MS Analyst Signature (TO-15) <span style="float: right; border: 1px solid black; padding: 5px;"></span>                                                   |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|                                                                                                                                                                                            |                | Ambient                  |                         | Maximum                                   |                                    | Minimum                    |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Start                                                                                                                                                                                      |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Stop                                                                                                                                                                                       |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Pressure (Inches of Hg)                                                                                                                                                                    |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   | ** Submittal of this COC indicates approval of the analysis based on existing conditions.<br><br><br>Please follow the instructions on the back of this COC. |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
|                                                                                                                                                                                            |                | Ambient                  |                         | Maximum                                   |                                    | Minimum                    |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Start                                                                                                                                                                                      |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Stop                                                                                                                                                                                       |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Special Instructions/QC Requirements & Comments :                                                                                                                                          |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Suspected Contamination:      High      Medium      Low      PID Readings:                                                                                                                 |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Sampling site (State):                                                                                                                                                                     |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Quick Connector required : <u>NO</u>                                                                                                                                                       |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |                                                                                                                                                              |        |                                |                                  |             |       |                     |  |  |                    |          |  |  |
| Canisters Shipped by: <u>Sam</u>                                                                                                                                                           |                |                          |                         | Date/Time: <u>4/28/25</u>                 |                                    |                            |                           | Canisters Received by: <u>[Signature]</u>                              |                                   |                                                                                                                                                              |        | Date/Time: <u>4/28/25 1430</u> |                                  |             |       | <b>B2504043 - 1</b> |  |  |                    |          |  |  |
| Samples Relinquished by:                                                                                                                                                                   |                |                          |                         | Date/Time:                                |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |        | Date/Time:                     |                                  |             |       |                     |  |  |                    |          |  |  |
| Relinquished by:                                                                                                                                                                           |                |                          |                         | Date/Time:                                |                                    |                            |                           | Received by:                                                           |                                   |                                                                                                                                                              |        | Date/Time:                     |                                  |             |       |                     |  |  |                    |          |  |  |

|                                                                                                                                                                                                                                                                                            |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|-------------------------------------------|------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------|-----------------------------------|--------------|---------|--------------------------------|----------------------------------|-------------|-------|---------------------|--|------|--|--------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Client Contact Information                                                                                                                                                                                                                                                                 |                |                          |                         | Bottle Order ID : <b>B2504043</b>         |                                    |                            |                           | Courier :                                                              |                                   |              |         | 2 of 3 COCs                    |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Client ID : <b>RMJE02</b> Project ID : <b>NJ Cleanup</b>                                                                                                                                                                                                                                   |                |                          |                         | Sampler Name(s) :                         |                                    |                            |                           | Analysis                                                               |                                   |              |         | Matrix                         |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Customer Name : <b>RMJ Environomics, Inc.</b><br>Address : <b>190 Parish Drive</b><br>City : <b>Wayne</b><br>State : <b>NJ</b><br>Zip Code : <b>07470</b><br>Country :                                                                                                                     |                |                          |                         | Project Manager : <b>Jonathan pereira</b> |                                    |                            |                           | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            |                |                          |                         | Phone Number : <b>973-633-0020</b>        |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            |                |                          |                         | Fax Number : <b>9736330019</b>            |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            |                |                          |                         | Site Details:                             |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Analysis Turnaround Time                                                                                                                                                                                                                                                                   |                |                          |                         | Data Package Type :                       |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Standard : <b>10 business days</b> OR                                                                                                                                                                                                                                                      |                |                          |                         | EDD Type :                                |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| 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 |                     |  |      |  | Indoor/Ambinet Air | Soil Gas |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| B-2                                                                                                                                                                                                                                                                                        | 4/28           | 1335                     | 1350                    | -30                                       | -7                                 | 61°F                       | 62°F                      | -30                                                                    | -5.5                              | 10533        | 10595   | 6 L                            | 400                              | VL042330.D  |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Temperature (Fahrenheit) <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 |  |                    |          | GC/MS Analyst Signature (TO-15) <span style="float: right; border: 1px solid black; padding: 2px;">Sut</span>                                            |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            | Ambient        | Maximum                  | Minimum                 |                                           |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                      |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                       |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Pressure (Inches of Hg) <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 |  |                    |          | ** 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                  | Minimum                 |                                           |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                      |                |                          |                         |                                           |                                    |                            |                           |                                                                        |                                   |              |         |                                |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| 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>04/28/25</b>                |                                    |                            |                           | Canisters Received by: <b>[Signature]</b>                              |                                   |              |         | Date/Time: <b>4/28/25 1430</b> |                                  |             |       | <b>B2504043 - 2</b> |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Samples Relinquished by:                                                                                                                                                                                                                                                                   |                |                          |                         | Date/Time:                                |                                    |                            |                           | Received by:                                                           |                                   |              |         | Date/Time:                     |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                           |                |                          |                         | Date/Time:                                |                                    |                            |                           | Received by:                                                           |                                   |              |         | Date/Time:                     |                                  |             |       |                     |  |      |  |                    |          |                                                                                                                                                          |  |  |  |  |  |  |  |  |  |



|                                                                                                                                                                                                                                                                                            |                |                          |                         |                                   |                                    |                                           |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|-----------------------------------|------------------------------------|-------------------------------------------|---------------------------|-----------------------------------|-----------------------------------|------------------------------------------------------------------------|---------|--------------------------------|----------------------------------|-------------|-------|--------------------|----------|------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| Client Contact Information                                                                                                                                                                                                                                                                 |                |                          |                         |                                   |                                    | Bottle Order ID : <b>B2504043</b>         |                           |                                   |                                   | Courier :                                                              |         |                                |                                  | 1 of 3 COCs |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Client ID : <b>RMJE02</b> Project ID : <b>NJ Cleanup</b>                                                                                                                                                                                                                                   |                |                          |                         |                                   |                                    | Sampler Name(s) :                         |                           |                                   |                                   | Analysis                                                               |         |                                |                                  | Matrix      |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Customer Name : <b>RMJ Environomics, Inc.</b><br>Address : <b>190 Parish Drive</b><br>City : <b>Wayne</b><br>State : <b>NJ</b><br>Zip Code : <b>07470</b><br>Country :                                                                                                                     |                |                          |                         |                                   |                                    | Project Manager : <b>Jonathan pereira</b> |                           |                                   |                                   | <b>AIR ANALYSIS<br/>CHAIN-OF-CUSTODY</b><br><br><b>Batch Certified</b> |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            |                |                          |                         |                                   |                                    | Phone Number : <b>973-633-0020</b>        |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            |                |                          |                         |                                   |                                    | Fax Number : <b>9736330019</b>            |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            |                |                          |                         |                                   |                                    | Site Details:                             |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Analysis Turnaround Time                                                                                                                                                                                                                                                                   |                |                          |                         |                                   |                                    | Data Package Type :                       |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Standard : <b>10 business days</b> OR                                                                                                                                                                                                                                                      |                |                          |                         |                                   |                                    | EDD Type :                                |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| 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 | Indoor/Ambient Air | Soil Gas |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| B-1                                                                                                                                                                                                                                                                                        | 4/28           | 1330                     | 1345                    | -30                               | -6                                 | 62°F                                      | 64°F                      | -30                               | -6.3                              | 10701                                                                  | 10598   | 6 L                            | 400                              | VL042399.D  |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Temperature (Fahrenheit) <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 |  |  |  | GC/MS Analyst Signature (TO-15) <span style="float: right;"></span>                                                                                      |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                            | Ambient        | Maximum                  | Minimum                 |                                   |                                    |                                           |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                      |                |                          |                         |                                   |                                    |                                           |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                       |                |                          |                         |                                   |                                    |                                           |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Pressure (Inches of Hg) <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 |  |  |  | ** 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                  | Minimum                 |                                   |                                    |                                           |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                      |                |                          |                         |                                   |                                    |                                           |                           |                                   |                                   |                                                                        |         |                                |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| 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>04/28/25</b>        |                                    |                                           |                           | Canisters Received by: <b>CAU</b> |                                   |                                                                        |         | Date/Time: <b>4/28/25 1430</b> |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Samples Relinquished by:                                                                                                                                                                                                                                                                   |                |                          |                         | Date/Time:                        |                                    |                                           |                           | Received by:                      |                                   |                                                                        |         | Date/Time:                     |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                           |                |                          |                         | Date/Time:                        |                                    |                                           |                           | Received by:                      |                                   |                                                                        |         | Date/Time:                     |                                  |             |       |                    |          |      |  |  |  |                                                                                                                                                          |  |  |  |  |  |  |  |

### Laboratory Certification

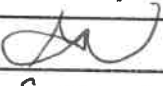
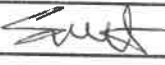
| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

## 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: <u>Chemtech</u>                                                                   |  | Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u> |                                            |
| <del>GORE</del><br>Field Sample Seal No.: <u>Q1908</u>                                        |  | Title: <u>Sample Custodian</u>                               |                                            |
| Case No.: <u>32 Park St Orange NJ</u>                                                         |  | Date Broken <u>4/29/2025</u>                                 | Military Time Seal Broken: <u>14:30:00</u> |
| Analytical Parameter/Fraction <u>TO-15</u>                                                    |  |                                                              |                                            |

| Sample No. | Aliquot/Extract No. | Sample No. | Aliquot/Extract No. |
|------------|---------------------|------------|---------------------|
| Q1908-01   | B-1                 |            |                     |
| Q1908-02   | B-2                 |            |                     |
| Q1908-03   | B-3                 |            |                     |
|            |                     |            |                     |

| Date | Time | Relinquished By                                                                             | Received By                                                                                 | Purpose of Change of Custody |
|------|------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------|
| 4/29 | 1045 | Signature  | Signature  |                              |
|      |      | Printed Name <u>GORGE N.</u>                                                                | Printed Name <u>Sam S. G. G. G.</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

Analyst Signature: [Signature]

**Supervisor Signature:**

**METHOD: TO-15**

Pressure Gauge ID: A755971

Document Control # A3041228

**CHEMTECH**

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

Client Sample ID #: B-2

Client Name: RMJE02

Project Name: \_\_\_\_\_

Date: 4-28-25 Time: 1350

Analysis: \_\_\_\_\_

Comments: \_\_\_\_\_

Storage Location: L51

Sample: Q1908-02

Cust #: B-2

CHEMTECH'S SAMPLE

Date Received: \_\_\_\_\_

**CHEMTECH**

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

Client Sample ID #: B-1

Client Name: RMJE02

Project Name: \_\_\_\_\_

Date: 4-28-25 Time: 1345

Analysis: \_\_\_\_\_

Comments: \_\_\_\_\_

Storage Location: L51

Sample: Q1908-01

Cust #: B-1

CHEMTECH'S SAMPLE

Date Received: \_\_\_\_\_

**CHEMTECH**

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

Client Sample ID #: B-3

Client Name: RMJE02

Project Name: \_\_\_\_\_

Date: 4-28-25

Analysis: \_\_\_\_\_

Comments: \_\_\_\_\_

CHEMTECH'S SAMPLE

Date Received: \_\_\_\_\_

Storage Location: L51  
Sample: Q1908-03  
Cust #: B-3



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

## **CASE NARRATIVE**

**RMJ Environomics, Inc.**

**Project Name: 32 Park St Orange NJ**

**Project # N/A**

**Order ID # Q1908**

**Test Name: TO-15**

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

3 Air samples were received on 04/28/2025.

### **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 met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

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

The not QT review data is reported in the Miscellaneous.

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

The Manual Integrations are performed for the followings.

| Manual Integration Report |          |            |         |
|---------------------------|----------|------------|---------|
| Sequence                  | vl041725 | Instrument | MSVOA_I |

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

|             |            |                         |     |                      |          |                       |                                         |
|-------------|------------|-------------------------|-----|----------------------|----------|-----------------------|-----------------------------------------|
| VSTDICCC010 | VL042349.D | m/p-Xylene              | SAM | 4/18/2025 4:19:07 PM | MMDadoda | 4/18/2025 10:45:20 PM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042350.D | 1,4-Dioxane             | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042350.D | cis-1,3-Dichloropropene | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042350.D | Ethanol                 | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042350.D | Heptane                 | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042350.D | m/p-Xylene              | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042350.D | Trichloroethene         | SAM | 4/18/2025 4:19:12 PM | MMDadoda | 4/18/2025 10:45:17 PM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042351.D | 1,1,2-Trichloroethane   | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042351.D | 1,3-Butadiene           | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042351.D | 1,4-Dioxane             | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042351.D | 2,2,4-Trimethylpentane  | SAM | 4/18/2025 4:19:17 PM | MMDadoda | 4/18/2025 10:45:15 PM | Peak Integrated by Software incorrectly |

|           |            |                         |     |                         |          |                          |                                         |
|-----------|------------|-------------------------|-----|-------------------------|----------|--------------------------|-----------------------------------------|
| VSTDIC001 | VL042351.D | cis-1,3-Dichloropropene | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC001 | VL042351.D | Cyclohexane             | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC001 | VL042351.D | Ethanol                 | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC001 | VL042351.D | Heptane                 | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC001 | VL042351.D | m/p-Xylene              | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC001 | VL042351.D | Methyl Methacrylate     | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC001 | VL042351.D | t-1,3-Dichloropropene   | SAM | 4/18/2025<br>4:19:17 PM | MMDadoda | 4/18/2025<br>10:45:15 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | 1,1,2-Trichloroethane   | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | 1,2-Dichloropropane     | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | 1,4-Dioxane             | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | 4-Methyl-2-Pentanone    | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | Chlorobenzene           | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | cis-1,3-Dichloropropene | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDIC0.5 | VL042352.D | Ethanol                 | SAM | 4/18/2025<br>4:20:33    | MMDadoda | 4/18/2025<br>10:45:07    | Peak Integrated                         |



|             |            |                           |     |                         |          |                          |                                         |
|-------------|------------|---------------------------|-----|-------------------------|----------|--------------------------|-----------------------------------------|
|             |            |                           |     | PM                      |          | PM                       | by Software incorrectly                 |
| VSTDICC0.5  | VL042352.D | Heptane                   | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5  | VL042352.D | m/p-Xylene                | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5  | VL042352.D | Methyl Methacrylate       | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5  | VL042352.D | t-1,3-Dichloropropene     | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.5  | VL042352.D | Tetrahydrofuran           | SAM | 4/18/2025<br>4:20:33 PM | MMDadoda | 4/18/2025<br>10:45:07 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL042353.D | 1,1,1-Trichloroethane     | SAM | 4/18/2025<br>4:20:37 PM | MMDadoda | 4/18/2025<br>10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL042353.D | 1,1,2,2-Tetrachloroethane | SAM | 4/18/2025<br>4:20:37 PM | MMDadoda | 4/18/2025<br>10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL042353.D | 1,2-Dibromoethane         | SAM | 4/18/2025<br>4:20:37 PM | MMDadoda | 4/18/2025<br>10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL042353.D | Tetrachloroethene         | SAM | 4/18/2025<br>4:20:37 PM | MMDadoda | 4/18/2025<br>10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.1  | VL042353.D | Trichloroethene           | SAM | 4/18/2025<br>4:20:37 PM | MMDadoda | 4/18/2025<br>10:45:04 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | 1,1,1-Trichloroethane     | SAM | 4/18/2025<br>4:19:24 PM | MMDadoda | 4/18/2025<br>10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | 1,1,2,2-Tetrachloroethane | SAM | 4/18/2025<br>4:19:24 PM | MMDadoda | 4/18/2025<br>10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | Carbon Tetrachloride      | SAM | 4/18/2025<br>4:19:24 PM | MMDadoda | 4/18/2025<br>10:45:02 PM | Peak Integrated by Software incorrectly |

|             |            |                   |     |                         |          |                          |                                         |
|-------------|------------|-------------------|-----|-------------------------|----------|--------------------------|-----------------------------------------|
| VSTDICC0.03 | VL042354.D | Tetrachloroethene | SAM | 4/18/2025<br>4:19:24 PM | MMDadoda | 4/18/2025<br>10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC0.03 | VL042354.D | Trichloroethene   | SAM | 4/18/2025<br>4:19:24 PM | MMDadoda | 4/18/2025<br>10:45:02 PM | Peak Integrated by Software incorrectly |
| VSTDICC015  | VL042355.D | m/p-Xylene        | SAM | 4/18/2025<br>4:21:35 PM | MMDadoda | 4/18/2025<br>10:44:59 PM | Peak Integrated by Software incorrectly |
| VSTDICV010  | VL042356.D | m/p-Xylene        | SAM | 4/18/2025<br>4:20:42 PM | MMDadoda | 4/18/2025<br>10:44:57 PM | Peak Integrated by Software incorrectly |

### Manual Integration Report

|          |          |            |         |
|----------|----------|------------|---------|
| Sequence | vl042925 | Instrument | MSVOA_I |
|----------|----------|------------|---------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

|             |            |                       |     |                         |          |                         |                                         |
|-------------|------------|-----------------------|-----|-------------------------|----------|-------------------------|-----------------------------------------|
| VSTDCCC010  | VL042436.D | 1,1,2-Trichloroethane | SAM | 4/30/2025<br>7:49:08 AM | MMDadoda | 4/30/2025<br>2:26:33 PM | Peak Integrated by Software incorrectly |
| VSTDCCC010  | VL042436.D | m/p-Xylene            | SAM | 4/30/2025<br>7:49:08 AM | MMDadoda | 4/30/2025<br>2:26:33 PM | Peak Integrated by Software incorrectly |
| VL0429ABS01 | VL042438.D | m/p-Xylene            | SAM | 4/30/2025<br>7:49:14 AM | MMDadoda | 4/30/2025<br>2:26:38 PM | Peak Integrated by Software incorrectly |
| VL0429ABS01 | VL042438.D | Methyl Methacrylate   | SAM | 4/30/2025<br>7:49:14 AM | MMDadoda | 4/30/2025<br>2:26:38 PM | Peak Integrated by Software incorrectly |
| Q1908-01    | VL042443.D | Chlorodifluoromethane | SAM | 4/30/2025<br>7:51:56 AM | MMDadoda | 4/30/2025<br>2:27:05 PM | Peak Integrated by Software incorrectly |

|             |            |                       |     |                      |          |                      |                                         |
|-------------|------------|-----------------------|-----|----------------------|----------|----------------------|-----------------------------------------|
|             |            |                       |     |                      |          |                      | y                                       |
| Q1908-01    | VL042443.D | Hexane                | SAM | 4/30/2025 7:51:56 AM | MMDadoda | 4/30/2025 2:27:05 PM | Peak Integrated by Software incorrectly |
| Q1908-01    | VL042443.D | Tetrachloroethene     | SAM | 4/30/2025 7:51:56 AM | MMDadoda | 4/30/2025 2:27:05 PM | Peak Integrated by Software incorrectly |
| Q1908-01    | VL042443.D | Toluene               | SAM | 4/30/2025 7:51:56 AM | MMDadoda | 4/30/2025 2:27:05 PM | Peak Integrated by Software incorrectly |
| Q1908-03    | VL042445.D | Carbon Tetrachloride  | SAM | 4/30/2025 7:51:26 AM | MMDadoda | 4/30/2025 2:27:19 PM | Peak Integrated by Software incorrectly |
| Q1908-03    | VL042445.D | Chlorodifluoromethane | SAM | 4/30/2025 7:51:26 AM | MMDadoda | 4/30/2025 2:27:19 PM | Peak Integrated by Software incorrectly |
| Q1908-03    | VL042445.D | Isopropyl Alcohol     | SAM | 4/30/2025 7:51:26 AM | MMDadoda | 4/30/2025 2:27:19 PM | Peak Integrated by Software incorrectly |
| Q1908-01DUP | VL042454.D | Carbon Tetrachloride  | SAM | 4/30/2025 7:53:16 AM | MMDadoda | 4/30/2025 2:27:58 PM | Peak Integrated by Software incorrectly |
| Q1908-01DUP | VL042454.D | Chlorodifluoromethane | SAM | 4/30/2025 7:53:16 AM | MMDadoda | 4/30/2025 2:27:58 PM | Peak Integrated by Software incorrectly |
| Q1908-01DUP | VL042454.D | Tetrachloroethene     | SAM | 4/30/2025 7:53:16 AM | MMDadoda | 4/30/2025 2:27:58 PM | Peak Integrated by Software incorrectly |
| Q1908-      | VL042454.  | Toluene               | SA  | 4/30/202             | MMDadod  | 4/30/202             | Peak                                    |

|             |            |                        |     |                      |          |                      |                                                          |
|-------------|------------|------------------------|-----|----------------------|----------|----------------------|----------------------------------------------------------|
| 01DUP       | D          |                        | M   | 5 7:53:16 AM         | a        | 5 2:27:58 PM         | Integrate<br>d by<br>Software<br>incorrectl<br>y         |
| Q1908-01DUP | VL042454.D | Trichlorofluoromethane | SAM | 4/30/2025 7:53:16 AM | MMDadoda | 4/30/2025 2:27:58 PM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1908-02    | VL042456.D | Carbon Tetrachloride   | SAM | 4/30/2025 7:49:27 AM | MMDadoda | 4/30/2025 2:28:06 PM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |
| Q1908-02    | VL042456.D | Chlorodifluoromethane  | SAM | 4/30/2025 7:49:27 AM | MMDadoda | 4/30/2025 2:28:06 PM | Peak<br>Integrate<br>d by<br>Software<br>incorrectl<br>y |

#### F. Manual Integration Comments:

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

---

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

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q1908

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: 05/09/2025

## LAB CHRONICLE

|                 |                        |                   |                       |
|-----------------|------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q1908                  | <b>OrderDate:</b> | 4/29/2025 10:26:04 AM |
| <b>Client:</b>  | RMJ Environomics, Inc. | <b>Project:</b>   | 32 Park St Orange NJ  |
| <b>Contact:</b> | Jonathan Pereira       | <b>Location:</b>  | L51                   |

| LabID    | ClientID | Matrix | Test  | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|----------|--------|-------|--------|-------------|-----------|-----------|----------|
| Q1908-01 | B-1      | Air    | TO-15 | TO-15  | 04/28/25    |           | 04/29/25  | 04/28/25 |
| Q1908-02 | B-2      | Air    | TO-15 | TO-15  | 04/28/25    |           | 04/29/25  | 04/28/25 |
| Q1908-03 | B-3      | Air    | TO-15 | TO-15  | 04/28/25    |           | 04/29/25  | 04/28/25 |

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

**SDG No.:** Q1908  
**Client:** RMJ Environomics, Inc.

| Sample ID         | Client ID  | Matrix | Parameter                   | Concentration | C | MDL   | RDL  | Units |
|-------------------|------------|--------|-----------------------------|---------------|---|-------|------|-------|
| <b>Client ID:</b> | <b>B-1</b> |        |                             |               |   |       |      |       |
| Q1908-01          | B-1        | Air    | Dichlorodifluoromethane     | 2.42          | J | 1.04  | 2.47 | ug/m3 |
| Q1908-01          | B-1        | Air    | Chloromethane               | 0.85          | J | 0.21  | 1.03 | ug/m3 |
| Q1908-01          | B-1        | Air    | Trichlorofluoromethane      | 1.18          | J | 0.90  | 2.81 | ug/m3 |
| Q1908-01          | B-1        | Air    | Acetone                     | 26.1          |   | 0.57  | 1.19 | ug/m3 |
| Q1908-01          | B-1        | Air    | Methylene Chloride          | 1.88          |   | 0.66  | 1.74 | ug/m3 |
| Q1908-01          | B-1        | Air    | 2-Butanone                  | 7.08          |   | 0.35  | 1.47 | ug/m3 |
| Q1908-01          | B-1        | Air    | Carbon Tetrachloride        | 0.38          |   | 0.060 | 0.19 | ug/m3 |
| Q1908-01          | B-1        | Air    | Toluene                     | 0.57          | J | 0.41  | 1.88 | ug/m3 |
| Q1908-01          | B-1        | Air    | Tetrachloroethene           | 0.34          |   | 0.14  | 0.20 | ug/m3 |
| Q1908-01          | B-1        | Air    | 1,2,4-Trimethylbenzene      | 0.64          | J | 0.39  | 2.46 | ug/m3 |
| Q1908-01          | B-1        | Air    | Hexane                      | 1.16          | J | 0.39  | 1.76 | ug/m3 |
|                   |            |        | <b>Total Voc :</b>          | <b>42.6</b>   |   |       |      |       |
|                   |            |        | <b>Total Concentration:</b> | <b>42.6</b>   |   |       |      |       |
| <b>Client ID:</b> | <b>B-2</b> |        |                             |               |   |       |      |       |
| Q1908-02          | B-2        | Air    | Dichlorodifluoromethane     | 2.42          | J | 1.04  | 2.47 | ug/m3 |
| Q1908-02          | B-2        | Air    | Chloromethane               | 0.99          | J | 0.21  | 1.03 | ug/m3 |
| Q1908-02          | B-2        | Air    | Trichlorofluoromethane      | 1.40          | J | 0.90  | 2.81 | ug/m3 |
| Q1908-02          | B-2        | Air    | Acetone                     | 7.36          |   | 0.57  | 1.19 | ug/m3 |
| Q1908-02          | B-2        | Air    | Methylene Chloride          | 28.1          |   | 0.66  | 1.74 | ug/m3 |
| Q1908-02          | B-2        | Air    | 2-Butanone                  | 0.59          | J | 0.35  | 1.47 | ug/m3 |
| Q1908-02          | B-2        | Air    | Carbon Tetrachloride        | 0.44          |   | 0.060 | 0.19 | ug/m3 |
| Q1908-02          | B-2        | Air    | Hexane                      | 5.64          |   | 0.39  | 1.76 | ug/m3 |
|                   |            |        | <b>Total Voc :</b>          | <b>47.0</b>   |   |       |      |       |
|                   |            |        | <b>Total Concentration:</b> | <b>47.0</b>   |   |       |      |       |
| <b>Client ID:</b> | <b>B-3</b> |        |                             |               |   |       |      |       |
| Q1908-03          | B-3        | Air    | Dichlorodifluoromethane     | 2.42          | J | 1.04  | 2.47 | ug/m3 |
| Q1908-03          | B-3        | Air    | Chloromethane               | 0.97          | J | 0.21  | 1.03 | ug/m3 |
| Q1908-03          | B-3        | Air    | Trichlorofluoromethane      | 1.29          | J | 0.90  | 2.81 | ug/m3 |
| Q1908-03          | B-3        | Air    | Acetone                     | 8.31          |   | 0.57  | 1.19 | ug/m3 |
| Q1908-03          | B-3        | Air    | Methylene Chloride          | 1.32          | J | 0.66  | 1.74 | ug/m3 |
| Q1908-03          | B-3        | Air    | 2-Butanone                  | 1.53          |   | 0.35  | 1.47 | ug/m3 |
| Q1908-03          | B-3        | Air    | Carbon Tetrachloride        | 0.44          |   | 0.060 | 0.19 | ug/m3 |
| Q1908-03          | B-3        | Air    | Toluene                     | 0.57          | J | 0.41  | 1.88 | ug/m3 |
| Q1908-03          | B-3        | Air    | Hexane                      | 6.34          |   | 0.39  | 1.76 | ug/m3 |
|                   |            |        | <b>Total Voc :</b>          | <b>23.2</b>   |   |       |      |       |
|                   |            |        | <b>Total Concentration:</b> | <b>23.2</b>   |   |       |      |       |



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

**SDG No.:** Q1908

**Client:** RMJ Environomics, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|-----------|-----------|--------|-----------|---------------|---|-----|-----|-------|
|-----------|-----------|--------|-----------|---------------|---|-----|-----|-------|

**Project :** 32 Park St Orange NJ

**Sampling Date :** 04/28/25

**Field Id Number :** B-1

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1908-01

**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            | 0.49                   | J         | 2.42                      |              |            |
| Chloromethane                  | 74-87-3    | 50.49            | 0.41                   | J         | 0.85                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.01                   | U         | 0.03                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.14                   | U         | 0.54                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.17                   | U         | 0.45                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.13                   | U         | 0.38                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.21                   | J         | 1.18                      |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.09                   | U         | 0.63                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.16                   | U         | 1.23                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.19                   | U         | 0.58                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.11                   | U         | 0.45                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 11                     |           | 26.1                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.16                   | U         | 0.5                       |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.12                   | U         | 0.43                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 0.54                   |           | 1.88                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.19                   | U         | 0.75                      |              |            |
| 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            | 2.4                    |           | 7.08                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.06                   |           | 0.38                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.09                   | U         | 0.36                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.08                   | U         | 0.39                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.01                   | U         | 0.05                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.1                    | U         | 0.47                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.09                   | U         | 0.29                      |              |            |
| 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              | 0.11                   | U         | 0.51                      |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.08                   | U         | 0.54                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.09                   | U         | 0.37                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.15                   | J         | 0.57                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.06                   | U         | 0.27                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.06                   | U         | 0.27                      |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.07                   | U         | 0.38                      |              |            |

**Project :** 32 Park St Orange NJ

**Sampling Date :** 04/28/25

**Field Id Number :** B-1

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1908-01

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.07 | U | 0.6  |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.07 | U | 0.54 |  |  |
| Tetrachloroethene         | 127-18-4    | 165.8   | 0.05 |   | 0.34 |  |  |
| Chlorobenzene             | 108-90-7    | 112.6   | 0.08 | U | 0.37 |  |  |
| Ethyl Benzene             | 100-41-4    | 106.2   | 0.12 | U | 0.52 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.21 | U | 0.91 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.12 | U | 0.52 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.11 | U | 0.47 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.06 | U | 0.62 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.01 | U | 0.07 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.11 | U | 0.57 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.11 | U | 0.54 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.13 | J | 0.64 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.08 | U | 0.48 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.05 | U | 0.3  |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.08 | U | 0.48 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.09 | U | 0.67 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.09 | U | 0.96 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.08 | U | 0.42 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.13 | U | 0.29 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.12 | U | 0.59 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 0.33 | J | 1.16 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.15 | U | 0.47 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.21 | U | 0.76 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.09 | U | 0.37 |  |  |

**Project :** 32 Park St Orange NJ

**Sampling Date :** 04/28/25

**Field Id Number :** B-2

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1908-02

**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            | 0.48                   | J         | 0.99                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.01                   | U         | 0.03                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.14                   | U         | 0.54                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.17                   | U         | 0.45                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.13                   | U         | 0.38                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.25                   | J         | 1.4                       |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.09                   | U         | 0.63                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.16                   | U         | 1.23                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.19                   | U         | 0.58                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.11                   | U         | 0.45                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 3.1                    |           | 7.36                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.16                   | U         | 0.5                       |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.12                   | U         | 0.43                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 8.1                    |           | 28.1                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.19                   | U         | 0.75                      |              |            |
| 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            | 0.2                    | J         | 0.59                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.07                   |           | 0.44                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.09                   | U         | 0.36                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.08                   | U         | 0.39                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.01                   | U         | 0.05                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.1                    | U         | 0.47                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.09                   | U         | 0.29                      |              |            |
| 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              | 0.11                   | U         | 0.51                      |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.08                   | U         | 0.54                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.09                   | U         | 0.37                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.11                   | U         | 0.41                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.06                   | U         | 0.27                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.06                   | U         | 0.27                      |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.07                   | U         | 0.38                      |              |            |

**Project :** 32 Park St Orange NJ

**Sampling Date :** 04/28/25

**Field Id Number :** B-2

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1908-02

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.07 | U | 0.6  |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.07 | U | 0.54 |  |  |
| 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   | 0.12 | U | 0.52 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.21 | U | 0.91 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.12 | U | 0.52 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.11 | U | 0.47 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.06 | U | 0.62 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.01 | U | 0.07 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.11 | U | 0.57 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.11 | U | 0.54 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.08 | U | 0.39 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.08 | U | 0.48 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.05 | U | 0.3  |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.08 | U | 0.48 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.09 | U | 0.67 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.09 | U | 0.96 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.08 | U | 0.42 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.13 | U | 0.29 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.12 | U | 0.59 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 1.6  |   | 5.64 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.15 | U | 0.47 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.21 | U | 0.76 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.09 | U | 0.37 |  |  |

**Project :** 32 Park St Orange NJ

**Sampling Date :** 04/28/25

**Field Id Number :** B-3

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1908-03

**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            | 0.47                   | J         | 0.97                      |              |            |
| Vinyl Chloride                 | 75-01-4    | 62.5             | 0.01                   | U         | 0.03                      |              |            |
| Bromomethane                   | 74-83-9    | 94.94            | 0.14                   | U         | 0.54                      |              |            |
| Chloroethane                   | 75-00-3    | 64.52            | 0.17                   | U         | 0.45                      |              |            |
| Tetrahydrofuran                | 109-99-9   | 72.11            | 0.13                   | U         | 0.38                      |              |            |
| Trichlorofluoromethane         | 75-69-4    | 137.4            | 0.23                   | J         | 1.29                      |              |            |
| Dichlorotetrafluoroethane      | 76-14-2    | 170.9            | 0.09                   | U         | 0.63                      |              |            |
| 1,1,2-Trichlorotrifluoroethane | 76-13-1    | 187.4            | 0.16                   | U         | 1.23                      |              |            |
| tert-Butyl alcohol             | 75-65-0    | 74.12            | 0.19                   | U         | 0.58                      |              |            |
| Heptane                        | 142-82-5   | 100.2            | 0.11                   | U         | 0.45                      |              |            |
| 1,1-Dichloroethene             | 75-35-4    | 96.94            | 0.14                   | U         | 0.56                      |              |            |
| Acetone                        | 67-64-1    | 58.08            | 3.5                    |           | 8.31                      |              |            |
| Carbon Disulfide               | 75-15-0    | 76.14            | 0.16                   | U         | 0.5                       |              |            |
| Methyl tert-Butyl Ether        | 1634-04-4  | 88.15            | 0.12                   | U         | 0.43                      |              |            |
| Methylene Chloride             | 75-09-2    | 84.94            | 0.38                   | J         | 1.32                      |              |            |
| trans-1,2-Dichloroethene       | 156-60-5   | 96.94            | 0.19                   | U         | 0.75                      |              |            |
| 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            | 0.52                   |           | 1.53                      |              |            |
| Carbon Tetrachloride           | 56-23-5    | 153.8            | 0.07                   |           | 0.44                      |              |            |
| cis-1,2-Dichloroethene         | 156-59-2   | 96.94            | 0.09                   | U         | 0.36                      |              |            |
| Chloroform                     | 67-66-3    | 119.4            | 0.08                   | U         | 0.39                      |              |            |
| 1,1,1-Trichloroethane          | 71-55-6    | 133.4            | 0.01                   | U         | 0.05                      |              |            |
| 2,2,4-Trimethylpentane         | 540-84-1   | 114.2            | 0.1                    | U         | 0.47                      |              |            |
| Benzene                        | 71-43-2    | 78.11            | 0.09                   | U         | 0.29                      |              |            |
| 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              | 0.11                   | U         | 0.51                      |              |            |
| Bromodichloromethane           | 75-27-4    | 163.8            | 0.08                   | U         | 0.54                      |              |            |
| 4-Methyl-2-Pentanone           | 108-10-1   | 100.2            | 0.09                   | U         | 0.37                      |              |            |
| Toluene                        | 108-88-3   | 92.14            | 0.15                   | J         | 0.57                      |              |            |
| t-1,3-Dichloropropene          | 10061-02-6 | 111              | 0.06                   | U         | 0.27                      |              |            |
| cis-1,3-Dichloropropene        | 10061-01-5 | 111              | 0.06                   | U         | 0.27                      |              |            |
| 1,1,2-Trichloroethane          | 79-00-5    | 133.4            | 0.07                   | U         | 0.38                      |              |            |

**Project :** 32 Park St Orange NJ

**Sampling Date :** 04/28/25

**Field Id Number :** B-3

**Analysis Date :** 04/29/25

**Laboratory Id Number :** Q1908-03

**Target Analyts :** Air Results

|                           |             |         |      |   |      |  |  |
|---------------------------|-------------|---------|------|---|------|--|--|
| Dibromochloromethane      | 124-48-1    | 208.3   | 0.07 | U | 0.6  |  |  |
| 1,2-Dibromoethane         | 106-93-4    | 187.9   | 0.07 | U | 0.54 |  |  |
| 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   | 0.12 | U | 0.52 |  |  |
| m/p-Xylene                | 179601-23-1 | 106.2   | 0.21 | U | 0.91 |  |  |
| o-Xylene                  | 95-47-6     | 106.2   | 0.12 | U | 0.52 |  |  |
| Styrene                   | 100-42-5    | 104.1   | 0.11 | U | 0.47 |  |  |
| Bromoform                 | 75-25-2     | 252.8   | 0.06 | U | 0.62 |  |  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | 167.9   | 0.01 | U | 0.07 |  |  |
| 2-Chlorotoluene           | 95-49-8     | 126.6   | 0.11 | U | 0.57 |  |  |
| 1,3,5-Trimethylbenzene    | 108-67-8    | 120.2   | 0.11 | U | 0.54 |  |  |
| 1,2,4-Trimethylbenzene    | 95-63-6     | 120.2   | 0.08 | U | 0.39 |  |  |
| 1,3-Dichlorobenzene       | 541-73-1    | 147     | 0.08 | U | 0.48 |  |  |
| 1,4-Dichlorobenzene       | 106-46-7    | 147     | 0.05 | U | 0.3  |  |  |
| 1,2-Dichlorobenzene       | 95-50-1     | 147     | 0.08 | U | 0.48 |  |  |
| 1,2,4-Trichlorobenzene    | 120-82-1    | 181.5   | 0.09 | U | 0.67 |  |  |
| Hexachloro-1,3-Butadiene  | 87-68-3     | 260.8   | 0.09 | U | 0.96 |  |  |
| Naphthalene               | 91-20-3     | 128.17  | 0.08 | U | 0.42 |  |  |
| 1,3-Butadiene             | 106-99-0    | 54.09   | 0.13 | U | 0.29 |  |  |
| 4-Ethyltoluene            | 622-96-8    | 120.2   | 0.12 | U | 0.59 |  |  |
| Hexane                    | 110-54-3    | 86.17   | 1.8  |   | 6.34 |  |  |
| Allyl Chloride            | 107-05-1    | 76.53   | 0.15 | U | 0.47 |  |  |
| 1,4-Dioxane               | 123-91-1    | 88.12   | 0.21 | U | 0.76 |  |  |
| Methyl Methacrylate       | 80-62-6     | 100.117 | 0.09 | U | 0.37 |  |  |

| Method | Matrix | Parameter                      | Spike_Amt_<br>Added | Calculated MDL | MB Data | MB Datafile | New MDL TO<br>Be Used | MDL Unit |
|--------|--------|--------------------------------|---------------------|----------------|---------|-------------|-----------------------|----------|
| TO-15  | Air    | 1,1,1,2-Tetrachloroethane      | 0.4                 | 0.090683682    | 0       |             | 0.091                 | ppbv     |
| TO-15  | Air    | 1,1,1-Trichloroethane          | 0.03                | 0.00947589     | 0       |             | 0.0095                | ppbv     |
| TO-15  | Air    | 1,1,2,2-Tetrachloroethane      | 0.03                | 0.010183321    | 0       |             | 0.011                 | ppbv     |
| TO-15  | Air    | 1,1,2-Trichloroethane          | 0.4                 | 0.070112514    | 0       |             | 0.071                 | ppbv     |
| TO-15  | Air    | 1,1,2-Trichlorotrifluoroethane | 0.4                 | 0.155560652    | 0       |             | 0.16                  | ppbv     |
| TO-15  | Air    | 1,1-Dichloroethane             | 0.4                 | 0.122378743    | 0       |             | 0.13                  | ppbv     |
| TO-15  | Air    | 1,1-Dichloroethene             | 0.4                 | 0.139735617    | 0       |             | 0.14                  | ppbv     |
| TO-15  | Air    | 1,2,4-Trichlorobenzene         | 0.4                 | 0.084677012    | 0       |             | 0.085                 | ppbv     |
| TO-15  | Air    | 1,2,4-Trimethylbenzene         | 0.4                 | 0.077496367    | 0       |             | 0.078                 | ppbv     |
| TO-15  | Air    | 1,2-Dibromoethane              | 0.4                 | 0.071318853    | 0       |             | 0.072                 | ppbv     |
| TO-15  | Air    | 1,2-Dichlorobenzene            | 0.4                 | 0.074250332    | 0       |             | 0.075                 | ppbv     |
| TO-15  | Air    | 1,2-Dichloroethane             | 0.4                 | 0.090890005    | 0       |             | 0.091                 | ppbv     |
| TO-15  | Air    | 1,2-Dichloropropane            | 0.4                 | 0.073346868    | 0.109   | VL038919.D  | 0.11                  | ppbv     |
| TO-15  | Air    | 1,3,5-Trimethylbenzene         | 0.4                 | 0.101198372    | 0       |             | 0.11                  | ppbv     |
| TO-15  | Air    | 1,3-Butadiene                  | 0.4                 | 0.124009143    | 0       |             | 0.13                  | ppbv     |
| TO-15  | Air    | 1,3-Dichlorobenzene            | 0.4                 | 0.079013305    | 0       |             | 0.08                  | ppbv     |
| TO-15  | Air    | 1,4-Dichlorobenzene            | 0.4                 | 0.052746151    | 0       |             | 0.053                 | ppbv     |
| TO-15  | Air    | 1,4-Dioxane                    | 0.4                 | 0.202123585    | 0       |             | 0.21                  | ppbv     |
| TO-15  | Air    | 2,2,4-Trimethylpentane         | 0.4                 | 0.09988427     | 0       |             | 0.10                  | ppbv     |
| TO-15  | Air    | 2-Butanone                     | 0.4                 | 0.118687999    | 0       |             | 0.12                  | ppbv     |
| TO-15  | Air    | 2-Chlorotoluene                | 0.4                 | 0.104141644    | 0       |             | 0.11                  | ppbv     |
| TO-15  | Air    | 2-Hexanone                     | 0.4                 | 0.080656229    | 0       |             | 0.081                 | ppbv     |
| TO-15  | Air    | 4-Ethyltoluene                 | 0.4                 | 0.112037051    | 0       |             | 0.12                  | ppbv     |
| TO-15  | Air    | 4-Methyl-2-Pentanone           | 0.4                 | 0.092836933    | 0       |             | 0.093                 | ppbv     |
| TO-15  | Air    | Acetone                        | 0.4                 | 0.234416891    | 0       |             | 0.24                  | ppbv     |
| TO-15  | Air    | Allyl Chloride                 | 0.4                 | 0.145618654    | 0       |             | 0.15                  | ppbv     |
| TO-15  | Air    | Benzene                        | 0.4                 | 0.086407689    | 0       |             | 0.087                 | ppbv     |
| TO-15  | Air    | Benzyl Chloride                | 0.4                 | 0.173895169    | 0       |             | 0.18                  | ppbv     |
| TO-15  | Air    | Bromodichloromethane           | 0.4                 | 0.076780313    | 0       |             | 0.077                 | ppbv     |
| TO-15  | Air    | Bromoethene                    | 0.4                 | 0.115560124    | 0       |             | 0.12                  | ppbv     |
| TO-15  | Air    | Bromoform                      | 0.4                 | 0.056947551    | 0       |             | 0.057                 | ppbv     |
| TO-15  | Air    | Bromomethane                   | 0.4                 | 0.137678239    | 0       |             | 0.14                  | ppbv     |
| TO-15  | Air    | Carbon Disulfide               | 0.4                 | 0.157343925    | 0       |             | 0.16                  | ppbv     |
| TO-15  | Air    | Carbon Tetrachloride           | 0.03                | 0.010617308    | 0       |             | 0.011                 | ppbv     |
| TO-15  | Air    | Chlorobenzene                  | 0.4                 | 0.075202602    | 0       |             | 0.076                 | ppbv     |
| TO-15  | Air    | Chlorodifluoromethane          | 0.4                 | 0.087466815    | 0       |             | 0.088                 | ppbv     |
| TO-15  | Air    | Chloroethane                   | 0.4                 | 0.163530318    | 0       |             | 0.17                  | ppbv     |
| TO-15  | Air    | Chloroform                     | 0.4                 | 0.082232394    | 0       |             | 0.083                 | ppbv     |
| TO-15  | Air    | Chloromethane                  | 0.4                 | 0.097292998    | 0       |             | 0.098                 | ppbv     |
| TO-15  | Air    | cis-1,2-Dichloroethene         | 0.4                 | 0.088332535    | 0       |             | 0.089                 | ppbv     |
| TO-15  | Air    | cis-1,3-Dichloropropene        | 0.4                 | 0.063248763    | 0       |             | 0.064                 | ppbv     |
| TO-15  | Air    | Cyclohexane                    | 0.4                 | 0.217999816    | 0       |             | 0.22                  | ppbv     |
| TO-15  | Air    | Dibromochloromethane           | 0.4                 | 0.065703935    | 0       |             | 0.066                 | ppbv     |
| TO-15  | Air    | Dichlorodifluoromethane        | 0.4                 | 0.20957733     | 0       |             | 0.21                  | ppbv     |
| TO-15  | Air    | Dichlorotetrafluoroethane      | 0.4                 | 0.087348046    | 0       |             | 0.088                 | ppbv     |
| TO-15  | Air    | Ethyl Acetate                  | 0.4                 | 0.078161123    | 0       |             | 0.079                 | ppbv     |
| TO-15  | Air    | Ethyl Benzene                  | 0.4                 | 0.115413562    | 0       |             | 0.12                  | ppbv     |
| TO-15  | Air    | Heptane                        | 0.4                 | 0.100800637    | 0       |             | 0.11                  | ppbv     |
| TO-15  | Air    | Hexachloro-1,3-Butadiene       | 0.4                 | 0.084169773    | 0       |             | 0.085                 | ppbv     |
| TO-15  | Air    | Hexane                         | 0.4                 | 0.106485082    | 0       |             | 0.11                  | ppbv     |
| TO-15  | Air    | Isopropyl Alcohol              | 0.4                 | 0.068329134    | 0       |             | 0.069                 | ppbv     |
| TO-15  | Air    | Isopropylbenzene               | 0.4                 | 0.086744608    | 0       |             | 0.087                 | ppbv     |
| TO-15  | Air    | m/p-Xylene                     | 0.4                 | 0.205831125    | 0       |             | 0.21                  | ppbv     |
| TO-15  | Air    | Methyl Methacrylate            | 0.4                 | 0.085528753    | 0       |             | 0.086                 | ppbv     |
| TO-15  | Air    | Methyl tert-Butyl Ether        | 0.4                 | 0.119546728    | 0       |             | 0.12                  | ppbv     |
| TO-15  | Air    | Methylene Chloride             | 0.4                 | 0.18405265     | 0.11    | VL039022.D  | 0.19                  | ppbv     |
| TO-15  | Air    | Naphthalene                    | 0.4                 | 0.074961199    | 0       |             | 0.075                 | ppbv     |
| TO-15  | Air    | Naphthalene,2-methyl-          | 0.4                 | 0.148496389    | 0       |             | 0.15                  | ppbv     |
| TO-15  | Air    | n-Butylbenzene                 | 0.4                 | 0.08201719     | 0       |             | 0.083                 | ppbv     |
| TO-15  | Air    | n-propylbenzene                | 0.4                 | 0.0778963      | 0       |             | 0.078                 | ppbv     |
| TO-15  | Air    | o-Xylene                       | 0.4                 | 0.117630235    | 0       |             | 0.12                  | ppbv     |
| TO-15  | Air    | p-Isopropyltoluene             | 0.4                 | 0.085704866    | 0       |             | 0.086                 | ppbv     |
| TO-15  | Air    | Propene                        | 0.4                 | 0.143790814    | 0.14    | VL039337.D  | 0.15                  | ppbv     |
| TO-15  | Air    | sec-Butylbenzene               | 0.4                 | 0.093164076    | 0       |             | 0.094                 | ppbv     |
| TO-15  | Air    | Styrene                        | 0.4                 | 0.109444442    | 0       |             | 0.11                  | ppbv     |
| TO-15  | Air    | t-1,3-Dichloropropene          | 0.4                 | 0.059734415    | 0       |             | 0.06                  | ppbv     |
| TO-15  | Air    | tert-Butyl alcohol             | 0.4                 | 0.187711954    | 0       |             | 0.19                  | ppbv     |
| TO-15  | Air    | tert-Butylbenzene              | 0.4                 | 0.092760327    | 0       |             | 0.093                 | ppbv     |
| TO-15  | Air    | Tetrachloroethene              | 0.03                | 0.014462962    | 0       |             | 0.015                 | ppbv     |
| TO-15  | Air    | Tetrahydrofuran                | 0.4                 | 0.122655048    | 0       |             | 0.13                  | ppbv     |
| TO-15  | Air    | Toluene                        | 0.4                 | 0.109284       | 0       |             | 0.11                  | ppbv     |
| TO-15  | Air    | trans-1,2-Dichloroethene       | 0.4                 | 0.185264638    | 0       |             | 0.19                  | ppbv     |
| TO-15  | Air    | Trichloroethene                | 0.03                | 0.016558175    | 0       |             | 0.017                 | ppbv     |
| TO-15  | Air    | Trichlorofluoromethane         | 0.4                 | 0.157465794    | 0       |             | 0.16                  | ppbv     |
| TO-15  | Air    | Vinyl Acetate                  | 0.4                 | 0.152371485    | 0       |             | 0.16                  | ppbv     |
| TO-15  | Air    | Vinyl Chloride                 | 0.03                | 0.013585954    | 0       |             | 0.014                 | ppbv     |
| TO-15  | Air    | Ethanol                        | 0.4                 | 0.317031286    | 0       |             | 0.32                  | ug/L     |



| StddevVal   | StudentsT<br>Value | Instrument<br>ID | Datafile1  | Concentration1 | Adate1            | Datafile2  | Concentration2 |
|-------------|--------------------|------------------|------------|----------------|-------------------|------------|----------------|
| 0.03485153  | 2.602              | MSVOA_L          | VL038602.D | 0.51           | 03142022T18:52:00 | VL038645.D | 0.494          |
| 0.003641772 | 2.602              | MSVOA_L          | VL038599.D | 0.03           | 03142022T17:01:00 | VL038658.D | 0.029          |
| 0.003913651 | 2.602              | MSVOA_L          | VL038599.D | 0.03           | 03142022T17:01:00 | VL038658.D | 0.035          |
| 0.026945624 | 2.602              | MSVOA_L          | VL038602.D | 0.44           | 03142022T18:52:00 | VL038645.D | 0.439          |
| 0.059785032 | 2.602              | MSVOA_L          | VL038602.D | 0.47           | 03142022T18:52:00 | VL038645.D | 0.466          |
| 0.047032569 | 2.602              | MSVOA_L          | VL038602.D | 0.45           | 03142022T18:52:00 | VL038645.D | 0.456          |
| 0.053703158 | 2.602              | MSVOA_L          | VL038602.D | 0.43           | 03142022T18:52:00 | VL038645.D | 0.411          |
| 0.032543048 | 2.602              | MSVOA_L          | VL038602.D | 0.3            | 03142022T18:52:00 | VL038645.D | 0.336          |
| 0.029783385 | 2.602              | MSVOA_L          | VL038602.D | 0.38           | 03142022T18:52:00 | VL038645.D | 0.396          |
| 0.027409244 | 2.602              | MSVOA_L          | VL038602.D | 0.38           | 03142022T18:52:00 | VL038645.D | 0.352          |
| 0.028535869 | 2.602              | MSVOA_L          | VL038602.D | 0.45           | 03142022T18:52:00 | VL038645.D | 0.407          |
| 0.034930824 | 2.602              | MSVOA_L          | VL038602.D | 0.41           | 03142022T18:52:00 | VL038645.D | 0.445          |
| 0.02818865  | 2.602              | MSVOA_L          | VL038602.D | 0.43           | 03142022T18:52:00 | VL038645.D | 0.406          |
| 0.038892534 | 2.602              | MSVOA_L          | VL038602.D | 0.33           | 03142022T18:52:00 | VL038645.D | 0.374          |
| 0.047659163 | 2.602              | MSVOA_L          | VL038602.D | 0.42           | 03142022T18:52:00 | VL038645.D | 0.419          |
| 0.030366374 | 2.602              | MSVOA_L          | VL038602.D | 0.42           | 03142022T18:52:00 | VL038645.D | 0.428          |
| 0.020271388 | 2.602              | MSVOA_L          | VL038602.D | 0.42           | 03142022T18:52:00 | VL038645.D | 0.418          |
| 0.077680086 | 2.602              | MSVOA_L          | VL038602.D | 0.46           | 03142022T18:52:00 | VL038645.D | 0.285          |
| 0.038387498 | 2.602              | MSVOA_L          | VL038602.D | 0.39           | 03142022T18:52:00 | VL038645.D | 0.383          |
| 0.045614143 | 2.602              | MSVOA_L          | VL038602.D | 0.4            | 03142022T18:52:00 | VL038645.D | 0.406          |
| 0.040023691 | 2.602              | MSVOA_L          | VL038602.D | 0.37           | 03142022T18:52:00 | VL038645.D | 0.375          |
| 0.030997782 | 2.602              | MSVOA_L          | VL038602.D | 0.3            | 03142022T18:52:00 | VL038645.D | 0.283          |
| 0.043058052 | 2.602              | MSVOA_L          | VL038602.D | 0.34           | 03142022T18:52:00 | VL038645.D | 0.356          |
| 0.035679067 | 2.602              | MSVOA_L          | VL038602.D | 0.3            | 03142022T18:52:00 | VL038645.D | 0.282          |
| 0.090091042 | 2.602              | MSVOA_L          | VL038602.D | 0.43           | 03142022T18:52:00 | VL038645.D | 0.468          |
| 0.055964125 | 2.602              | MSVOA_L          | VL038602.D | 0.4            | 03142022T18:52:00 | VL038645.D | 0.392          |
| 0.033208182 | 2.602              | MSVOA_L          | VL038602.D | 0.38           | 03142022T18:52:00 | VL038645.D | 0.407          |
| 0.066831349 | 2.602              | MSVOA_L          | VL038602.D | 0.44           | 03142022T18:52:00 | VL038645.D | 0.454          |
| 0.029508191 | 2.602              | MSVOA_L          | VL038602.D | 0.43           | 03142022T18:52:00 | VL038645.D | 0.408          |
| 0.044412039 | 2.602              | MSVOA_L          | VL038602.D | 0.42           | 03142022T18:52:00 | VL038645.D | 0.433          |
| 0.021886069 | 2.602              | MSVOA_L          | VL038602.D | 0.38           | 03142022T18:52:00 | VL038645.D | 0.31           |
| 0.052912467 | 2.602              | MSVOA_L          | VL038602.D | 0.43           | 03142022T18:52:00 | VL038645.D | 0.404          |
| 0.060470378 | 2.602              | MSVOA_L          | VL038602.D | 0.37           | 03142022T18:52:00 | VL038645.D | 0.357          |
| 0.004080441 | 2.602              | MSVOA_L          | VL038599.D | 0.03           | 03142022T17:01:00 | VL038658.D | 0.026          |
| 0.028901845 | 2.602              | MSVOA_L          | VL038602.D | 0.48           | 03142022T18:52:00 | VL038645.D | 0.467          |
| 0.033615225 | 2.602              | MSVOA_L          | VL038602.D | 0.45           | 03142022T18:52:00 | VL038645.D | 0.468          |
| 0.062847932 | 2.602              | MSVOA_L          | VL038602.D | 0.44           | 03142022T18:52:00 | VL038645.D | 0.453          |
| 0.031603534 | 2.602              | MSVOA_L          | VL038602.D | 0.45           | 03142022T18:52:00 | VL038645.D | 0.464          |
| 0.037391621 | 2.602              | MSVOA_L          | VL038602.D | 0.47           | 03142022T18:52:00 | VL038645.D | 0.439          |
| 0.033947938 | 2.602              | MSVOA_L          | VL038602.D | 0.36           | 03142022T18:52:00 | VL038645.D | 0.391          |
| 0.024307749 | 2.602              | MSVOA_L          | VL038602.D | 0.3            | 03142022T18:52:00 | VL038645.D | 0.317          |
| 0.083781636 | 2.602              | MSVOA_L          | VL038602.D | 0.42           | 03142022T18:52:00 | VL038645.D | 0.414          |
| 0.02525132  | 2.602              | MSVOA_L          | VL038602.D | 0.39           | 03142022T18:52:00 | VL038645.D | 0.359          |
| 0.080544708 | 2.602              | MSVOA_L          | VL038602.D | 0.49           | 03142022T18:52:00 | VL038645.D | 0.43           |
| 0.033569579 | 2.602              | MSVOA_L          | VL038602.D | 0.5            | 03142022T18:52:00 | VL038645.D | 0.472          |
| 0.030038864 | 2.602              | MSVOA_L          | VL038602.D | 0.39           | 03142022T18:52:00 | VL038645.D | 0.412          |
| 0.044355712 | 2.602              | MSVOA_L          | VL038602.D | 0.33           | 03142022T18:52:00 | VL038645.D | 0.357          |
| 0.038739676 | 2.602              | MSVOA_L          | VL038602.D | 0.35           | 03142022T18:52:00 | VL038645.D | 0.349          |
| 0.032348107 | 2.602              | MSVOA_L          | VL038602.D | 0.48           | 03142022T18:52:00 | VL038645.D | 0.5            |
| 0.04092432  | 2.602              | MSVOA_L          | VL038602.D | 0.37           | 03142022T18:52:00 | VL038645.D | 0.411          |
| 0.026260236 | 2.602              | MSVOA_L          | VL038602.D | 0.47           | 03142022T18:52:00 | VL038645.D | 0.44           |
| 0.033337666 | 2.602              | MSVOA_L          | VL038602.D | 0.4            | 03142022T18:52:00 | VL038645.D | 0.387          |
| 0.079104967 | 2.602              | MSVOA_L          | VL038602.D | 0.76           | 03142022T18:52:00 | VL038645.D | 0.762          |
| 0.032870389 | 2.602              | MSVOA_L          | VL038602.D | 0.31           | 03142022T18:52:00 | VL038645.D | 0.334          |
| 0.045944169 | 2.602              | MSVOA_L          | VL038602.D | 0.41           | 03142022T18:52:00 | VL038645.D | 0.418          |
| 0.070735069 | 2.602              | MSVOA_L          | VL038602.D | 0.49           | 03142022T18:52:00 | VL038645.D | 0.479          |
| 0.02880907  | 2.602              | MSVOA_L          | VL038602.D | 0.25           | 03142022T18:52:00 | VL038645.D | 0.289          |
| 0.057070096 | 2.602              | MSVOA_L          | VL038602.D | 0.14           | 03142022T18:52:00 | VL038645.D | 0.074          |
| 0.031520826 | 2.602              | MSVOA_L          | VL038602.D | 0.35           | 03142022T18:52:00 | VL038645.D | 0.366          |
| 0.029937087 | 2.602              | MSVOA_L          | VL038602.D | 0.37           | 03142022T18:52:00 | VL038645.D | 0.365          |
| 0.045207623 | 2.602              | MSVOA_L          | VL038602.D | 0.36           | 03142022T18:52:00 | VL038645.D | 0.368          |
| 0.032938073 | 2.602              | MSVOA_L          | VL038602.D | 0.35           | 03142022T18:52:00 | VL038645.D | 0.366          |
| 0.05526165  | 2.602              | MSVOA_L          | VL038602.D | 0.44           | 03142022T18:52:00 | VL038645.D | 0.443          |
| 0.035804795 | 2.602              | MSVOA_L          | VL038602.D | 0.38           | 03142022T18:52:00 | VL038645.D | 0.392          |
| 0.042061661 | 2.602              | MSVOA_L          | VL038602.D | 0.26           | 03142022T18:52:00 | VL038645.D | 0.275          |
| 0.022957116 | 2.602              | MSVOA_L          | VL038602.D | 0.27           | 03142022T18:52:00 | VL038645.D | 0.29           |
| 0.072141412 | 2.602              | MSVOA_L          | VL038602.D | 0.44           | 03142022T18:52:00 | VL038645.D | 0.459          |
| 0.035649626 | 2.602              | MSVOA_L          | VL038602.D | 0.37           | 03142022T18:52:00 | VL038645.D | 0.405          |
| 0.005558402 | 2.602              | MSVOA_L          | VL038599.D | 0.03           | 03142022T17:01:00 | VL038658.D | 0.031          |
| 0.047138758 | 2.602              | MSVOA_L          | VL038602.D | 0.3            | 03142022T18:52:00 | VL038645.D | 0.324          |
| 0.042       | 2.602              | MSVOA_L          | VL038602.D | 0.31           | 03142022T18:52:00 | VL038645.D | 0.332          |
| 0.07120086  | 2.602              | MSVOA_L          | VL038602.D | 0.4            | 03142022T18:52:00 | VL038645.D | 0.396          |
| 0.006363634 | 2.602              | MSVOA_L          | VL038599.D | 0.03           | 03142022T17:01:00 | VL038658.D | 0.035          |
| 0.060517215 | 2.602              | MSVOA_L          | VL038602.D | 0.46           | 03142022T18:52:00 | VL038645.D | 0.472          |
| 0.058559372 | 2.602              | MSVOA_L          | VL038602.D | 0.4            | 03142022T18:52:00 | VL038645.D | 0.389          |
| 0.00522135  | 2.602              | MSVOA_L          | VL038599.D | 0.03           | 03142022T17:01:00 | VL038658.D | 0.031          |
| 0.105747594 | 2.998              | MSVOA_L          | VL040210.D | 0.438          | 02222023T00:52:00 | VL040220.D | 0.43           |

| Adate2            | Datafile3  | Concentration3 | Adate3            | Datafile4  | Concentration4 | Adate4            | Datafile5  |
|-------------------|------------|----------------|-------------------|------------|----------------|-------------------|------------|
| 03182022T03:39:00 | VL039242.D | 0.45           | 06082022T19:44:00 | VL039436.D | 0.45           | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.036          | 06222022T20:53:00 | VL039439.D | 0.033          | 07062022T09:13:00 | VL039570.D |
| 03212022T20:11:00 | VL039329.D | 0.029          | 06222022T20:53:00 | VL039439.D | 0.035          | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.417          | 06082022T19:44:00 | VL039436.D | 0.445          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.615          | 06082022T19:44:00 | VL039436.D | 0.498          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.493          | 06082022T19:44:00 | VL039436.D | 0.545          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.594          | 06082022T19:44:00 | VL039436.D | 0.485          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.318          | 06082022T19:44:00 | VL039436.D | 0.328          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.389          | 06082022T19:44:00 | VL039436.D | 0.387          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.392          | 06082022T19:44:00 | VL039436.D | 0.391          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.409          | 06082022T19:44:00 | VL039436.D | 0.393          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.494          | 06082022T19:44:00 | VL039436.D | 0.435          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.404          | 06082022T19:44:00 | VL039436.D | 0.451          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.421          | 06082022T19:44:00 | VL039436.D | 0.397          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.583          | 06082022T19:44:00 | VL039436.D | 0.486          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.409          | 06082022T19:44:00 | VL039436.D | 0.465          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.392          | 06082022T19:44:00 | VL039436.D | 0.41           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.454          | 06082022T19:44:00 | VL039436.D | 0.535          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.37           | 06082022T19:44:00 | VL039436.D | 0.425          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.438          | 06082022T19:44:00 | VL039436.D | 0.482          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.415          | 06082022T19:44:00 | VL039436.D | 0.401          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.309          | 06082022T19:44:00 | VL039436.D | 0.31           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.391          | 06082022T19:44:00 | VL039436.D | 0.393          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.371          | 06082022T19:44:00 | VL039436.D | 0.372          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.649          | 06082022T19:44:00 | VL039436.D | 0.621          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.58           | 06082022T19:44:00 | VL039436.D | 0.45           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.391          | 06082022T19:44:00 | VL039436.D | 0.429          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.328          | 06082022T19:44:00 | VL039436.D | 0.438          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.398          | 06082022T19:44:00 | VL039436.D | 0.395          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.526          | 06082022T19:44:00 | VL039436.D | 0.475          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.335          | 06082022T19:44:00 | VL039436.D | 0.322          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.535          | 06082022T19:44:00 | VL039436.D | 0.503          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.494          | 06082022T19:44:00 | VL039436.D | 0.389          | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.028          | 06222022T20:53:00 | VL039439.D | 0.03           | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.418          | 06082022T19:44:00 | VL039436.D | 0.473          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.489          | 06082022T19:44:00 | VL039436.D | 0.483          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.595          | 06082022T19:44:00 | VL039436.D | 0.52           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.453          | 06082022T19:44:00 | VL039436.D | 0.469          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.5            | 06082022T19:44:00 | VL039436.D | 0.482          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.403          | 06082022T19:44:00 | VL039436.D | 0.434          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.315          | 06082022T19:44:00 | VL039436.D | 0.327          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.428          | 06082022T19:44:00 | VL039436.D | 0.512          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.359          | 06082022T19:44:00 | VL039436.D | 0.37           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.618          | 06082022T19:44:00 | VL039436.D | 0.675          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.551          | 06082022T19:44:00 | VL039436.D | 0.51           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.376          | 06082022T19:44:00 | VL039436.D | 0.441          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.374          | 06082022T19:44:00 | VL039436.D | 0.381          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.33           | 06082022T19:44:00 | VL039436.D | 0.41           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.444          | 06082022T19:44:00 | VL039436.D | 0.472          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.394          | 06082022T19:44:00 | VL039436.D | 0.47           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.504          | 06082022T19:44:00 | VL039436.D | 0.465          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.425          | 06082022T19:44:00 | VL039436.D | 0.416          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.815          | 06082022T19:44:00 | VL039436.D | 0.805          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.347          | 06082022T19:44:00 | VL039436.D | 0.361          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.492          | 06082022T19:44:00 | VL039436.D | 0.452          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.684          | 06082022T19:44:00 | VL039436.D | 0.578          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.282          | 06082022T19:44:00 | VL039436.D | 0.302          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.155          | 06082022T19:44:00 | VL039436.D | 0.143          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.39           | 06082022T19:44:00 | VL039436.D | 0.374          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.394          | 06082022T19:44:00 | VL039436.D | 0.397          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.421          | 06082022T19:44:00 | VL039436.D | 0.403          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.378          | 06082022T19:44:00 | VL039436.D | 0.388          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.435          | 06082022T19:44:00 | VL039436.D | 0.521          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.411          | 06082022T19:44:00 | VL039436.D | 0.406          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.345          | 06082022T19:44:00 | VL039436.D | 0.302          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.309          | 06082022T19:44:00 | VL039436.D | 0.279          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.655          | 06082022T19:44:00 | VL039436.D | 0.505          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.403          | 06082022T19:44:00 | VL039436.D | 0.388          | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.036          | 06222022T20:53:00 | VL039439.D | 0.034          | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.346          | 06082022T19:44:00 | VL039436.D | 0.38           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.341          | 06082022T19:44:00 | VL039436.D | 0.37           | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.64           | 06082022T19:44:00 | VL039436.D | 0.494          | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.038          | 06222022T20:53:00 | VL039439.D | 0.034          | 07062022T09:13:00 | VL039570.D |
| 03182022T03:39:00 | VL039242.D | 0.596          | 06082022T19:44:00 | VL039436.D | 0.492          | 07062022T02:26:00 | VL039568.D |
| 03182022T03:39:00 | VL039242.D | 0.418          | 06082022T19:44:00 | VL039436.D | 0.437          | 07062022T02:26:00 | VL039568.D |
| 03212022T20:11:00 | VL039329.D | 0.043          | 06222022T20:53:00 | VL039439.D | 0.036          | 07062022T09:13:00 | VL039570.D |
| 02232022T13:12:00 | VL040329.D | 0.51           | 04102023T17:39:00 | VL040349.D | 0.633          | 04122023T23:23:00 | VL040559.D |

| Concentration5 | Adate5            | Datafile6  | Concentration6 | Adate6            | Datafile7  | Concentration7 | Adate7            |
|----------------|-------------------|------------|----------------|-------------------|------------|----------------|-------------------|
| 0.433          | 08182022T21:04:00 | VL039600.D | 0.463          | 08262022T12:33:00 | VL039709.D | 0.402          | 10102022T23:30:00 |
| 0.03           | 08182022T22:24:00 | VL039586.D | 0.031          | 08252022T20:23:00 | VL039711.D | 0.03           | 10112022T00:45:00 |
| 0.03           | 08182022T22:24:00 | VL039586.D | 0.029          | 08252022T20:23:00 | VL039711.D | 0.03           | 10112022T00:45:00 |
| 0.404          | 08182022T21:04:00 | VL039600.D | 0.424          | 08262022T12:33:00 | VL039709.D | 0.412          | 10102022T23:30:00 |
| 0.448          | 08182022T21:04:00 | VL039600.D | 0.454          | 08262022T12:33:00 | VL039709.D | 0.438          | 10102022T23:30:00 |
| 0.426          | 08182022T21:04:00 | VL039600.D | 0.451          | 08262022T12:33:00 | VL039709.D | 0.445          | 10102022T23:30:00 |
| 0.394          | 08182022T21:04:00 | VL039600.D | 0.387          | 08262022T12:33:00 | VL039709.D | 0.427          | 10102022T23:30:00 |
| 0.314          | 08182022T21:04:00 | VL039600.D | 0.367          | 08262022T12:33:00 | VL039709.D | 0.373          | 10102022T23:30:00 |
| 0.342          | 08182022T21:04:00 | VL039600.D | 0.389          | 08262022T12:33:00 | VL039709.D | 0.389          | 10102022T23:30:00 |
| 0.361          | 08182022T21:04:00 | VL039600.D | 0.402          | 08262022T12:33:00 | VL039709.D | 0.375          | 10102022T23:30:00 |
| 0.408          | 08182022T21:04:00 | VL039600.D | 0.431          | 08262022T12:33:00 | VL039709.D | 0.448          | 10102022T23:30:00 |
| 0.411          | 08182022T21:04:00 | VL039600.D | 0.455          | 08262022T12:33:00 | VL039709.D | 0.418          | 10102022T23:30:00 |
| 0.444          | 08182022T21:04:00 | VL039600.D | 0.429          | 08262022T12:33:00 | VL039709.D | 0.373          | 10102022T23:30:00 |
| 0.331          | 08182022T21:04:00 | VL039600.D | 0.357          | 08262022T12:33:00 | VL039709.D | 0.342          | 10102022T23:30:00 |
| 0.405          | 08182022T21:04:00 | VL039600.D | 0.449          | 08262022T12:33:00 | VL039709.D | 0.422          | 10102022T23:30:00 |
| 0.368          | 08182022T21:04:00 | VL039600.D | 0.414          | 08262022T12:33:00 | VL039709.D | 0.399          | 10102022T23:30:00 |
| 0.404          | 08182022T21:04:00 | VL039600.D | 0.384          | 08262022T12:33:00 | VL039709.D | 0.439          | 10102022T23:30:00 |
| 0.373          | 08182022T21:04:00 | VL039600.D | 0.341          | 08262022T12:33:00 | VL039709.D | 0.418          | 10102022T23:30:00 |
| 0.348          | 08182022T21:04:00 | VL039600.D | 0.379          | 08262022T12:33:00 | VL039709.D | 0.392          | 10102022T23:30:00 |
| 0.314          | 08182022T21:04:00 | VL039600.D | 0.451          | 08262022T12:33:00 | VL039709.D | 0.354          | 10102022T23:30:00 |
| 0.312          | 08182022T21:04:00 | VL039600.D | 0.359          | 08262022T12:33:00 | VL039709.D | 0.348          | 10102022T23:30:00 |
| 0.27           | 08182022T21:04:00 | VL039600.D | 0.294          | 08262022T12:33:00 | VL039709.D | 0.326          | 10102022T23:30:00 |
| 0.284          | 08182022T21:04:00 | VL039600.D | 0.348          | 08262022T12:33:00 | VL039709.D | 0.355          | 10102022T23:30:00 |
| 0.322          | 08182022T21:04:00 | VL039600.D | 0.335          | 08262022T12:33:00 | VL039709.D | 0.32           | 10102022T23:30:00 |
| 0.363          | 08182022T21:04:00 | VL039600.D | 0.484          | 08262022T12:33:00 | VL039709.D | 0.5            | 10102022T23:30:00 |
| 0.418          | 08182022T21:04:00 | VL039600.D | 0.459          | 08262022T12:33:00 | VL039709.D | 0.379          | 10102022T23:30:00 |
| 0.345          | 08182022T21:04:00 | VL039600.D | 0.376          | 08262022T12:33:00 | VL039709.D | 0.398          | 10102022T23:30:00 |
| 0.394          | 08182022T21:04:00 | VL039600.D | 0.336          | 08262022T12:33:00 | VL039709.D | 0.356          | 10102022T23:30:00 |
| 0.382          | 08182022T21:04:00 | VL039600.D | 0.367          | 08262022T12:33:00 | VL039709.D | 0.377          | 10102022T23:30:00 |
| 0.408          | 08182022T21:04:00 | VL039600.D | 0.441          | 08262022T12:33:00 | VL039709.D | 0.388          | 10102022T23:30:00 |
| 0.305          | 08182022T21:04:00 | VL039600.D | 0.303          | 08262022T12:33:00 | VL039709.D | 0.293          | 10102022T23:30:00 |
| 0.364          | 08182022T21:04:00 | VL039600.D | 0.494          | 08262022T12:33:00 | VL039709.D | 0.464          | 10102022T23:30:00 |
| 0.399          | 08182022T21:04:00 | VL039600.D | 0.268          | 08262022T12:33:00 | VL039709.D | 0.332          | 10102022T23:30:00 |
| 0.03           | 08182022T22:24:00 | VL039586.D | 0.027          | 08252022T20:23:00 | VL039711.D | 0.03           | 10112022T00:45:00 |
| 0.431          | 08182022T21:04:00 | VL039600.D | 0.466          | 08262022T12:33:00 | VL039709.D | 0.46           | 10102022T23:30:00 |
| 0.456          | 08182022T21:04:00 | VL039600.D | 0.504          | 08262022T12:33:00 | VL039709.D | 0.446          | 10102022T23:30:00 |
| 0.462          | 08182022T21:04:00 | VL039600.D | 0.504          | 08262022T12:33:00 | VL039709.D | 0.531          | 10102022T23:30:00 |
| 0.423          | 08182022T21:04:00 | VL039600.D | 0.46           | 08262022T12:33:00 | VL039709.D | 0.411          | 10102022T23:30:00 |
| 0.392          | 08182022T21:04:00 | VL039600.D | 0.472          | 08262022T12:33:00 | VL039709.D | 0.485          | 10102022T23:30:00 |
| 0.36           | 08182022T21:04:00 | VL039600.D | 0.407          | 08262022T12:33:00 | VL039709.D | 0.438          | 10102022T23:30:00 |
| 0.277          | 08182022T21:04:00 | VL039600.D | 0.291          | 08262022T12:33:00 | VL039709.D | 0.284          | 10102022T23:30:00 |
| 0.376          | 08182022T21:04:00 | VL039600.D | 0.395          | 08262022T12:33:00 | VL039709.D | 0.383          | 10102022T23:30:00 |
| 0.339          | 08182022T21:04:00 | VL039600.D | 0.335          | 08262022T12:33:00 | VL039709.D | 0.301          | 10102022T23:30:00 |
| 0.62           | 08182022T21:04:00 | VL039600.D | 0.643          | 08262022T12:33:00 | VL039709.D | 0.694          | 10102022T23:30:00 |
| 0.454          | 08182022T21:04:00 | VL039600.D | 0.508          | 08262022T12:33:00 | VL039709.D | 0.473          | 10102022T23:30:00 |
| 0.341          | 08182022T21:04:00 | VL039600.D | 0.432          | 08262022T12:33:00 | VL039709.D | 0.395          | 10102022T23:30:00 |
| 0.297          | 08182022T21:04:00 | VL039600.D | 0.338          | 08262022T12:33:00 | VL039709.D | 0.334          | 10102022T23:30:00 |
| 0.347          | 08182022T21:04:00 | VL039600.D | 0.382          | 08262022T12:33:00 | VL039709.D | 0.407          | 10102022T23:30:00 |
| 0.447          | 08182022T21:04:00 | VL039600.D | 0.502          | 08262022T12:33:00 | VL039709.D | 0.468          | 10102022T23:30:00 |
| 0.385          | 08182022T21:04:00 | VL039600.D | 0.405          | 08262022T12:33:00 | VL039709.D | 0.435          | 10102022T23:30:00 |
| 0.458          | 08182022T21:04:00 | VL039600.D | 0.434          | 08262022T12:33:00 | VL039709.D | 0.481          | 10102022T23:30:00 |
| 0.361          | 08182022T21:04:00 | VL039600.D | 0.388          | 08262022T12:33:00 | VL039709.D | 0.405          | 10102022T23:30:00 |
| 0.673          | 08182022T21:04:00 | VL039600.D | 0.719          | 08262022T12:33:00 | VL039709.D | 0.688          | 10102022T23:30:00 |
| 0.3            | 08182022T21:04:00 | VL039600.D | 0.323          | 08262022T12:33:00 | VL039709.D | 0.346          | 10102022T23:30:00 |
| 0.337          | 08182022T21:04:00 | VL039600.D | 0.355          | 08262022T12:33:00 | VL039709.D | 0.396          | 10102022T23:30:00 |
| 0.536          | 08182022T21:04:00 | VL039600.D | 0.634          | 08262022T12:33:00 | VL039709.D | 0.499          | 10102022T23:30:00 |
| 0.28           | 08182022T21:04:00 | VL039600.D | 0.302          | 08262022T12:33:00 | VL039709.D | 0.291          | 10102022T23:30:00 |
| 0.158          | 08182022T21:04:00 | VL039600.D | 0.094          | 08262022T12:33:00 | VL039709.D | 0.149          | 10102022T23:30:00 |
| 0.321          | 08182022T21:04:00 | VL039600.D | 0.354          | 08262022T12:33:00 | VL039709.D | 0.358          | 10102022T23:30:00 |
| 0.332          | 08182022T21:04:00 | VL039600.D | 0.338          | 08262022T12:33:00 | VL039709.D | 0.347          | 10102022T23:30:00 |
| 0.315          | 08182022T21:04:00 | VL039600.D | 0.347          | 08262022T12:33:00 | VL039709.D | 0.354          | 10102022T23:30:00 |
| 0.316          | 08182022T21:04:00 | VL039600.D | 0.362          | 08262022T12:33:00 | VL039709.D | 0.358          | 10102022T23:30:00 |
| 0.499          | 08182022T21:04:00 | VL039600.D | 0.578          | 08262022T12:33:00 | VL039709.D | 0.533          | 10102022T23:30:00 |
| 0.359          | 08182022T21:04:00 | VL039600.D | 0.382          | 08262022T12:33:00 | VL039709.D | 0.371          | 10102022T23:30:00 |
| 0.23           | 08182022T21:04:00 | VL039600.D | 0.257          | 08262022T12:33:00 | VL039709.D | 0.278          | 10102022T23:30:00 |
| 0.252          | 08182022T21:04:00 | VL039600.D | 0.252          | 08262022T12:33:00 | VL039709.D | 0.273          | 10102022T23:30:00 |
| 0.384          | 08182022T21:04:00 | VL039600.D | 0.382          | 08262022T12:33:00 | VL039709.D | 0.454          | 10102022T23:30:00 |
| 0.345          | 08182022T21:04:00 | VL039600.D | 0.399          | 08262022T12:33:00 | VL039709.D | 0.371          | 10102022T23:30:00 |
| 0.03           | 08182022T22:24:00 | VL039586.D | 0.038          | 08252022T20:23:00 | VL039711.D | 0.03           | 10112022T00:45:00 |
| 0.299          | 08182022T21:04:00 | VL039600.D | 0.344          | 08262022T12:33:00 | VL039709.D | 0.389          | 10102022T23:30:00 |
| 0.288          | 08182022T21:04:00 | VL039600.D | 0.296          | 08262022T12:33:00 | VL039709.D | 0.33           | 10102022T23:30:00 |
| 0.375          | 08182022T21:04:00 | VL039600.D | 0.466          | 08262022T12:33:00 | VL039709.D | 0.437          | 10102022T23:30:00 |
| 0.03           | 08182022T22:24:00 | VL039586.D | 0.031          | 08252022T20:23:00 | VL039711.D | 0.04           | 10112022T00:45:00 |
| 0.436          | 08182022T21:04:00 | VL039600.D | 0.47           | 08262022T12:33:00 | VL039709.D | 0.385          | 10102022T23:30:00 |
| 0.42           | 08182022T21:04:00 | VL039600.D | 0.483          | 08262022T12:33:00 | VL039709.D | 0.363          | 10102022T23:30:00 |
| 0.03           | 08182022T22:24:00 | VL039586.D | 0.029          | 08252022T20:23:00 | VL039711.D | 0.03           | 10112022T00:45:00 |
| 0.636          | 07272023T03:27:00 | VL040579.D | 0.42           | 07312023T19:20:00 | VL040747.D | 0.607          | 10042023T19:33:00 |

| Datafile8  | Concentration8 | Adate8            | Datafile9  | Concentration9 | Adate9            | Datafile10 | Concentration10 |
|------------|----------------|-------------------|------------|----------------|-------------------|------------|-----------------|
| VL040134.D | 0.42           | 01302023T15:54:00 | VL040210.D | 0.383          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040136.D | 0.03           | 01302023T17:08:00 | VL040222.D | 0.038          | 02232023T14:26:00 | VL040223.D | 0.033           |
| VL040136.D | 0.03           | 01302023T17:08:00 | VL040222.D | 0.032          | 02232023T14:26:00 | VL040223.D | 0.027           |
| VL040134.D | 0.41           | 01302023T15:54:00 | VL040210.D | 0.395          | 02222023T00:52:00 | VL040220.D | 0.43            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.476          | 02222023T00:52:00 | VL040220.D | 0.47            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.436          | 02222023T00:52:00 | VL040220.D | 0.45            |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.452          | 02222023T00:52:00 | VL040220.D | 0.45            |
| VL040134.D | 0.32           | 01302023T15:54:00 | VL040210.D | 0.299          | 02222023T00:52:00 | VL040220.D | 0.32            |
| VL040134.D | 0.37           | 01302023T15:54:00 | VL040210.D | 0.375          | 02222023T00:52:00 | VL040220.D | 0.37            |
| VL040134.D | 0.39           | 01302023T15:54:00 | VL040210.D | 0.38           | 02222023T00:52:00 | VL040220.D | 0.38            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.378          | 02222023T00:52:00 | VL040220.D | 0.43            |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.434          | 02222023T00:52:00 | VL040220.D | 0.44            |
| VL040134.D | 0.41           | 01302023T15:54:00 | VL040210.D | 0.432          | 02222023T00:52:00 | VL040220.D | 0.43            |
| VL040134.D | 0.35           | 01302023T15:54:00 | VL040210.D | 0.344          | 02222023T00:52:00 | VL040220.D | 0.34            |
| VL040134.D | 0.43           | 01302023T15:54:00 | VL040210.D | 0.396          | 02222023T00:52:00 | VL040220.D | 0.41            |
| VL040134.D | 0.37           | 01302023T15:54:00 | VL040210.D | 0.395          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.402          | 02222023T00:52:00 | VL040220.D | 0.4             |
| VL040134.D | 0.41           | 01302023T15:54:00 | VL040210.D | 0.387          | 02222023T00:52:00 | VL040220.D | 0.43            |
| VL040134.D | 0.39           | 01302023T15:54:00 | VL040210.D | 0.352          | 02222023T00:52:00 | VL040220.D | 0.38            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.416          | 02222023T00:52:00 | VL040220.D | 0.44            |
| VL040134.D | 0.36           | 01302023T15:54:00 | VL040210.D | 0.34           | 02222023T00:52:00 | VL040220.D | 0.36            |
| VL040134.D | 0.32           | 01302023T15:54:00 | VL040210.D | 0.318          | 02222023T00:52:00 | VL040220.D | 0.34            |
| VL040134.D | 0.35           | 01302023T15:54:00 | VL040210.D | 0.321          | 02222023T00:52:00 | VL040220.D | 0.36            |
| VL040134.D | 0.36           | 01302023T15:54:00 | VL040210.D | 0.337          | 02222023T00:52:00 | VL040220.D | 0.37            |
| VL040134.D | 0.45           | 01302023T15:54:00 | VL040210.D | 0.482          | 02222023T00:52:00 | VL040220.D | 0.5             |
| VL040134.D | 0.36           | 01302023T15:54:00 | VL040210.D | 0.411          | 02222023T00:52:00 | VL040220.D | 0.45            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.359          | 02222023T00:52:00 | VL040220.D | 0.39            |
| VL040134.D | 0.29           | 01302023T15:54:00 | VL040210.D | 0.311          | 02222023T00:52:00 | VL040220.D | 0.38            |
| VL040134.D | 0.37           | 01302023T15:54:00 | VL040210.D | 0.378          | 02222023T00:52:00 | VL040220.D | 0.38            |
| VL040134.D | 0.37           | 01302023T15:54:00 | VL040210.D | 0.413          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040134.D | 0.32           | 01302023T15:54:00 | VL040210.D | 0.32           | 02222023T00:52:00 | VL040220.D | 0.33            |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.408          | 02222023T00:52:00 | VL040220.D | 0.49            |
| VL040134.D | 0.31           | 01302023T15:54:00 | VL040210.D | 0.391          | 02222023T00:52:00 | VL040220.D | 0.37            |
| VL040136.D | 0.03           | 01302023T17:08:00 | VL040222.D | 0.033          | 02232023T14:26:00 | VL040223.D | 0.037           |
| VL040134.D | 0.44           | 01302023T15:54:00 | VL040210.D | 0.414          | 02222023T00:52:00 | VL040220.D | 0.45            |
| VL040134.D | 0.43           | 01302023T15:54:00 | VL040210.D | 0.474          | 02222023T00:52:00 | VL040220.D | 0.46            |
| VL040134.D | 0.37           | 01302023T15:54:00 | VL040210.D | 0.416          | 02222023T00:52:00 | VL040220.D | 0.44            |
| VL040134.D | 0.47           | 01302023T15:54:00 | VL040210.D | 0.445          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040134.D | 0.46           | 01302023T15:54:00 | VL040210.D | 0.443          | 02222023T00:52:00 | VL040220.D | 0.47            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.435          | 02222023T00:52:00 | VL040220.D | 0.38            |
| VL040134.D | 0.33           | 01302023T15:54:00 | VL040210.D | 0.284          | 02222023T00:52:00 | VL040220.D | 0.34            |
| VL040134.D | 0.49           | 01302023T15:54:00 | VL040210.D | 0.521          | 02222023T00:52:00 | VL040220.D | 0.34            |
| VL040134.D | 0.35           | 01302023T15:54:00 | VL040210.D | 0.343          | 02222023T00:52:00 | VL040220.D | 0.34            |
| VL040134.D | 0.48           | 01302023T15:54:00 | VL040210.D | 0.497          | 02222023T00:52:00 | VL040220.D | 0.49            |
| VL040134.D | 0.43           | 01302023T15:54:00 | VL040210.D | 0.431          | 02222023T00:52:00 | VL040220.D | 0.46            |
| VL040134.D | 0.39           | 01302023T15:54:00 | VL040210.D | 0.398          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040134.D | 0.36           | 01302023T15:54:00 | VL040210.D | 0.309          | 02222023T00:52:00 | VL040220.D | 0.33            |
| VL040134.D | 0.34           | 01302023T15:54:00 | VL040210.D | 0.336          | 02222023T00:52:00 | VL040220.D | 0.37            |
| VL040134.D | 0.43           | 01302023T15:54:00 | VL040210.D | 0.421          | 02222023T00:52:00 | VL040220.D | 0.44            |
| VL040134.D | 0.41           | 01302023T15:54:00 | VL040210.D | 0.4            | 02222023T00:52:00 | VL040220.D | 0.41            |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.479          | 02222023T00:52:00 | VL040220.D | 0.48            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.361          | 02222023T00:52:00 | VL040220.D | 0.4             |
| VL040134.D | 0.71           | 01302023T15:54:00 | VL040210.D | 0.699          | 02222023T00:52:00 | VL040220.D | 0.75            |
| VL040134.D | 0.35           | 01302023T15:54:00 | VL040210.D | 0.314          | 02222023T00:52:00 | VL040220.D | 0.35            |
| VL040134.D | 0.38           | 01302023T15:54:00 | VL040210.D | 0.421          | 02222023T00:52:00 | VL040220.D | 0.41            |
| VL040134.D | 0.44           | 01302023T15:54:00 | VL040210.D | 0.558          | 02222023T00:52:00 | VL040220.D | 0.57            |
| VL040134.D | 0.27           | 01302023T15:54:00 | VL040210.D | 0.246          | 02222023T00:52:00 | VL040220.D | 0.27            |
| VL040134.D | 0.19           | 01302023T15:54:00 | VL040210.D | 0.116          | 02222023T00:52:00 | VL040220.D | 0.21            |
| VL040134.D | 0.34           | 01302023T15:54:00 | VL040210.D | 0.349          | 02222023T00:52:00 | VL040220.D | 0.35            |
| VL040134.D | 0.34           | 01302023T15:54:00 | VL040210.D | 0.354          | 02222023T00:52:00 | VL040220.D | 0.36            |
| VL040134.D | 0.34           | 01302023T15:54:00 | VL040210.D | 0.331          | 02222023T00:52:00 | VL040220.D | 0.36            |
| VL040134.D | 0.33           | 01302023T15:54:00 | VL040210.D | 0.329          | 02222023T00:52:00 | VL040220.D | 0.34            |
| VL040134.D | 0.42           | 01302023T15:54:00 | VL040210.D | 0.432          | 02222023T00:52:00 | VL040220.D | 0.43            |
| VL040134.D | 0.36           | 01302023T15:54:00 | VL040210.D | 0.352          | 02222023T00:52:00 | VL040220.D | 0.37            |
| VL040134.D | 0.29           | 01302023T15:54:00 | VL040210.D | 0.262          | 02222023T00:52:00 | VL040220.D | 0.27            |
| VL040134.D | 0.3            | 01302023T15:54:00 | VL040210.D | 0.292          | 02222023T00:52:00 | VL040220.D | 0.3             |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.395          | 02222023T00:52:00 | VL040220.D | 0.44            |
| VL040134.D | 0.35           | 01302023T15:54:00 | VL040210.D | 0.349          | 02222023T00:52:00 | VL040220.D | 0.36            |
| VL040136.D | 0.03           | 01302023T17:08:00 | VL040222.D | 0.029          | 02232023T14:26:00 | VL040223.D | 0.031           |
| VL040134.D | 0.42           | 01302023T15:54:00 | VL040210.D | 0.368          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040134.D | 0.34           | 01302023T15:54:00 | VL040210.D | 0.297          | 02222023T00:52:00 | VL040220.D | 0.33            |
| VL040134.D | 0.35           | 01302023T15:54:00 | VL040210.D | 0.397          | 02222023T00:52:00 | VL040220.D | 0.42            |
| VL040136.D | 0.03           | 01302023T17:08:00 | VL040222.D | 0.027          | 02232023T14:26:00 | VL040223.D | 0.028           |
| VL040134.D | 0.4            | 01302023T15:54:00 | VL040210.D | 0.451          | 02222023T00:52:00 | VL040220.D | 0.45            |
| VL040134.D | 0.39           | 01302023T15:54:00 | VL040210.D | 0.438          | 02222023T00:52:00 | VL040220.D | 0.4             |
| VL040136.D | 0.03           | 01302023T17:08:00 | VL040222.D | 0.033          | 02232023T14:26:00 | VL040223.D | 0.038           |
| VL040805.D | 0.675          | 10252023T18:12:00 |            |                |                   |            |                 |



| Adate10           | Datafile11 | Concentration11 | Adate11           | Datafile12 | Concentration1<br>2 | Adate12           | Datafile13 |
|-------------------|------------|-----------------|-------------------|------------|---------------------|-------------------|------------|
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.434               | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.028           | 04102023T19:33:00 | VL040346.D | 0.027               | 04122023T19:50:00 | VL040576.D |
| 02232023T15:04:00 | VL040332.D | 0.023           | 04102023T19:33:00 | VL040346.D | 0.03                | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.41            | 04102023T17:39:00 | VL040349.D | 0.403               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.42            | 04102023T17:39:00 | VL040349.D | 0.429               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.43            | 04102023T17:39:00 | VL040349.D | 0.4                 | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.44            | 04102023T17:39:00 | VL040349.D | 0.419               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.3             | 04102023T17:39:00 | VL040349.D | 0.302               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.34            | 04102023T17:39:00 | VL040349.D | 0.362               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37            | 04102023T17:39:00 | VL040349.D | 0.398               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38            | 04102023T17:39:00 | VL040349.D | 0.402               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.427               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.41            | 04102023T17:39:00 | VL040349.D | 0.385               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33            | 04102023T17:39:00 | VL040349.D | 0.311               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38            | 04102023T17:39:00 | VL040349.D | 0.448               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38            | 04102023T17:39:00 | VL040349.D | 0.392               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.39            | 04102023T17:39:00 | VL040349.D | 0.402               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33            | 04102023T17:39:00 | VL040349.D | 0.33                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35            | 04102023T17:39:00 | VL040349.D | 0.356               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.451               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32            | 04102023T17:39:00 | VL040349.D | 0.31                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.28            | 04102023T17:39:00 | VL040349.D | 0.29                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32            | 04102023T17:39:00 | VL040349.D | 0.303               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33            | 04102023T17:39:00 | VL040349.D | 0.339               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.58            | 04102023T17:39:00 | VL040349.D | 0.582               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.39            | 04102023T17:39:00 | VL040349.D | 0.402               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37            | 04102023T17:39:00 | VL040349.D | 0.365               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37            | 04102023T17:39:00 | VL040349.D | 0.421               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38            | 04102023T17:39:00 | VL040349.D | 0.397               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.41            | 04102023T17:39:00 | VL040349.D | 0.415               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.31            | 04102023T17:39:00 | VL040349.D | 0.337               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.44            | 04102023T17:39:00 | VL040349.D | 0.51                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.34            | 04102023T17:39:00 | VL040349.D | 0.342               | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.028           | 04102023T19:33:00 | VL040346.D | 0.025               | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.433               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.453               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.4             | 04102023T17:39:00 | VL040349.D | 0.487               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.43            | 04102023T17:39:00 | VL040349.D | 0.456               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.47            | 04102023T17:39:00 | VL040349.D | 0.455               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38            | 04102023T17:39:00 | VL040349.D | 0.376               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.29            | 04102023T17:39:00 | VL040349.D | 0.287               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.29            | 04102023T17:39:00 | VL040349.D | 0.35                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35            | 04102023T17:39:00 | VL040349.D | 0.339               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.51            | 04102023T17:39:00 | VL040349.D | 0.483               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.46            | 04102023T17:39:00 | VL040349.D | 0.467               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.39            | 04102023T17:39:00 | VL040349.D | 0.394               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32            | 04102023T17:39:00 | VL040349.D | 0.31                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33            | 04102023T17:39:00 | VL040349.D | 0.336               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.441               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37            | 04102023T17:39:00 | VL040349.D | 0.365               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.47            | 04102023T17:39:00 | VL040349.D | 0.442               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.38            | 04102023T17:39:00 | VL040349.D | 0.363               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.66            | 04102023T17:39:00 | VL040349.D | 0.659               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.31            | 04102023T17:39:00 | VL040349.D | 0.305               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.41            | 04102023T17:39:00 | VL040349.D | 0.362               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.47            | 04102023T17:39:00 | VL040349.D | 0.533               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.26            | 04102023T17:39:00 | VL040349.D | 0.261               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.21            | 04102023T17:39:00 | VL040349.D | 0.19                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.33            | 04102023T17:39:00 | VL040349.D | 0.334               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35            | 04102023T17:39:00 | VL040349.D | 0.345               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.31            | 04102023T17:39:00 | VL040349.D | 0.327               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.32            | 04102023T17:39:00 | VL040349.D | 0.314               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.42            | 04102023T17:39:00 | VL040349.D | 0.465               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.35            | 04102023T17:39:00 | VL040349.D | 0.335               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.26            | 04102023T17:39:00 | VL040349.D | 0.257               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.27            | 04102023T17:39:00 | VL040349.D | 0.256               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.46            | 04102023T17:39:00 | VL040349.D | 0.427               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.34            | 04102023T17:39:00 | VL040349.D | 0.327               | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.022           | 04102023T19:33:00 | VL040346.D | 0.029               | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.3             | 04102023T17:39:00 | VL040349.D | 0.347               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.29            | 04102023T17:39:00 | VL040349.D | 0.291               | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37            | 04102023T17:39:00 | VL040349.D | 0.391               | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.029           | 04102023T19:33:00 | VL040346.D | 0.028               | 04122023T19:50:00 | VL040576.D |
| 02232023T13:12:00 | VL040329.D | 0.45            | 04102023T17:39:00 | VL040349.D | 0.47                | 04122023T23:23:00 | VL040559.D |
| 02232023T13:12:00 | VL040329.D | 0.37            | 04102023T17:39:00 | VL040349.D | 0.58                | 04122023T23:23:00 | VL040559.D |
| 02232023T15:04:00 | VL040332.D | 0.024           | 04102023T19:33:00 | VL040346.D | 0.029               | 04122023T19:50:00 | VL040576.D |

| Concentration13 | Adate13           | Datafile14 | Concentration14 | Adate14           | Datafile15 | Concentration15 | Adate15           |
|-----------------|-------------------|------------|-----------------|-------------------|------------|-----------------|-------------------|
| 0.48            | 07272023T03:27:00 | VL040579.D | 0.42            | 07312023T19:20:00 | VL040747.D | 0.488           | 10042023T19:33:00 |
| 0.03            | 07312023T17:18:00 | VL040581.D | 0.031           | 07312023T20:41:00 | VL040772.D | 0.035           | 10122023T01:48:00 |
| 0.031           | 07312023T17:18:00 | VL040581.D | 0.026           | 07312023T20:41:00 | VL040772.D | 0.029           | 10122023T01:48:00 |
| 0.459           | 07272023T03:27:00 | VL040579.D | 0.36            | 07312023T19:20:00 | VL040747.D | 0.405           | 10042023T19:33:00 |
| 0.573           | 07272023T03:27:00 | VL040579.D | 0.5             | 07312023T19:20:00 | VL040747.D | 0.557           | 10042023T19:33:00 |
| 0.535           | 07272023T03:27:00 | VL040579.D | 0.43            | 07312023T19:20:00 | VL040747.D | 0.527           | 10042023T19:33:00 |
| 0.527           | 07272023T03:27:00 | VL040579.D | 0.42            | 07312023T19:20:00 | VL040747.D | 0.481           | 10042023T19:33:00 |
| 0.33            | 07272023T03:27:00 | VL040579.D | 0.23            | 07312023T19:20:00 | VL040747.D | 0.305           | 10042023T19:33:00 |
| 0.389           | 07272023T03:27:00 | VL040579.D | 0.3             | 07312023T19:20:00 | VL040747.D | 0.361           | 10042023T19:33:00 |
| 0.425           | 07272023T03:27:00 | VL040579.D | 0.32            | 07312023T19:20:00 | VL040747.D | 0.359           | 10042023T19:33:00 |
| 0.442           | 07272023T03:27:00 | VL040579.D | 0.36            | 07312023T19:20:00 | VL040747.D | 0.45            | 10042023T19:33:00 |
| 0.519           | 07272023T03:27:00 | VL040579.D | 0.41            | 07312023T19:20:00 | VL040747.D | 0.426           | 10042023T19:33:00 |
| 0.452           | 07272023T03:27:00 | VL040579.D | 0.36            | 07312023T19:20:00 | VL040747.D | 0.42            | 10042023T19:33:00 |
| 0.33            | 07272023T03:27:00 | VL040579.D | 0.26            | 07312023T19:20:00 | VL040747.D | 0.321           | 10042023T19:33:00 |
| 0.412           | 07272023T03:27:00 | VL040579.D | 0.41            | 07312023T19:20:00 | VL040747.D | 0.466           | 10042023T19:33:00 |
| 0.388           | 07272023T03:27:00 | VL040579.D | 0.33            | 07312023T19:20:00 | VL040747.D | 0.412           | 10042023T19:33:00 |
| 0.438           | 07272023T03:27:00 | VL040579.D | 0.36            | 07312023T19:20:00 | VL040747.D | 0.382           | 10042023T19:33:00 |
| 0.373           | 07272023T03:27:00 | VL040579.D | 0.29            | 07312023T19:20:00 | VL040747.D | 0.257           | 10042023T19:33:00 |
| 0.398           | 07272023T03:27:00 | VL040579.D | 0.27            | 07312023T19:20:00 | VL040747.D | 0.335           | 10042023T19:33:00 |
| 0.448           | 07272023T03:27:00 | VL040579.D | 0.37            | 07312023T19:20:00 | VL040747.D | 0.443           | 10042023T19:33:00 |
| 0.35            | 07272023T03:27:00 | VL040579.D | 0.27            | 07312023T19:20:00 | VL040747.D | 0.325           | 10042023T19:33:00 |
| 0.303           | 07272023T03:27:00 | VL040579.D | 0.22            | 07312023T19:20:00 | VL040747.D | 0.283           | 10042023T19:33:00 |
| 0.32            | 07272023T03:27:00 | VL040579.D | 0.23            | 07312023T19:20:00 | VL040747.D | 0.317           | 10042023T19:33:00 |
| 0.348           | 07272023T03:27:00 | VL040579.D | 0.27            | 07312023T19:20:00 | VL040747.D | 0.302           | 10042023T19:33:00 |
| 0.674           | 07272023T03:27:00 | VL040579.D | 0.48            | 07312023T19:20:00 | VL040747.D | 0.65            | 10042023T19:33:00 |
| 0.436           | 07272023T03:27:00 | VL040579.D | 0.37            | 07312023T19:20:00 | VL040747.D | 0.511           | 10042023T19:33:00 |
| 0.397           | 07272023T03:27:00 | VL040579.D | 0.3             | 07312023T19:20:00 | VL040747.D | 0.386           | 10042023T19:33:00 |
| 0.425           | 07272023T03:27:00 | VL040579.D | 0.34            | 07312023T19:20:00 | VL040747.D | 0.307           | 10042023T19:33:00 |
| 0.467           | 07272023T03:27:00 | VL040579.D | 0.4             | 07312023T19:20:00 | VL040747.D | 0.409           | 10042023T19:33:00 |
| 0.508           | 07272023T03:27:00 | VL040579.D | 0.42            | 07312023T19:20:00 | VL040747.D | 0.506           | 10042023T19:33:00 |
| 0.352           | 07272023T03:27:00 | VL040579.D | 0.33            | 07312023T19:20:00 | VL040747.D | 0.349           | 10042023T19:33:00 |
| 0.543           | 07272023T03:27:00 | VL040579.D | 0.46            | 07312023T19:20:00 | VL040747.D | 0.496           | 10042023T19:33:00 |
| 0.46            | 07272023T03:27:00 | VL040579.D | 0.42            | 07312023T19:20:00 | VL040747.D | 0.477           | 10042023T19:33:00 |
| 0.036           | 07312023T17:18:00 | VL040581.D | 0.033           | 07312023T20:41:00 | VL040772.D | 0.031           | 10122023T01:48:00 |
| 0.481           | 07272023T03:27:00 | VL040579.D | 0.38            | 07312023T19:20:00 | VL040747.D | 0.489           | 10042023T19:33:00 |
| 0.526           | 07272023T03:27:00 | VL040579.D | 0.45            | 07312023T19:20:00 | VL040747.D | 0.55            | 10042023T19:33:00 |
| 0.516           | 07272023T03:27:00 | VL040579.D | 0.43            | 07312023T19:20:00 | VL040747.D | 0.576           | 10042023T19:33:00 |
| 0.521           | 07272023T03:27:00 | VL040579.D | 0.41            | 07312023T19:20:00 | VL040747.D | 0.501           | 10042023T19:33:00 |
| 0.486           | 07272023T03:27:00 | VL040579.D | 0.39            | 07312023T19:20:00 | VL040747.D | 0.544           | 10042023T19:33:00 |
| 0.405           | 07272023T03:27:00 | VL040579.D | 0.32            | 07312023T19:20:00 | VL040747.D | 0.431           | 10042023T19:33:00 |
| 0.295           | 07272023T03:27:00 | VL040579.D | 0.25            | 07312023T19:20:00 | VL040747.D | 0.298           | 10042023T19:33:00 |
| 0.301           | 07272023T03:27:00 | VL040579.D | 0.21            | 07312023T19:20:00 | VL040747.D | 0.317           | 10042023T19:33:00 |
| 0.403           | 07272023T03:27:00 | VL040579.D | 0.35            | 07312023T19:20:00 | VL040747.D | 0.381           | 10042023T19:33:00 |
| 0.54            | 07272023T03:27:00 | VL040579.D | 0.47            | 07312023T19:20:00 | VL040747.D | 0.562           | 10042023T19:33:00 |
| 0.516           | 07272023T03:27:00 | VL040579.D | 0.46            | 07312023T19:20:00 | VL040747.D | 0.509           | 10042023T19:33:00 |
| 0.424           | 07272023T03:27:00 | VL040579.D | 0.34            | 07312023T19:20:00 | VL040747.D | 0.441           | 10042023T19:33:00 |
| 0.32            | 07272023T03:27:00 | VL040579.D | 0.21            | 07312023T19:20:00 | VL040747.D | 0.299           | 10042023T19:33:00 |
| 0.341           | 07272023T03:27:00 | VL040579.D | 0.25            | 07312023T19:20:00 | VL040747.D | 0.355           | 10042023T19:33:00 |
| 0.466           | 07272023T03:27:00 | VL040579.D | 0.37            | 07312023T19:20:00 | VL040747.D | 0.479           | 10042023T19:33:00 |
| 0.38            | 07272023T03:27:00 | VL040579.D | 0.31            | 07312023T19:20:00 | VL040747.D | 0.465           | 10042023T19:33:00 |
| 0.451           | 07272023T03:27:00 | VL040579.D | 0.43            | 07312023T19:20:00 | VL040747.D | 0.426           | 10042023T19:33:00 |
| 0.379           | 07272023T03:27:00 | VL040579.D | 0.29            | 07312023T19:20:00 | VL040747.D | 0.386           | 10042023T19:33:00 |
| 0.735           | 07272023T03:27:00 | VL040579.D | 0.54            | 07312023T19:20:00 | VL040747.D | 0.682           | 10042023T19:33:00 |
| 0.283           | 07272023T03:27:00 | VL040579.D | 0.23            | 07312023T19:20:00 | VL040747.D | 0.324           | 10042023T19:33:00 |
| 0.468           | 07272023T03:27:00 | VL040579.D | 0.38            | 07312023T19:20:00 | VL040747.D | 0.472           | 10042023T19:33:00 |
| 0.619           | 07272023T03:27:00 | VL040579.D | 0.62            | 07312023T19:20:00 | VL040747.D | 0.625           | 10042023T19:33:00 |
| 0.274           | 07272023T03:27:00 | VL040579.D | 0.19            | 07312023T19:20:00 | VL040747.D | 0.258           | 10042023T19:33:00 |
| 0.107           | 07272023T03:27:00 | VL040579.D | 0.06            | 07312023T19:20:00 | VL040747.D | 0.133           | 10042023T19:33:00 |
| 0.361           | 07272023T03:27:00 | VL040579.D | 0.27            | 07312023T19:20:00 | VL040747.D | 0.343           | 10042023T19:33:00 |
| 0.355           | 07272023T03:27:00 | VL040579.D | 0.27            | 07312023T19:20:00 | VL040747.D | 0.369           | 10042023T19:33:00 |
| 0.355           | 07272023T03:27:00 | VL040579.D | 0.26            | 07312023T19:20:00 | VL040747.D | 0.301           | 10042023T19:33:00 |
| 0.357           | 07272023T03:27:00 | VL040579.D | 0.26            | 07312023T19:20:00 | VL040747.D | 0.313           | 10042023T19:33:00 |
| 0.436           | 07272023T03:27:00 | VL040579.D | 0.34            | 07312023T19:20:00 | VL040747.D | 0.471           | 10042023T19:33:00 |
| 0.393           | 07272023T03:27:00 | VL040579.D | 0.29            | 07312023T19:20:00 | VL040747.D | 0.354           | 10042023T19:33:00 |
| 0.242           | 07272023T03:27:00 | VL040579.D | 0.17            | 07312023T19:20:00 | VL040747.D | 0.266           | 10042023T19:33:00 |
| 0.283           | 07272023T03:27:00 | VL040579.D | 0.23            | 07312023T19:20:00 | VL040747.D | 0.312           | 10042023T19:33:00 |
| 0.539           | 07272023T03:27:00 | VL040579.D | 0.43            | 07312023T19:20:00 | VL040747.D | 0.394           | 10042023T19:33:00 |
| 0.366           | 07272023T03:27:00 | VL040579.D | 0.28            | 07312023T19:20:00 | VL040747.D | 0.381           | 10042023T19:33:00 |
| 0.025           | 07312023T17:18:00 | VL040581.D | 0.028           | 07312023T20:41:00 | VL040772.D | 0.044           | 10122023T01:48:00 |
| 0.353           | 07272023T03:27:00 | VL040579.D | 0.26            | 07312023T19:20:00 | VL040747.D | 0.351           | 10042023T19:33:00 |
| 0.285           | 07272023T03:27:00 | VL040579.D | 0.2             | 07312023T19:20:00 | VL040747.D | 0.288           | 10042023T19:33:00 |
| 0.477           | 07272023T03:27:00 | VL040579.D | 0.4             | 07312023T19:20:00 | VL040747.D | 0.507           | 10042023T19:33:00 |
| 0.027           | 07312023T17:18:00 | VL040581.D | 0.027           | 07312023T20:41:00 | VL040772.D | 0.039           | 10122023T01:48:00 |
| 0.589           | 07272023T03:27:00 | VL040579.D | 0.52            | 07312023T19:20:00 | VL040747.D | 0.561           | 10042023T19:33:00 |
| 0.487           | 07272023T03:27:00 | VL040579.D | 0.46            | 07312023T19:20:00 | VL040747.D | 0.456           | 10042023T19:33:00 |
| 0.03            | 07312023T17:18:00 | VL040581.D | 0.033           | 07312023T20:41:00 | VL040772.D | 0.041           | 10122023T01:48:00 |

| Datafile16 | Concentration16 | Adate16           | Department | AVG<br>Concentration | Recovery |
|------------|-----------------|-------------------|------------|----------------------|----------|
| VL040805.D | 0.428           | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040787.D | 0.04            | 10232023T20:32:00 | VOC        | 0.032                | 110      |
| VL040787.D | 0.04            | 10232023T20:32:00 | VOC        | 0.03                 | 100      |
| VL040805.D | 0.471           | 10252023T18:12:00 | VOC        | 0.42                 | 110      |
| VL040805.D | 0.476           | 10252023T18:12:00 | VOC        | 0.48                 | 120      |
| VL040805.D | 0.427           | 10252023T18:12:00 | VOC        | 0.46                 | 110      |
| VL040805.D | 0.47            | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040805.D | 0.288           | 10252023T18:12:00 | VOC        | 0.31                 | 79       |
| VL040805.D | 0.435           | 10252023T18:12:00 | VOC        | 0.37                 | 93       |
| VL040805.D | 0.433           | 10252023T18:12:00 | VOC        | 0.38                 | 95       |
| VL040805.D | 0.405           | 10252023T18:12:00 | VOC        | 0.41                 | 100      |
| VL040805.D | 0.501           | 10252023T18:12:00 | VOC        | 0.44                 | 110      |
| VL040805.D | 0.456           | 10252023T18:12:00 | VOC        | 0.42                 | 100      |
| VL040805.D | 0.403           | 10252023T18:12:00 | VOC        | 0.35                 | 87       |
| VL040805.D | 0.455           | 10252023T18:12:00 | VOC        | 0.44                 | 110      |
| VL040805.D | 0.412           | 10252023T18:12:00 | VOC        | 0.4                  | 100      |
| VL040805.D | 0.414           | 10252023T18:12:00 | VOC        | 0.4                  | 100      |
| VL040805.D | 0.486           | 10252023T18:12:00 | VOC        | 0.38                 | 96       |
| VL040805.D | 0.434           | 10252023T18:12:00 | VOC        | 0.37                 | 93       |
| VL040805.D | 0.467           | 10252023T18:12:00 | VOC        | 0.42                 | 100      |
| VL040805.D | 0.42            | 10252023T18:12:00 | VOC        | 0.35                 | 88       |
| VL040805.D | 0.353           | 10252023T18:12:00 | VOC        | 0.3                  | 75       |
| VL040805.D | 0.397           | 10252023T18:12:00 | VOC        | 0.34                 | 84       |
| VL040805.D | 0.403           | 10252023T18:12:00 | VOC        | 0.34                 | 84       |
| VL040805.D | 0.576           | 10252023T18:12:00 | VOC        | 0.53                 | 130      |
| VL040805.D | 0.422           | 10252023T18:12:00 | VOC        | 0.43                 | 110      |
| VL040805.D | 0.445           | 10252023T18:12:00 | VOC        | 0.38                 | 96       |
| VL040805.D | 0.205           | 10252023T18:12:00 | VOC        | 0.36                 | 91       |
| VL040805.D | 0.458           | 10252023T18:12:00 | VOC        | 0.4                  | 100      |
| VL040805.D | 0.436           | 10252023T18:12:00 | VOC        | 0.44                 | 110      |
| VL040805.D | 0.34            | 10252023T18:12:00 | VOC        | 0.33                 | 82       |
| VL040805.D | 0.508           | 10252023T18:12:00 | VOC        | 0.47                 | 120      |
| VL040805.D | 0.361           | 10252023T18:12:00 | VOC        | 0.38                 | 95       |
| VL040787.D | 0.04            | 10232023T20:32:00 | VOC        | 0.031                | 100      |
| VL040805.D | 0.454           | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040805.D | 0.517           | 10252023T18:12:00 | VOC        | 0.48                 | 120      |
| VL040805.D | 0.435           | 10252023T18:12:00 | VOC        | 0.47                 | 120      |
| VL040805.D | 0.487           | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040805.D | 0.458           | 10252023T18:12:00 | VOC        | 0.46                 | 120      |
| VL040805.D | 0.435           | 10252023T18:12:00 | VOC        | 0.4                  | 99       |
| VL040805.D | 0.335           | 10252023T18:12:00 | VOC        | 0.3                  | 75       |
| VL040805.D | 0.416           | 10252023T18:12:00 | VOC        | 0.39                 | 96       |
| VL040805.D | 0.384           | 10252023T18:12:00 | VOC        | 0.36                 | 89       |
| VL040805.D | 0.516           | 10252023T18:12:00 | VOC        | 0.54                 | 140      |
| VL040805.D | 0.505           | 10252023T18:12:00 | VOC        | 0.48                 | 120      |
| VL040805.D | 0.404           | 10252023T18:12:00 | VOC        | 0.4                  | 100      |
| VL040805.D | 0.406           | 10252023T18:12:00 | VOC        | 0.33                 | 82       |
| VL040805.D | 0.404           | 10252023T18:12:00 | VOC        | 0.35                 | 88       |
| VL040805.D | 0.446           | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040805.D | 0.452           | 10252023T18:12:00 | VOC        | 0.4                  | 100      |
| VL040805.D | 0.442           | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040805.D | 0.435           | 10252023T18:12:00 | VOC        | 0.38                 | 96       |
| VL040805.D | 0.888           | 10252023T18:12:00 | VOC        | 0.72                 | 180      |
| VL040805.D | 0.348           | 10252023T18:12:00 | VOC        | 0.32                 | 80       |
| VL040805.D | 0.353           | 10252023T18:12:00 | VOC        | 0.41                 | 100      |
| VL040805.D | 0.619           | 10252023T18:12:00 | VOC        | 0.56                 | 140      |
| VL040805.D | 0.226           | 10252023T18:12:00 | VOC        | 0.27                 | 66       |
| VL040805.D | 0               | 10252023T18:12:00 | VOC        | 0.14                 | 35       |
| VL040805.D | 0.415           | 10252023T18:12:00 | VOC        | 0.35                 | 88       |
| VL040805.D | 0.389           | 10252023T18:12:00 | VOC        | 0.35                 | 89       |
| VL040805.D | 0.439           | 10252023T18:12:00 | VOC        | 0.35                 | 87       |
| VL040805.D | 0.381           | 10252023T18:12:00 | VOC        | 0.34                 | 85       |
| VL040805.D | 0.467           | 10252023T18:12:00 | VOC        | 0.46                 | 110      |
| VL040805.D | 0.449           | 10252023T18:12:00 | VOC        | 0.37                 | 93       |
| VL040805.D | 0.35            | 10252023T18:12:00 | VOC        | 0.27                 | 67       |
| VL040805.D | 0.291           | 10252023T18:12:00 | VOC        | 0.28                 | 70       |
| VL040805.D | 0.37            | 10252023T18:12:00 | VOC        | 0.45                 | 110      |
| VL040805.D | 0.427           | 10252023T18:12:00 | VOC        | 0.37                 | 92       |
| VL040787.D | 0.04            | 10232023T20:32:00 | VOC        | 0.032                | 110      |
| VL040805.D | 0.416           | 10252023T18:12:00 | VOC        | 0.35                 | 88       |
| VL040805.D | 0.38            | 10252023T18:12:00 | VOC        | 0.31                 | 78       |
| VL040805.D | 0.435           | 10252023T18:12:00 | VOC        | 0.43                 | 110      |
| VL040787.D | 0.05            | 10232023T20:32:00 | VOC        | 0.033                | 110      |
| VL040805.D | 0.506           | 10252023T18:12:00 | VOC        | 0.48                 | 120      |
| VL040805.D | 0.341           | 10252023T18:12:00 | VOC        | 0.43                 | 110      |
| VL040787.D | 0.04            | 10232023T20:32:00 | VOC        | 0.033                | 110      |
|            |                 |                   | VOC        | 0.544                | 136      |



# QC SUMMARY



## Surrogate Summary

SDG No.: Q1908

Client: RMJ Environomics, Inc.

Analytical Method: SWTO-15

| Lab Sample ID | Client ID   | Parameter               | Spike | Result | RecoveryQual | Limits  |           |
|---------------|-------------|-------------------------|-------|--------|--------------|---------|-----------|
|               |             |                         |       |        |              | Low     | High      |
| Q1908-01      | B-1         | 1-Bromo-4-Fluorobenzene | 10    | 11.0   | 110          | 70 (65) | 130 (135) |
| Q1908-01DUP   | B-1DUP      | 1-Bromo-4-Fluorobenzene | 10    | 11.1   | 111          | 70 (65) | 130 (135) |
| Q1908-02      | B-2         | 1-Bromo-4-Fluorobenzene | 10    | 11.3   | 113          | 70 (65) | 130 (135) |
| Q1908-03      | B-3         | 1-Bromo-4-Fluorobenzene | 10    | 11.1   | 111          | 70 (65) | 130 (135) |
| VL0429ABL01   | VL0429ABL01 | 1-Bromo-4-Fluorobenzene | 10    | 10.6   | 106          | 70 (65) | 130 (135) |
| VL0429ABS01   | VL0429ABS01 | 1-Bromo-4-Fluorobenzene | 10    | 11.3   | 113          | 70 (65) | 130 (135) |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1908

Client: RMJ Environomics, Inc.

Analytical Method: SWTO-15

Datafile : VL042438.D

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|---------|-------------|-----|
| VL0429ABS01   | Dichlorodifluoromethane        | 10    | 11.6   | ppbv | 116 |     |      | 40 (70) | 160 (130)   |     |
|               | Chloromethane                  | 10    | 11.0   | ppbv | 110 |     |      | 40 (70) | 160 (130)   |     |
|               | Vinyl Chloride                 | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromomethane                   | 10    | 10.7   | ppbv | 107 |     |      | 40 (70) | 160 (130)   |     |
|               | Chloroethane                   | 10    | 10.5   | ppbv | 105 |     |      | 40 (70) | 160 (130)   |     |
|               | Tetrahydrofuran                | 10    | 8.50   | ppbv | 85  |     |      | 70 (70) | 130 (130)   |     |
|               | Trichlorofluoromethane         | 10    | 11.5   | ppbv | 115 |     |      | 40 (70) | 160 (130)   |     |
|               | 1,1,2-Trichlorotrifluoroethane | 10    | 10.9   | ppbv | 109 |     |      | 70 (70) | 130 (130)   |     |
|               | Dichlorotetrafluoroethane      | 10    | 11.2   | ppbv | 112 |     |      | 70 (70) | 130 (130)   |     |
|               | tert-Butyl Alcohol             | 10    | 9.70   | ppbv | 97  |     |      | 70 (70) | 130 (130)   |     |
|               | Heptane                        | 10    | 7.60   | ppbv | 76  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethene             | 10    | 10.2   | ppbv | 102 |     |      | 70 (70) | 130 (130)   |     |
|               | Acetone                        | 10    | 9.90   | ppbv | 99  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon disulfide               | 10    | 10.4   | ppbv | 104 |     |      | 40 (70) | 160 (130)   |     |
|               | Methyl tert-butyl Ether        | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)   |     |
|               | Methylene Chloride             | 10    | 9.00   | ppbv | 90  |     |      | 70 (70) | 130 (130)   |     |
|               | trans-1,2-Dichloroethene       | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1-Dichloroethane             | 10    | 10.9   | ppbv | 109 |     |      | 70 (70) | 130 (130)   |     |
|               | Cyclohexane                    | 10    | 8.60   | ppbv | 86  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Butanone                     | 10    | 9.30   | ppbv | 93  |     |      | 40 (70) | 160 (130)   |     |
|               | Carbon Tetrachloride           | 10    | 11.0   | ppbv | 110 |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,2-Dichloroethene         | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | Chloroform                     | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,1-Trichloroethane          | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | 2,2,4-Trimethylpentane         | 10    | 9.00   | ppbv | 90  |     |      | 70 (70) | 130 (130)   |     |
|               | Benzene                        | 10    | 9.30   | ppbv | 93  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloroethane             | 10    | 12.0   | ppbv | 120 |     |      | 70 (70) | 130 (130)   |     |
|               | Trichloroethene                | 10    | 8.50   | ppbv | 85  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dichloropropane            | 10    | 9.00   | ppbv | 90  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromodichloromethane           | 10    | 11.1   | ppbv | 111 |     |      | 70 (70) | 130 (130)   |     |
|               | 4-Methyl-2-Pentanone           | 10    | 7.80   | ppbv | 78  |     |      | 40 (70) | 160 (130)   |     |
|               | Toluene                        | 10    | 8.80   | ppbv | 88  |     |      | 70 (70) | 130 (130)   |     |
|               | t-1,3-Dichloropropene          | 10    | 8.90   | ppbv | 89  |     |      | 70 (70) | 130 (130)   |     |
|               | cis-1,3-Dichloropropene        | 10    | 8.80   | ppbv | 88  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2-Trichloroethane          | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |
|               | Dibromochloromethane           | 10    | 10.2   | ppbv | 102 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2-Dibromoethane              | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)   |     |
|               | Tetrachloroethene              | 10    | 8.00   | ppbv | 80  |     |      | 70 (70) | 130 (130)   |     |
|               | Chlorobenzene                  | 10    | 10.3   | ppbv | 103 |     |      | 70 (70) | 130 (130)   |     |
|               | Ethyl Benzene                  | 10    | 10.1   | ppbv | 101 |     |      | 70 (70) | 130 (130)   |     |
|               | m/p-Xylene                     | 20    | 20.9   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | o-Xylene                       | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)   |     |
|               | Styrene                        | 10    | 9.20   | ppbv | 92  |     |      | 70 (70) | 130 (130)   |     |
|               | Bromoform                      | 10    | 9.40   | ppbv | 94  |     |      | 70 (70) | 130 (130)   |     |
|               | 1,1,2,2-Tetrachloroethane      | 10    | 9.80   | ppbv | 98  |     |      | 70 (70) | 130 (130)   |     |
|               | 2-Chlorotoluene                | 10    | 10.6   | ppbv | 106 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,3,5-Trimethylbenzene         | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)   |     |
|               | 1,2,4-Trimethylbenzene         | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)   |     |

() = LABORATORY INHOUSE LIMIT

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

**SW-846**

**SDG No.:** Q1908

**Client:** RMJ Environomics, Inc.

**Analytical Method:** SWTO-15

**Datafile :** VL042438.D

| Lab Sample ID | Parameter                | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|---------------|--------------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| VL0429ABS01   | 1,3-Dichlorobenzene      | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dichlorobenzene      | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2-Dichlorobenzene      | 10    | 10.1   | ppbv | 101 |     |      | 70 (70) | 130 (130)      |     |
|               | 1,2,4-Trichlorobenzene   | 10    | 9.50   | ppbv | 95  |     |      | 70 (70) | 130 (130)      |     |
|               | Hexachloro-1,3-butadiene | 10    | 10.0   | ppbv | 100 |     |      | 70 (70) | 130 (130)      |     |
|               | Naphthalene              | 10    | 9.40   | ppbv | 94  |     |      | 40 (70) | 160 (130)      |     |
|               | 1,3-Butadiene            | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)      |     |
|               | 4-Ethyltoluene           | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)      |     |
|               | Hexane                   | 10    | 8.30   | ppbv | 83  |     |      | 70 (70) | 130 (130)      |     |
|               | Allyl Chloride           | 10    | 9.90   | ppbv | 99  |     |      | 70 (70) | 130 (130)      |     |
|               | 1,4-Dioxane              | 10    | 7.50   | ppbv | 75  |     |      | 40 (70) | 160 (130)      |     |
|               | Methyl methacrylate      | 10    | 8.00   | ppbv | 80  |     |      | 70 (70) | 130 (130)      |     |

### Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q1908-01DUP      | Q1908-01         |
| <b>Client Id :</b>            | B-1DUP           | B-1              |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL042454.D       | VL042443.D       |
| <b>Anal Date &amp; Time :</b> | 04/29/2025 19:57 | 04/29/2025 13:11 |

| 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         | 0.11   | 0.13   | 16.7 |
| 1,2-Dibromoethane              | 0      | 0      | 0    |
| 1,2-Dichlorobenzene            | 0      | 0      | 0    |
| 1,2-Dichloroethane             | 0      | 0      | 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                     | 2.3    | 2.4    | 4.3  |
| 2-Chlorotoluene                | 0      | 0      | 0    |
| 4-Ethyltoluene                 | 0      | 0      | 0    |
| 4-Methyl-2-Pentanone           | 0      | 0      | 0    |
| Acetone                        | 10.9   | 11     | 0.91 |
| Allyl Chloride                 | 0      | 0      | 0    |
| Benzene                        | 0      | 0      | 0    |
| Bromodichloromethane           | 0      | 0      | 0    |
| Bromoform                      | 0      | 0      | 0    |
| Bromomethane                   | 0      | 0      | 0    |
| Carbon Disulfide               | 0      | 0      | 0    |
| Carbon Tetrachloride           | 0.06   | 0.06   | 0    |
|                                |        |        |      |

## Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q1908-01DUP      | Q1908-01         |
| <b>Client Id :</b>            | B-1DUP           | B-1              |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL042454.D       | VL042443.D       |
| <b>Anal Date &amp; Time :</b> | 04/29/2025 19:57 | 04/29/2025 13:11 |

| Parameter                 | Result | Result | RPD  |
|---------------------------|--------|--------|------|
| Chlorobenzene             | 0      | 0      | 0    |
| Chloroethane              | 0      | 0      | 0    |
| Chloroform                | 0      | 0      | 0    |
| Chloromethane             | 0.37   | 0.41   | 10.3 |
| cis-1,2-Dichloroethene    | 0      | 0      | 0    |
| cis-1,3-Dichloropropene   | 0      | 0      | 0    |
| Cyclohexane               | 0      | 0      | 0    |
| Dibromochloromethane      | 0      | 0      | 0    |
| Dichlorodifluoromethane   | 0.44   | 0.49   | 10.8 |
| Dichlorotetrafluoroethane | 0      | 0      | 0    |
| Ethyl Benzene             | 0      | 0      | 0    |
| Heptane                   | 0      | 0      | 0    |
| Hexachloro-1,3-Butadiene  | 0      | 0      | 0    |
| Hexane                    | 0.32   | 0.33   | 3.1  |
| m/p-Xylene                | 0      | 0      | 0    |
| Methyl Methacrylate       | 0      | 0      | 0    |
| Methyl tert-Butyl Ether   | 0      | 0      | 0    |
| Methylene Chloride        | 0.57   | 0.54   | 5.4  |
| 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         | 0.05   | 0.05   | 0    |
| Tetrahydrofuran           | 0      | 0      | 0    |
| Toluene                   | 0.13   | 0.15   | 14.3 |
| trans-1,2-Dichloroethene  | 0      | 0      | 0    |
| Trichloroethene           | 0      | 0      | 0    |
| Trichlorofluoromethane    | 0.22   | 0.21   | 4.7  |
| Vinyl Chloride            | 0      | 0      | 0    |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0429ABL01

Lab Name: CHEMTECH

Contract: RMJE02

Lab Code: CHEM Case No.: Q1908

SAS No.: Q1908 SDG NO.: Q1908

Lab File ID: VL042437.D

Lab Sample ID: VL0429ABL01

Date Analyzed: 04/29/2025

Time Analyzed: 09:25

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 |
|-------------------|------------------|----------------|------------------|
| VL0429ABS01       | VL0429ABS01      | VL042438.D     | 04/29/2025       |
| B-1               | Q1908-01         | VL042443.D     | 04/29/2025       |
| B-3               | Q1908-03         | VL042445.D     | 04/29/2025       |
| B-1DUP            | Q1908-01DUP      | VL042454.D     | 04/29/2025       |
| B-2               | Q1908-02         | VL042456.D     | 04/29/2025       |

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RMJE02  
Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG NO.: Q1908  
Lab File ID: VL042348.D BFB Injection Date: 04/17/2025  
Instrument ID: MSVOA\_L BFB Injection Time: 07:50  
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             | 23.1                 |
| 75  | 30.0 - 66.0% of mass 95            | 57                   |
| 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           | 59.5                 |
| 175 | 4.0 - 9.0% of mass 174             | 4.5 ( 7.6 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 57.6 ( 96.9 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 3.6 ( 6.3 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDICCC010       | VSTDICCC010      | VL042349.D     | 04/17/2025       | 09:44            |
| VSTDICCC002       | VSTDICCC002      | VL042350.D     | 04/17/2025       | 10:17            |
| VSTDICCC001       | VSTDICCC001      | VL042351.D     | 04/17/2025       | 10:48            |
| VSTDICCC0.5       | VSTDICCC0.5      | VL042352.D     | 04/17/2025       | 11:19            |
| VSTDICCC0.1       | VSTDICCC0.1      | VL042353.D     | 04/17/2025       | 11:50            |
| VSTDICCC0.03      | VSTDICCC0.03     | VL042354.D     | 04/17/2025       | 12:22            |
| VSTDICCC015       | VSTDICCC015      | VL042355.D     | 04/17/2025       | 12:54            |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RMJE02  
Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG NO.: Q1908  
Lab File ID: VL042435.D BFB Injection Date: 04/29/2025  
Instrument ID: MSVOA\_L BFB Injection Time: 07:55  
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             | 26.5                 |
| 75  | 30.0 - 66.0% of mass 95            | 65.6                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 7.1                  |
| 173 | Less than 2.0% of mass 174         | 0.6 ( 1.1 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 51.1                 |
| 175 | 4.0 - 9.0% of mass 174             | 3.7 ( 7.3 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 50.1 ( 98 ) 1        |
| 177 | 5.0 - 9.0% of mass 176             | 3.5 ( 7 ) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDCCC010        | VSTDCCC010       | VL042436.D     | 04/29/2025       | 08:39            |
| VL0429ABL01       | VL0429ABL01      | VL042437.D     | 04/29/2025       | 09:25            |
| VL0429ABS01       | VL0429ABS01      | VL042438.D     | 04/29/2025       | 10:08            |
| B-1               | Q1908-01         | VL042443.D     | 04/29/2025       | 13:11            |
| B-3               | Q1908-03         | VL042445.D     | 04/29/2025       | 14:19            |
| B-1DUP            | Q1908-01DUP      | VL042454.D     | 04/29/2025       | 19:57            |
| B-2               | Q1908-02         | VL042456.D     | 04/29/2025       | 21:58            |



VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RMJE02  
 Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG NO.: Q1908  
 Lab File ID: VL042436.D Date Analyzed: 04/29/2025  
 Instrument ID: MSVOA\_L Time Analyzed: 08:39  
 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    | 114553        | 2.78 | 311268        | 3.95 | 269987        | 8.88 |
| UPPER LIMIT    | 160374        | 3.11 | 435775        | 4.28 | 377982        | 9.21 |
| LOWER LIMIT    | 68731.8       | 2.45 | 186761        | 3.62 | 161992        | 8.55 |
| EPA SAMPLE NO. |               |      |               |      |               |      |
| B-1            | 116167        | 2.79 | 309224        | 3.97 | 265424        | 8.89 |
| B-1DUP         | 114972        | 2.79 | 297262        | 3.97 | 249799        | 8.89 |
| B-2            | 111841        | 2.79 | 295318        | 3.97 | 246635        | 8.89 |
| B-3            | 116924        | 2.79 | 304231        | 3.97 | 256038        | 8.89 |
| VL0429ABL01    | 119014        | 2.79 | 328601        | 3.96 | 276498        | 8.89 |
| VL0429ABS01    | 116772        | 2.79 | 317590        | 3.96 | 272312        | 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

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-1                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-01               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042443.D        | 1         |           | 04/29/25 13:11 | VL042925      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.49          | 2.42           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.41          | 0.85           | J         | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.010         | 0.030          | U         | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.14          | 0.54           | U         | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 0.17          | 0.45           | U         | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.13          | 0.38           | U         | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.21          | 1.18           | J         | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.16          | 1.23           | U         | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.090         | 0.63           | U         | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.19          | 0.58           | U         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.11          | 0.45           | U         | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 0.14          | 0.56           | U         | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 11.0          | 26.1           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.16          | 0.50           | U         | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.12          | 0.43           | U         | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 0.54          | 1.88           |           | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.19          | 0.75           | U         | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U         | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 2.40          | 7.08           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.060         | 0.38           |           | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.090         | 0.36           | U         | 0.36  | 1.98       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.080         | 0.39           | U         | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.010         | 0.050          | U         | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.10          | 0.47           | U         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.090         | 0.29           | U         | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U         | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U         | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 0.11          | 0.51           | U         | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.080         | 0.54           | U         | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 0.15          | 0.57           | J         | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.070         | 0.38           | U         | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-1                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-01               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042443.D        | 1         |           | 04/29/25 13:11 | VL042925      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.070         | 0.60           | U         | 0.60                | 4.26       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.070         | 0.54           | U         | 0.54                | 0.77       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.050         | 0.34           |           | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.080         | 0.37           | U         | 0.37                | 2.30       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 0.21          | 0.91           | U         | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 0.11          | 0.47           | U         | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.060         | 0.62           | U         | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.010         | 0.070          | U         | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 0.11          | 0.57           | U         | 0.57                | 2.59       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 0.11          | 0.54           | U         | 0.54                | 2.46       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 0.13          | 0.64           | J         | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.050         | 0.30           | U         | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.090         | 0.67           | U         | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.090         | 0.96           | U         | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 0.13          | 0.29           | U         | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.080         | 0.42           | U         | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 0.12          | 0.59           | U         | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 0.33          | 1.16           | J         | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 0.15          | 0.47           | U         | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 0.21          | 0.76           | U         | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 11.0          |                |           | 70 (65) - 130 (135) | 110%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 116000        |                | 2.79      |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 309000        |                | 3.965     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 265000        |                | 8.888     |                     |            |         |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-1                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-01               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400      Units:    mL  |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042443.D        | 1         |           | 04/29/25 13:11 | VL042925      |

| CAS Number | Parameter | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|

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\VL042925\  
 Data File : VL042443.D  
 Acq On : 29 Apr 2025 13:11  
 Operator : SY/MD  
 Sample : Q1908-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:19:56 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

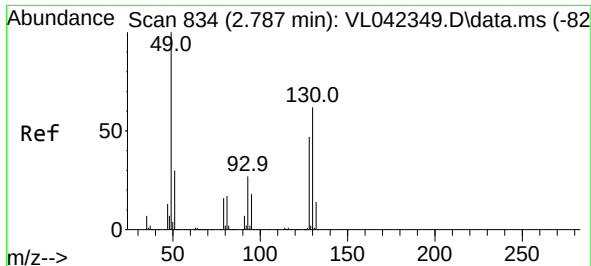
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.790  | 49    | 116167   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.965  | 114   | 309224   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.888  | 117   | 265424   | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 240596   | 11.031   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 110.300% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 10046    | 0.489    | ppbv   | 100      |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 4773m    | 0.244    | ppbv   |          |
| 4) Chloromethane            | 1.534  | 50    | 3300     | 0.406    | ppbv   | 100      |
| 9) Propene                  | 1.486  | 41    | 1749     | 0.197    | ppbv   | 92       |
| 11) Trichlorofluoromethane  | 1.881  | 101   | 4172     | 0.214    | ppbv   | 86       |
| 13) Ethanol                 | 1.728  | 45    | 15309    | 10.821   | ppbv   | 80       |
| 15) Acetone                 | 1.839  | 43    | 209166   | 10.999   | ppbv   | 98       |
| 19) Isopropyl Alcohol       | 1.894  | 45    | 15167    | 1.436    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.065  | 84    | 4052     | 0.544    | ppbv   | 91       |
| 26) Hexane                  | 2.835  | 57    | 6206m    | 0.327    | ppbv   |          |
| 34) 2-Butanone              | 2.564  | 43    | 58507    | 2.392    | ppbv   | 95       |
| 35) Carbon Tetrachloride    | 3.764  | 117   | 1618     | 0.058    | ppbv # | 63       |
| 52) Tetrachloroethene       | 8.228  | 164   | 630m     | 0.049    | ppbv   |          |
| 53) Toluene                 | 6.943  | 91    | 5909m    | 0.148    | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene  | 11.539 | 105   | 7145     | 0.133    | ppbv # | 61       |
| -----                       |        |       |          |          |        |          |

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

## Manual Integrations

Quant Time: Apr 30 01:19:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration





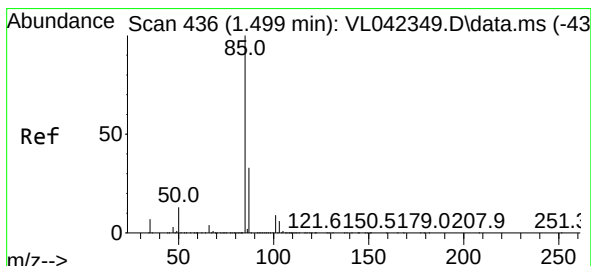
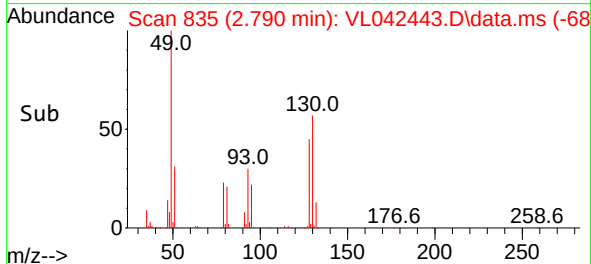
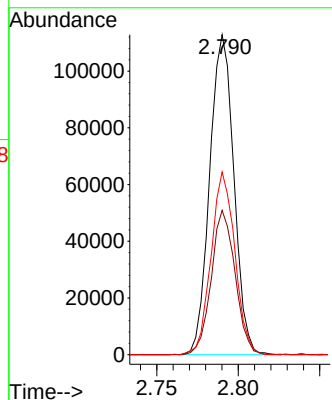
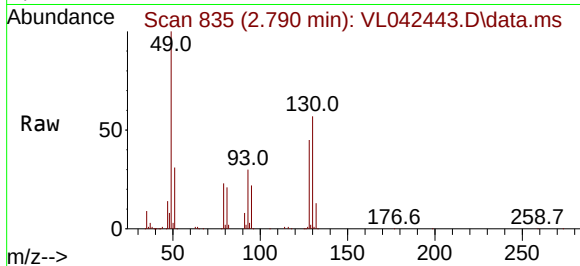
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

Tgt Ion: 49 Resp: 11616  
Ion Ratio Lower Upper  
49 100  
128 44.6 22.8 68.4  
130 56.3 29.3 88.0

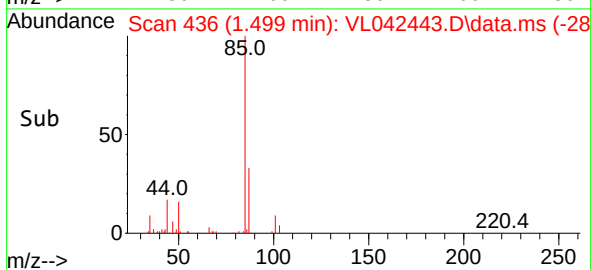
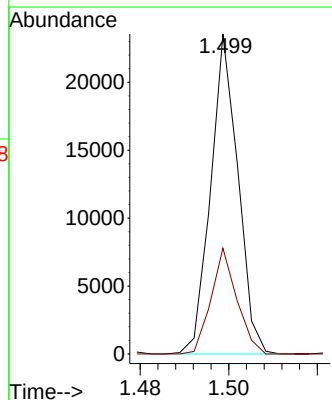
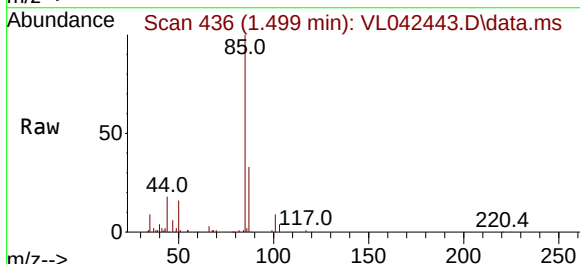
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

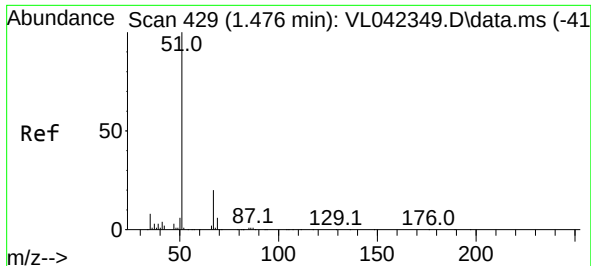


#2  
Dichlorodifluoromethane  
Concen: 0.489 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 85 Resp: 10046  
Ion Ratio Lower Upper  
85 100  
87 33.0 26.6 39.8

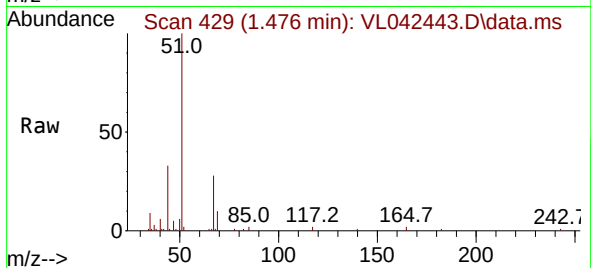






#3  
Chlorodifluoromethane  
Concen: 0.244 ppbv m  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

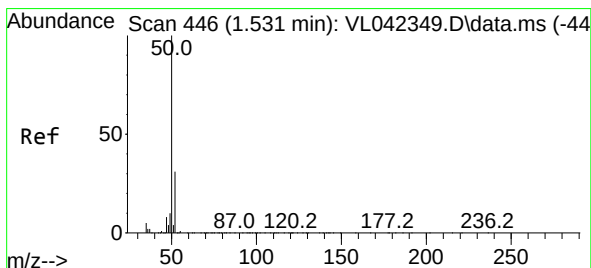
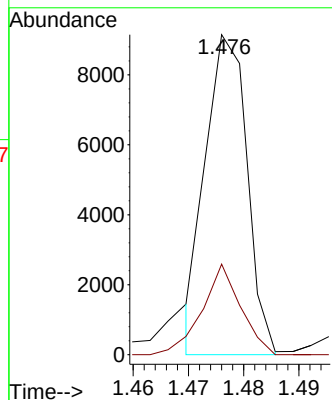
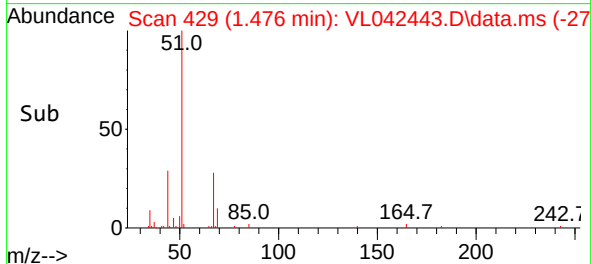
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1



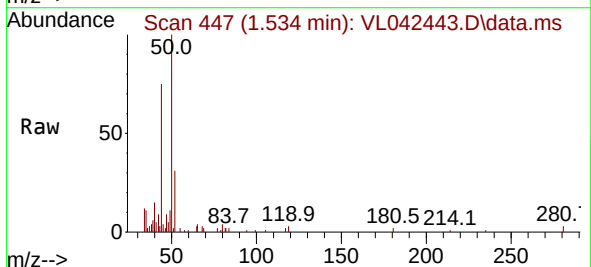
Tgt Ion: 51 Resp: 477  
Ion Ratio Lower Upper  
51 100  
67 26.4 16.2 24.4

Manual Integrations  
APPROVED

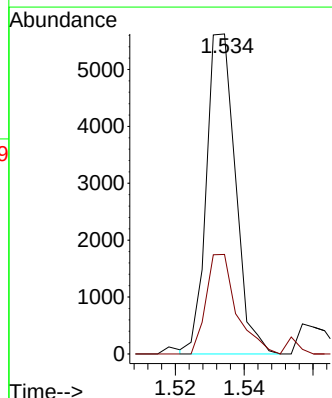
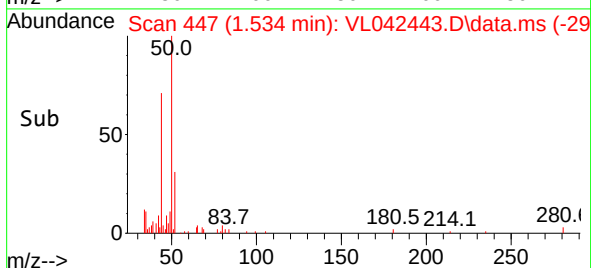
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

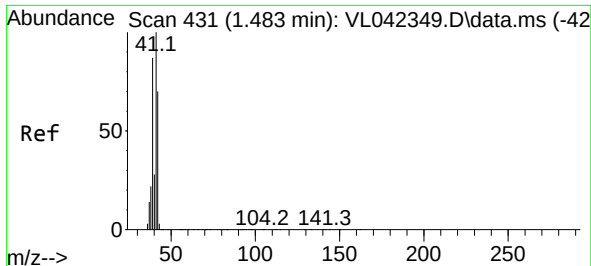


#4  
Chloromethane  
Concen: 0.406 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11



Tgt Ion: 50 Resp: 3300  
Ion Ratio Lower Upper  
50 100  
52 31.1 24.7 37.1





#9

Propene

Concen: 0.197 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA\_L

ClientSampleId :

B-1

Tgt Ion: 41 Resp: 1749

Ion Ratio Lower Upper

41 100

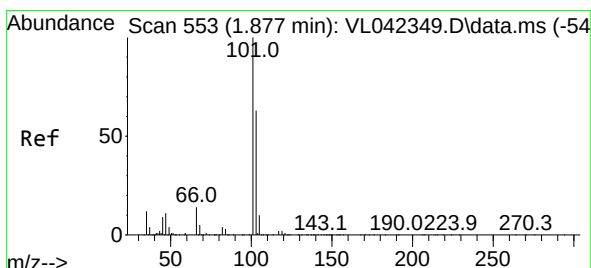
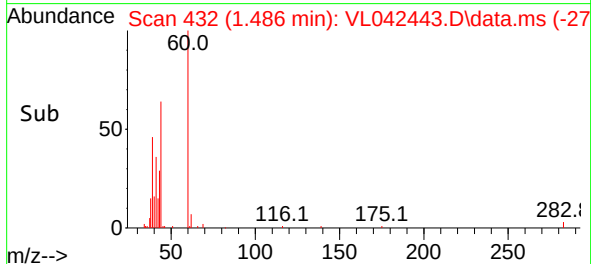
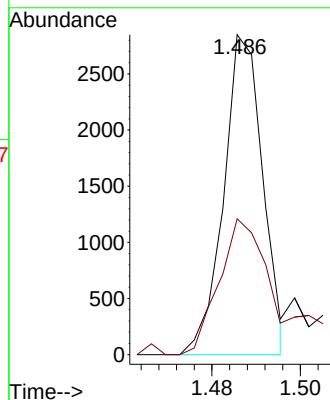
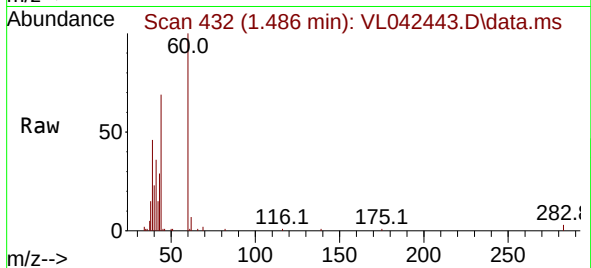
42 64.1 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042443.D

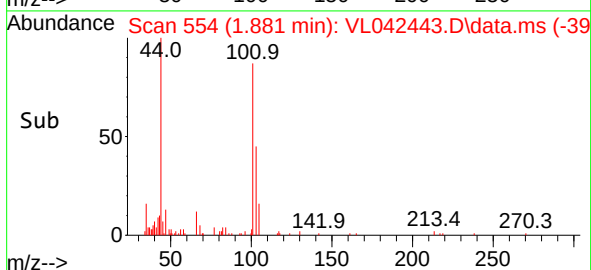
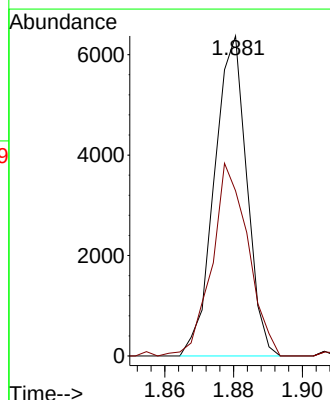
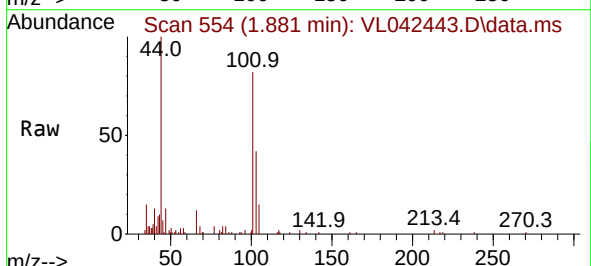
Acq: 29 Apr 2025 13:11

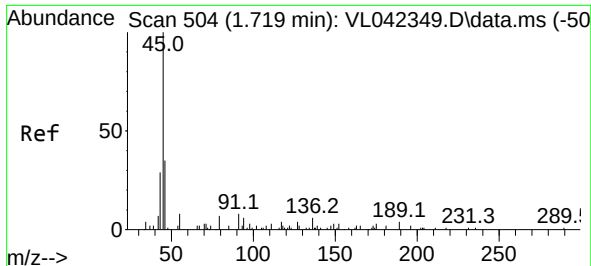
Tgt Ion:101 Resp: 4172

Ion Ratio Lower Upper

101 100

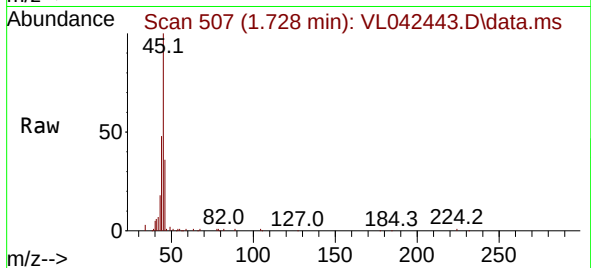
103 51.6 50.1 75.1





#13  
Ethanol  
Concen: 10.821 ppbv  
RT: 1.728 min Scan# 504  
Delta R.T. 0.010 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

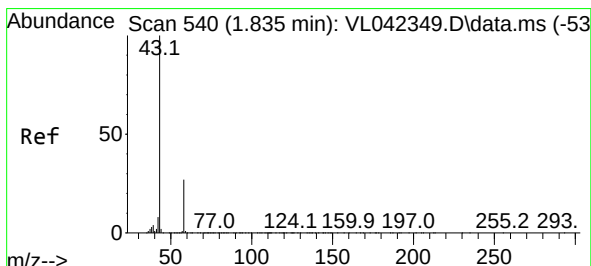
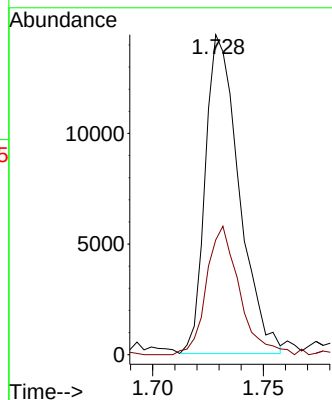
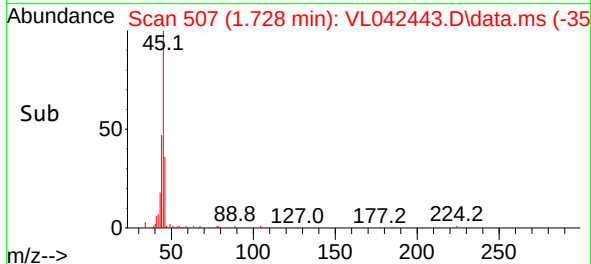
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1



Tgt Ion: 45 Resp: 15309  
Ion Ratio Lower Upper  
45 100  
46 40.3 21.9 87.7

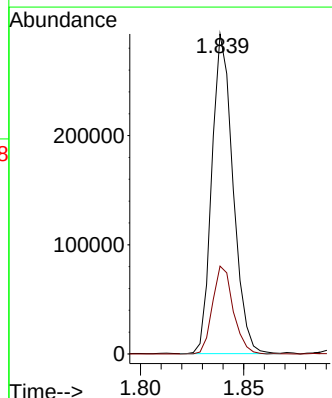
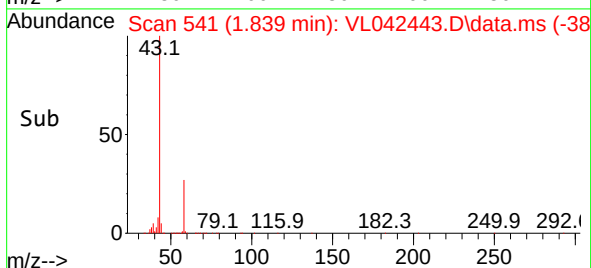
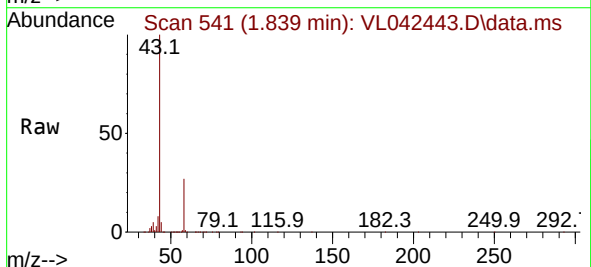
Manual Integrations  
APPROVED

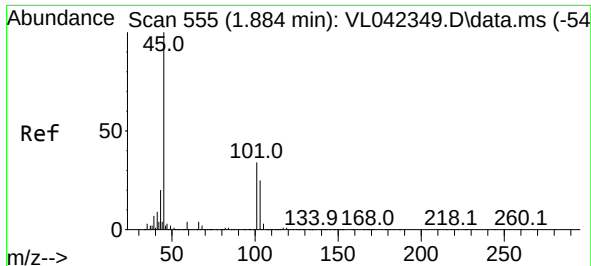
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#15  
Acetone  
Concen: 10.999 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 43 Resp: 209166  
Ion Ratio Lower Upper  
43 100  
58 26.8 22.4 33.6





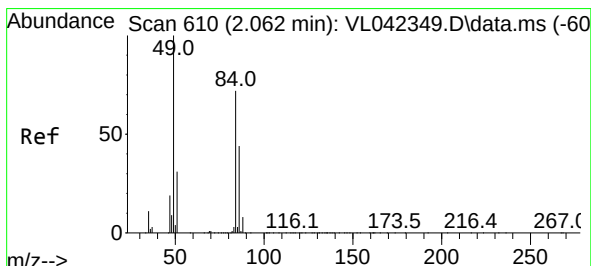
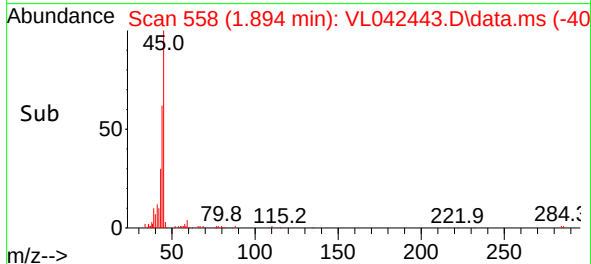
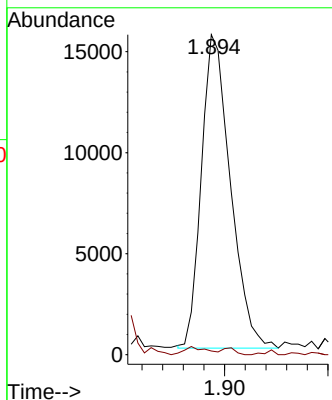
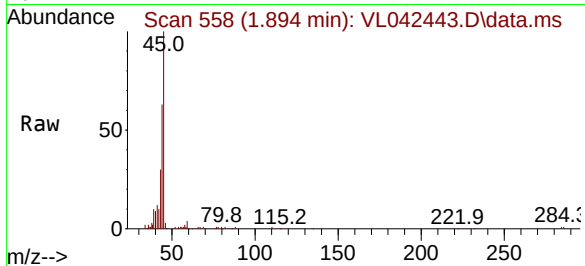
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Isopropyl Alcohol  
Concen: 1.436 ppbv  
RT: 1.894 min Scan# 516  
Delta R.T. 0.010 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

Tgt Ion: 45 Resp: 1516  
Ion Ratio Lower Upper  
45 100  
58 369.6 34.5 51.7

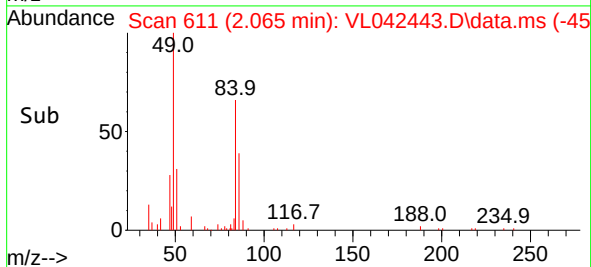
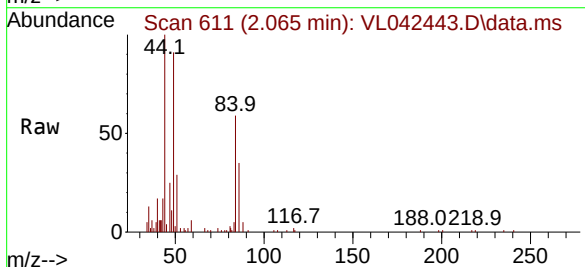
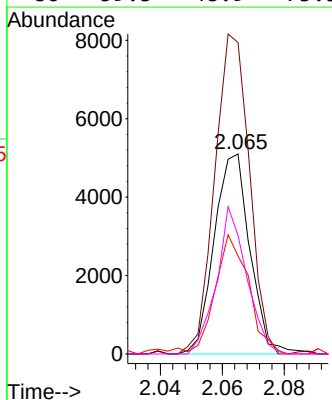
Manual Integrations  
APPROVED

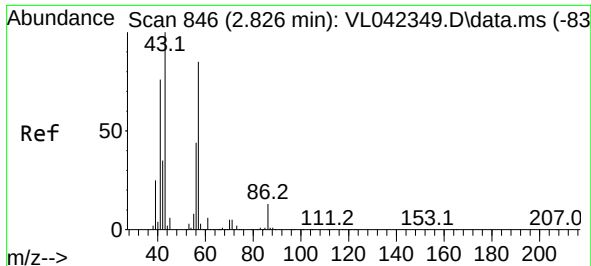
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#20  
Methylene Chloride  
Concen: 0.544 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

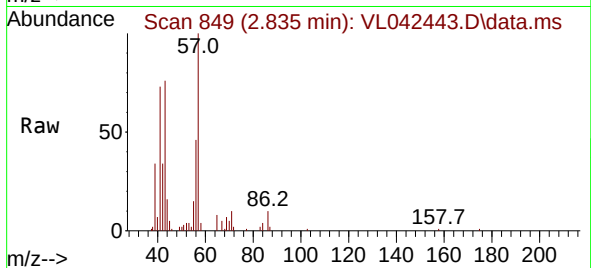
Tgt Ion: 84 Resp: 4052  
Ion Ratio Lower Upper  
84 100  
49 155.6 111.6 167.4  
51 47.2 35.1 52.7  
86 59.3 48.9 73.3





#26  
Hexane  
Concen: 0.327 ppbv m  
RT: 2.835 min Scan# 846  
Delta R.T. 0.010 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

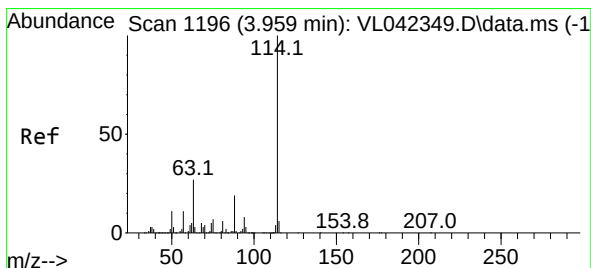
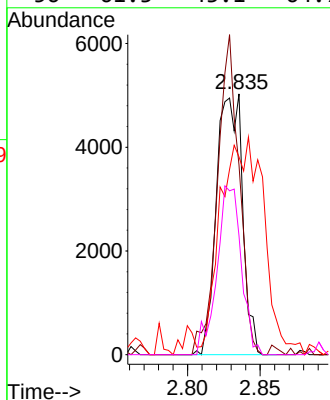
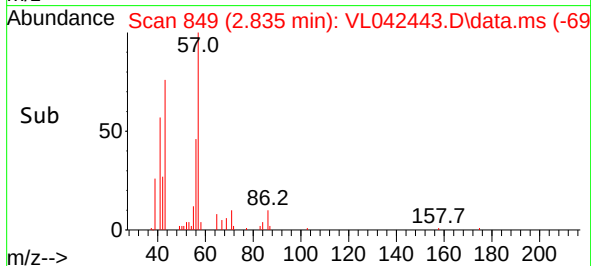
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1



Tgt Ion: 57 Resp: 6200  
Ion Ratio Lower Upper  
57 100  
41 105.3 77.9 116.9  
43 0.0 208.4 312.6  
56 61.3 43.1 64.7

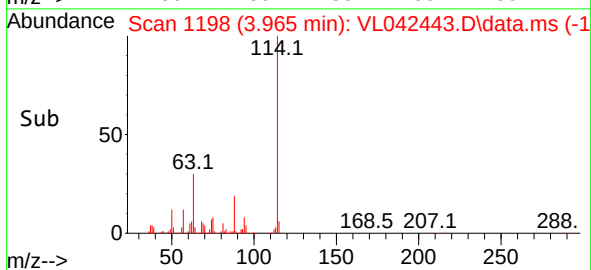
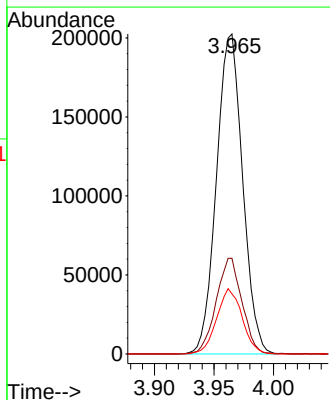
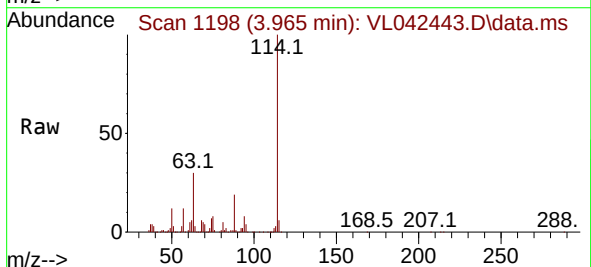
Manual Integrations  
APPROVED

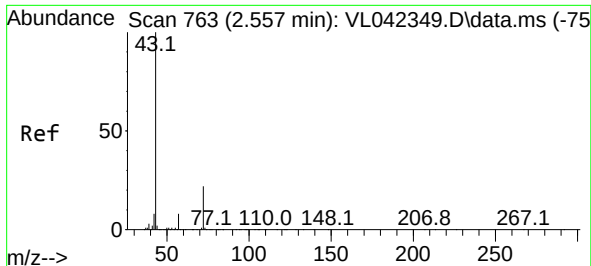
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.006 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

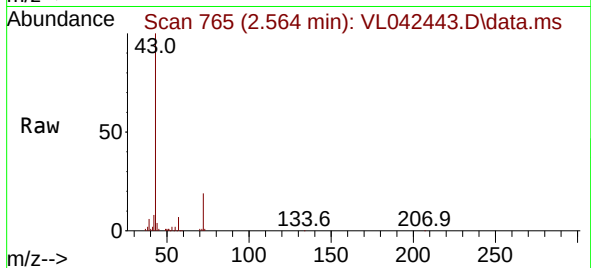
Tgt Ion:114 Resp: 309224  
Ion Ratio Lower Upper  
114 100  
63 29.4 21.8 32.6  
88 19.8 15.5 23.3





#34  
2-Butanone  
Concen: 2.392 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.006 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

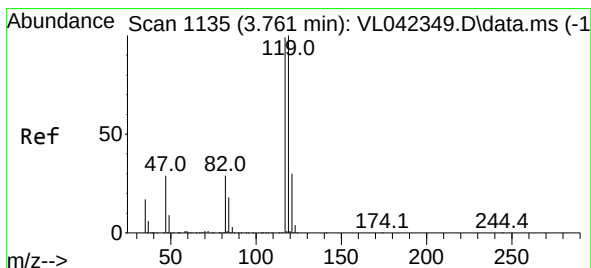
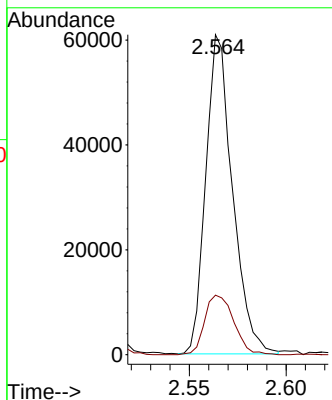
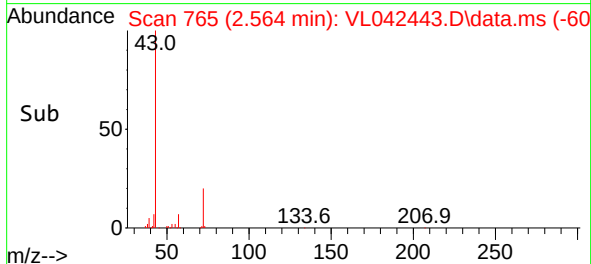
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1



Tgt Ion: 43 Resp: 5850  
Ion Ratio Lower Upper  
43 100  
72 20.4 18.2 27.2

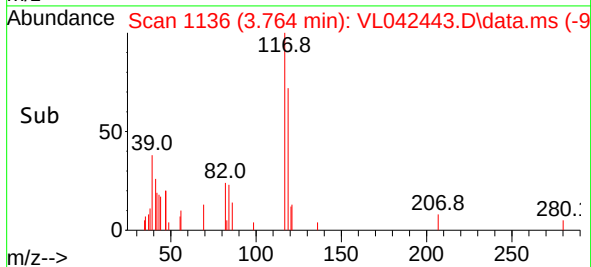
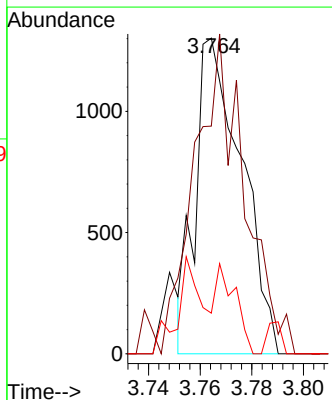
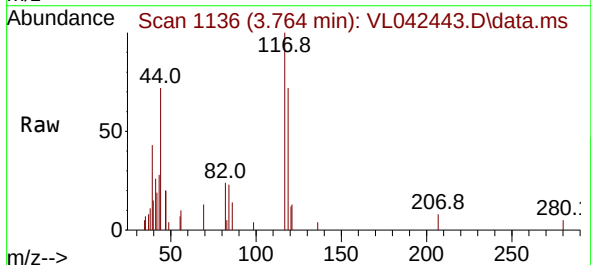
Manual Integrations  
APPROVED

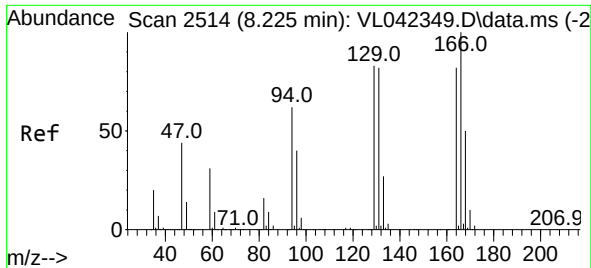
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#35  
Carbon Tetrachloride  
Concen: 0.058 ppbv  
RT: 3.764 min Scan# 1136  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

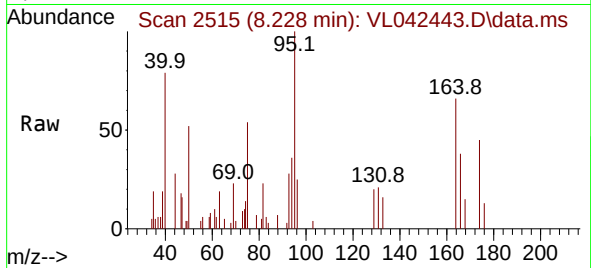
Tgt Ion:117 Resp: 1618  
Ion Ratio Lower Upper  
117 100  
119 65.9 80.5 120.7#  
121 5.1 24.2 36.2#





#52  
Tetrachloroethene  
Concen: 0.049 ppbv m  
RT: 8.228 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

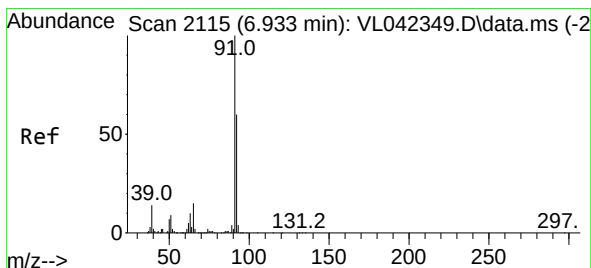
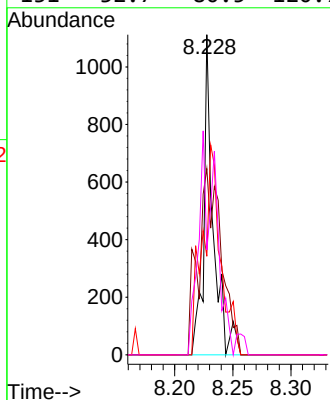
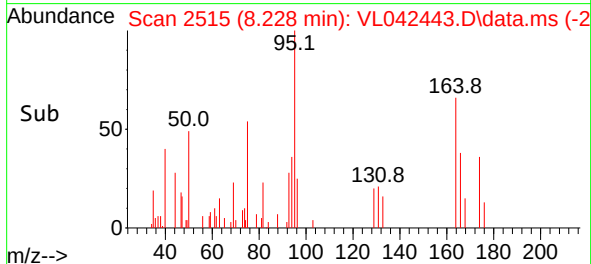
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1



Tgt Ion:164 Resp: 630  
Ion Ratio Lower Upper  
164 100  
166 58.2 98.2 147.2  
129 30.8 81.8 122.8  
131 32.7 80.5 120.7

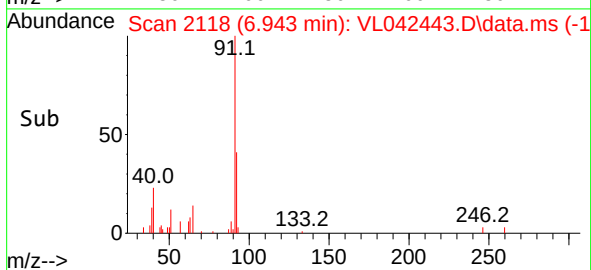
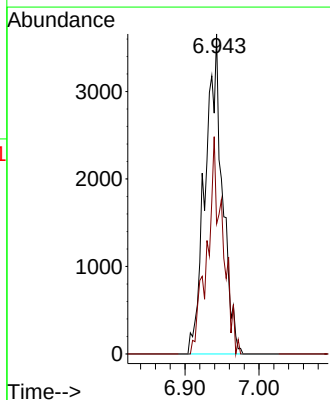
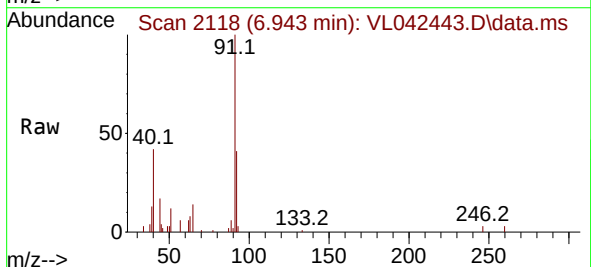
Manual Integrations  
APPROVED

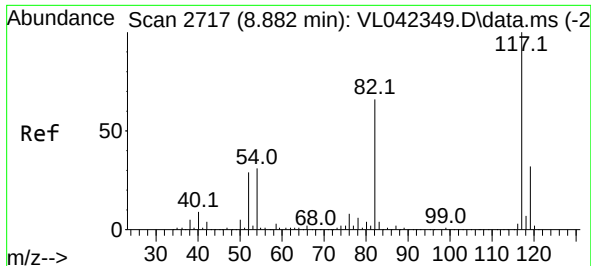
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#53  
Toluene  
Concen: 0.148 ppbv m  
RT: 6.943 min Scan# 2118  
Delta R.T. 0.010 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

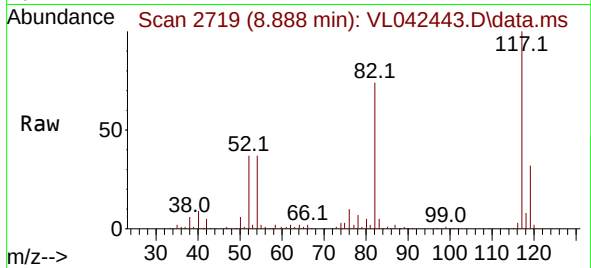
Tgt Ion: 91 Resp: 5909  
Ion Ratio Lower Upper  
91 100  
92 61.4 48.2 72.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

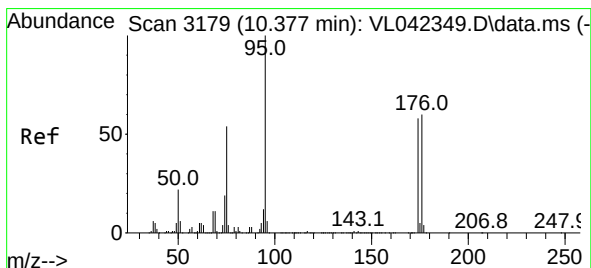
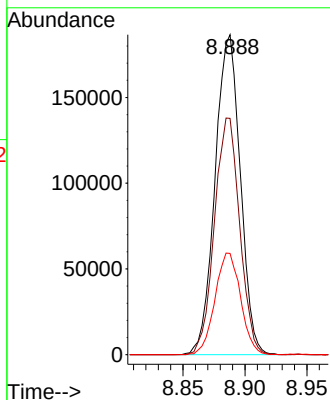
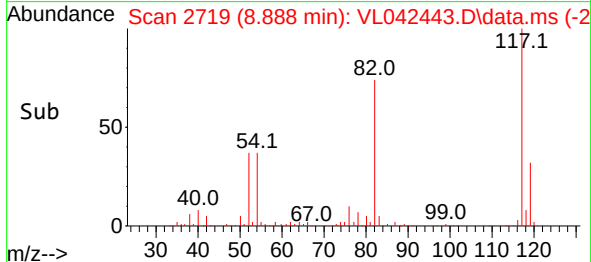
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1



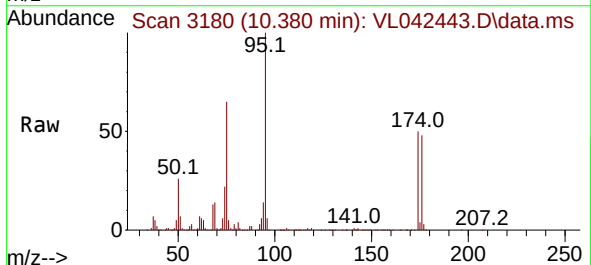
Tgt Ion: 117 Resp: 265424  
Ion Ratio Lower Upper  
117 100  
82 73.9 57.8 86.6  
119 32.1 25.2 37.8

Manual Integrations  
APPROVED

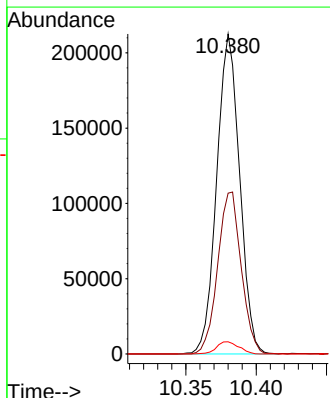
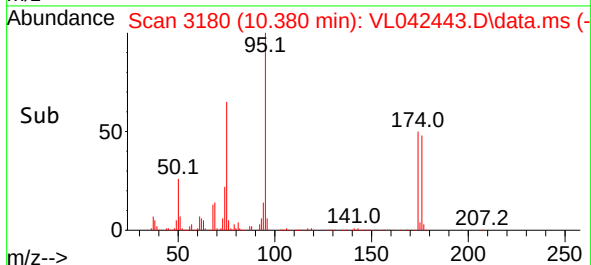
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



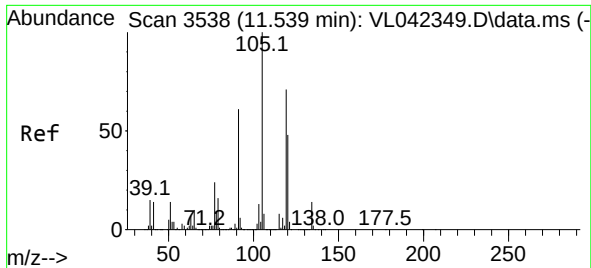
#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.031 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11



Tgt Ion: 95 Resp: 240596  
Ion Ratio Lower Upper  
95 100  
174 52.0 48.5 72.7  
175 3.7 3.7 5.5

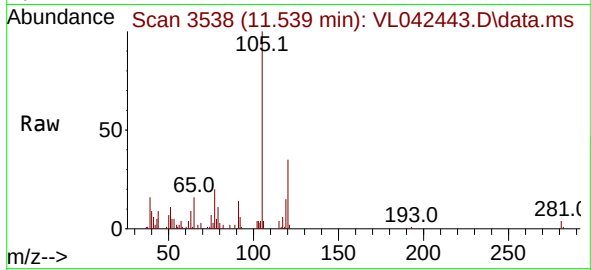






#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.133 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. -0.000 min  
 Lab File: VL042443.D  
 Acq: 29 Apr 2025 13:11

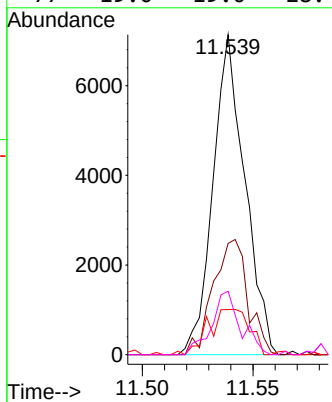
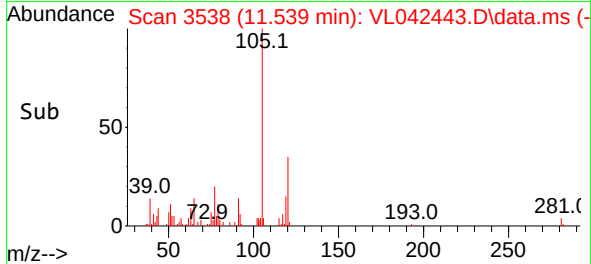
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-1



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 714   |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 33.3  | 38.1  | 57.1  |
| 91       | 12.7  | 48.8  | 73.2  |
| 77       | 19.0  | 19.0  | 28.4  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-2                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-02               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042456.D        | 1         |           | 04/29/25 21:58 | VL042925      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.49          | 2.42           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.48          | 0.99           | J         | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.010         | 0.030          | U         | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.14          | 0.54           | U         | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 0.17          | 0.45           | U         | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.13          | 0.38           | U         | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.25          | 1.40           | J         | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.16          | 1.23           | U         | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.090         | 0.63           | U         | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.19          | 0.58           | U         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.11          | 0.45           | U         | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 0.14          | 0.56           | U         | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 3.10          | 7.36           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.16          | 0.50           | U         | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.12          | 0.43           | U         | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 8.10          | 28.1           |           | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.19          | 0.75           | U         | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U         | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.20          | 0.59           | J         | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.070         | 0.44           |           | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.090         | 0.36           | U         | 0.36  | 1.98       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.080         | 0.39           | U         | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.010         | 0.050          | U         | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.10          | 0.47           | U         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.090         | 0.29           | U         | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U         | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U         | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 0.11          | 0.51           | U         | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.080         | 0.54           | U         | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 0.11          | 0.41           | U         | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.070         | 0.38           | U         | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-2                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-02               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042456.D        | 1         |           | 04/29/25 21:58 | VL042925      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.070         | 0.60           | U         | 0.60                | 4.26       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.070         | 0.54           | U         | 0.54                | 0.77       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.020         | 0.14           | U         | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.080         | 0.37           | U         | 0.37                | 2.30       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 0.21          | 0.91           | U         | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 0.11          | 0.47           | U         | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.060         | 0.62           | U         | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.010         | 0.070          | U         | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 0.11          | 0.57           | U         | 0.57                | 2.59       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 0.11          | 0.54           | U         | 0.54                | 2.46       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 0.080         | 0.39           | U         | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.050         | 0.30           | U         | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.090         | 0.67           | U         | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.090         | 0.96           | U         | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 0.13          | 0.29           | U         | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.080         | 0.42           | U         | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 0.12          | 0.59           | U         | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 1.60          | 5.64           |           | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 0.15          | 0.47           | U         | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 0.21          | 0.76           | U         | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 11.3          |                |           | 70 (65) - 130 (135) | 113%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 112000        |                | 2.79      |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 295000        |                | 3.965     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 247000        |                | 8.888     |                     |            |         |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-2                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-02               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400      Units:    mL  |                 |          |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042456.D        | 1         |           | 04/29/25 21:58 | VL042925      |

| CAS Number | Parameter | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|

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\VL042925\  
 Data File : VL042456.D  
 Acq On : 29 Apr 2025 21:58  
 Operator : SY/MD  
 Sample : Q1908-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-2

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:26:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.790  | 49    | 111841   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.965  | 114   | 295318   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.888  | 117   | 246635   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 229841   | 11.341   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 113.400% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 9601     | 0.486    | ppbv   | 94       |
| 3) Chlorodifluoromethane    | 1.476  | 51    | 5392m    | 0.287    | ppbv   |          |
| 4) Chloromethane            | 1.531  | 50    | 3721     | 0.476    | ppbv # | 81       |
| 9) Propene                  | 1.489  | 41    | 2343     | 0.273    | ppbv   | 93       |
| 11) Trichlorofluoromethane  | 1.877  | 101   | 4603     | 0.245    | ppbv   | 94       |
| 13) Ethanol                 | 1.722  | 45    | 10654    | 7.822    | ppbv # | 24       |
| 15) Acetone                 | 1.839  | 43    | 57407    | 3.136    | ppbv   | 97       |
| 20) Methylene Chloride      | 2.065  | 84    | 57764    | 8.056    | ppbv   | 93       |
| 26) Hexane                  | 2.829  | 57    | 28892    | 1.582    | ppbv # | 31       |
| 34) 2-Butanone              | 2.567  | 43    | 4598     | 0.197    | ppbv   | 98       |
| 35) Carbon Tetrachloride    | 3.768  | 117   | 1762m    | 0.066    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

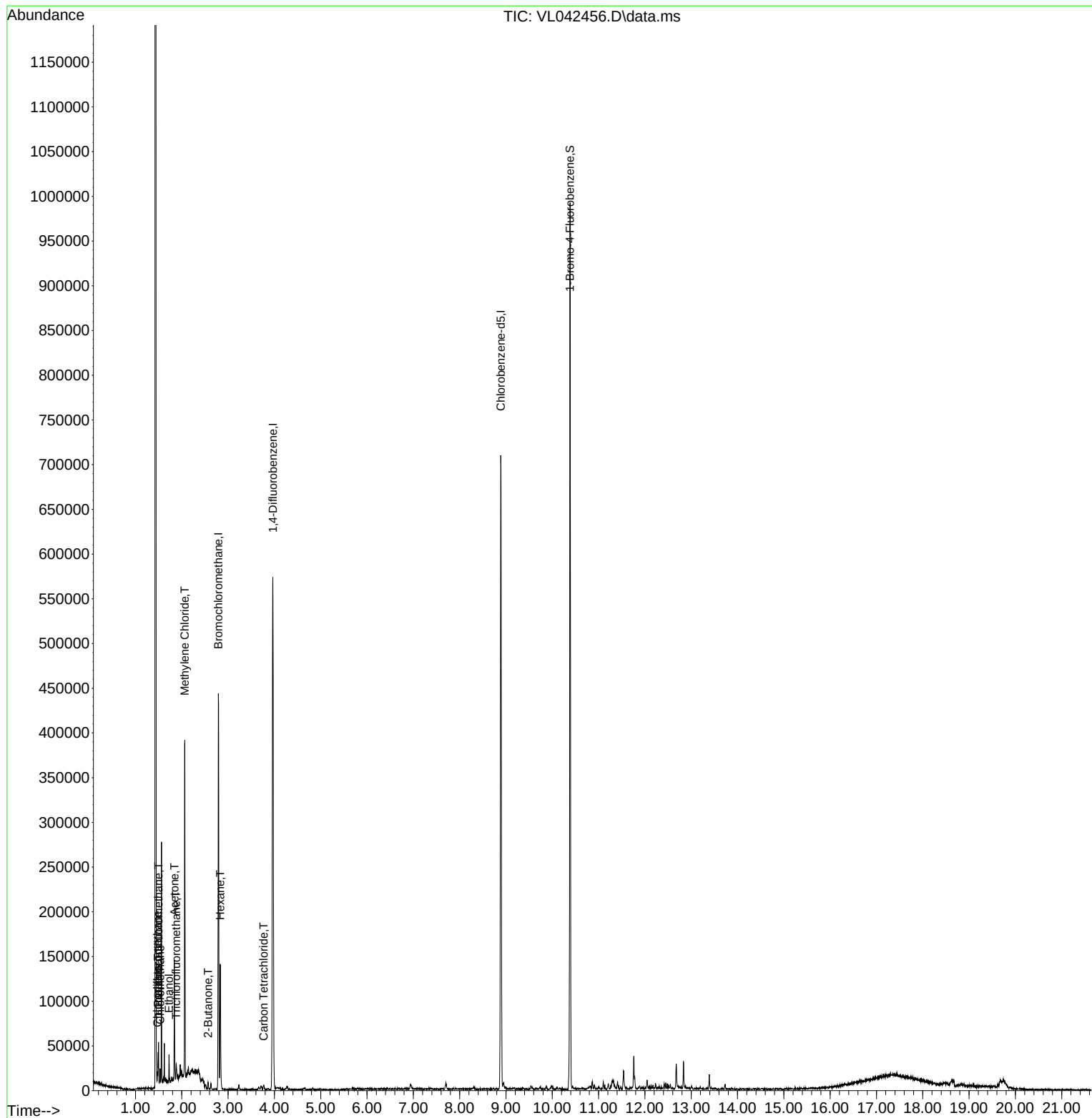
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
Data File : VL042456.D  
Acq On : 29 Apr 2025 21:58  
Operator : SY/MD  
Sample : Q1908-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 15 Sample Multiplier: 1

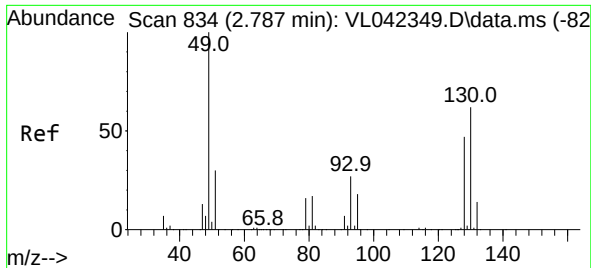
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

Quant Time: Apr 30 01:26:46 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 04/30/2025  
Supervised By : Mahesh Dadoda 04/30/2025





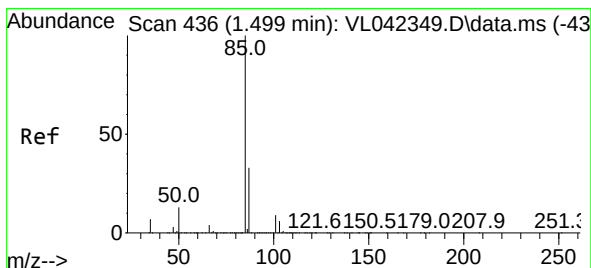
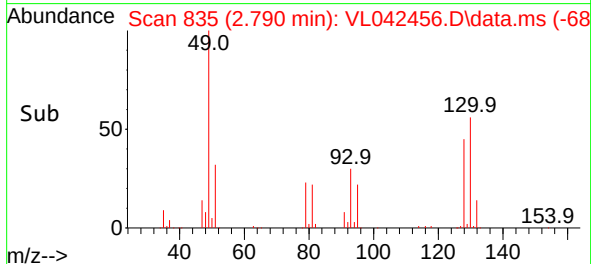
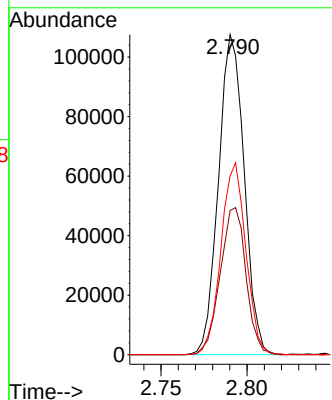
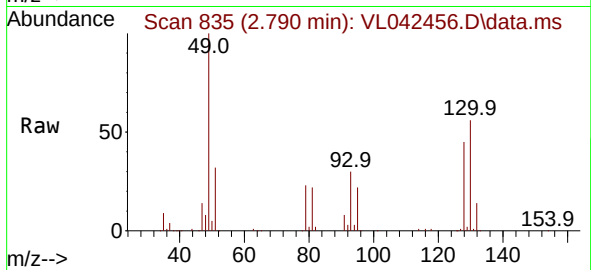
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 834  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

Tgt Ion: 49 Resp: 11184  
Ion Ratio Lower Upper  
49 100  
128 46.1 22.8 68.4  
130 58.0 29.3 88.0

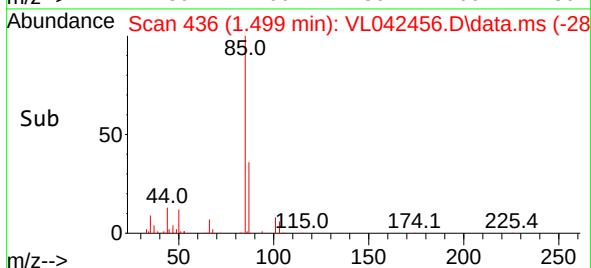
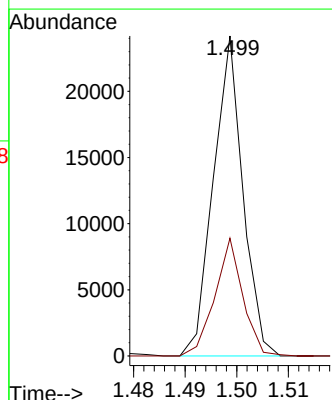
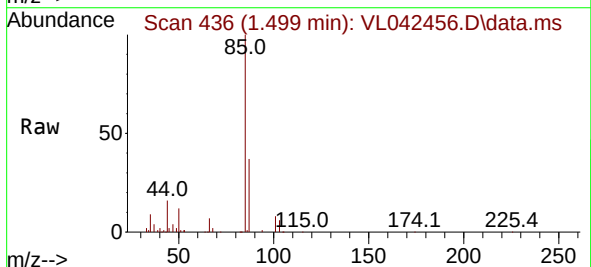
Manual Integrations  
APPROVED

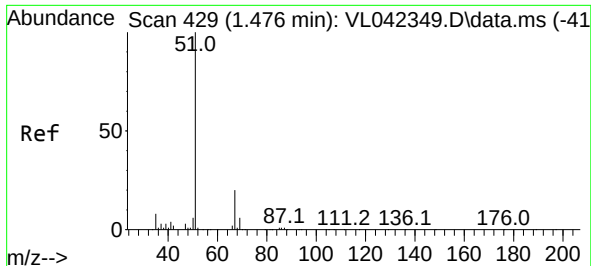
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#2  
Dichlorodifluoromethane  
Concen: 0.486 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

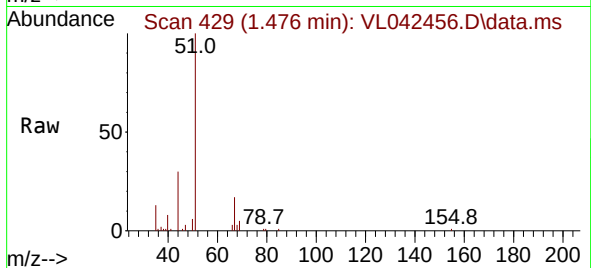
Tgt Ion: 85 Resp: 9601  
Ion Ratio Lower Upper  
85 100  
87 36.8 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 0.287 ppbv m  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

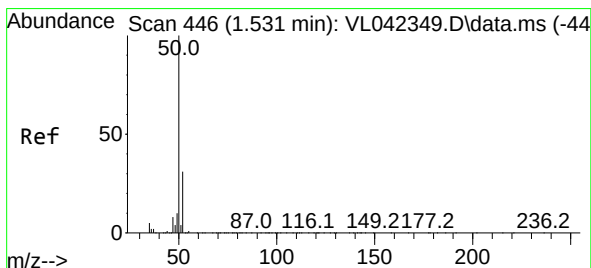
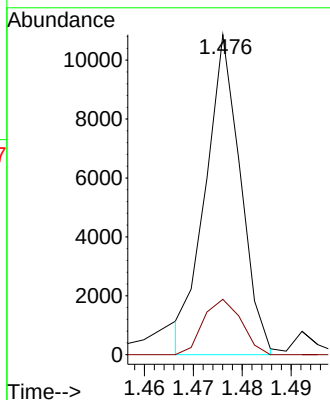
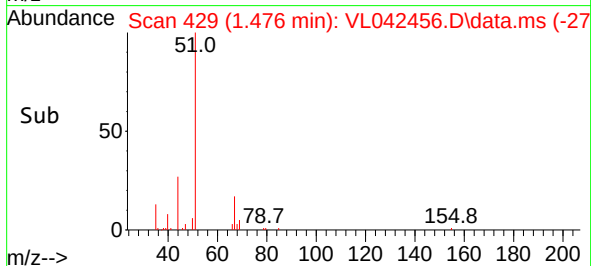
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2



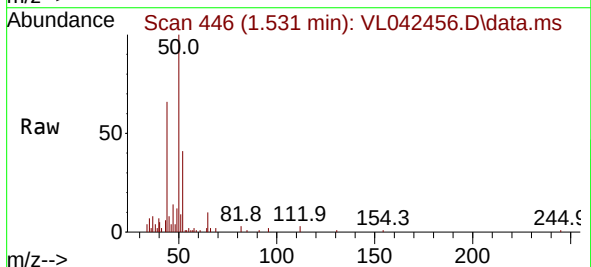
Tgt Ion: 51 Resp: 5392  
Ion Ratio Lower Upper  
51 100  
67 1.5 16.2 24.4

Manual Integrations  
APPROVED

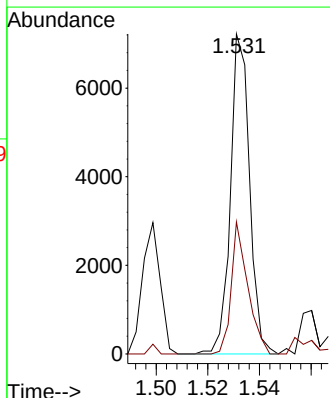
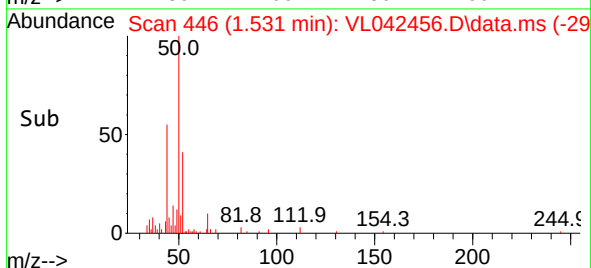
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



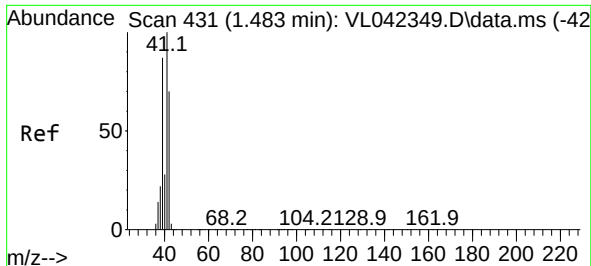
#4  
Chloromethane  
Concen: 0.476 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58



Tgt Ion: 50 Resp: 3721  
Ion Ratio Lower Upper  
50 100  
52 41.2 24.7 37.1







#9

Propene

Concen: 0.273 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_L

ClientSampleId :

B-2

Tgt Ion: 41 Resp: 234

Ion Ratio Lower Upper

41 100

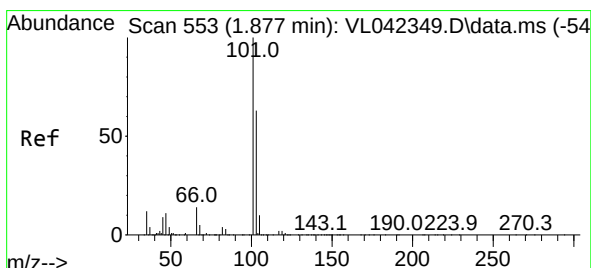
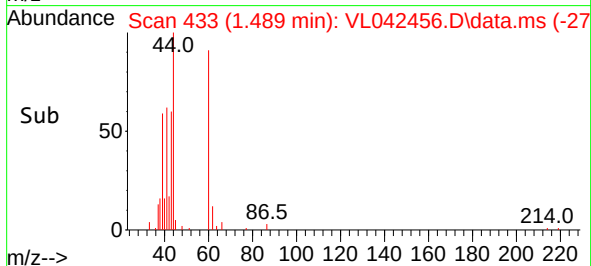
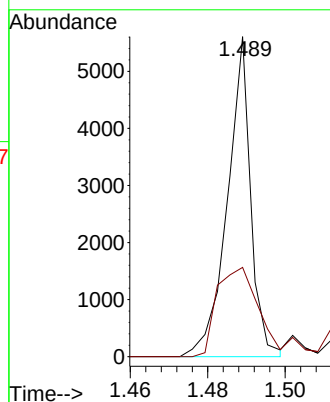
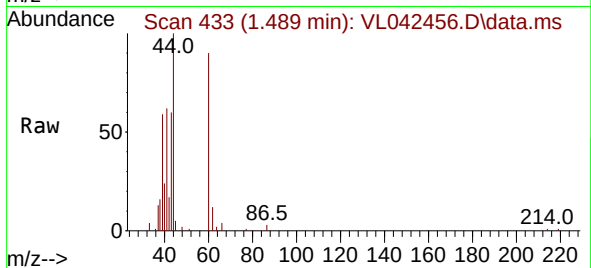
42 64.7 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#11

Trichlorofluoromethane

Concen: 0.245 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.000 min

Lab File: VL042456.D

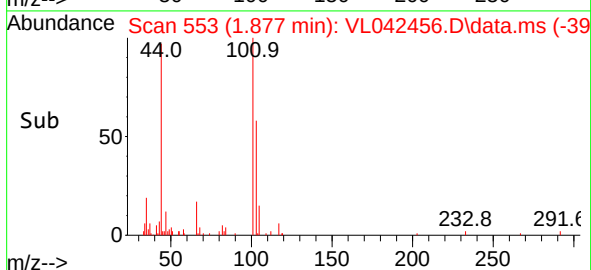
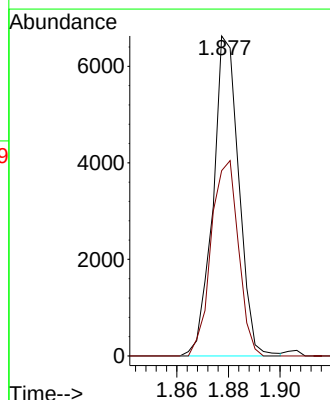
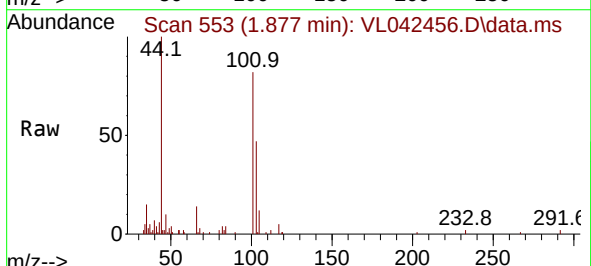
Acq: 29 Apr 2025 21:58

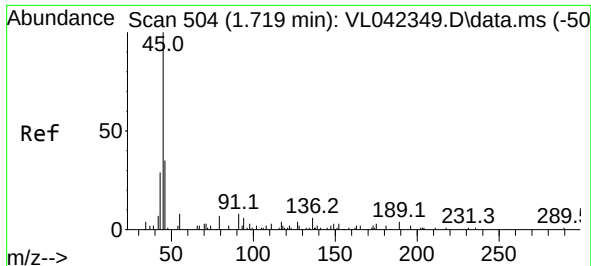
Tgt Ion:101 Resp: 4603

Ion Ratio Lower Upper

101 100

103 57.9 50.1 75.1





#13

Ethanol

Concen: 7.822 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_L

ClientSampleId :

B-2

Tgt Ion: 45 Resp: 10654

Ion Ratio Lower Upper

45 100

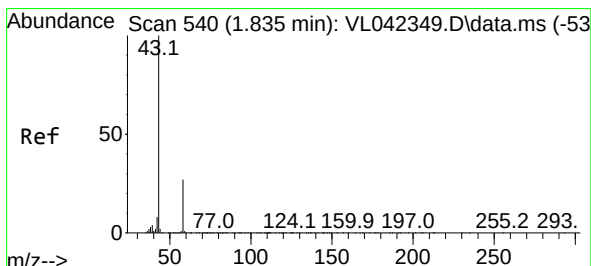
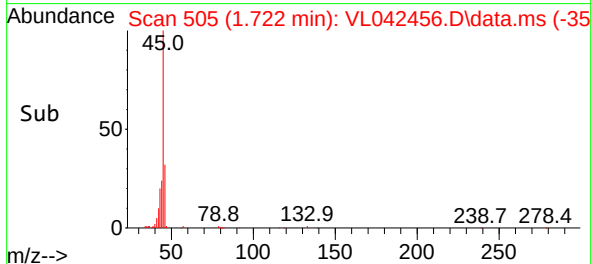
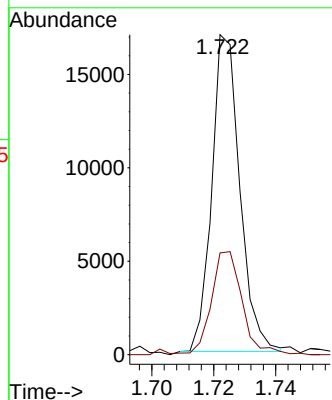
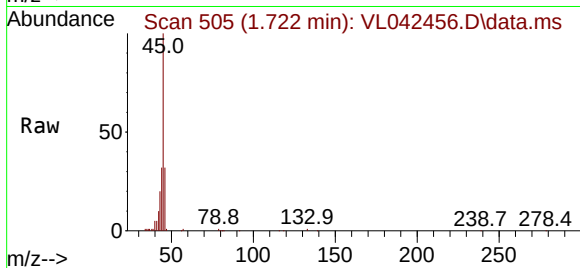
46 0.0 21.9 87.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#15

Acetone

Concen: 3.136 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.003 min

Lab File: VL042456.D

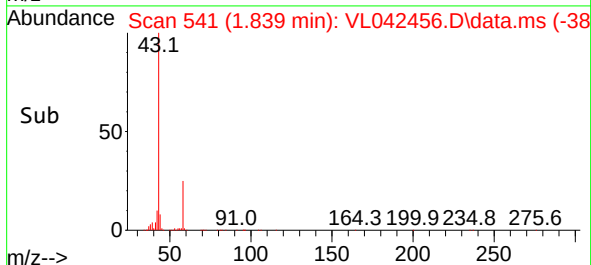
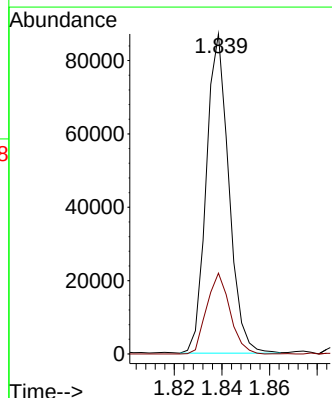
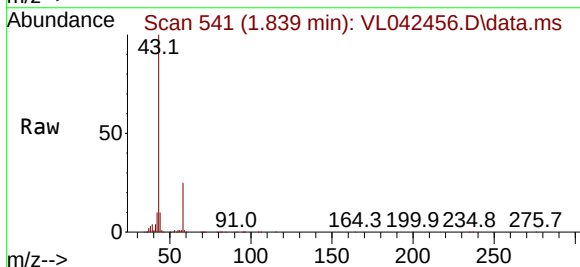
Acq: 29 Apr 2025 21:58

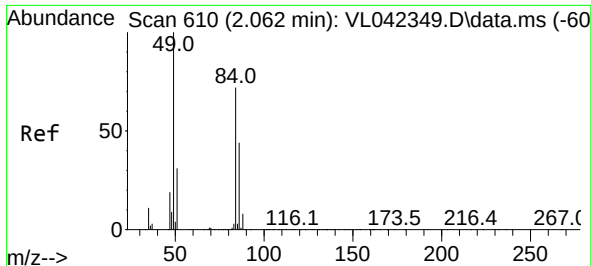
Tgt Ion: 43 Resp: 57407

Ion Ratio Lower Upper

43 100

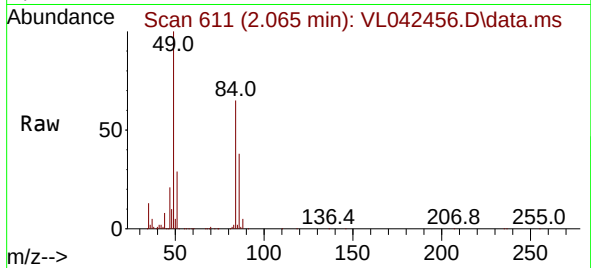
58 26.2 22.4 33.6





#20  
Methylene Chloride  
Concen: 8.056 ppbv  
RT: 2.065 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

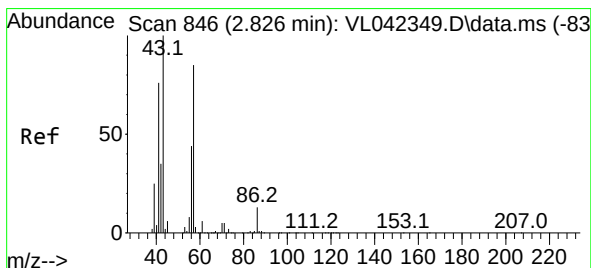
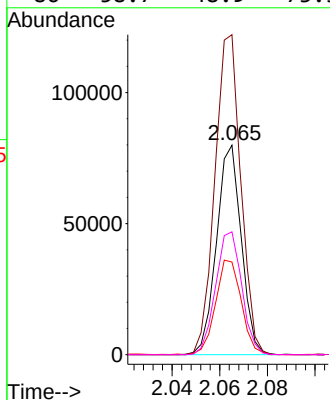
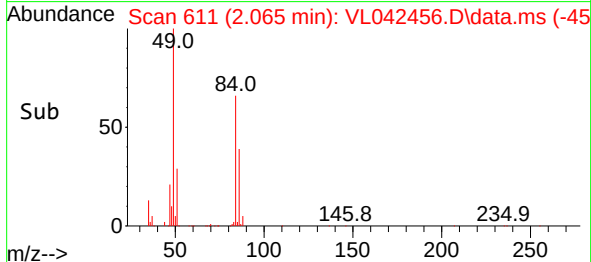
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2



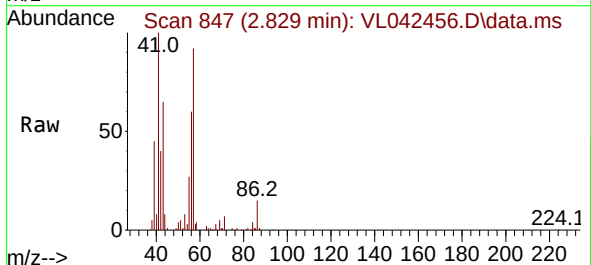
Tgt Ion: 84 Resp: 57764  
Ion Ratio Lower Upper  
84 100  
49 152.8 111.6 167.4  
51 44.1 35.1 52.7  
86 58.7 48.9 73.3

Manual Integrations  
APPROVED

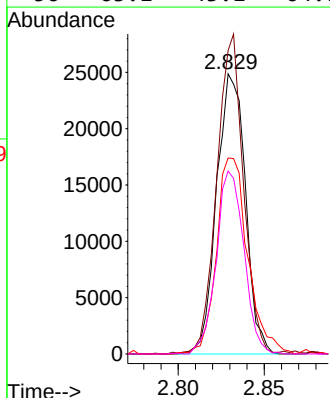
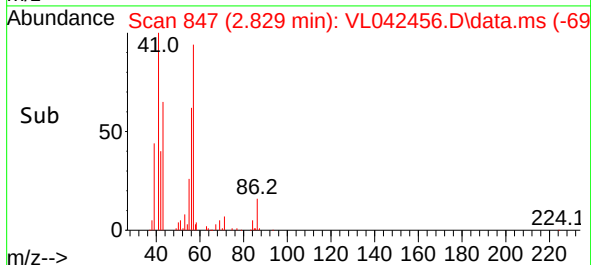
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

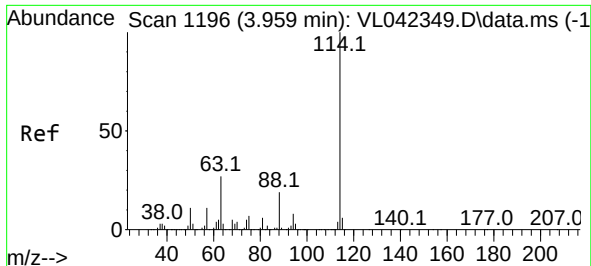


#26  
Hexane  
Concen: 1.582 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58



Tgt Ion: 57 Resp: 28892  
Ion Ratio Lower Upper  
57 100  
41 107.2 77.9 116.9  
43 77.9 208.4 312.6#  
56 63.1 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_L

ClientSampleId :

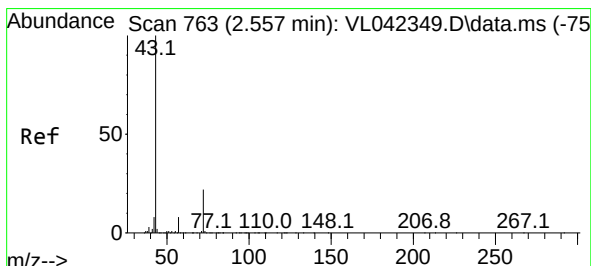
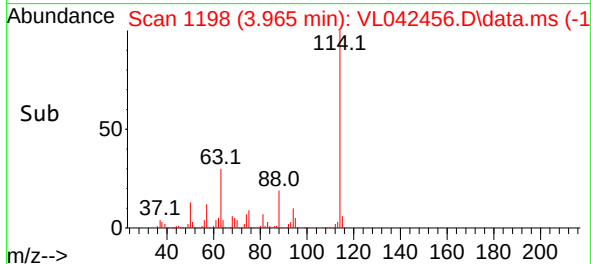
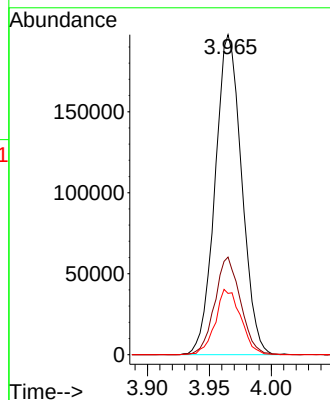
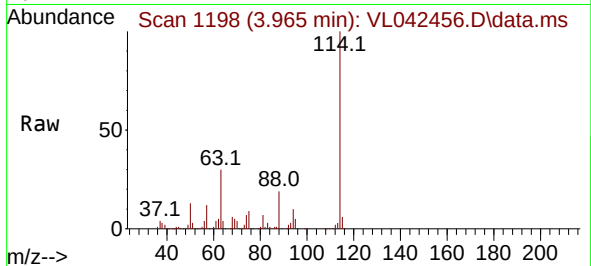
B-2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 295318 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 29.6  | 21.8  | 32.6   |
| 88       | 19.6  | 15.5  | 23.3   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#34

2-Butanone

Concen: 0.197 ppbv

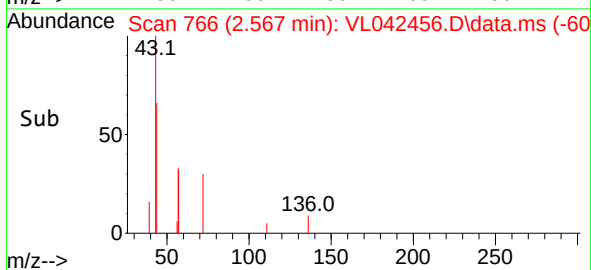
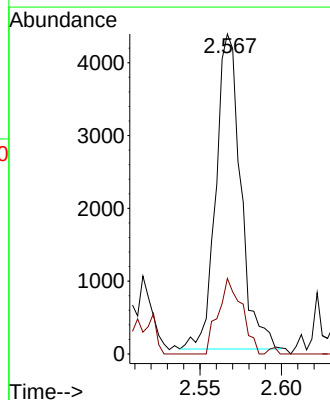
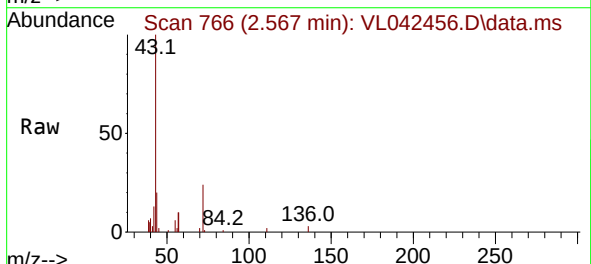
RT: 2.567 min Scan# 766

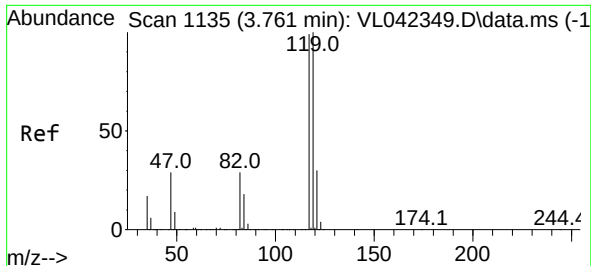
Delta R.T. 0.010 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

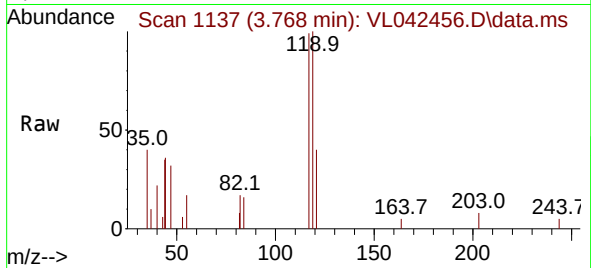
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4598  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 23.4  | 18.2  | 27.2  |





#35  
Carbon Tetrachloride  
Concen: 0.066 ppbv m  
RT: 3.768 min Scan# 1135  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

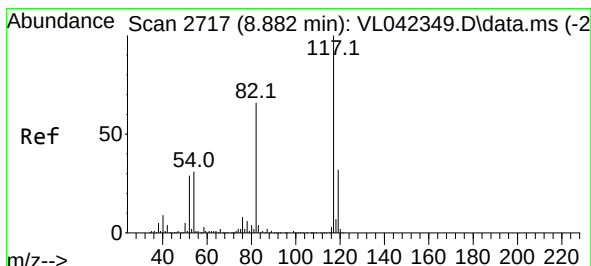
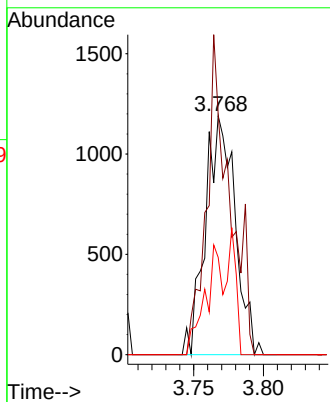
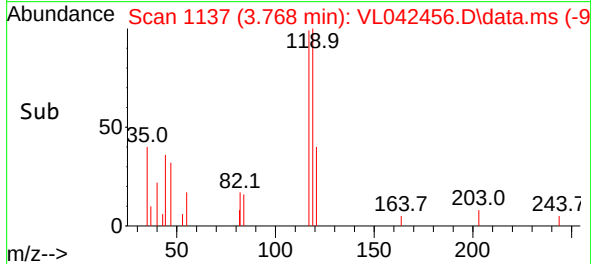
Instrument : MSVOA\_L  
ClientSampleId : B-2



Tgt Ion:117 Resp: 1762  
Ion Ratio Lower Upper  
117 100  
119 100.6 80.5 120.7  
121 40.7 24.2 36.2

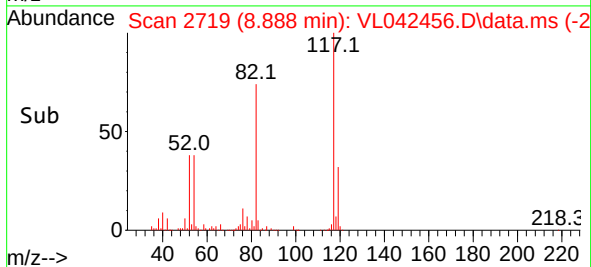
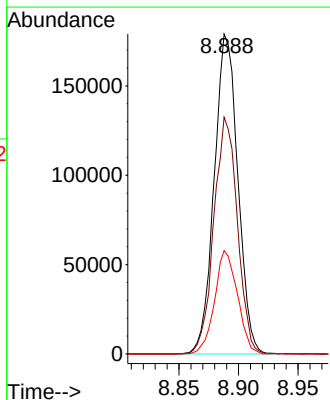
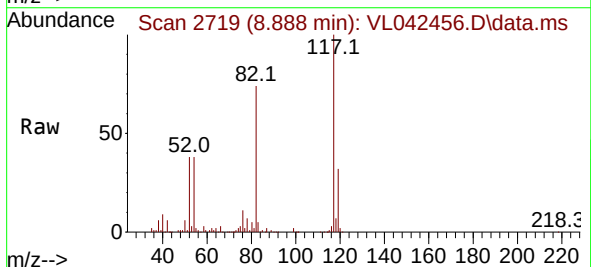
Manual Integrations  
APPROVED

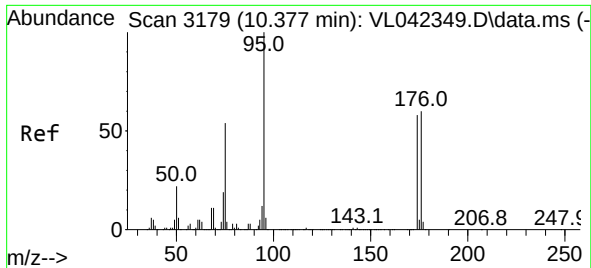
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

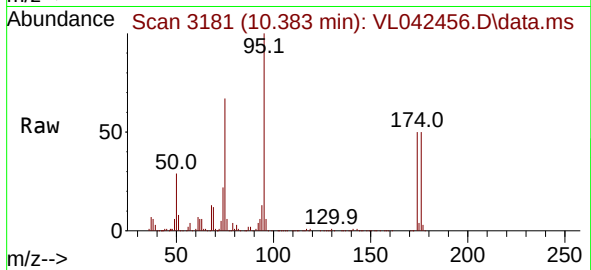
Tgt Ion:117 Resp: 246635  
Ion Ratio Lower Upper  
117 100  
82 73.7 57.8 86.6  
119 31.3 25.2 37.8





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.341 ppbv  
 RT: 10.383 min Scan# 3179  
 Delta R.T. 0.006 min  
 Lab File: VL042456.D  
 Acq: 29 Apr 2025 21:58

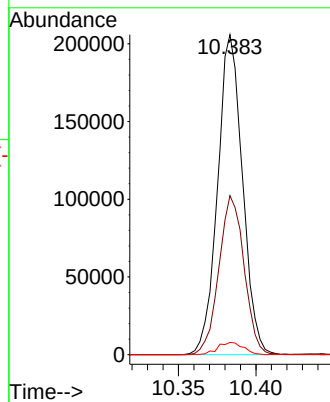
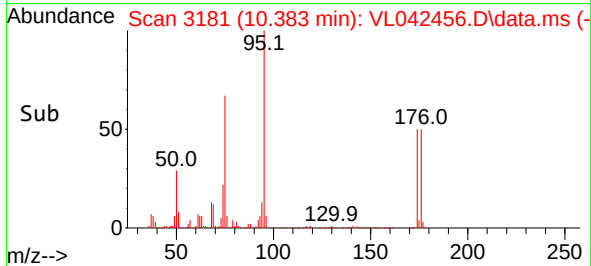
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-2



Tgt Ion: 95 Resp: 22984  
 Ion Ratio Lower Upper  
 95 100  
 174 50.3 48.5 72.7  
 175 4.0 3.7 5.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-3                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-03               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042445.D        | 1         |           | 04/29/25 14:19 | VL042925      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.49          | 2.42           | J         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.47          | 0.97           | J         | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.010         | 0.030          | U         | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.14          | 0.54           | U         | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 0.17          | 0.45           | U         | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.13          | 0.38           | U         | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.23          | 1.29           | J         | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.16          | 1.23           | U         | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.090         | 0.63           | U         | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.19          | 0.58           | U         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.11          | 0.45           | U         | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 0.14          | 0.56           | U         | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 3.50          | 8.31           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.16          | 0.50           | U         | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.12          | 0.43           | U         | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 0.38          | 1.32           | J         | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.19          | 0.75           | U         | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U         | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.52          | 1.53           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.070         | 0.44           |           | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.090         | 0.36           | U         | 0.36  | 1.98       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.080         | 0.39           | U         | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.010         | 0.050          | U         | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.10          | 0.47           | U         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.090         | 0.29           | U         | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U         | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U         | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 0.11          | 0.51           | U         | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.080         | 0.54           | U         | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 0.15          | 0.57           | J         | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.070         | 0.38           | U         | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-3                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-03               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042445.D        | 1         |           | 04/29/25 14:19 | VL042925      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.070         | 0.60           | U         | 0.60                | 4.26       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.070         | 0.54           | U         | 0.54                | 0.77       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.020         | 0.14           | U         | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.080         | 0.37           | U         | 0.37                | 2.30       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 0.21          | 0.91           | U         | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 0.11          | 0.47           | U         | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.060         | 0.62           | U         | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.010         | 0.070          | U         | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 0.11          | 0.57           | U         | 0.57                | 2.59       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 0.11          | 0.54           | U         | 0.54                | 2.46       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 0.080         | 0.39           | U         | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.050         | 0.30           | U         | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.090         | 0.67           | U         | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.090         | 0.96           | U         | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 0.13          | 0.29           | U         | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.080         | 0.42           | U         | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 0.12          | 0.59           | U         | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 1.80          | 6.34           |           | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 0.15          | 0.47           | U         | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 0.21          | 0.76           | U         | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 11.1          |                |           | 70 (65) - 130 (135) | 111%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 117000        |                | 2.794     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 304000        |                | 3.966     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 256000        |                | 8.889     |                     |            |         |



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | RMJ Environomics, Inc. | Date Collected: | 04/28/25 |
| Project:           | 32 Park St Orange NJ   | Date Received:  | 04/28/25 |
| Client Sample ID:  | B-3                    | SDG No.:        | Q1908    |
| Lab Sample ID:     | Q1908-03               | Matrix:         | Air      |
| Analytical Method: | TO-15                  | Test:           | TO-15    |
| Sample Wt/Vol:     | 400                    | Units:          | mL       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042445.D        | 1         |           | 04/29/25 14:19 | VL042925      |

| CAS Number | Parameter | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|

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\VL042925\  
 Data File : VL042445.D  
 Acq On : 29 Apr 2025 14:19  
 Operator : SY/MD  
 Sample : Q1908-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-3

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:20:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.794  | 49    | 116924   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.966  | 114   | 304231   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.889  | 117   | 256038   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.381 | 95    | 232994   | 11.074   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 110.700% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.499  | 85    | 10212    | 0.494    | ppbv   | 95       |
| 3) Chlorodifluoromethane    | 1.480  | 51    | 4938m    | 0.251    | ppbv   |          |
| 4) Chloromethane            | 1.535  | 50    | 3848     | 0.471    | ppbv   | 94       |
| 11) Trichlorofluoromethane  | 1.881  | 101   | 4449     | 0.226    | ppbv   | 95       |
| 13) Ethanol                 | 1.726  | 45    | 6146     | 4.316    | ppbv # | 24       |
| 15) Acetone                 | 1.839  | 43    | 66029    | 3.450    | ppbv   | 97       |
| 19) Isopropyl Alcohol       | 1.891  | 45    | 5336m    | 0.502    | ppbv   |          |
| 20) Methylene Chloride      | 2.062  | 84    | 2823     | 0.377    | ppbv # | 81       |
| 26) Hexane                  | 2.833  | 57    | 34265    | 1.794    | ppbv # | 30       |
| 34) 2-Butanone              | 2.567  | 43    | 12554    | 0.522    | ppbv   | 97       |
| 35) Carbon Tetrachloride    | 3.775  | 117   | 1947m    | 0.071    | ppbv   |          |
| 53) Toluene                 | 6.940  | 91    | 6054     | 0.154    | ppbv   | 97       |
| -----                       |        |       |          |          |        |          |

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

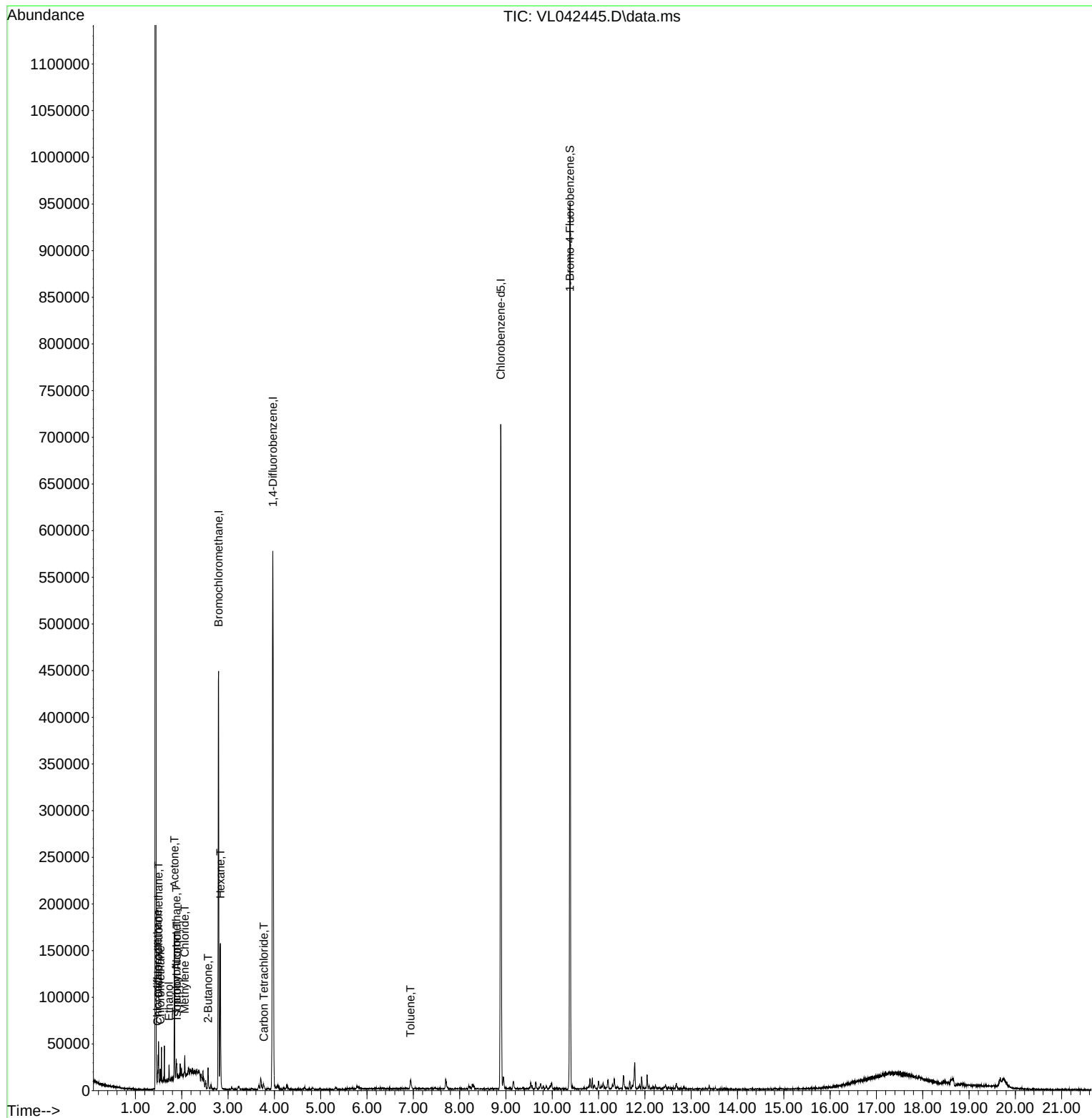
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
Data File : VL042445.D  
Acq On : 29 Apr 2025 14:19  
Operator : SY/MD  
Sample : Q1908-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 8 Sample Multiplier: 1

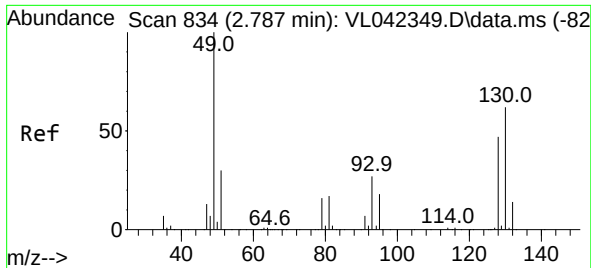
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

Quant Time: Apr 30 01:20:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

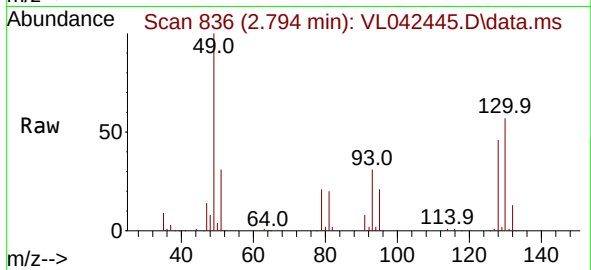
Reviewed By : Semsettin Yesilyurt 04/30/2025  
Supervised By : Mahesh Dadoda 04/30/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 834  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

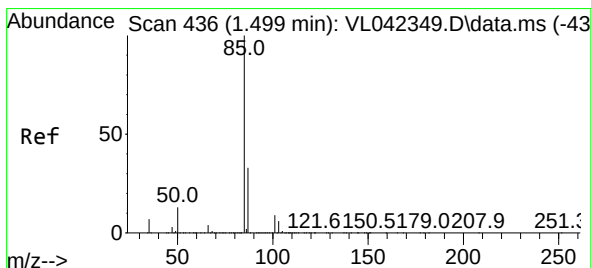
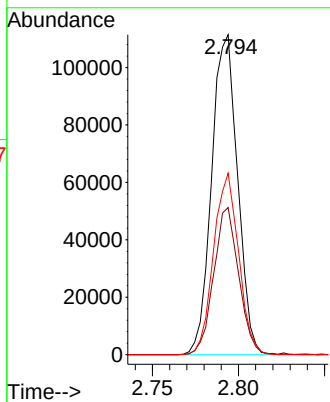
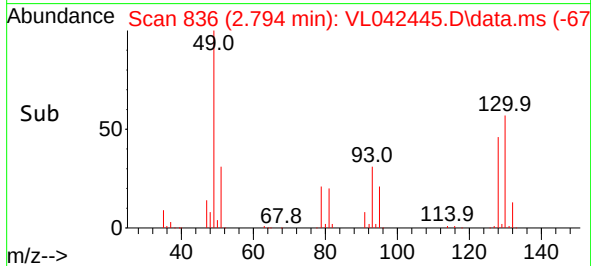
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3



Tgt Ion: 49 Resp: 116924  
Ion Ratio Lower Upper  
49 100  
128 44.4 22.8 68.4  
130 54.8 29.3 88.0

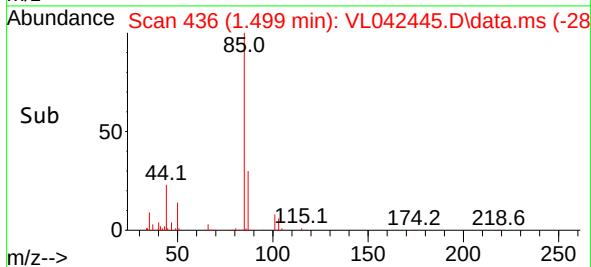
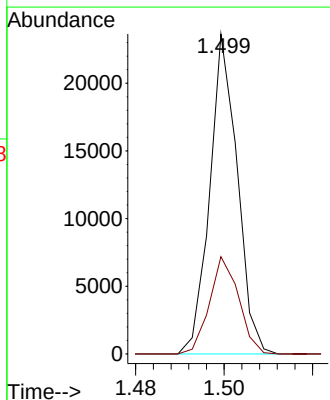
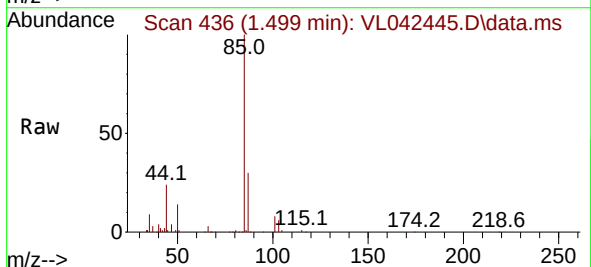
Manual Integrations  
APPROVED

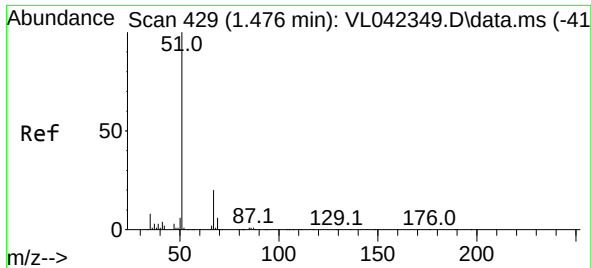
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#2  
Dichlorodifluoromethane  
Concen: 0.494 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.001 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

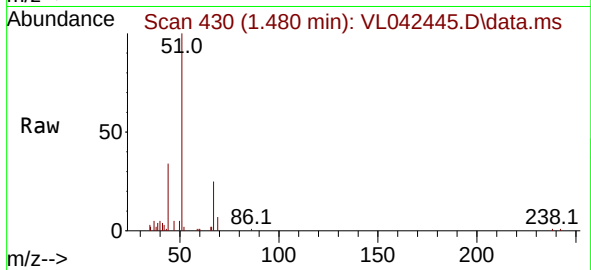
Tgt Ion: 85 Resp: 10212  
Ion Ratio Lower Upper  
85 100  
87 30.4 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 0.251 ppbv m  
RT: 1.480 min Scan# 41  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

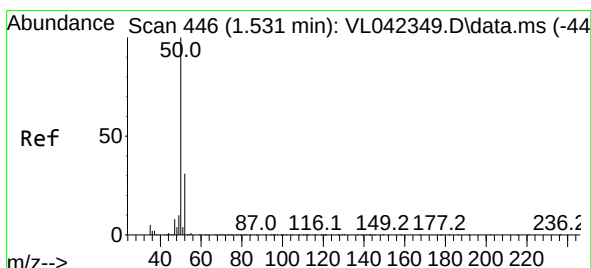
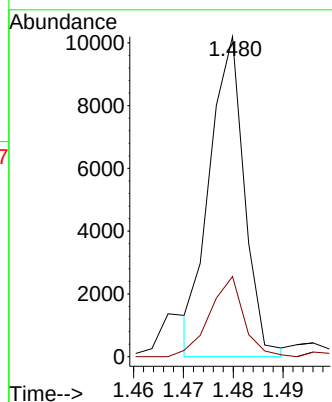
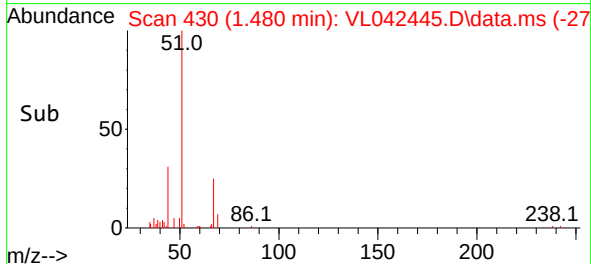
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3



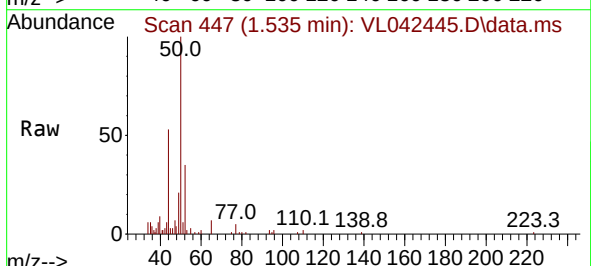
Tgt Ion: 51 Resp: 4938  
Ion Ratio Lower Upper  
51 100  
67 27.5 16.2 24.4

Manual Integrations  
APPROVED

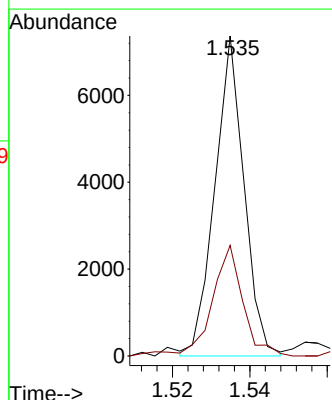
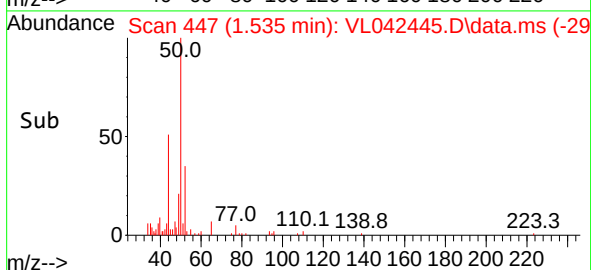
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

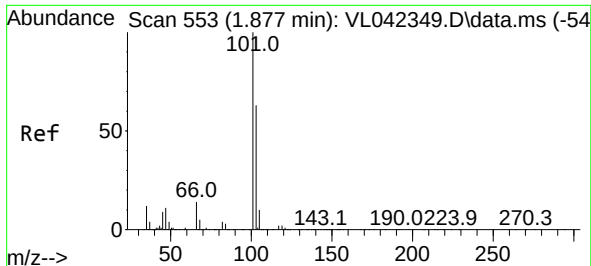


#4  
Chloromethane  
Concen: 0.471 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19



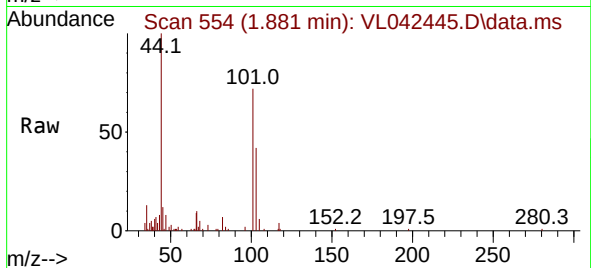
Tgt Ion: 50 Resp: 3848  
Ion Ratio Lower Upper  
50 100  
52 34.2 24.7 37.1





#11  
Trichlorofluoromethane  
Concen: 0.226 ppbv  
RT: 1.881 min Scan# 506  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

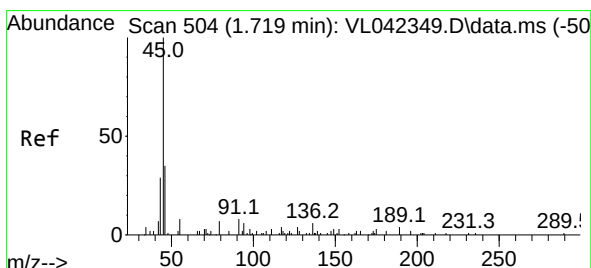
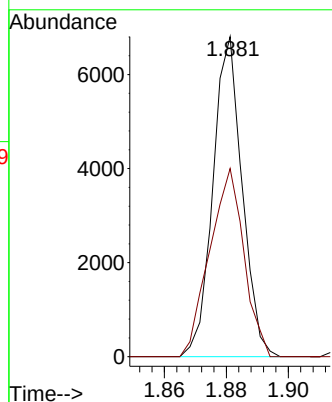
Instrument :  
MSVOA\_L  
Client Sample Id :  
B-3



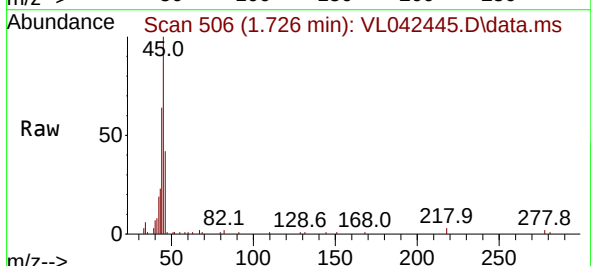
Tgt Ion: 101 Resp: 4449  
Ion Ratio Lower Upper  
101 100  
103 58.8 50.1 75.1

Manual Integrations  
APPROVED

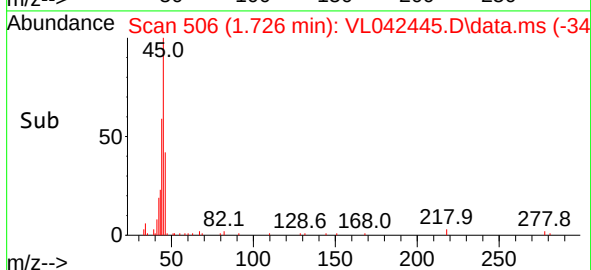
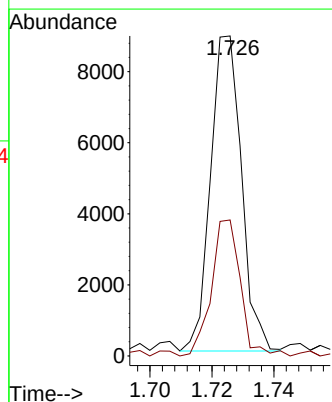
Reviewed By : Semsettin Yesilyurt 04/30/2025  
Supervised By : Mahesh Dadoda 04/30/2025

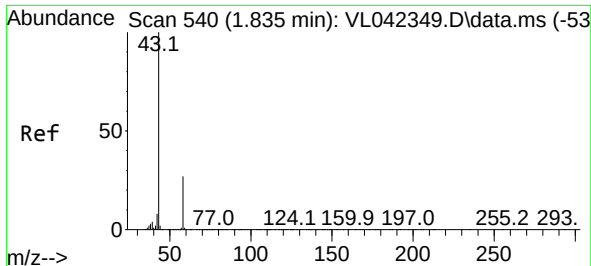


#13  
Ethanol  
Concen: 4.316 ppbv  
RT: 1.726 min Scan# 506  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19



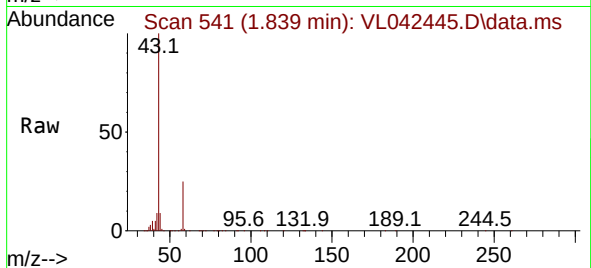
Tgt Ion: 45 Resp: 6146  
Ion Ratio Lower Upper  
45 100  
46 0.0 21.9 87.7#





#15  
Acetone  
Concen: 3.450 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

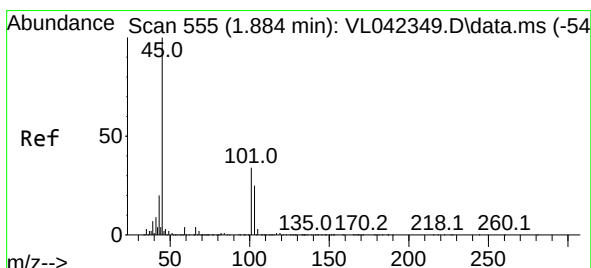
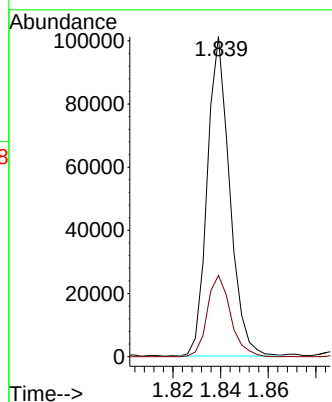
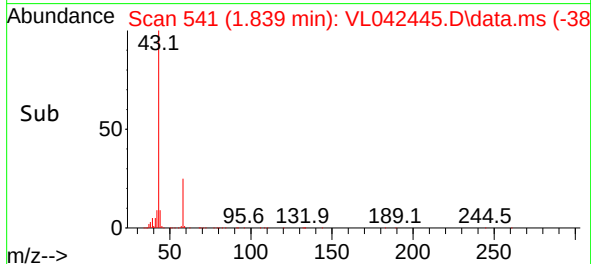
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3



Tgt Ion: 43 Resp: 66029  
Ion Ratio Lower Upper  
43 100  
58 26.4 22.4 33.6

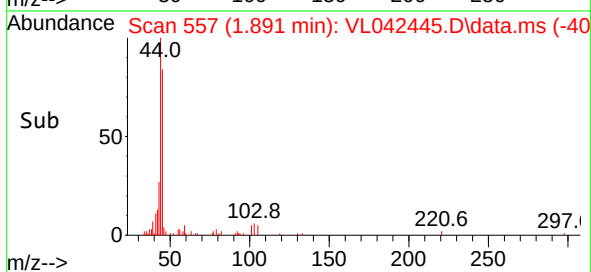
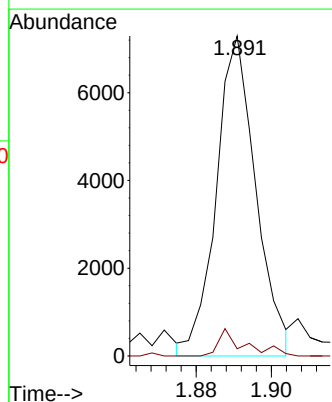
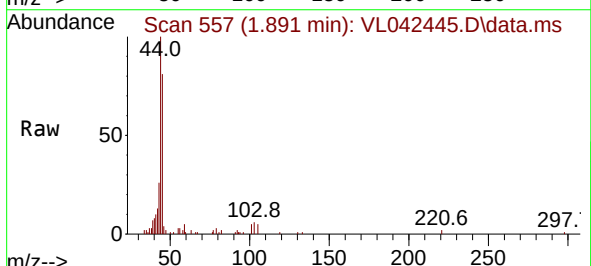
Manual Integrations  
APPROVED

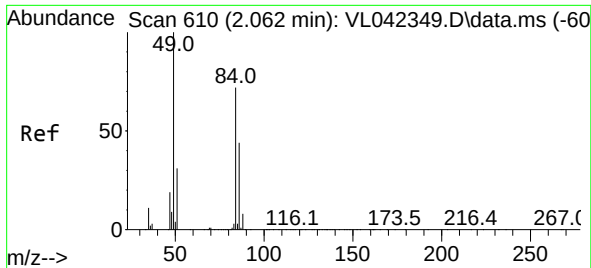
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#19  
Isopropyl Alcohol  
Concen: 0.502 ppbv m  
RT: 1.891 min Scan# 557  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

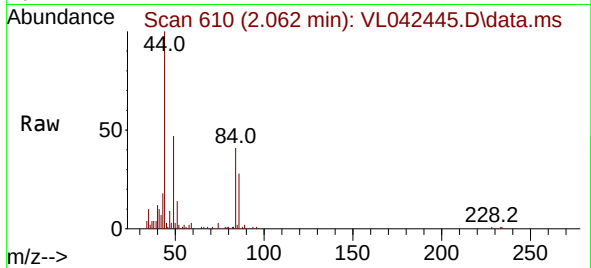
Tgt Ion: 45 Resp: 5336  
Ion Ratio Lower Upper  
45 100  
58 22.2 34.5 51.7#





#20  
Methylene Chloride  
Concen: 0.377 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.000 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

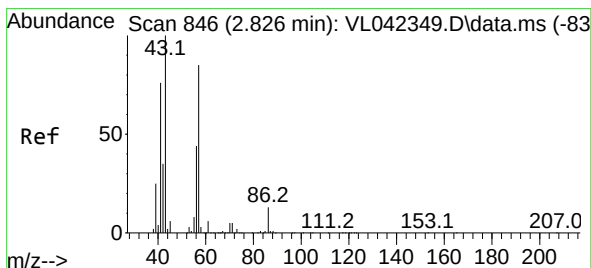
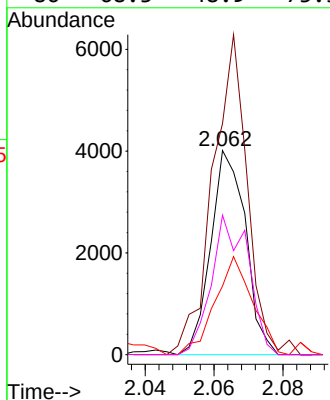
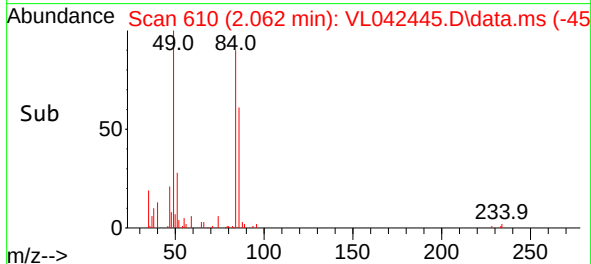
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3



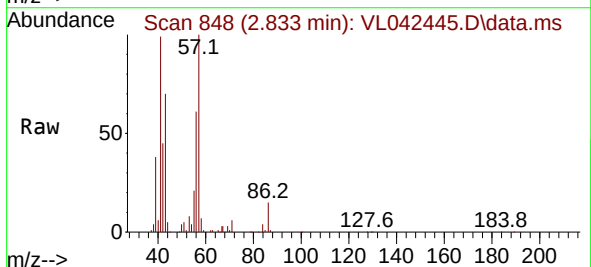
| Tgt Ion: | 84    | Resp: | 282   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 110.9 | 111.6 | 167.4 |
| 51       | 33.6  | 35.1  | 52.7  |
| 86       | 68.3  | 48.9  | 73.3  |

Manual Integrations  
APPROVED

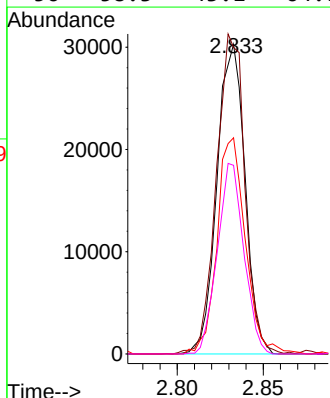
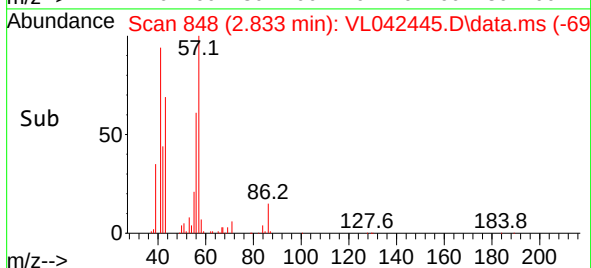
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



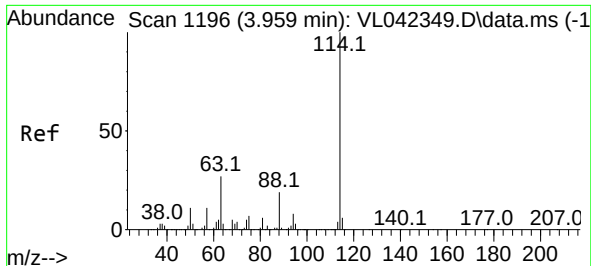
#26  
Hexane  
Concen: 1.794 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19



| Tgt Ion: | 57    | Resp: | 34265 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 105.5 | 77.9  | 116.9 |
| 43       | 70.9  | 208.4 | 312.6 |
| 56       | 58.3  | 43.1  | 64.7  |

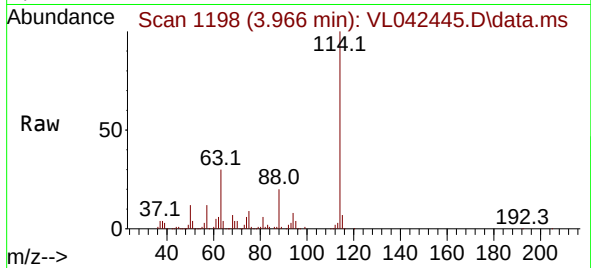






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.966 min Scan# 1196  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

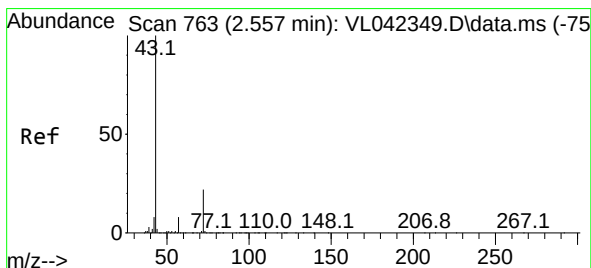
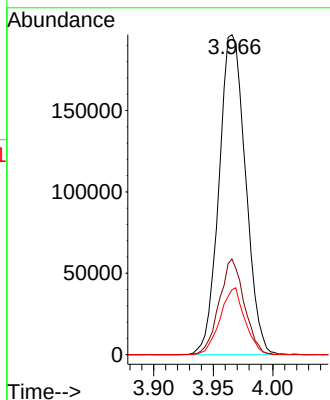
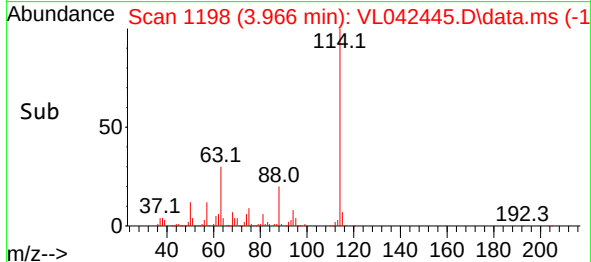
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3



Tgt Ion:114 Resp: 30423  
Ion Ratio Lower Upper  
114 100  
63 28.3 21.8 32.6  
88 19.6 15.5 23.3

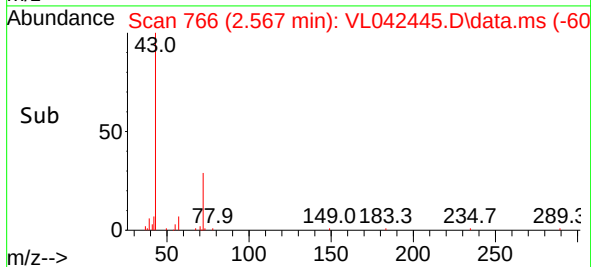
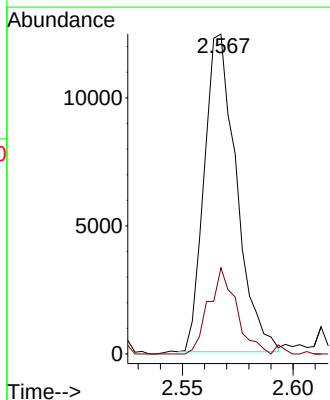
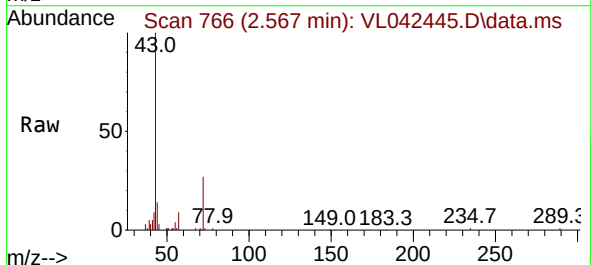
Manual Integrations  
APPROVED

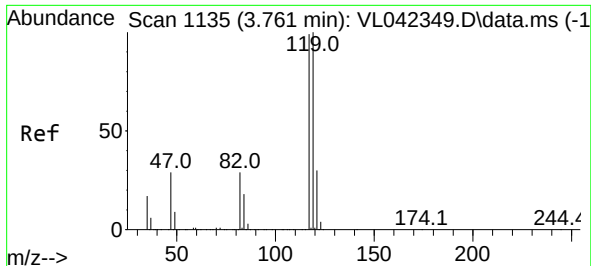
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#34  
2-Butanone  
Concen: 0.522 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.010 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

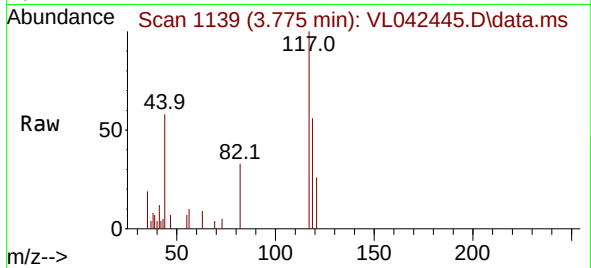
Tgt Ion: 43 Resp: 12554  
Ion Ratio Lower Upper  
43 100  
72 24.2 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 0.071 ppbv m  
RT: 3.775 min Scan# 1135  
Delta R.T. 0.013 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

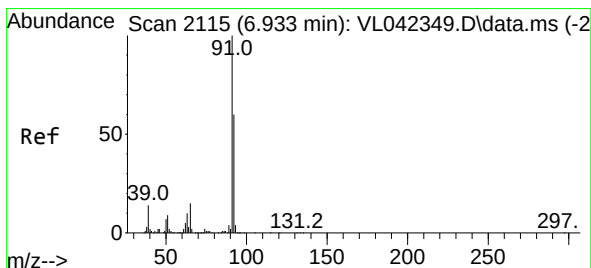
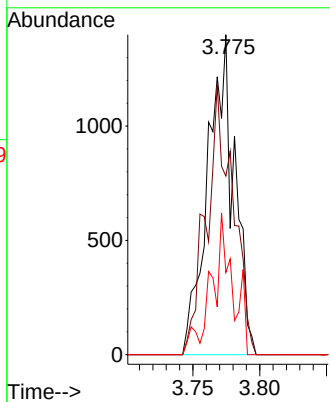
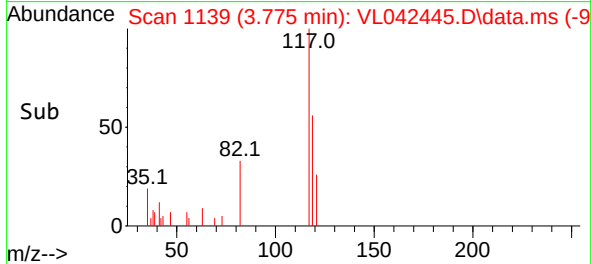
Instrument : MSVOA\_L  
ClientSampleId : B-3



Tgt Ion: 117 Resp: 194  
Ion Ratio Lower Upper  
117 100  
119 55.8 80.5 120.7  
121 25.7 24.2 36.2

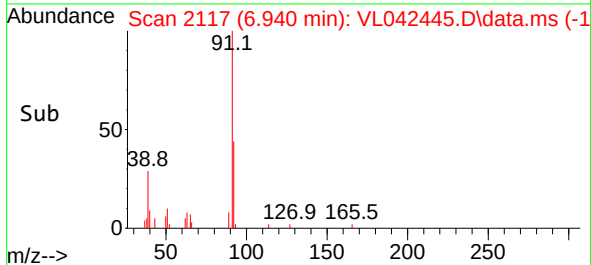
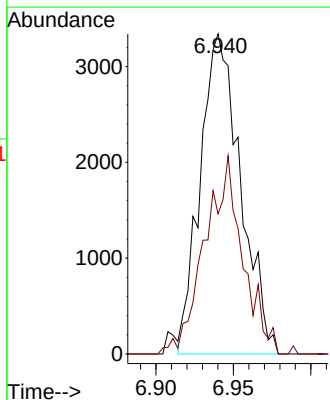
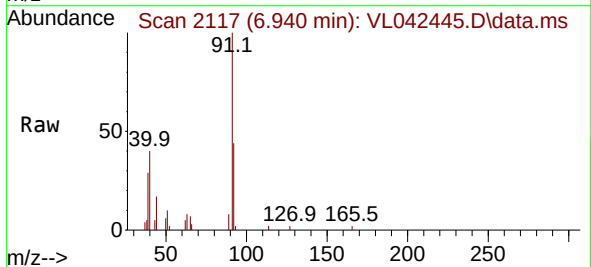
Manual Integrations  
APPROVED

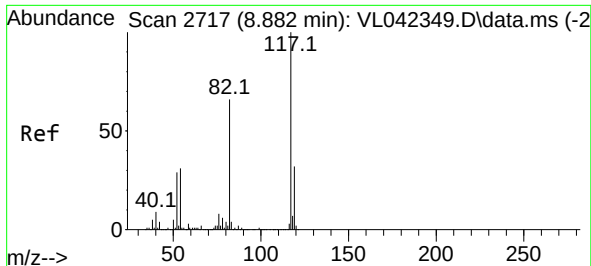
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#53  
Toluene  
Concen: 0.154 ppbv  
RT: 6.940 min Scan# 2117  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

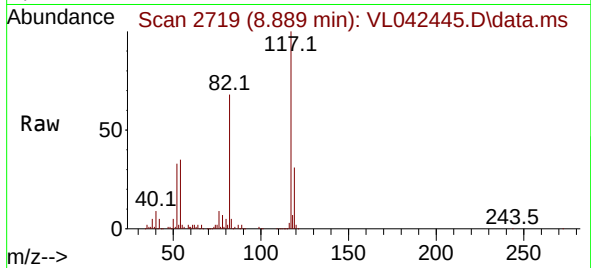
Tgt Ion: 91 Resp: 6054  
Ion Ratio Lower Upper  
91 100  
92 58.1 48.2 72.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.889 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

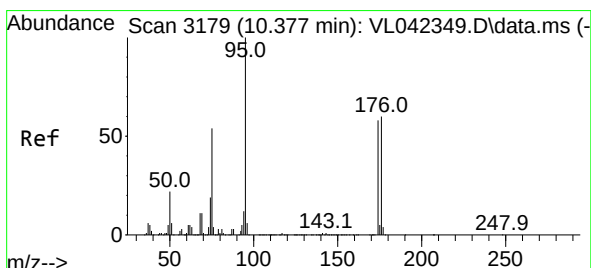
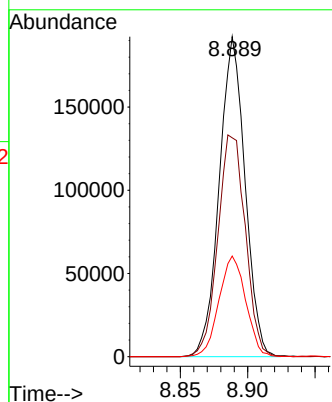
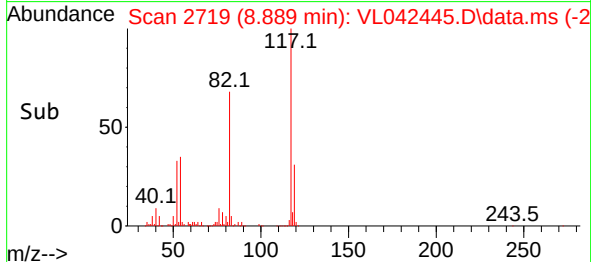
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3



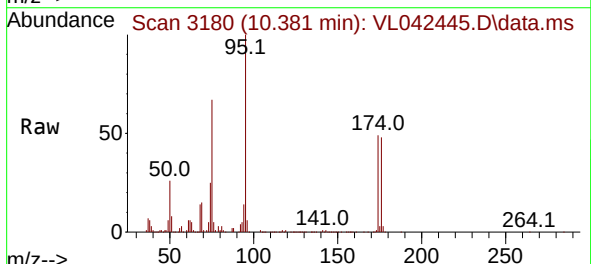
Tgt Ion: 117 Resp: 256038  
Ion Ratio Lower Upper  
117 100  
82 73.8 57.8 86.6  
119 32.7 25.2 37.8

Manual Integrations  
APPROVED

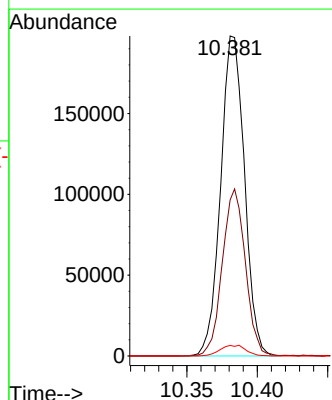
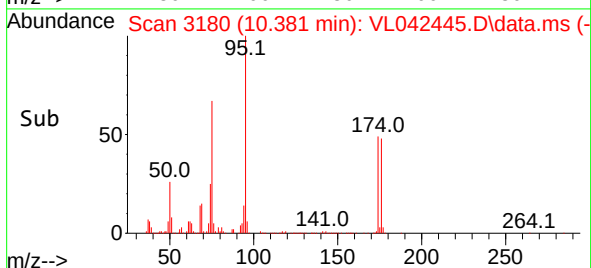
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.074 ppbv  
RT: 10.381 min Scan# 3180  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19



Tgt Ion: 95 Resp: 232994  
Ion Ratio Lower Upper  
95 100  
174 50.6 48.5 72.7  
175 3.6 3.7 5.5





# CALIBRATION SUMMARY

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

Method File : VL041725AIR.M

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

Last Update : Fri Apr 18 02:14:00 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.831 | 1.837 | 1.827 | 1.658 | 1.682 | 1.767 | 5.05  |
| 3) Chlorodifluoro...      |                |       | 1.876 | 1.657 | 1.698 | 1.573 | 1.608 | 1.682 | 7.01  |
| 4) Chloromethane          |                |       | 0.752 | 0.725 | 0.701 | 0.652 | 0.665 | 0.699 | 5.93  |
| 5) T Vinyl Chloride       | 1.002          | 0.911 | 0.731 | 0.709 | 0.689 | 0.638 | 0.647 | 0.761 | 18.39 |
| 6) T Bromomethane         |                |       | 0.397 | 0.330 | 0.300 | 0.304 | 0.303 | 0.327 | 12.56 |
| 7) Chloroethane           |                |       | 0.303 | 0.287 | 0.280 | 0.253 | 0.255 | 0.275 | 7.76  |
| 8) T Dichlorotetra...     |                |       | 1.556 | 1.550 | 1.581 | 1.432 | 1.465 | 1.517 | 4.25  |
| 9) T Propene              |                |       | 0.880 | 0.797 | 0.758 | 0.690 | 0.707 | 0.766 | 9.95  |
| 10) T Heptane             |                |       | 2.444 | 2.296 | 2.209 | 1.884 | 1.931 | 2.153 | 11.14 |
| 11) T Trichlorofluor...   |                |       | 1.684 | 1.806 | 1.746 | 1.567 | 1.597 | 1.680 | 5.95  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.389 | 1.439 | 1.437 | 1.281 | 1.323 | 1.374 | 5.11  |
| 13) Ethanol               |                |       | 0.275 | 0.139 | 0.123 | 0.035 | 0.036 | 0.122 | 80.54 |
| 14) T Bromoethene         |                |       | 0.537 | 0.545 | 0.530 | 0.490 | 0.487 | 0.518 | 5.24  |
| 15) T Acetone             |                |       | 1.968 | 1.895 | 1.743 | 1.263 | 1.316 | 1.637 | 20.03 |
| 16) T 1,3-Butadiene       |                |       | 1.015 | 0.836 | 0.735 | 0.651 | 0.678 | 0.783 | 18.90 |
| 17) tert-Butyl alc...     |                |       | 2.263 | 2.132 | 2.103 | 1.804 | 1.841 | 2.029 | 9.76  |
| 18) T 1,1-Dichloroet...   |                |       | 0.735 | 0.635 | 0.637 | 0.583 | 0.618 | 0.642 | 8.79  |
| 19) T Isopropyl Alcohol   |                |       | 1.050 | 0.980 | 0.897 | 0.821 | 0.798 | 0.909 | 11.66 |
| 20) T Methylene Chlo...   |                |       | 0.875 | 0.728 | 0.582 | 0.498 | 0.523 | 0.641 | 24.71 |
| 21) T Allyl Chloride      |                |       | 1.276 | 1.213 | 1.110 | 0.973 | 1.080 | 1.130 | 10.44 |
| 22) T trans-1,2-Dich...   |                |       | 0.814 | 0.759 | 0.736 | 0.664 | 0.681 | 0.731 | 8.32  |
| 23) T Vinyl Acetate       |                |       | 0.656 | 0.744 | 0.749 | 0.555 | 0.610 | 0.663 | 12.72 |
| 24) T 1,1-Dichloroet...   |                |       | 1.452 | 1.469 | 1.383 | 1.284 | 1.352 | 1.388 | 5.43  |
| 25) T Ethyl Acetate       |                |       | 4.428 | 4.147 | 4.118 | 3.677 | 3.812 | 4.036 | 7.34  |
| 26) T Hexane              |                |       | 1.899 | 1.719 | 1.625 | 1.424 | 1.499 | 1.633 | 11.45 |
| 27) T Carbon Disulfide    |                |       | 1.903 | 1.670 | 1.785 | 1.668 | 1.718 | 1.749 | 5.63  |
| 28) T Methyl tert-Bu...   |                |       | 1.134 | 1.141 | 1.132 | 0.940 | 1.004 | 1.070 | 8.64  |
| 29) T Chloroform          |                |       | 2.458 | 2.333 | 2.392 | 2.145 | 2.215 | 2.309 | 5.54  |
| 30) T Cyclohexane         |                |       | 1.422 | 1.333 | 1.347 | 1.252 | 1.249 | 1.320 | 5.50  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.588 | 1.603 | 1.593 | 1.459 | 1.522 | 1.553 | 3.95  |
| 32) T 1,1,1-Trichlor...   | 3.110          | 2.840 | 2.557 | 2.549 | 2.493 | 2.274 | 2.369 | 2.599 | 11.03 |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.886 | 0.826 | 0.818 | 0.687 | 0.737 | 0.791 | 9.94  |
| 35) T Carbon Tetrach...   | 1.319          | 0.914 | 0.832 | 0.830 | 0.847 | 0.770 | 0.823 | 0.905 | 20.70 |
| 36) T Benzene             |                |       | 1.146 | 1.075 | 1.121 | 1.002 | 1.048 | 1.079 | 5.31  |
| 37) T 1,2-Dichloroet...   |                |       | 0.691 | 0.647 | 0.666 | 0.592 | 0.641 | 0.647 | 5.63  |
| 38) T Trichloroethene     | 0.643          | 0.505 | 0.443 | 0.448 | 0.447 | 0.395 | 0.419 | 0.471 | 17.59 |
| 39) T 1,2-Dichloropr...   |                |       | 0.441 | 0.413 | 0.405 | 0.370 | 0.381 | 0.402 | 6.97  |

|                                                  |                   |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |                   |       |       |       |       |       |       |       |       |       |
| Method File : VL041725AIR.M                      |                   |       |       |       |       |       |       |       |       |       |
| 40) T                                            | 1,4-Dioxane       |       |       | 0.263 | 0.243 | 0.232 | 0.182 | 0.185 | 0.221 | 16.27 |
| 41) T                                            | Tetrahydrofuran   |       |       | 0.518 | 0.480 | 0.468 | 0.409 | 0.432 | 0.461 | 9.20  |
| 42) T                                            | Bromodichlorom... |       |       | 0.943 | 0.909 | 0.912 | 0.852 | 0.889 | 0.901 | 3.71  |
| 43) T                                            | Methyl Methacr... |       |       | 0.545 | 0.520 | 0.495 | 0.430 | 0.441 | 0.486 | 10.21 |
| 44) T                                            | 2,2,4-Trimethy... |       |       | 1.935 | 1.916 | 1.962 | 1.708 | 1.794 | 1.863 | 5.79  |
| 45) T                                            | t-1,3-Dichloro... |       |       | 0.514 | 0.510 | 0.509 | 0.459 | 0.491 | 0.497 | 4.60  |
| 46) T                                            | cis-1,3-Dichlo... |       |       | 0.613 | 0.617 | 0.637 | 0.570 | 0.603 | 0.608 | 4.05  |
| 47) T                                            | 1,1,2-Trichlor... |       |       | 0.423 | 0.429 | 0.420 | 0.376 | 0.399 | 0.410 | 5.32  |
| 48) T                                            | Dibromochlorom... |       |       | 0.743 | 0.721 | 0.746 | 0.679 | 0.729 | 0.723 | 3.70  |
| 49) T                                            | Bromoform         |       |       | 0.622 | 0.623 | 0.675 | 0.616 | 0.627 | 0.633 | 3.82  |
| 50) T                                            | 4-Methyl-2-Pen... |       |       | 1.541 | 1.382 | 1.435 | 1.082 | 1.132 | 1.314 | 15.12 |
| 51) T                                            | 2-Hexanone        |       |       | 1.341 | 1.311 | 1.411 | 0.893 | 0.938 | 1.179 | 20.69 |
| 52) T                                            | Tetrachloroethene | 0.543 | 0.452 | 0.420 | 0.393 | 0.391 | 0.357 | 0.363 | 0.417 | 15.46 |
| 53) T                                            | Toluene           |       |       | 1.371 | 1.295 | 1.370 | 1.193 | 1.244 | 1.294 | 6.03  |
| 54) T                                            | 1,2-Dibromoethane |       | 0.621 | 0.582 | 0.605 | 0.606 | 0.539 | 0.562 | 0.586 | 5.27  |
| -----ISTD-----                                   |                   |       |       |       |       |       |       |       |       |       |
| 55) I                                            | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56) T                                            | 1,1,1,2-Tetrac... |       |       | 0.621 | 0.640 | 0.635 | 0.550 | 0.581 | 0.605 | 6.37  |
| 57) T                                            | Chlorobenzene     |       |       | 1.129 | 1.067 | 1.068 | 0.956 | 0.981 | 1.040 | 6.79  |
| 58) T                                            | Ethyl Benzene     |       |       | 2.029 | 2.088 | 2.068 | 1.832 | 1.890 | 1.981 | 5.73  |
| 59) T                                            | m/p-Xylene        |       |       | 1.685 | 1.682 | 1.658 | 1.456 | 1.500 | 1.596 | 6.86  |
| 60) T                                            | o-Xylene          |       |       | 1.740 | 1.697 | 1.668 | 1.442 | 1.490 | 1.607 | 8.25  |
| 61) T                                            | Styrene           |       |       | 0.792 | 0.776 | 0.808 | 0.726 | 0.734 | 0.767 | 4.68  |
| 62) T                                            | Isopropylbenzene  |       |       | 2.517 | 2.470 | 2.439 | 2.170 | 2.202 | 2.360 | 6.83  |
| 63) T                                            | 1,1,2,2-Tetrac... | 1.407 | 1.176 | 0.990 | 0.985 | 0.968 | 0.873 | 0.892 | 1.042 | 18.12 |
| 64) T                                            | n-propylbenzene   |       |       | 0.645 | 0.605 | 0.610 | 0.542 | 0.564 | 0.593 | 6.81  |
| 65) T                                            | tert-Butylbenzene |       |       | 2.319 | 2.358 | 2.315 | 1.907 | 1.945 | 2.169 | 10.27 |
| 66) T                                            | Benzyl Chloride   |       |       | 0.241 | 0.239 | 0.258 | 0.246 | 0.208 | 0.238 | 7.84  |
| 67) T                                            | sec-Butylbenzene  |       |       | 3.242 | 3.219 | 3.253 | 2.662 | 2.709 | 3.017 | 10.05 |
| 68) S                                            | 1-Bromo-4-Fluo... | 0.819 | 0.814 | 0.824 | 0.818 | 0.822 | 0.831 | 0.825 | 0.822 | 0.69  |
| 69) T                                            | p-Isopropyltol... |       |       | 2.834 | 2.818 | 2.811 | 2.304 | 2.338 | 2.621 | 10.46 |
| 70) T                                            | n-Butylbenzene    |       |       | 2.985 | 2.926 | 2.953 | 2.370 | 2.414 | 2.730 | 11.33 |
| 71) T                                            | 2-Chlorotoluene   |       |       | 1.972 | 1.924 | 1.920 | 1.695 | 1.744 | 1.851 | 6.65  |
| 72) T                                            | 4-Ethyltoluene    |       |       | 2.055 | 2.118 | 2.054 | 1.765 | 1.833 | 1.965 | 7.92  |
| 73) T                                            | 1,3,5-Trimethy... |       |       | 1.894 | 1.851 | 1.841 | 1.517 | 1.570 | 1.735 | 10.19 |
| 74) T                                            | 1,2,4-Trimethy... |       |       | 2.348 | 2.245 | 2.168 | 1.671 | 1.698 | 2.026 | 15.71 |
| 75) T                                            | 1,3-Dichlorobe... |       |       | 1.119 | 1.121 | 1.119 | 0.948 | 0.960 | 1.053 | 8.64  |
| 76) T                                            | 1,4-Dichlorobe... |       |       | 1.138 | 1.115 | 1.122 | 0.944 | 0.974 | 1.059 | 8.69  |
| 77) T                                            | 1,2-Dichlorobe... |       |       | 1.085 | 1.093 | 1.114 | 0.904 | 0.924 | 1.024 | 9.88  |
| 78) T                                            | Hexachloro-1,3... |       |       | 1.163 | 1.136 | 1.135 | 0.863 | 0.874 | 1.034 | 14.66 |
| 79) T                                            | Naphthalene       |       | 2.433 | 2.395 | 2.756 | 2.909 | 2.004 | 2.040 | 2.423 | 15.11 |
| 80) T                                            | Naphthalene,2-... |       |       | 1.311 | 1.534 | 1.777 | 1.115 | 1.168 | 1.381 | 19.88 |
| 81) T                                            | 1,2,4-Trichlor... |       |       | 1.026 | 1.117 | 1.224 | 0.905 | 0.929 | 1.040 | 12.75 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042349.D  
 Acq On : 17 Apr 2025 09:44  
 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 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 125455   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 366544   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 338126   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 281013 10.114 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 207962 | 9.382 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 197334 | 9.350 | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 81843  | 9.330 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.580 | 62  | 80068  | 8.385 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 38128  | 9.219 | ppbv   | 100    |
| 7) Chloroethane               | 1.703 | 64  | 31705  | 9.182 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 179696 | 9.442 | ppbv   | 100    |
| 9) Propene                    | 1.483 | 41  | 86530  | 9.002 | ppbv   | 100    |
| 10) Heptane                   | 4.978 | 43  | 236341 | 9.138 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 196596 | 9.327 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 160682 | 9.323 | ppbv   | 100    |
| 13) Ethanol                   | 1.719 | 45  | 4439   | 5.651 | ppbv   | 100    |
| 14) Bromoethene               | 1.780 | 108 | 61493  | 9.466 | ppbv   | 100    |
| 15) Acetone                   | 1.835 | 43  | 158490 | 7.717 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 81688  | 8.470 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 226280 | 8.891 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 73186  | 8.833 | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 103029 | 9.031 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 62414  | 7.760 | ppbv   | 100    |
| 21) Allyl Chloride            | 2.094 | 41  | 122115 | 8.611 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 83278  | 9.084 | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.460 | 43  | 69649  | 8.378 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 161102 | 9.251 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.836 | 43  | 461315 | 9.110 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 178691 | 8.720 | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.149 | 76  | 209297 | 9.539 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 117924 | 8.783 | ppbv   | 100    |
| 29) Chloroform                | 2.848 | 83  | 269088 | 9.290 | ppbv   | 100    |
| 30) Cyclohexane               | 3.855 | 84  | 157035 | 9.517 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 183082 | 9.397 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 285336 | 9.187 | ppbv   | 100    |
| 34) 2-Butanone                | 2.557 | 43  | 251704 | 8.683 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 282402 | 8.513 | ppbv   | 100    |
| 36) Benzene                   | 3.654 | 78  | 367355 | 9.292 | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 216999 | 9.145 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 144767 | 8.352 | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 135605 | 9.197 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.580 | 88  | 66662  | 8.348 | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.052 | 42  | 149905 | 8.950 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.489 | 83  | 312268 | 9.456 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.881 | 69  | 157501 | 8.876 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 626085 | 9.157 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 168223 | 9.233 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042349.D  
 Acq On : 17 Apr 2025 09:44  
 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 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

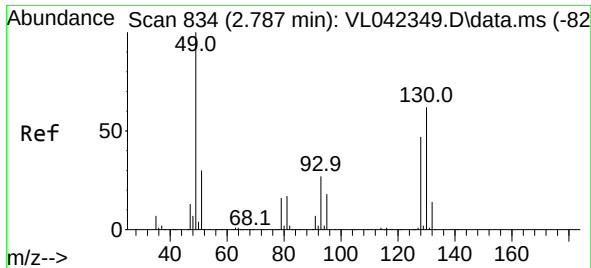
Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 208811   | 9.377  | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 137898   | 9.181  | ppbv  | 100      |
| 48) Dibromochloromethane      | 7.386  | 129  | 248954   | 9.388  | ppbv  | 100      |
| 49) Bromoform                 | 9.480  | 173  | 225706   | 9.734  | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 396548   | 8.215  | ppbv  | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 327165   | 7.511  | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.225  | 164  | 130720   | 8.553  | ppbv  | 100      |
| 53) Toluene                   | 6.933  | 91   | 437258   | 9.216  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 197665   | 9.235  | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 186041   | 9.091  | ppbv  | 100      |
| 57) Chlorobenzene             | 8.920  | 112  | 323084   | 9.187  | ppbv  | 100      |
| 58) Ethyl Benzene             | 9.354  | 91   | 619581   | 9.248  | ppbv  | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 984458m  | 18.187 | ppbv  |          |
| 60) o-Xylene                  | 9.963  | 91   | 487616   | 8.972  | ppbv  | 100      |
| 61) Styrene                   | 9.869  | 104  | 245487   | 9.464  | ppbv  | 100      |
| 62) Isopropylbenzene          | 10.539 | 105  | 733788   | 9.197  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 295041   | 8.355  | ppbv  | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 183390   | 9.144  | ppbv  | 100      |
| 65) tert-Butylbenzene         | 11.532 | 119  | 644953   | 8.795  | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.617 | 91   | 83269    | 10.333 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 11.769 | 105  | 900074   | 8.824  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 778987   | 8.790  | ppbv  | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 801364   | 8.682  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 573039   | 9.157  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 596757   | 8.982  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 512855   | 8.743  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 565064   | 8.248  | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 320380   | 8.997  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 319089   | 8.915  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 305822   | 8.832  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 291833   | 8.346  | ppbv  | 100      |
| 79) Naphthalene               | 13.513 | 128  | 677578   | 8.271  | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 376995   | 8.074  | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 306119   | 8.702  | ppbv  | 100      |

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

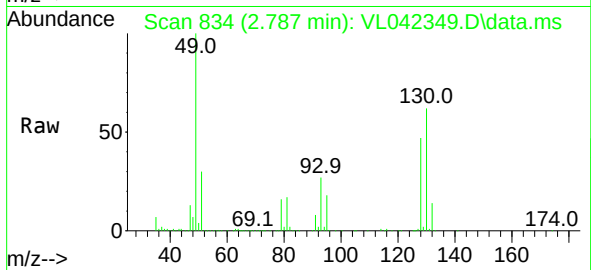






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. -0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

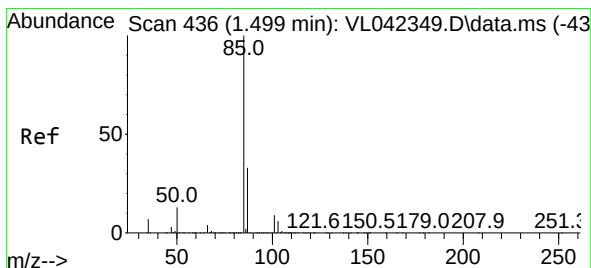
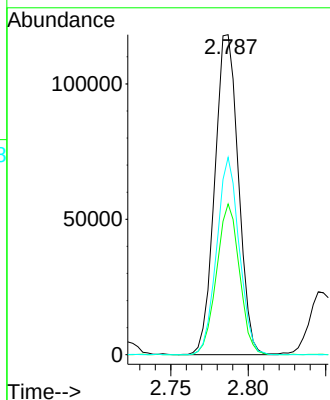
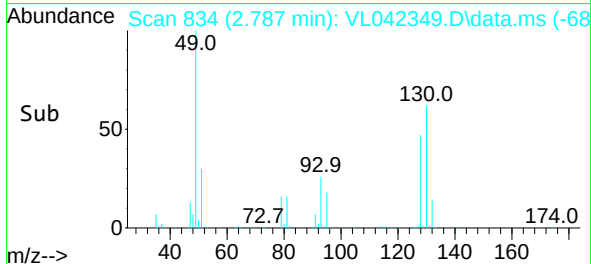
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



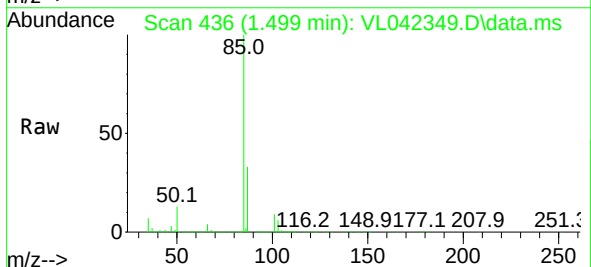
Tgt Ion: 49 Resp: 125458  
Ion Ratio Lower Upper  
49 100  
128 45.6 22.8 68.4  
130 58.7 29.3 88.0

Manual Integrations  
APPROVED

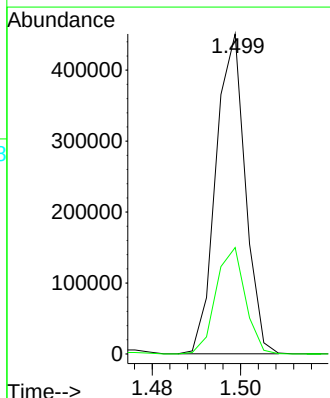
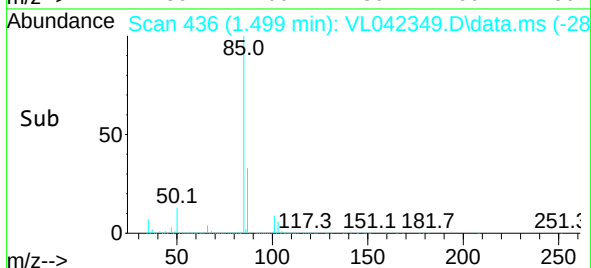
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

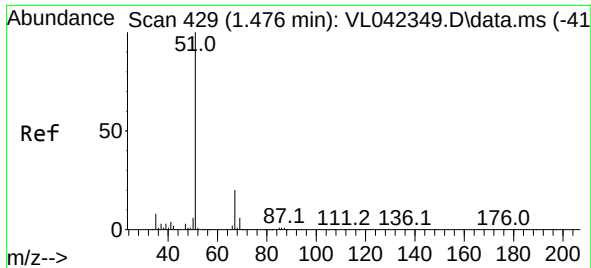


#2  
Dichlorodifluoromethane  
Concen: 9.382 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion: 85 Resp: 207962  
Ion Ratio Lower Upper  
85 100  
87 33.2 26.6 39.8





#3

Chlorodifluoromethane

Concen: 9.350 ppbv

RT: 1.476 min Scan# 429

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 51 Resp: 197334

Ion Ratio Lower Upper

51 100

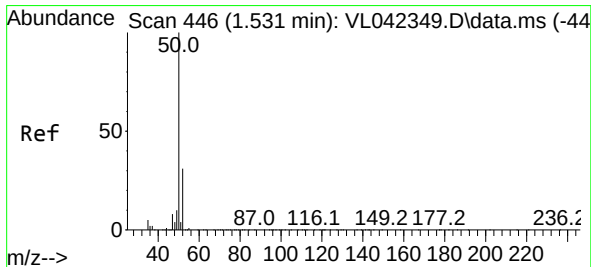
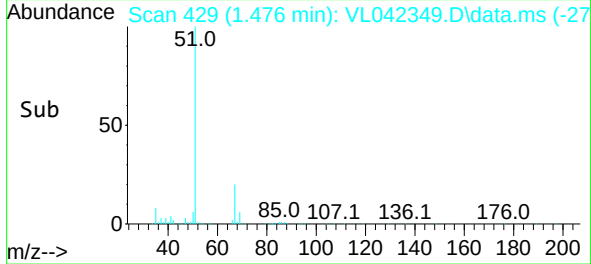
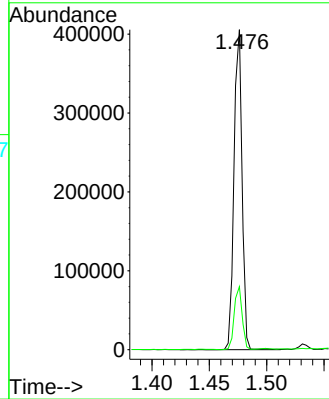
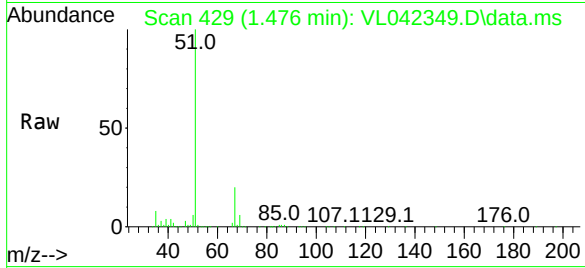
67 20.3 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#4

Chloromethane

Concen: 9.330 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.000 min

Lab File: VL042349.D

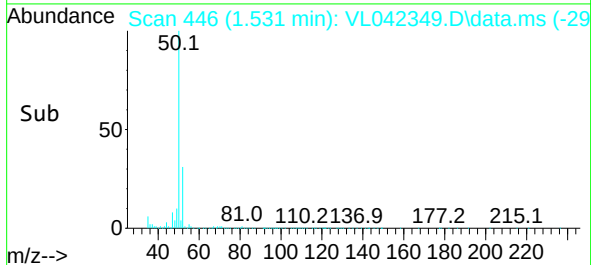
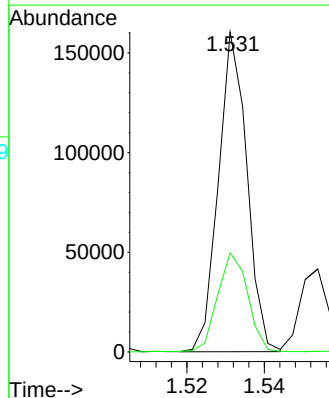
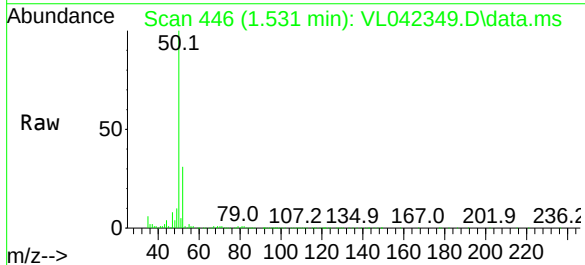
Acq: 17 Apr 2025 09:44

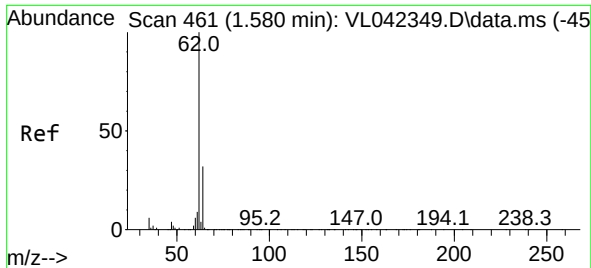
Tgt Ion: 50 Resp: 81843

Ion Ratio Lower Upper

50 100

52 30.9 24.7 37.1





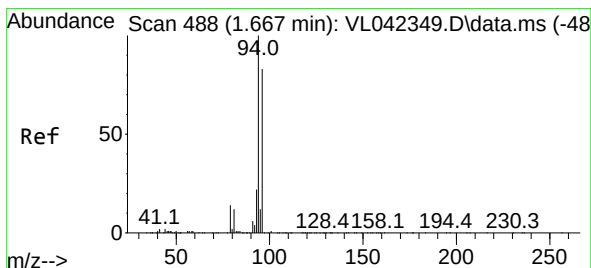
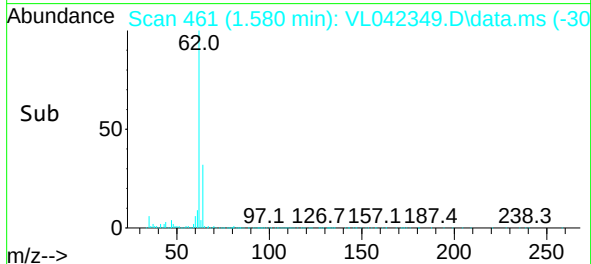
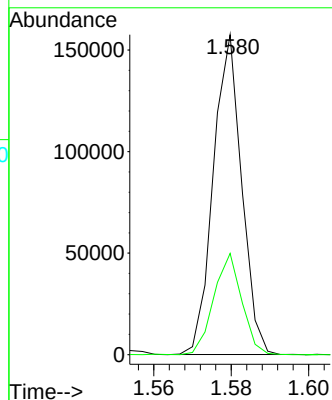
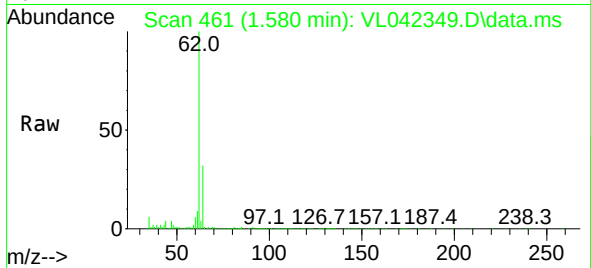
#5  
 Vinyl Chloride  
 Concen: 8.385 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 62 Resp: 80068  
 Ion Ratio Lower Upper  
 62 100  
 64 31.7 25.4 38.0

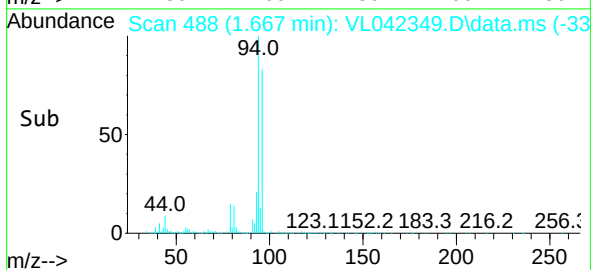
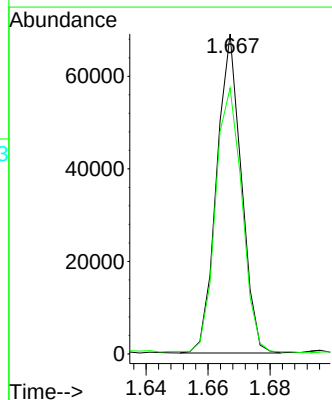
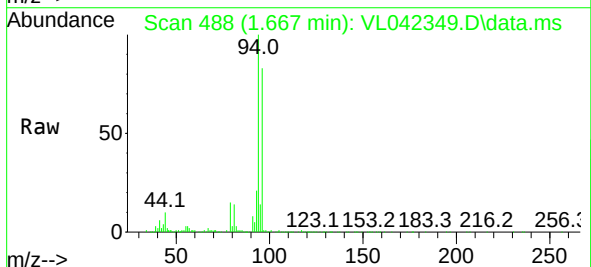
Manual Integrations  
 APPROVED

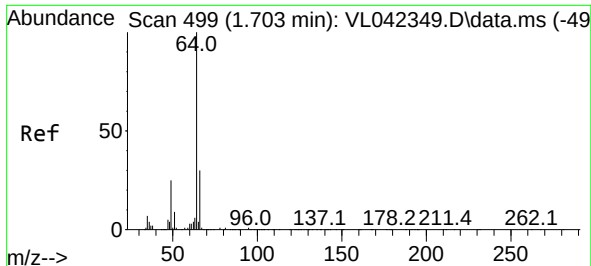
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#6  
 Bromomethane  
 Concen: 9.219 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

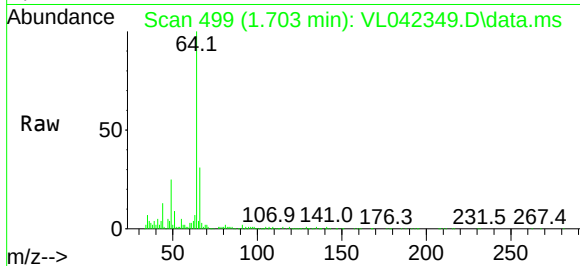
Tgt Ion: 94 Resp: 38128  
 Ion Ratio Lower Upper  
 94 100  
 96 82.7 66.2 99.2





#7  
Chloroethane  
Concen: 9.182 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

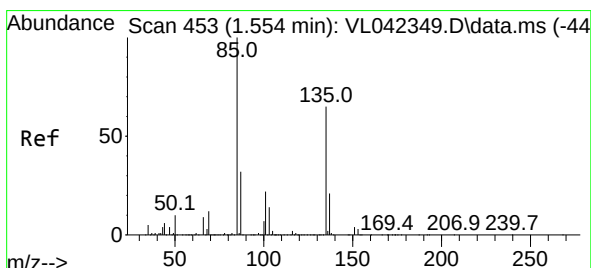
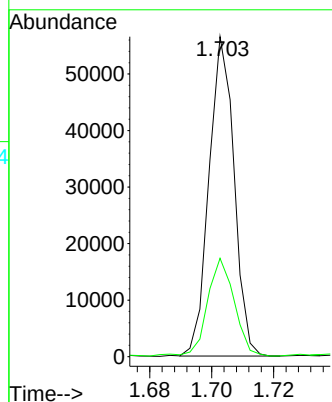
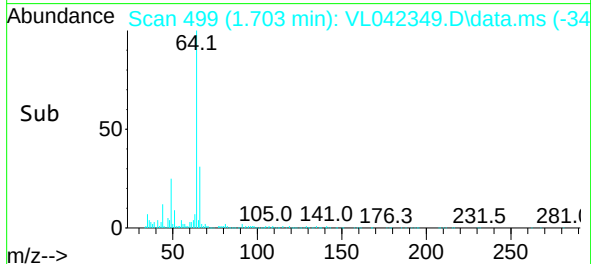
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



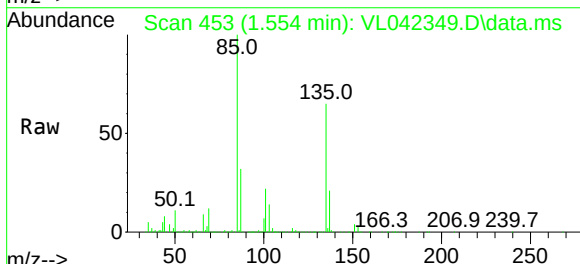
Tgt Ion: 64 Resp: 31705  
Ion Ratio Lower Upper  
64 100  
66 30.8 24.6 37.0

Manual Integrations  
APPROVED

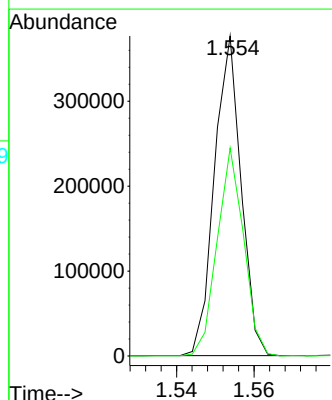
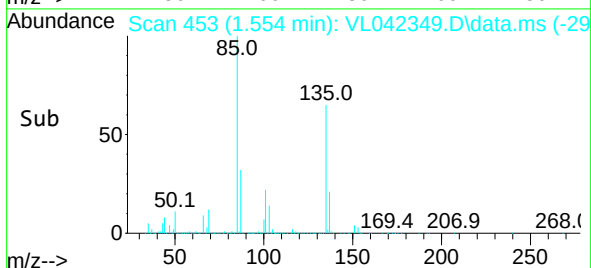
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

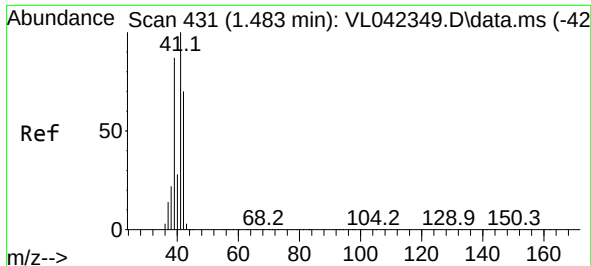


#8  
Dichlorotetrafluoroethane  
Concen: 9.442 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion: 85 Resp: 179696  
Ion Ratio Lower Upper  
85 100  
135 65.2 52.2 78.2





#9

Propene

Concen: 9.002 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

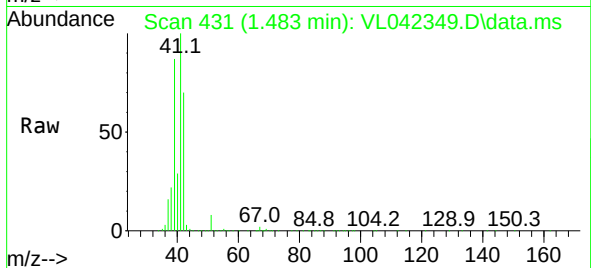
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010



Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

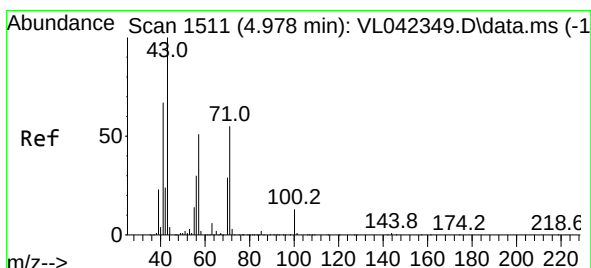
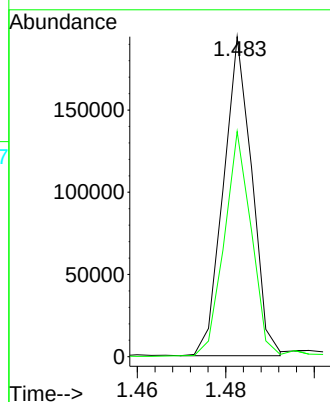
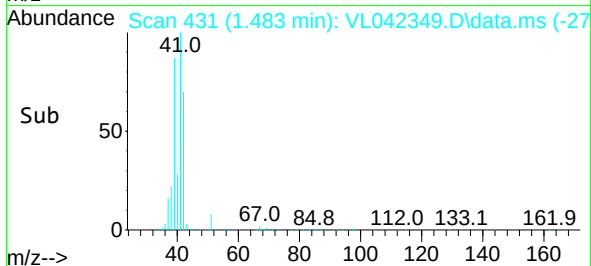
42 70.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 9.138 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042349.D

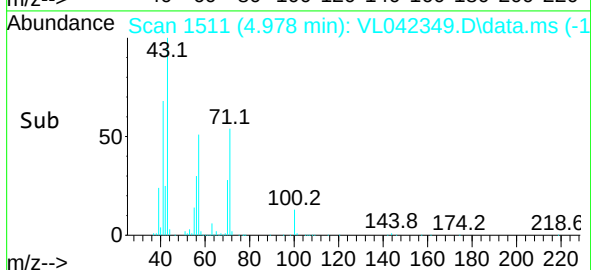
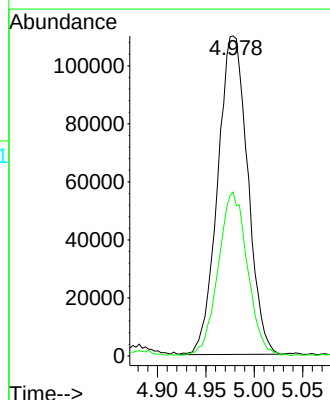
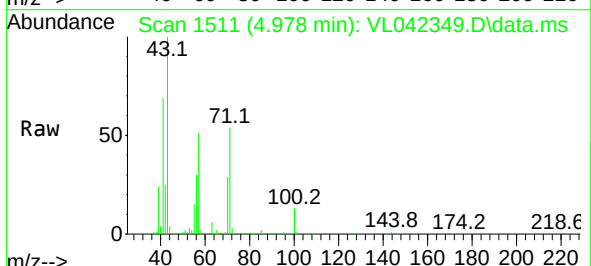
Acq: 17 Apr 2025 09:44

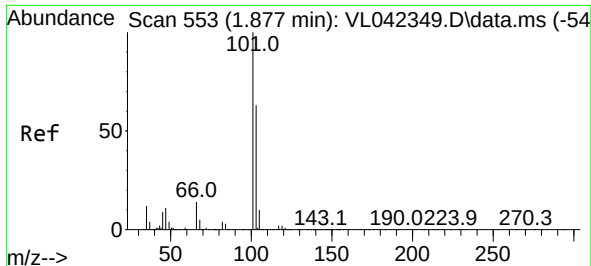
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

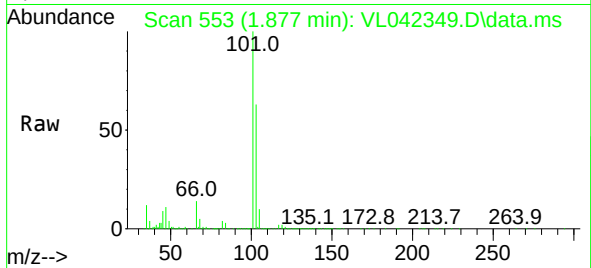
57 49.9 39.9 59.9





#11  
Trichlorofluoromethane  
Concen: 9.327 ppbv  
RT: 1.877 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

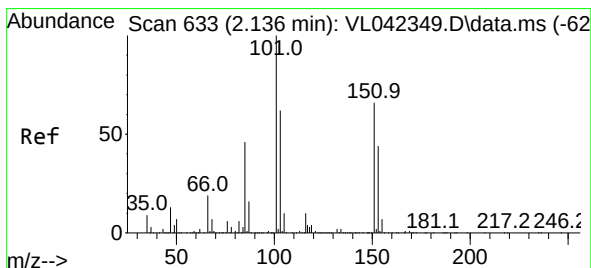
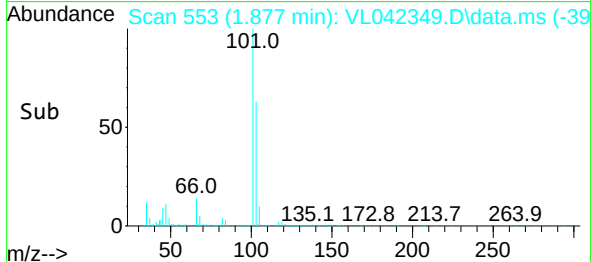
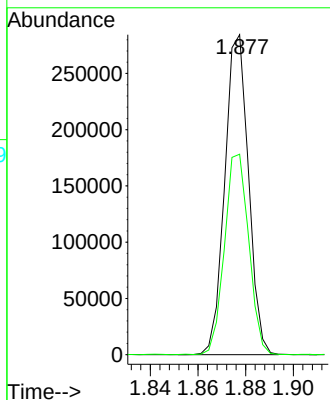
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:101 Resp: 196590  
Ion Ratio Lower Upper  
101 100  
103 62.6 50.1 75.1

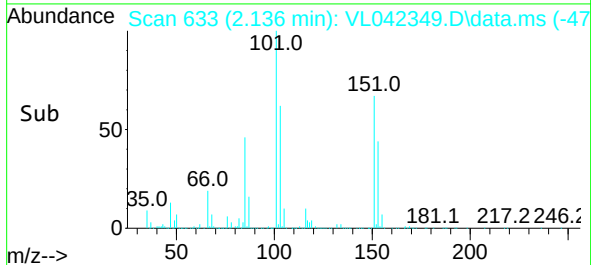
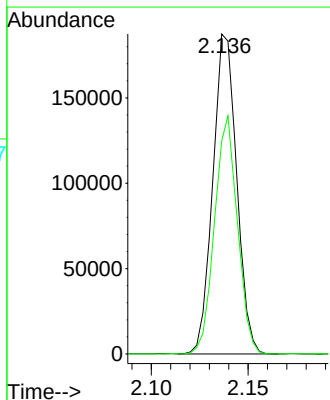
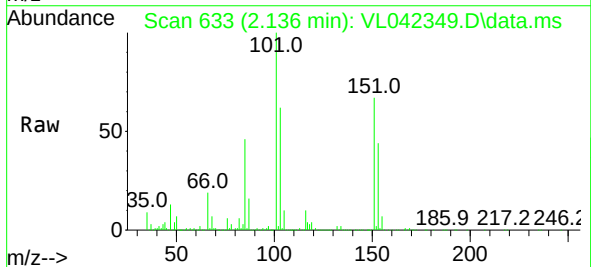
Manual Integrations  
APPROVED

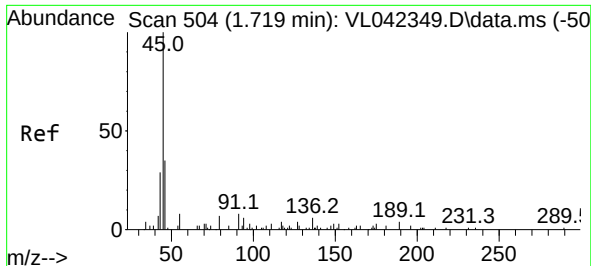
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.323 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

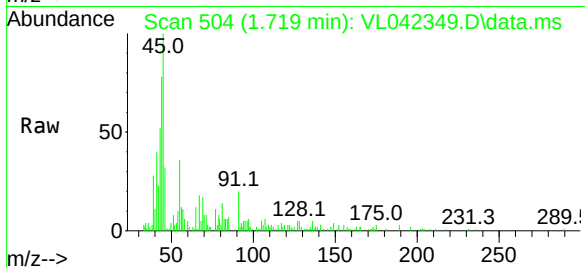
Tgt Ion:101 Resp: 160682  
Ion Ratio Lower Upper  
101 100  
151 71.3 57.0 85.6





#13  
Ethanol  
Concen: 5.651 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

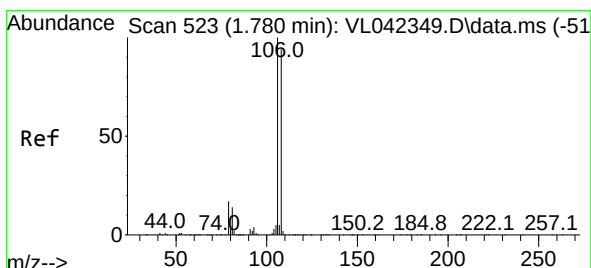
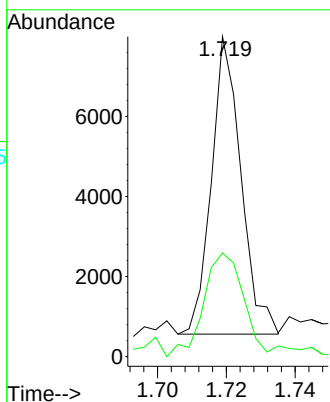
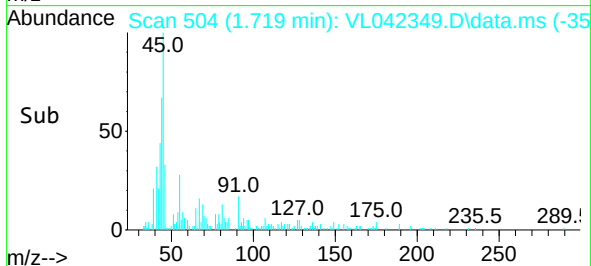
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



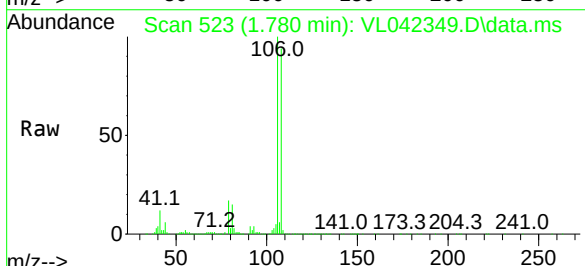
Tgt Ion: 45 Resp: 4439  
Ion Ratio Lower Upper  
45 100  
46 54.8 21.9 87.7

Manual Integrations  
APPROVED

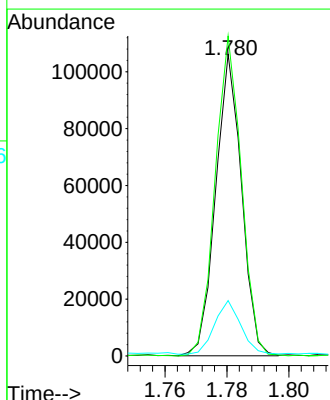
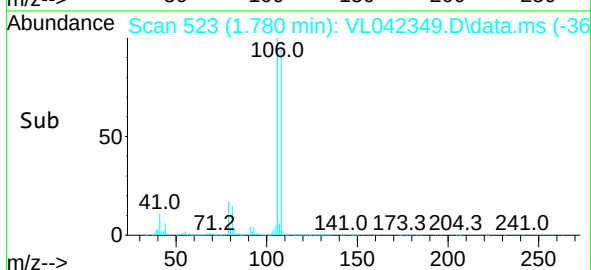
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



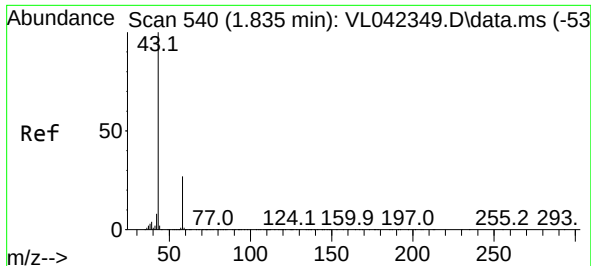
#14  
Bromoethene  
Concen: 9.466 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion:108 Resp: 61493  
Ion Ratio Lower Upper  
108 100  
106 107.4 85.9 128.9  
79 17.4 13.9 20.9

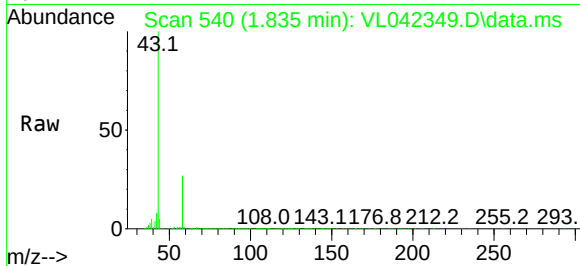






#15  
Acetone  
Concen: 7.717 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

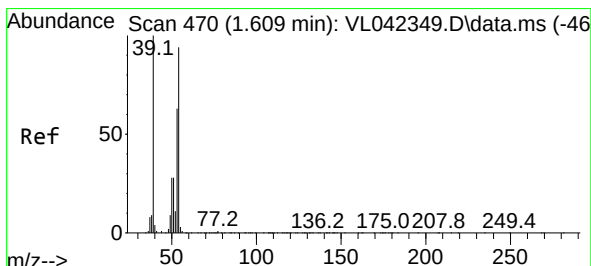
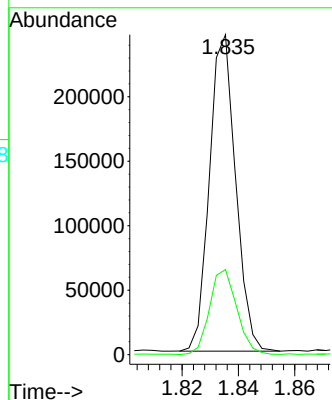
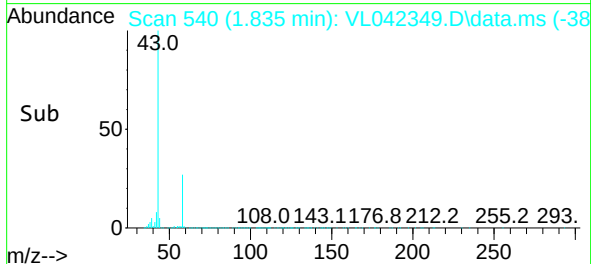
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 43 Resp: 158490  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6

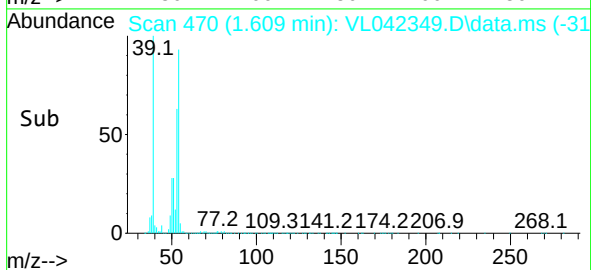
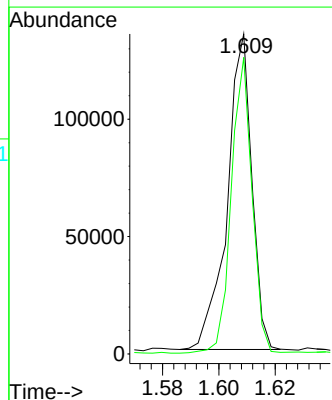
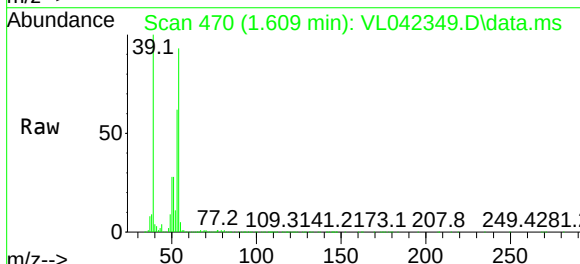
Manual Integrations  
APPROVED

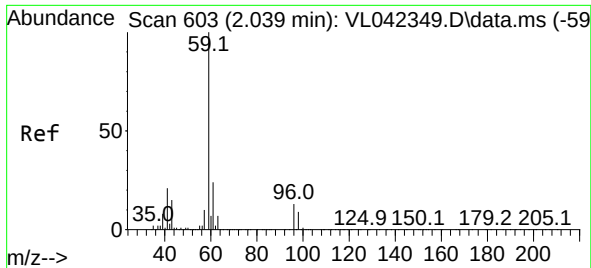
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#16  
1,3-Butadiene  
Concen: 8.470 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

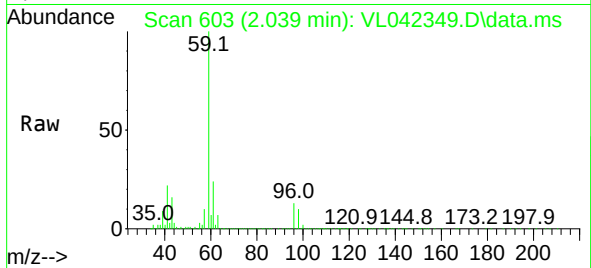
Tgt Ion: 39 Resp: 81688  
Ion Ratio Lower Upper  
39 100  
54 81.1 64.9 97.3





#17  
tert-Butyl alcohol  
Concen: 8.891 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

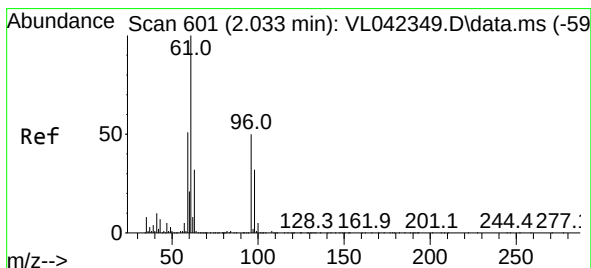
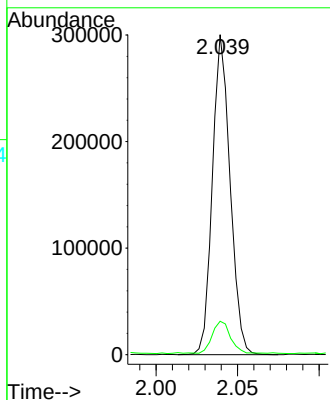
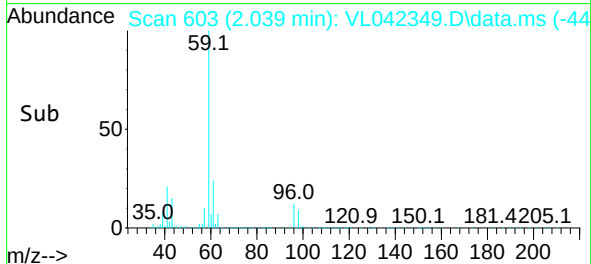
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



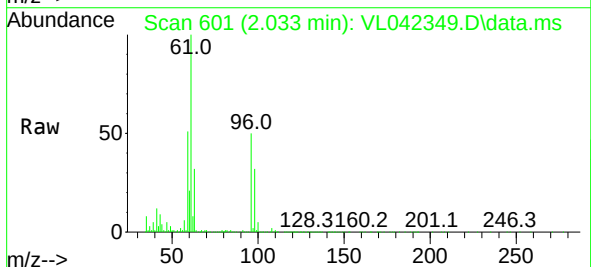
Tgt Ion: 59 Resp: 226280  
Ion Ratio Lower Upper  
59 100  
57 10.9 8.7 13.1

Manual Integrations  
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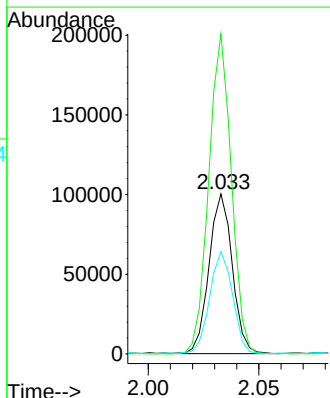
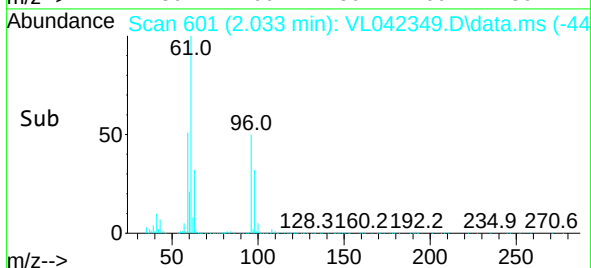
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

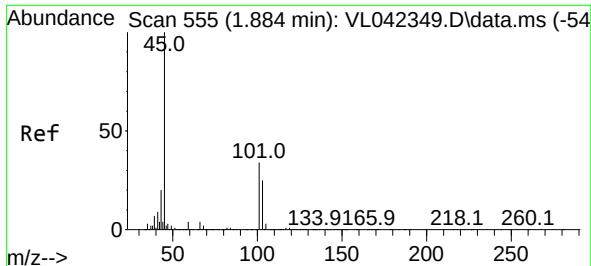


#18  
1,1-Dichloroethene  
Concen: 8.833 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



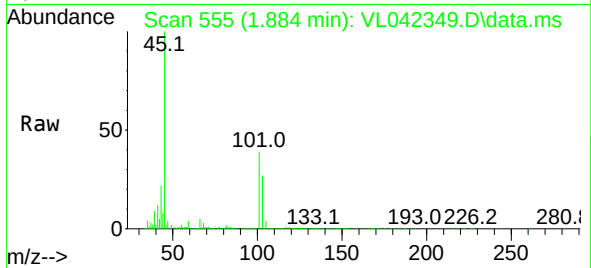
Tgt Ion: 96 Resp: 73186  
Ion Ratio Lower Upper  
96 100  
61 200.2 160.2 240.2  
98 63.7 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 9.031 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

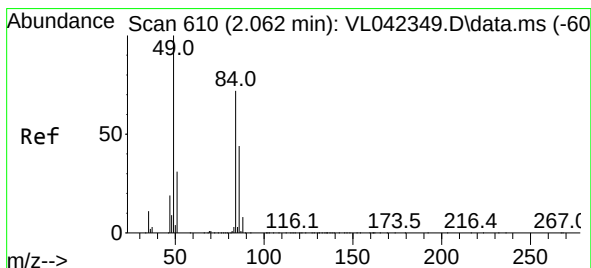
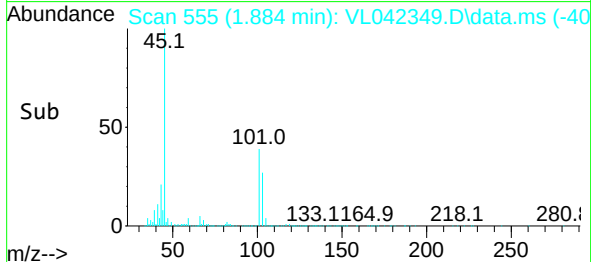
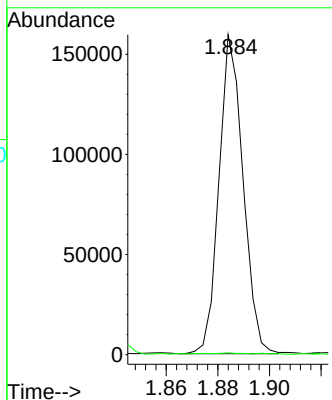
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 45 Resp: 103029  
Ion Ratio Lower Upper  
45 100  
58 43.1 34.5 51.7

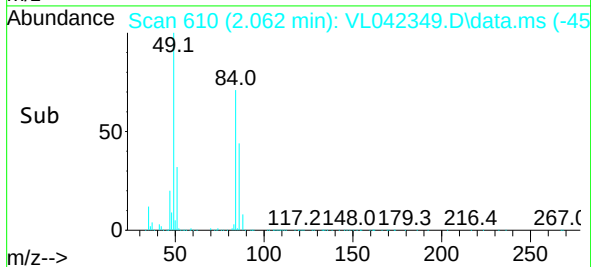
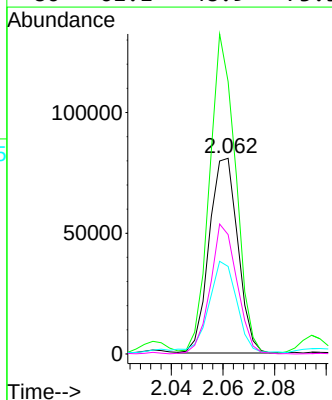
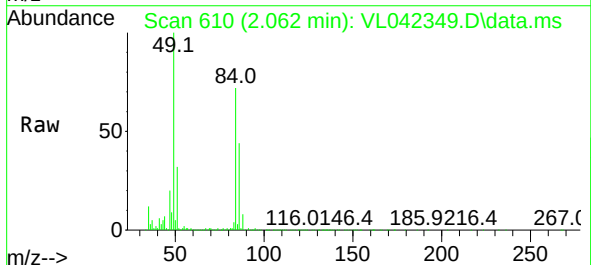
Manual Integrations  
APPROVED

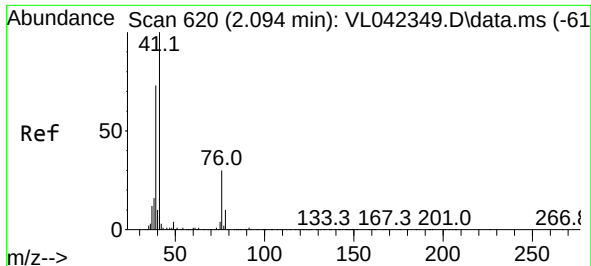
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#20  
Methylene Chloride  
Concen: 7.760 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

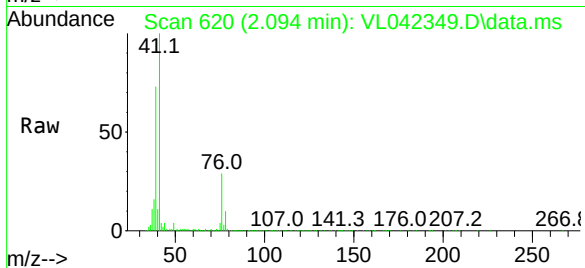
Tgt Ion: 84 Resp: 62414  
Ion Ratio Lower Upper  
84 100  
49 139.5 111.6 167.4  
51 43.9 35.1 52.7  
86 61.1 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 8.611 ppbv  
 RT: 2.094 min Scan# 611  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

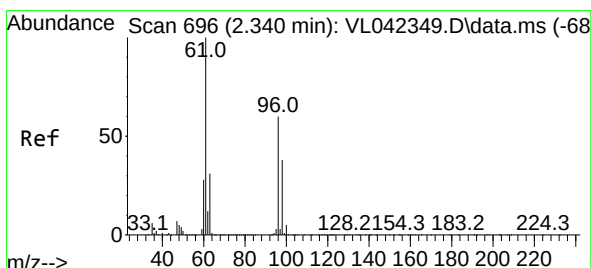
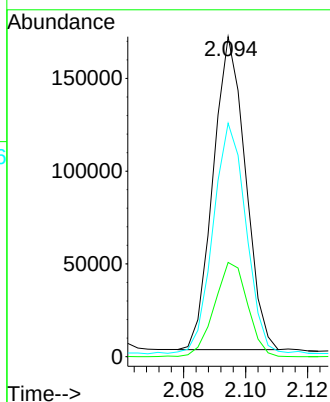
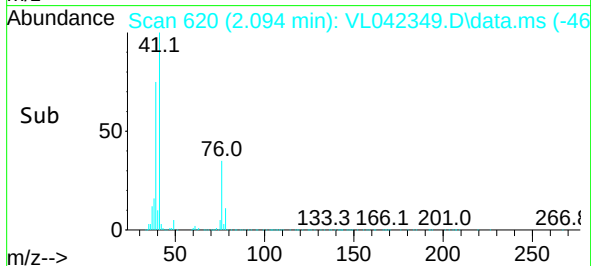
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



Tgt Ion: 41 Resp: 122115  
 Ion Ratio Lower Upper  
 41 100  
 76 31.0 24.8 37.2  
 39 75.7 60.6 90.8

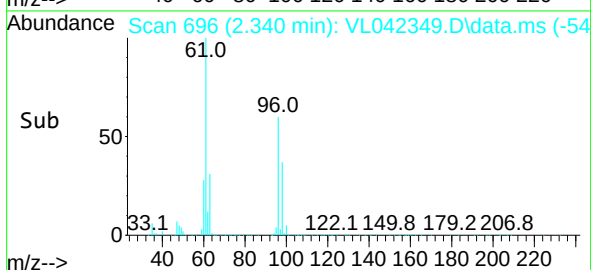
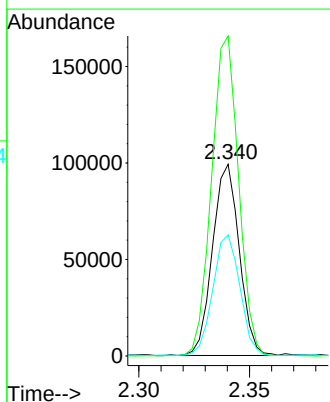
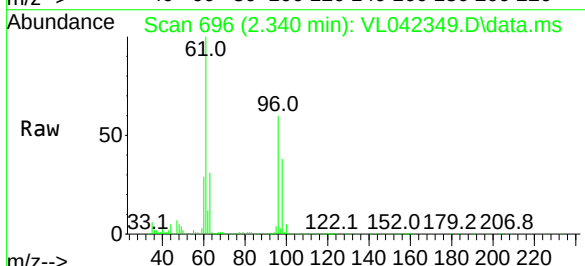
Manual Integrations  
 APPROVED

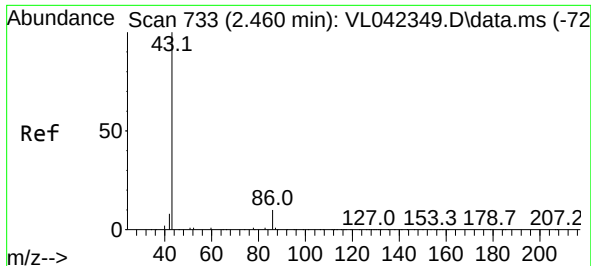
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.084 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

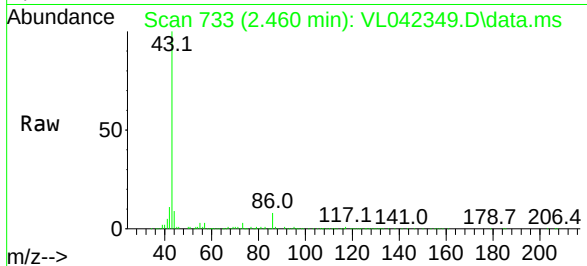
Tgt Ion: 96 Resp: 83278  
 Ion Ratio Lower Upper  
 96 100  
 61 167.1 133.7 200.5  
 98 62.9 50.3 75.5





#23  
 Vinyl Acetate  
 Concen: 8.378 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

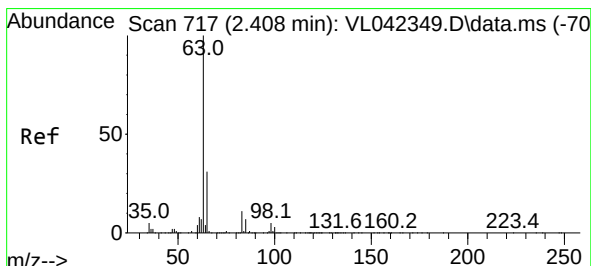
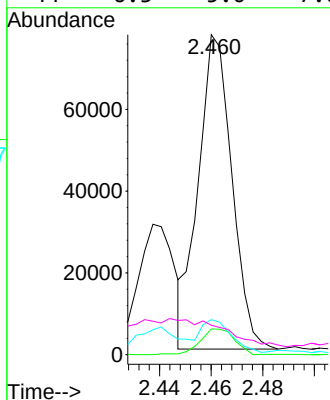
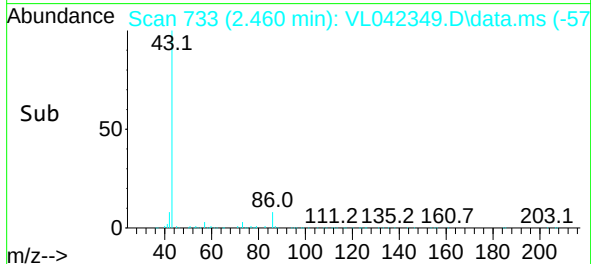
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010



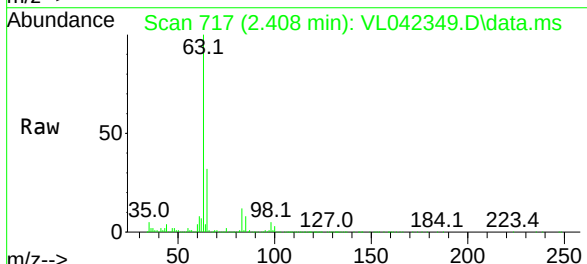
Tgt Ion: 43 Resp: 69649  
 Ion Ratio Lower Upper  
 43 100  
 86 8.1 6.5 9.7  
 42 9.8 7.8 11.8  
 44 6.3 5.0 7.6

Manual Integrations  
 APPROVED

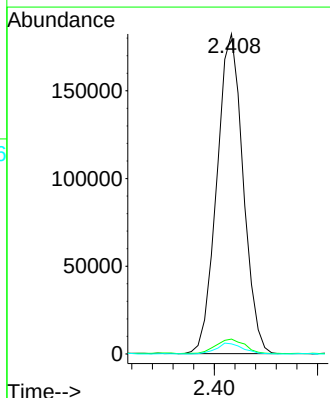
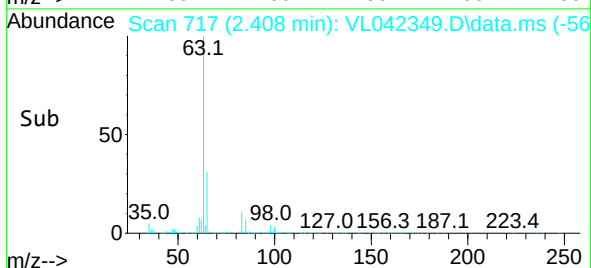
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

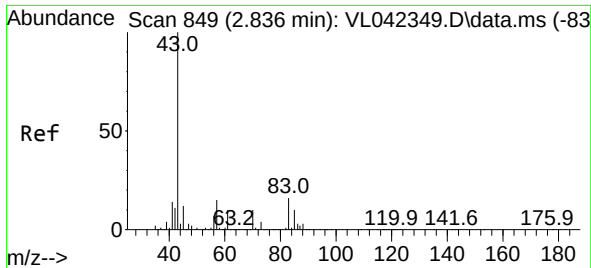


#24  
 1,1-Dichloroethane  
 Concen: 9.251 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44



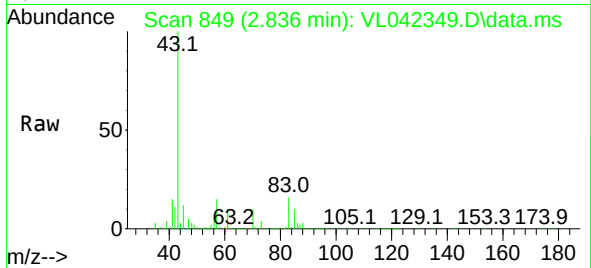
Tgt Ion: 63 Resp: 161102  
 Ion Ratio Lower Upper  
 63 100  
 98 4.5 2.3 6.8  
 100 3.2 1.6 4.8





#25  
Ethyl Acetate  
Concen: 9.110 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

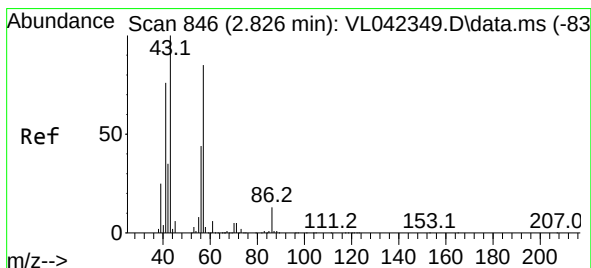
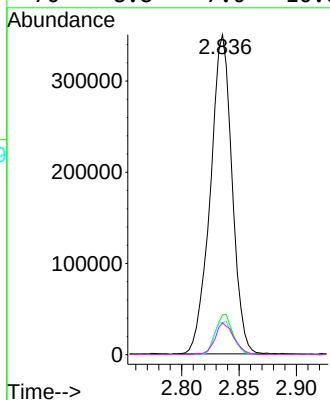
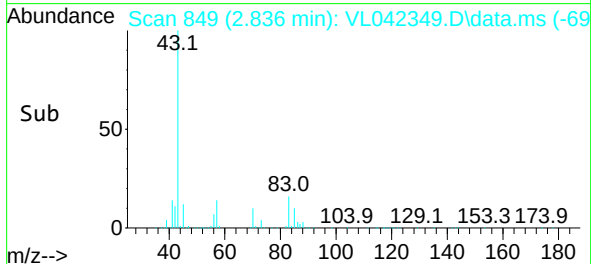
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



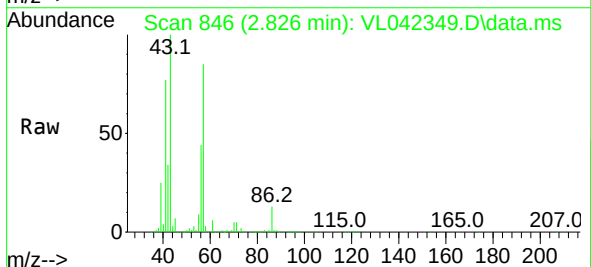
Tgt Ion: 43 Resp: 461315  
Ion Ratio Lower Upper  
43 100  
45 10.4 8.3 12.5  
61 9.1 7.3 10.9  
70 8.8 7.0 10.6

Manual Integrations  
APPROVED

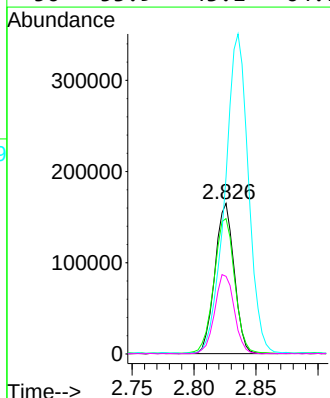
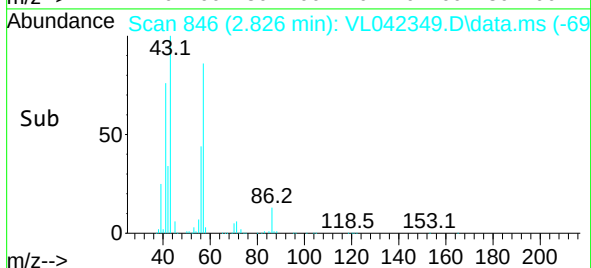
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

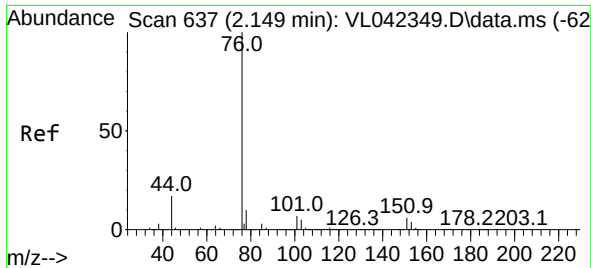


#26  
Hexane  
Concen: 8.720 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



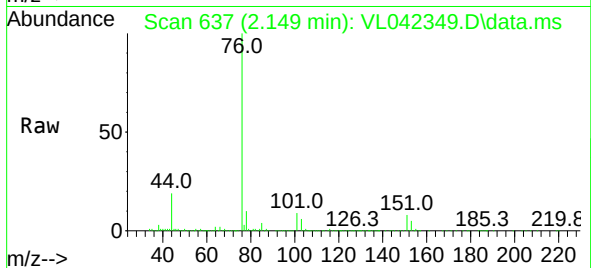
Tgt Ion: 57 Resp: 178691  
Ion Ratio Lower Upper  
57 100  
41 97.4 77.9 116.9  
43 260.5 208.4 312.6  
56 53.9 43.1 64.7





#27  
Carbon Disulfide  
Concen: 9.539 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

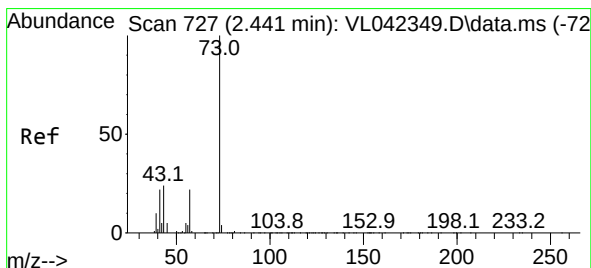
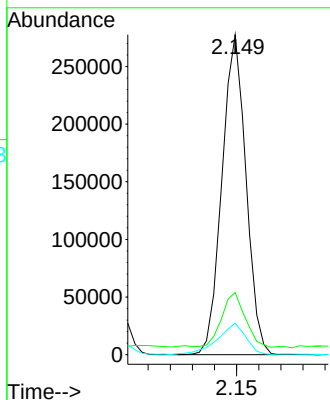
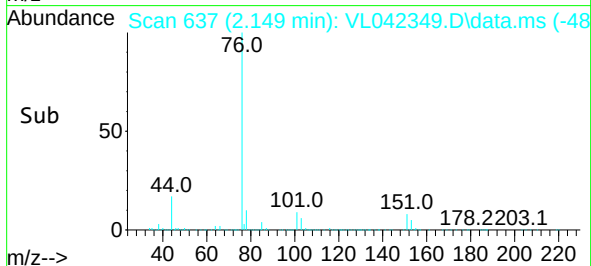
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



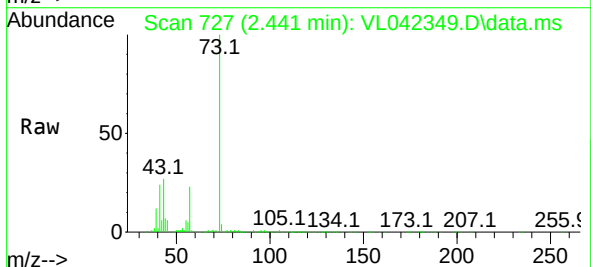
Tgt Ion: 76 Resp: 20929  
Ion Ratio Lower Upper  
76 100  
44 19.4 15.5 23.3  
78 11.6 9.3 13.9

Manual Integrations  
APPROVED

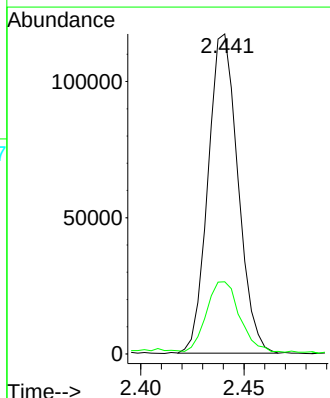
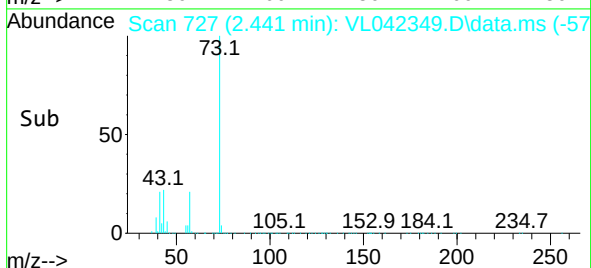
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

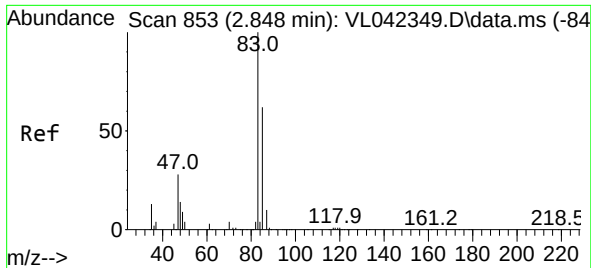


#28  
Methyl tert-Butyl Ether  
Concen: 8.783 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



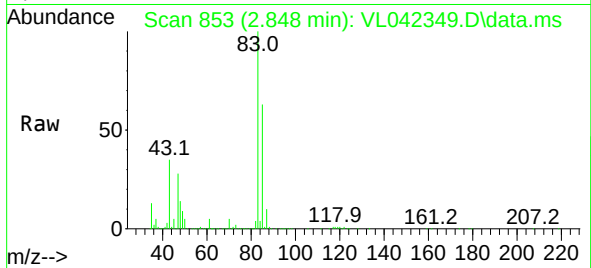
Tgt Ion: 73 Resp: 117924  
Ion Ratio Lower Upper  
73 100  
57 26.6 21.3 31.9





#29  
Chloroform  
Concen: 9.290 ppbv  
RT: 2.848 min Scan# 853  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

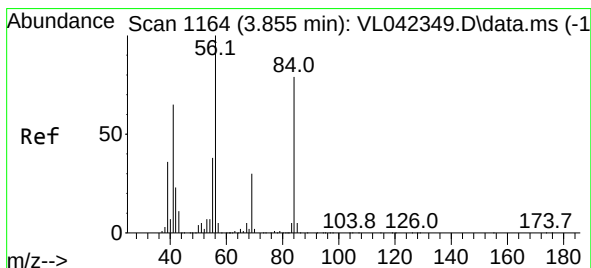
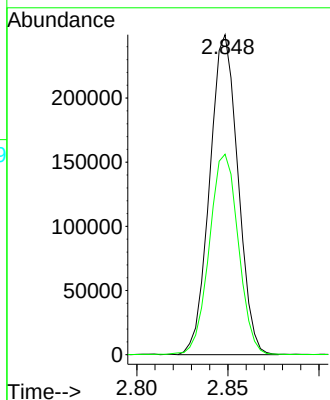
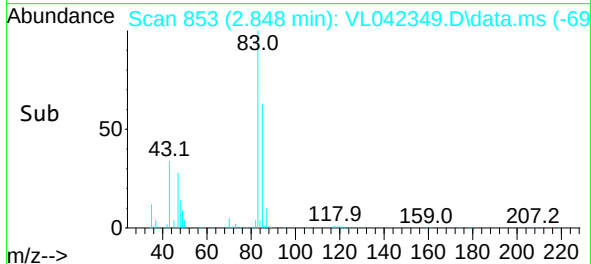
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



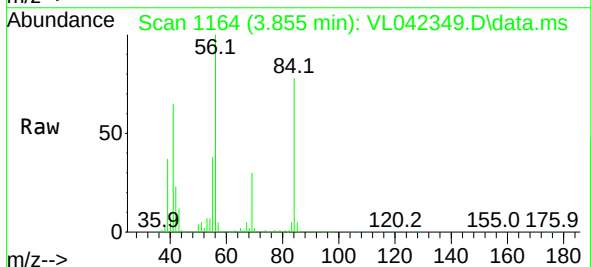
Tgt Ion: 83 Resp: 269088  
Ion Ratio Lower Upper  
83 100  
85 62.5 50.0 75.0

Manual Integrations  
APPROVED

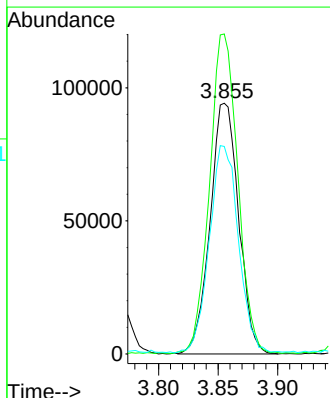
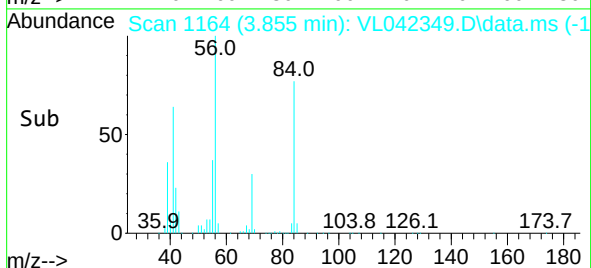
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



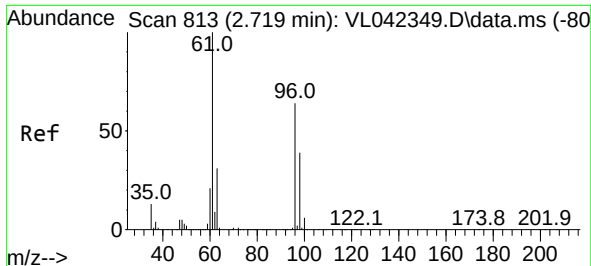
#30  
Cyclohexane  
Concen: 9.517 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion: 84 Resp: 157035  
Ion Ratio Lower Upper  
84 100  
56 126.2 101.0 151.4  
41 84.2 67.4 101.0

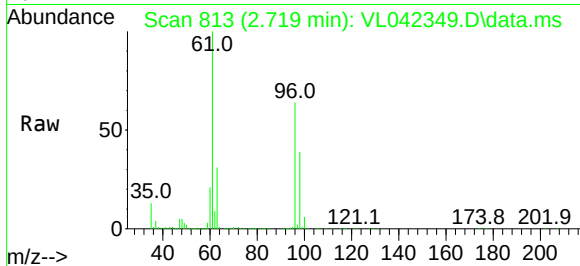






#31  
 cis-1,2-Dichloroethene  
 Concen: 9.397 ppbv  
 RT: 2.719 min Scan# 813  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

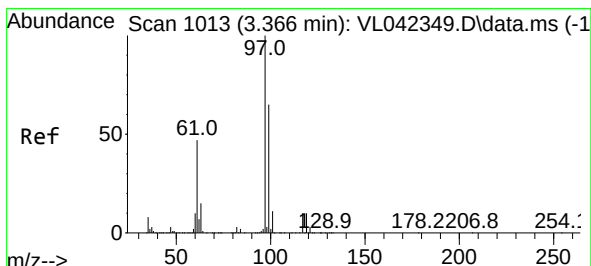
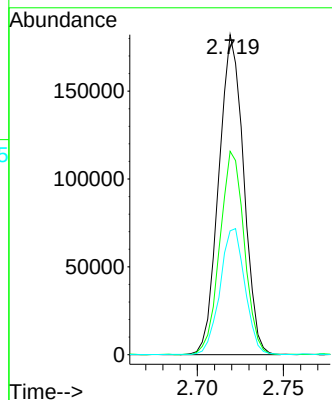
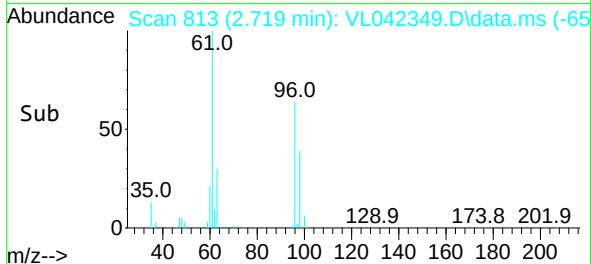
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



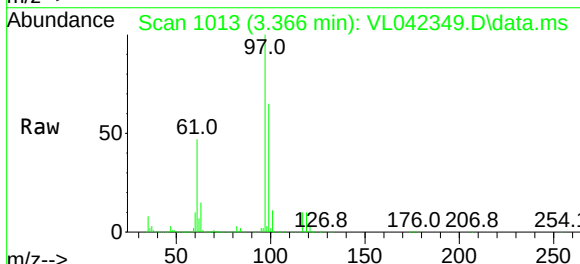
Tgt Ion: 61 Resp: 183082  
 Ion Ratio Lower Upper  
 61 100  
 96 63.5 50.8 76.2  
 98 38.6 30.9 46.3

Manual Integrations  
 APPROVED

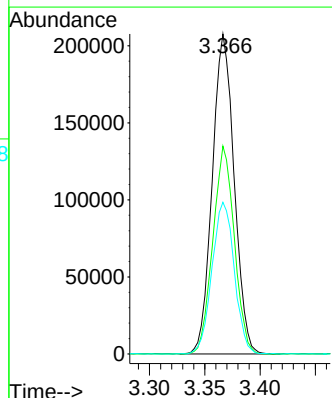
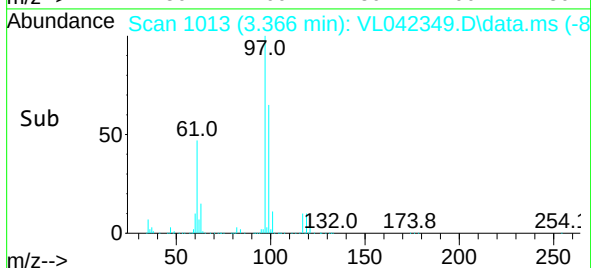
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

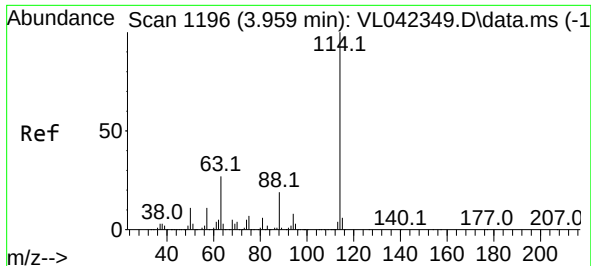


#32  
 1,1,1-Trichloroethane  
 Concen: 9.187 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44



Tgt Ion: 97 Resp: 285336  
 Ion Ratio Lower Upper  
 97 100  
 99 63.7 51.0 76.4  
 61 48.5 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

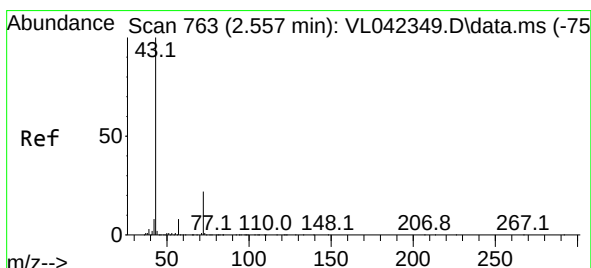
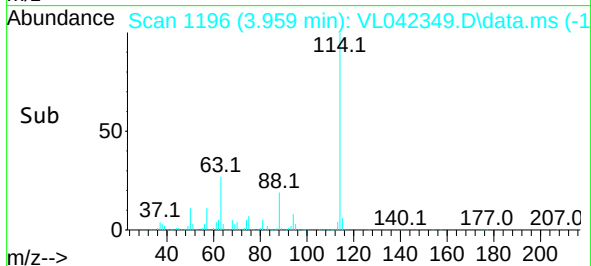
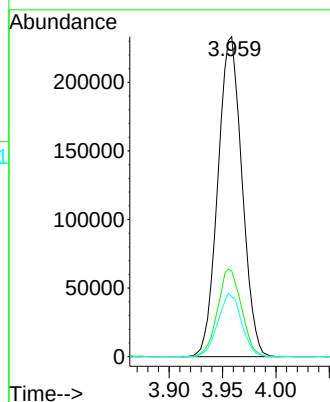
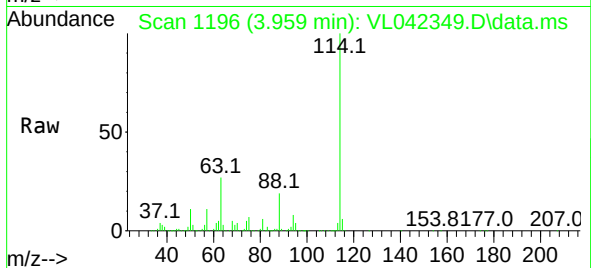
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 366544 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 27.2  | 21.8  | 32.6   |
| 88        | 19.4  | 15.5  | 23.3   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#34

2-Butanone

Concen: 8.683 ppbv

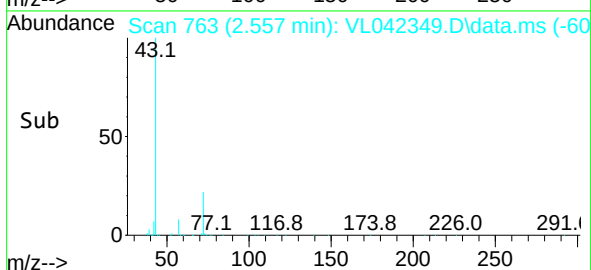
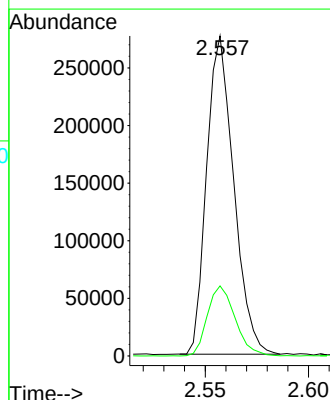
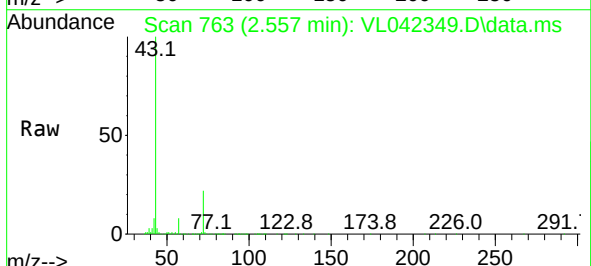
RT: 2.557 min Scan# 763

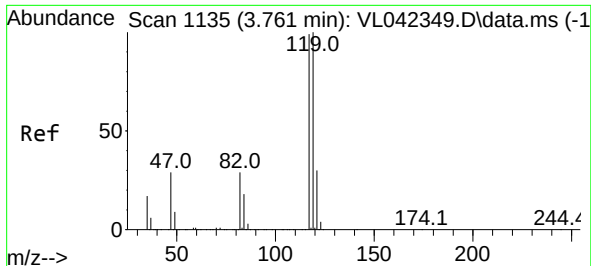
Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

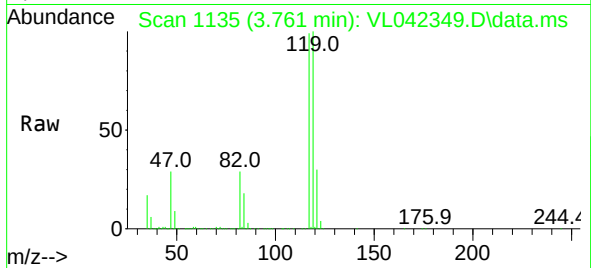
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 251704 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 72        | 22.7  | 18.2  | 27.2   |





#35  
Carbon Tetrachloride  
Concen: 8.513 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

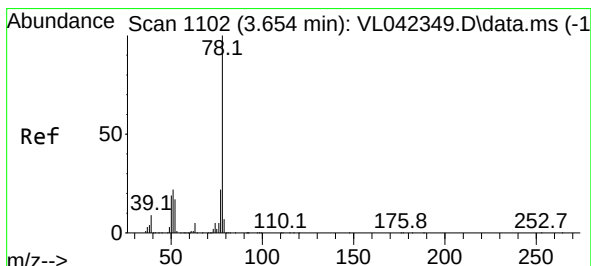
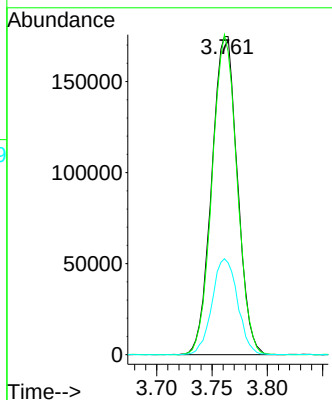
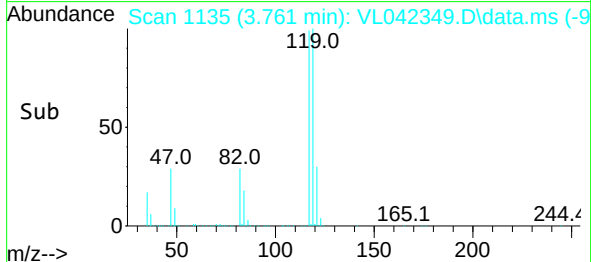
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:117 Resp: 28240  
Ion Ratio Lower Upper  
117 100  
119 100.6 80.5 120.7  
121 30.2 24.2 36.2

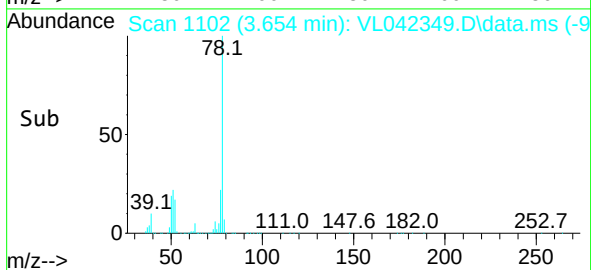
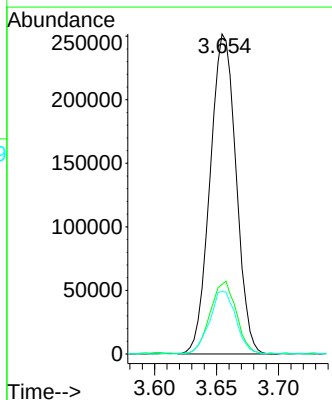
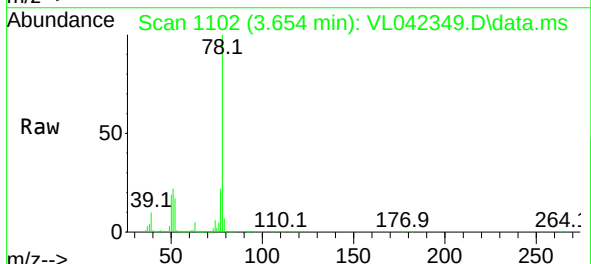
Manual Integrations  
APPROVED

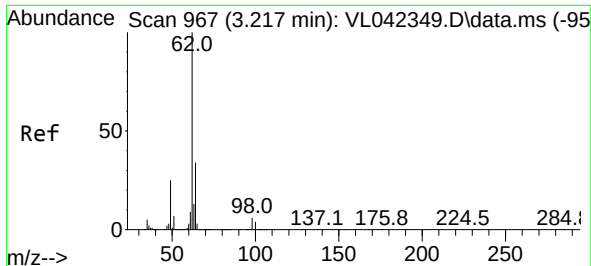
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#36  
Benzene  
Concen: 9.292 ppbv  
RT: 3.654 min Scan# 1102  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

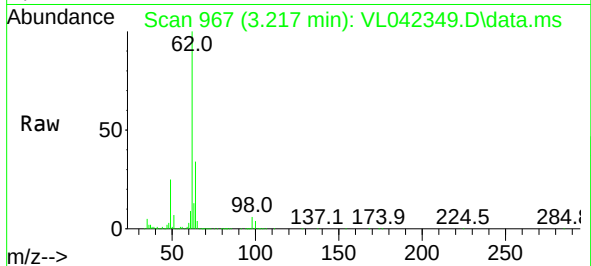
Tgt Ion: 78 Resp: 367355  
Ion Ratio Lower Upper  
78 100  
77 21.7 17.4 26.0  
50 19.4 15.5 23.3





#37  
1,2-Dichloroethane  
Concen: 9.145 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

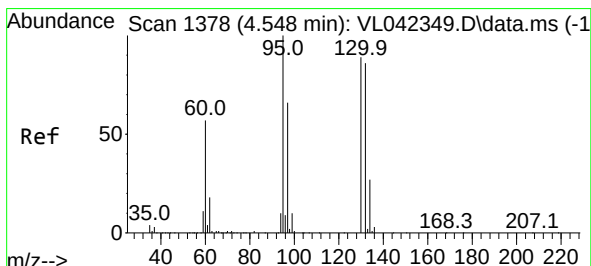
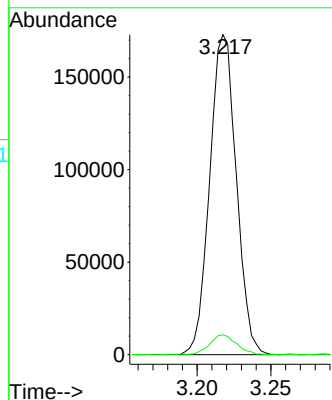
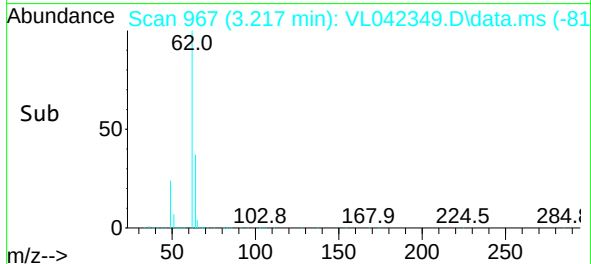
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 62 Resp: 216999  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.1 7.7

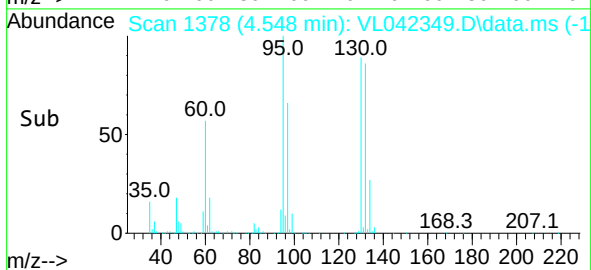
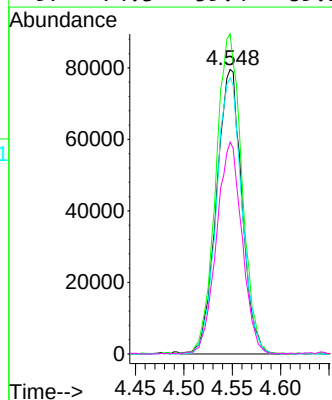
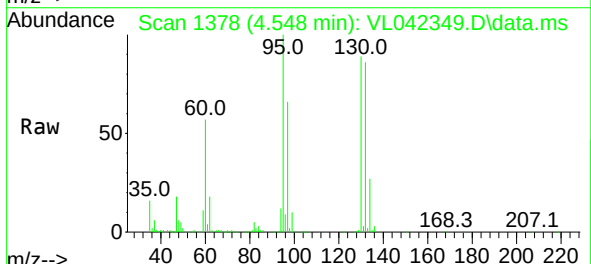
Manual Integrations  
APPROVED

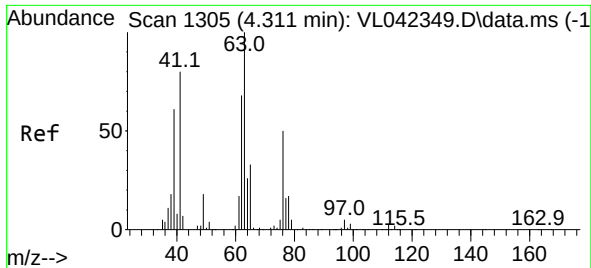
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#38  
Trichloroethene  
Concen: 8.352 ppbv  
RT: 4.548 min Scan# 1378  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767  
Ion Ratio Lower Upper  
130 100  
95 112.2 89.8 134.6  
132 97.1 77.7 116.5  
97 74.3 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.197 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 63 Resp: 13560

Ion Ratio Lower Upper

63 100

41 80.2 64.2 96.2

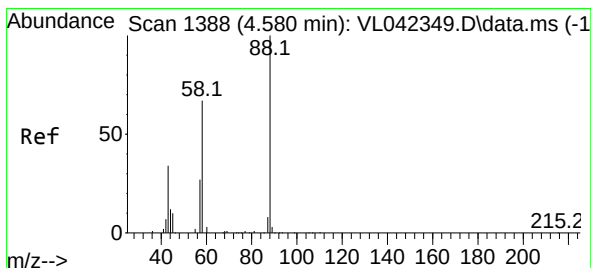
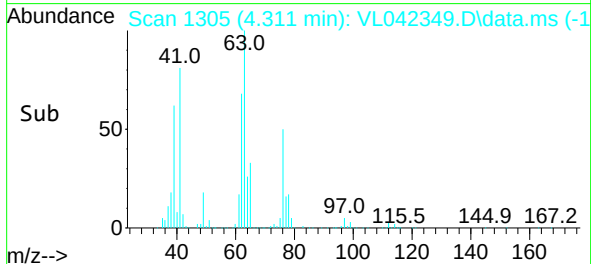
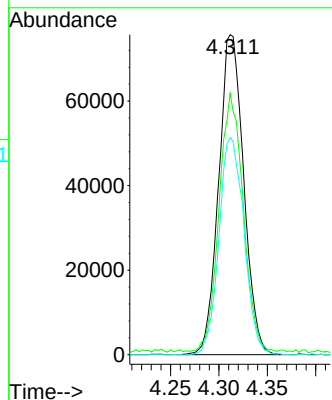
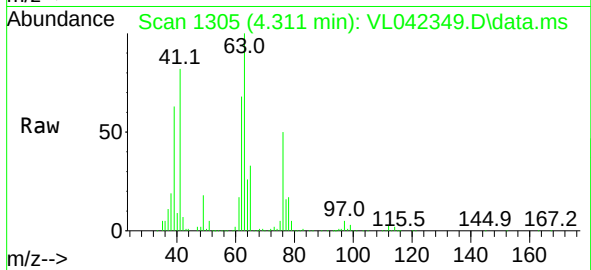
62 67.9 54.3 81.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 8.348 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

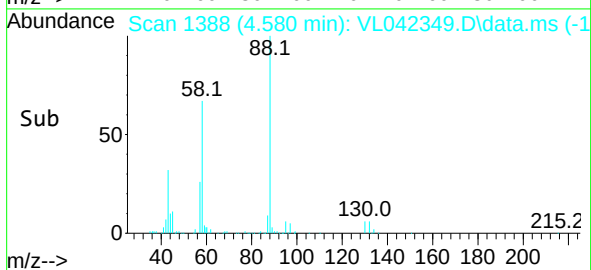
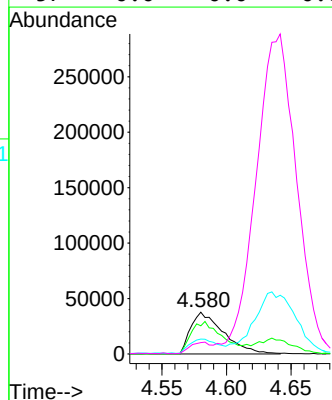
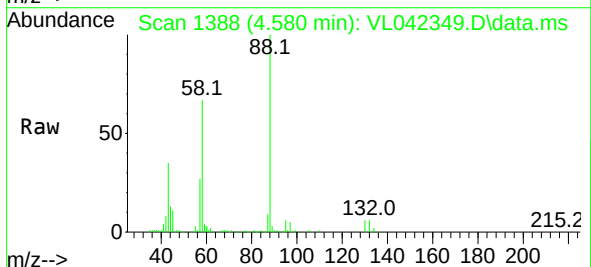
Ion Ratio Lower Upper

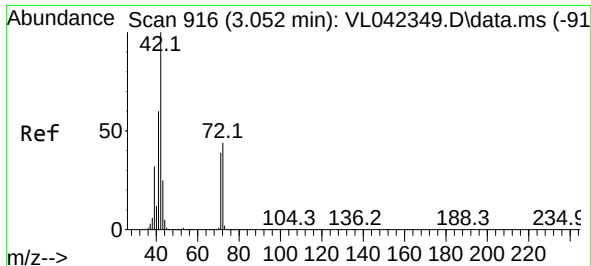
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

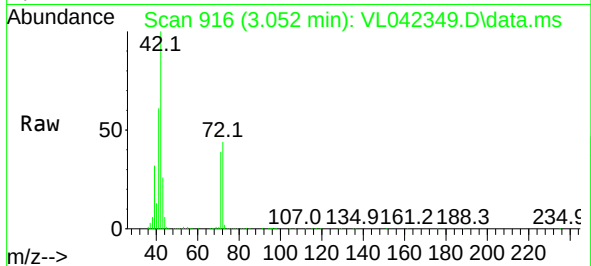
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 8.950 ppbv  
RT: 3.052 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

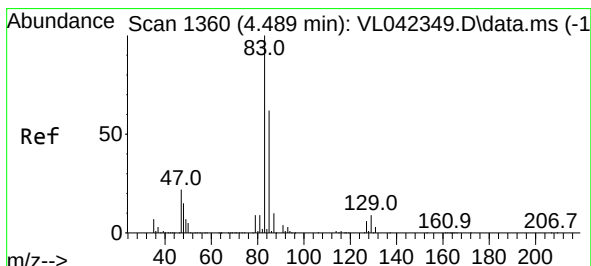
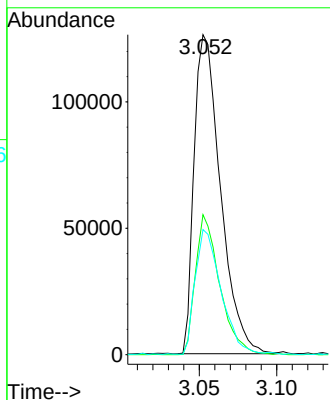
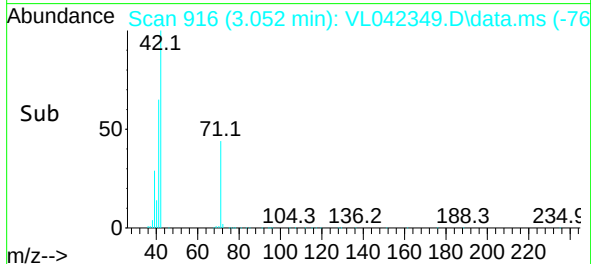
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



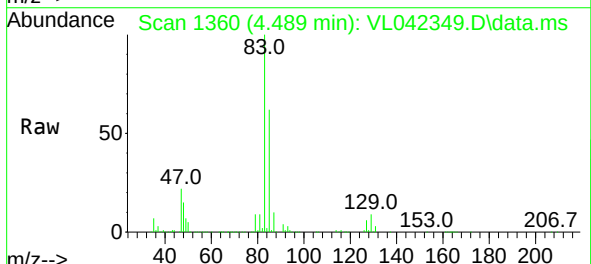
Tgt Ion: 42 Resp: 149905  
Ion Ratio Lower Upper  
42 100  
72 40.4 32.3 48.5  
71 39.3 31.4 47.2

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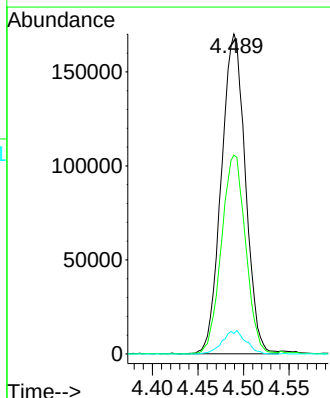
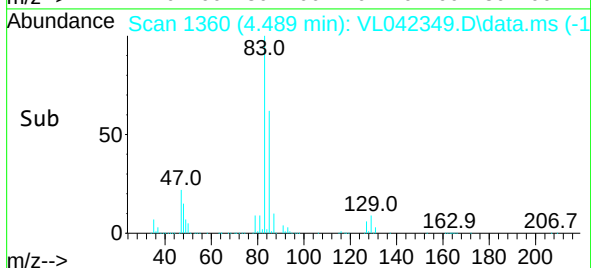
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

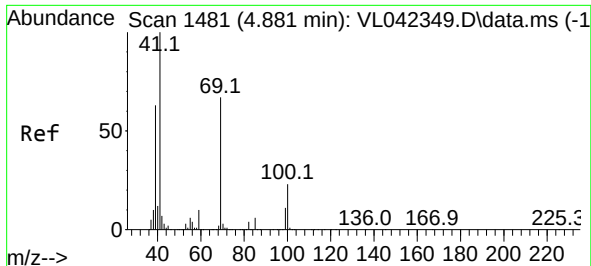


#42  
Bromodichloromethane  
Concen: 9.456 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



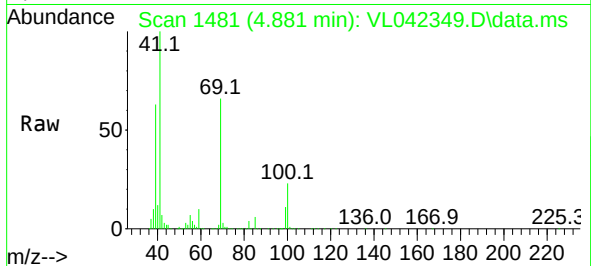
Tgt Ion: 83 Resp: 312268  
Ion Ratio Lower Upper  
83 100  
85 62.1 49.7 74.5  
127 6.4 5.1 7.7





#43  
Methyl Methacrylate  
Concen: 8.876 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

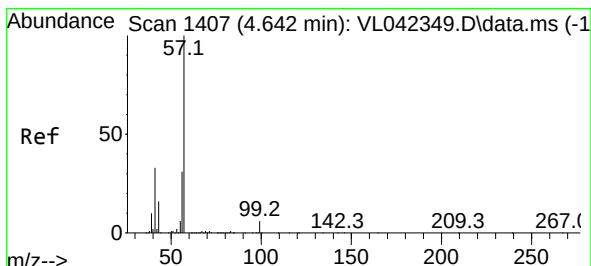
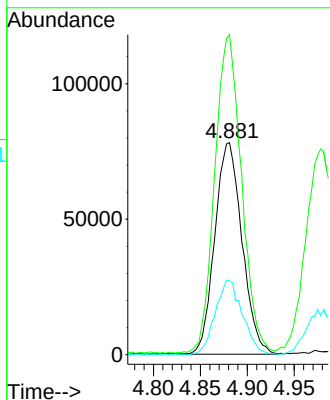
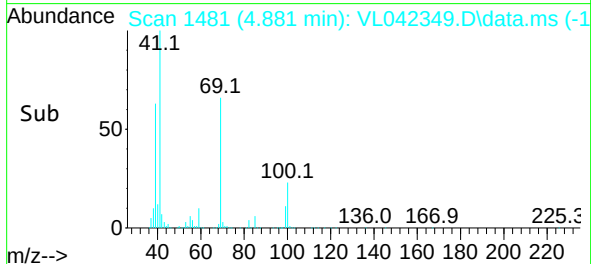
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



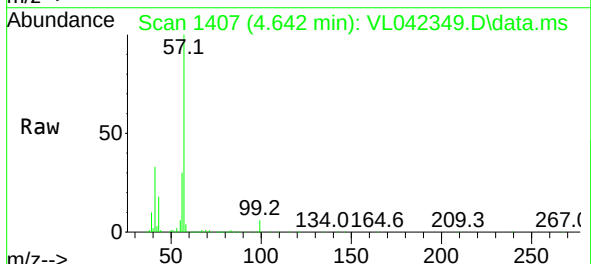
Tgt Ion: 69 Resp: 15750  
Ion Ratio Lower Upper  
69 100  
41 148.2 118.6 177.8  
100 35.2 28.2 42.2

Manual Integrations  
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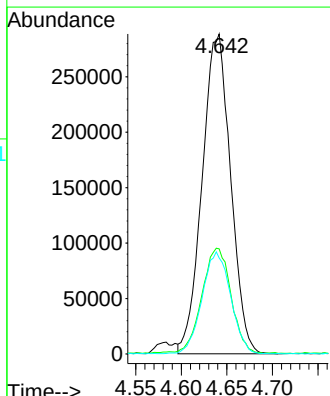
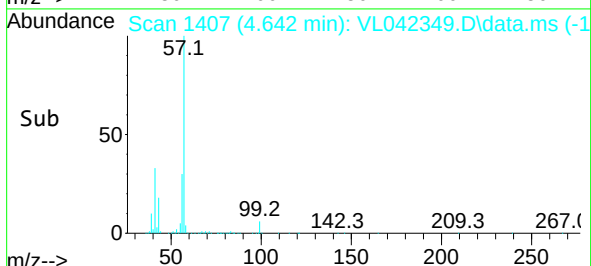
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

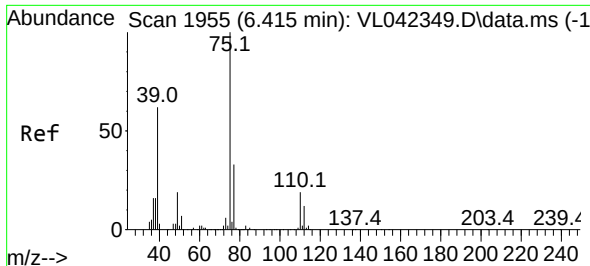


#44  
2,2,4-Trimethylpentane  
Concen: 9.157 ppbv  
RT: 4.642 min Scan# 1407  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



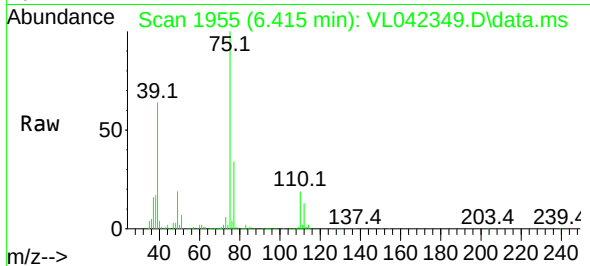
Tgt Ion: 57 Resp: 626085  
Ion Ratio Lower Upper  
57 100  
41 34.0 27.2 40.8  
56 32.1 25.7 38.5





#45  
 t-1,3-Dichloropropene  
 Concen: 9.233 ppbv  
 RT: 6.415 min Scan# 1955  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

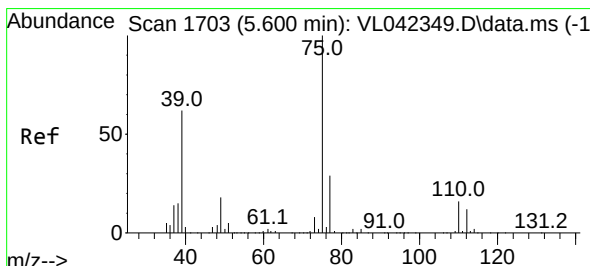
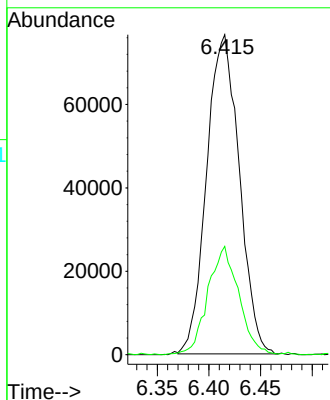
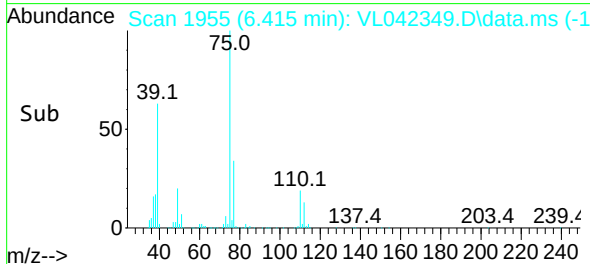
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



Tgt Ion: 75 Resp: 16822  
 Ion Ratio Lower Upper  
 75 100  
 77 33.8 27.0 40.6

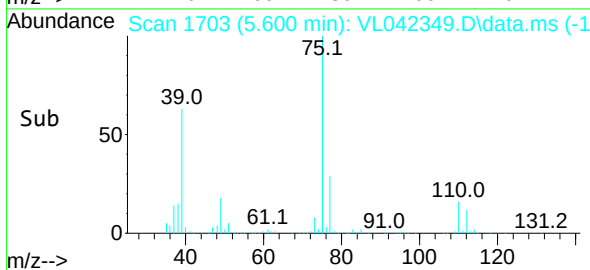
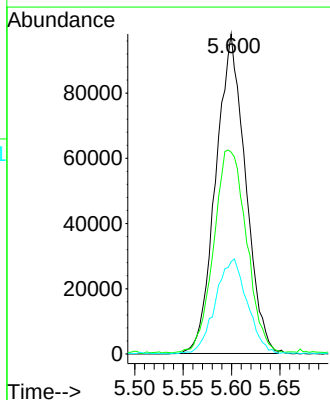
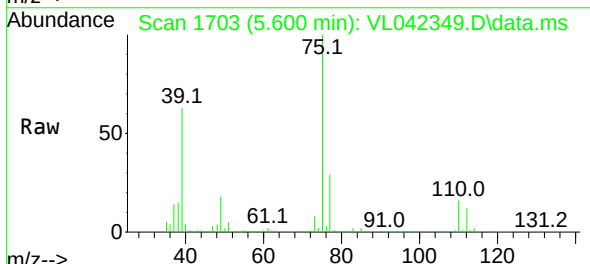
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

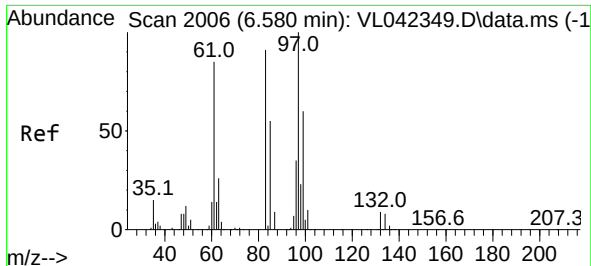


#46  
 cis-1,3-Dichloropropene  
 Concen: 9.377 ppbv  
 RT: 5.600 min Scan# 1703  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion: 75 Resp: 208811  
 Ion Ratio Lower Upper  
 75 100  
 39 62.5 50.0 75.0  
 77 28.8 23.0 34.6

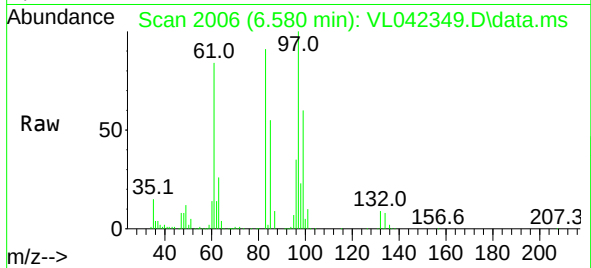






#47  
1,1,2-Trichloroethane  
Concen: 9.181 ppbv  
RT: 6.580 min Scan# 2006  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

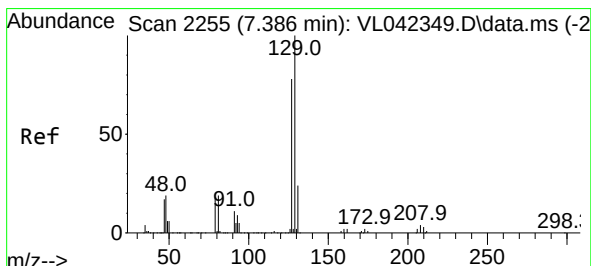
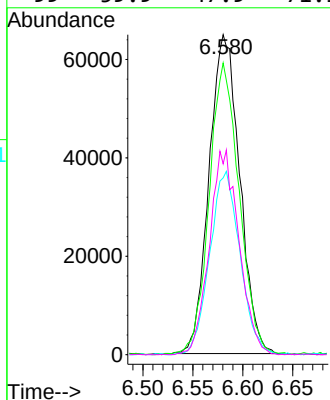
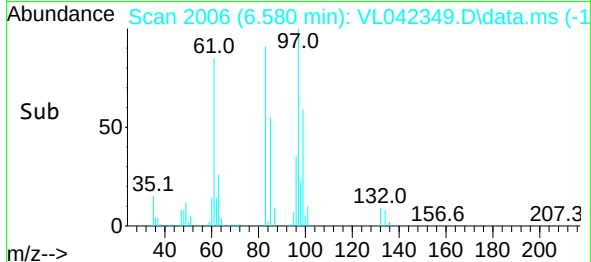
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



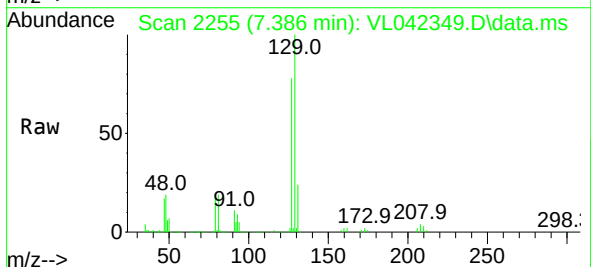
Tgt Ion: 97 Resp: 137898  
Ion Ratio Lower Upper  
97 100  
83 91.0 72.8 109.2  
85 55.3 44.2 66.4  
99 59.9 47.9 71.9

Manual Integrations  
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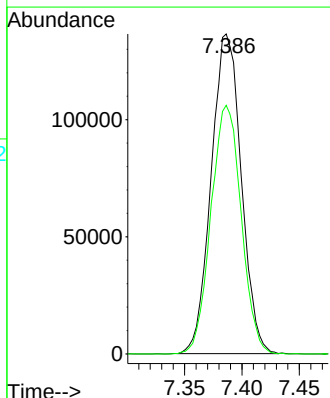
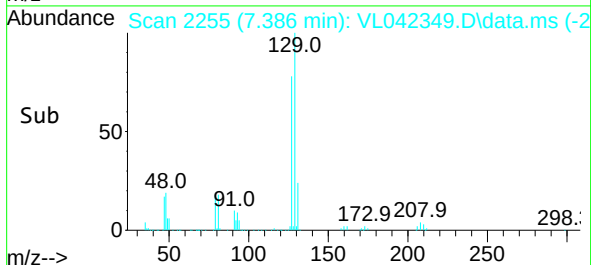
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

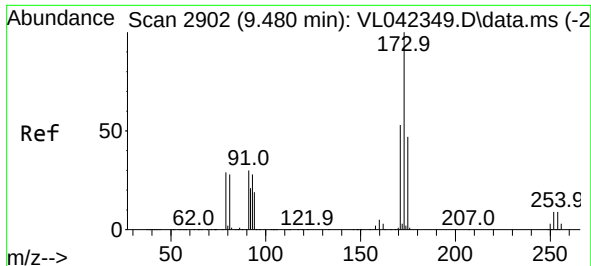


#48  
Dibromochloromethane  
Concen: 9.388 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



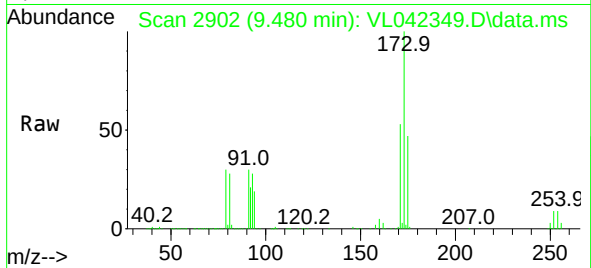
Tgt Ion:129 Resp: 248954  
Ion Ratio Lower Upper  
129 100  
127 78.2 39.1 117.3





#49  
Bromoform  
Concen: 9.734 ppbv  
RT: 9.480 min Scan# 2902  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

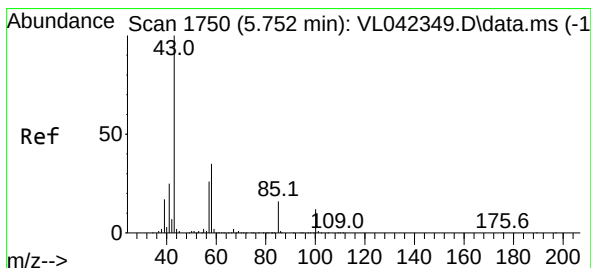
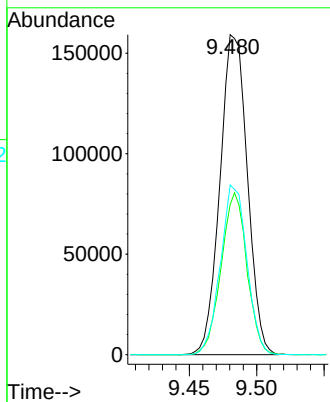
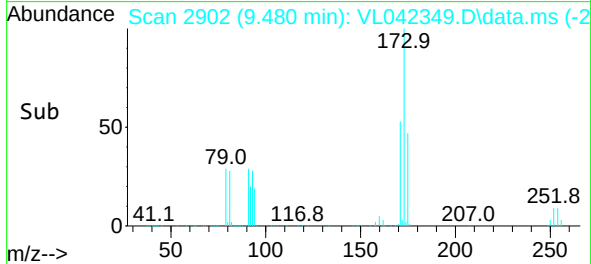
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 173 Resp: 225700  
Ion Ratio Lower Upper  
173 100  
175 47.7 38.2 57.2  
171 51.1 40.9 61.3

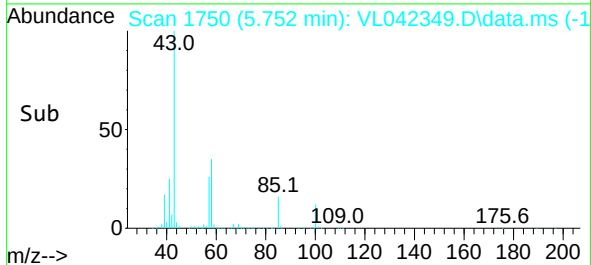
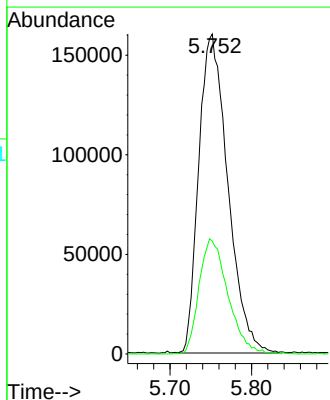
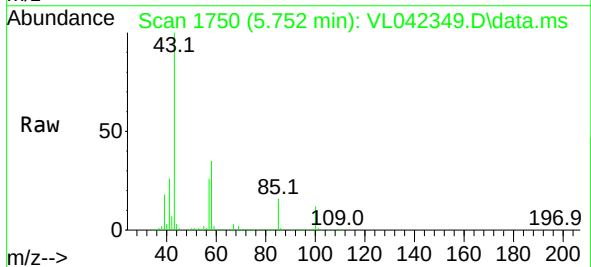
Manual Integrations  
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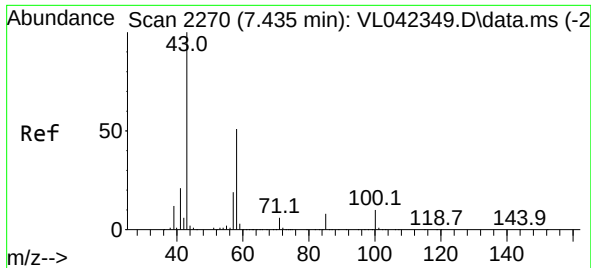
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#50  
4-Methyl-2-Pentanone  
Concen: 8.215 ppbv  
RT: 5.752 min Scan# 1750  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

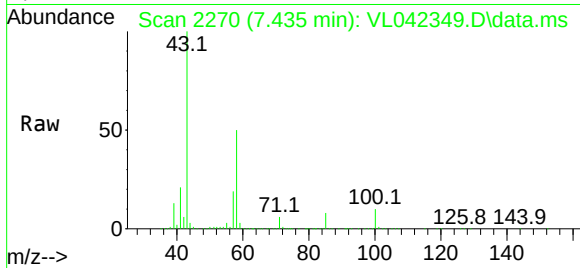
Tgt Ion: 43 Resp: 396548  
Ion Ratio Lower Upper  
43 100  
58 35.8 28.6 43.0





#51  
2-Hexanone  
Concen: 7.511 ppbv  
RT: 7.435 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

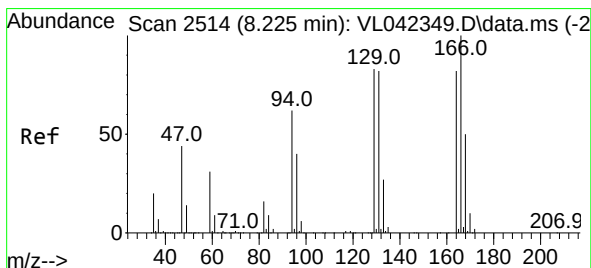
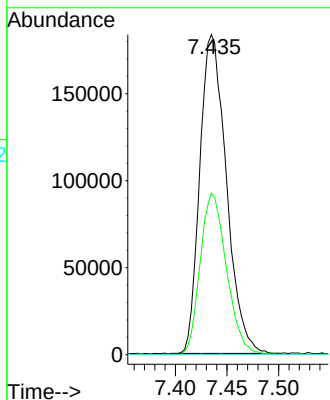
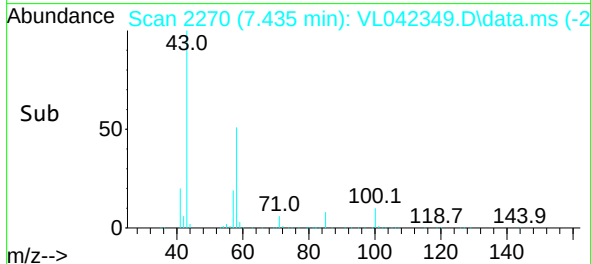
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



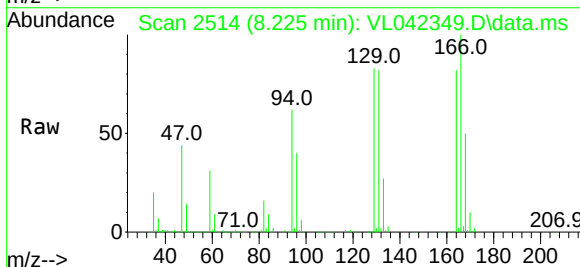
Tgt Ion: 43 Resp: 32716  
Ion Ratio Lower Upper  
43 100  
58 50.3 40.2 60.4  
98 0.1 0.1 0.1

Manual Integrations  
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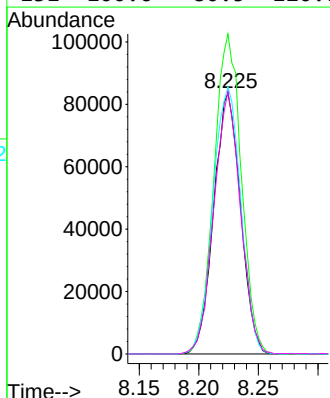
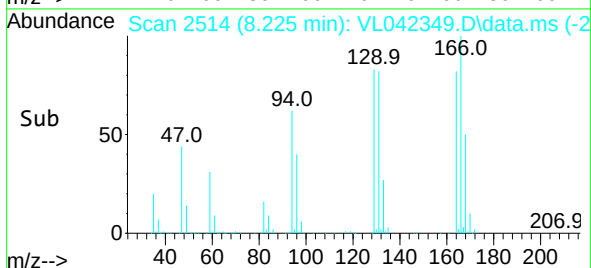
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

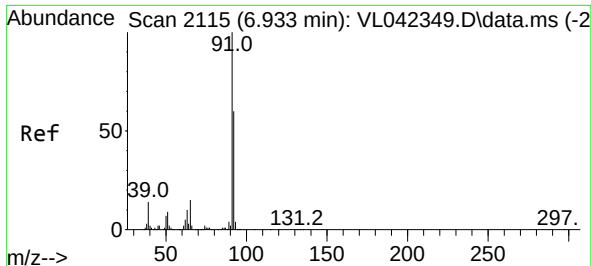


#52  
Tetrachloroethene  
Concen: 8.553 ppbv  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



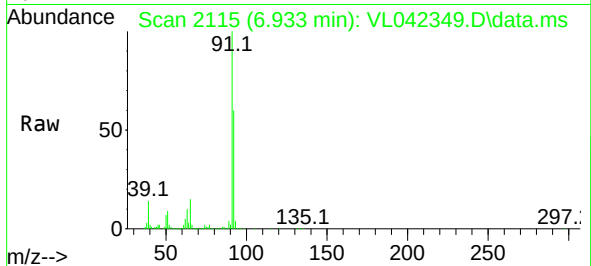
Tgt Ion:164 Resp: 130720  
Ion Ratio Lower Upper  
164 100  
166 122.7 98.2 147.2  
129 102.3 81.8 122.8  
131 100.6 80.5 120.7





#53  
Toluene  
Concen: 9.216 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

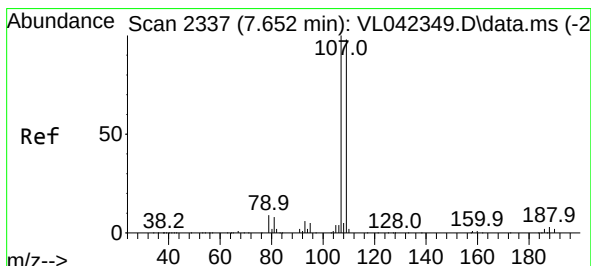
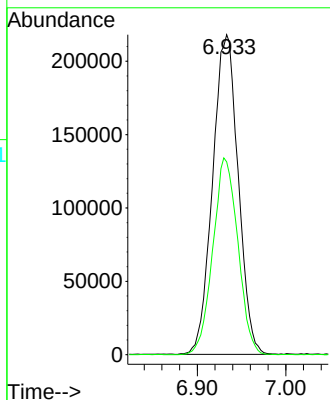
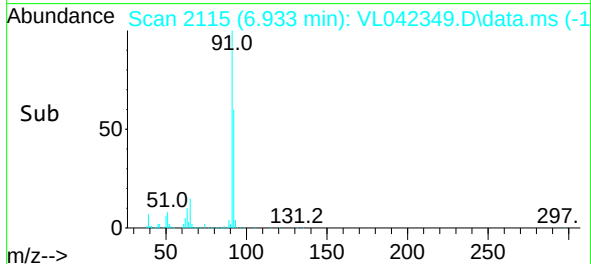
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



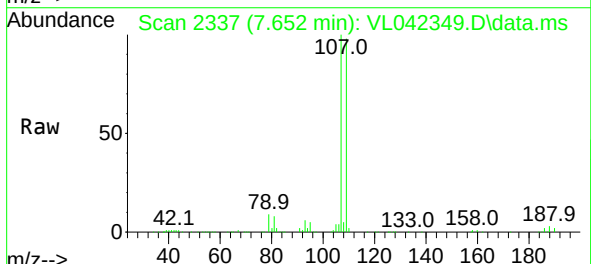
Tgt Ion: 91 Resp: 437258  
Ion Ratio Lower Upper  
91 100  
92 60.3 48.2 72.4

Manual Integrations  
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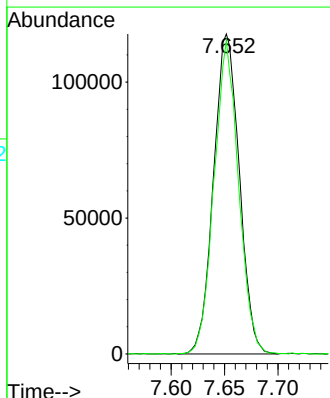
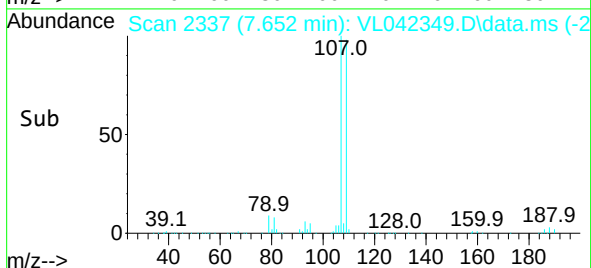
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

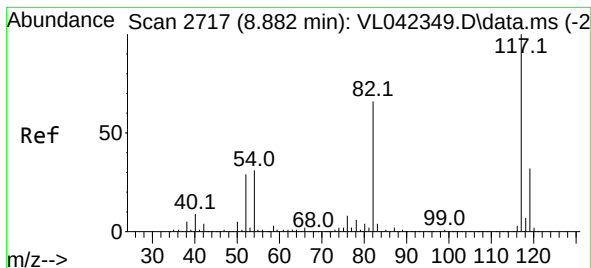


#54  
1,2-Dibromoethane  
Concen: 9.235 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



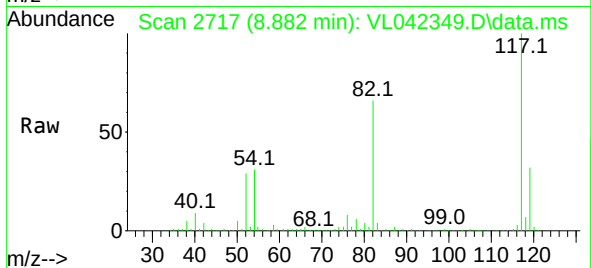
Tgt Ion:107 Resp: 197665  
Ion Ratio Lower Upper  
107 100  
109 97.8 78.2 117.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

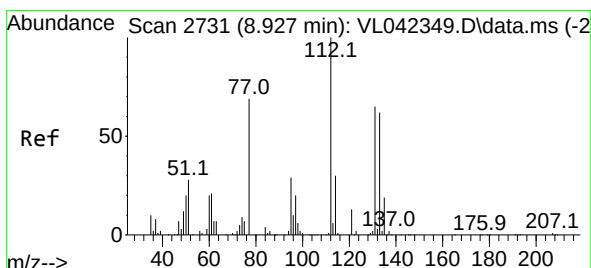
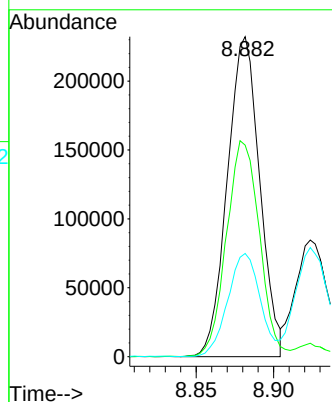
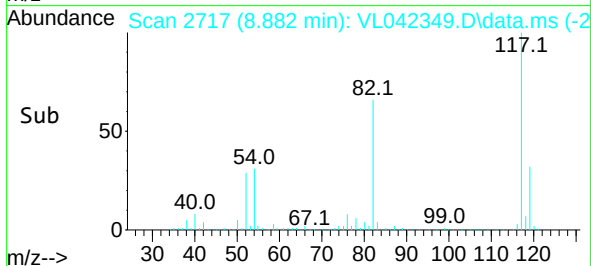
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



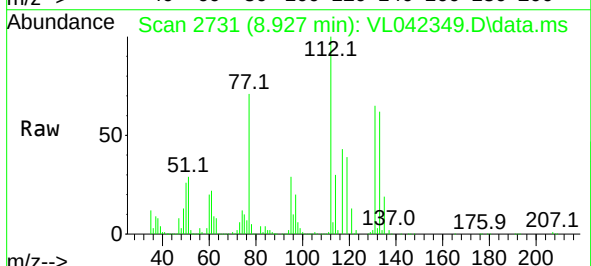
Tgt Ion:117 Resp: 338120  
Ion Ratio Lower Upper  
117 100  
82 72.2 57.8 86.6  
119 31.5 25.2 37.8

Manual Integrations  
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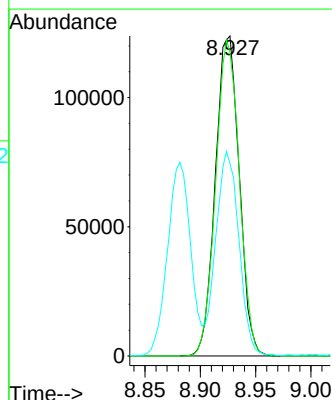
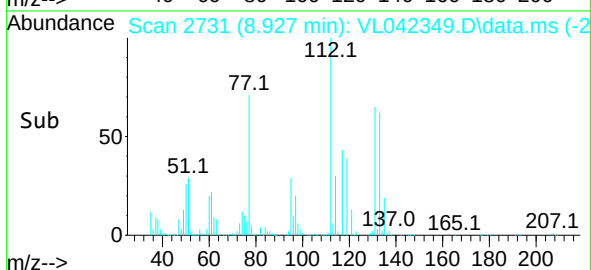
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

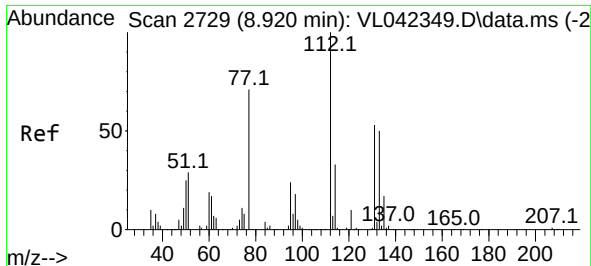


#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.091 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



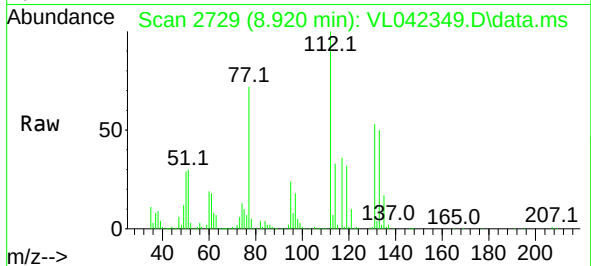
Tgt Ion:131 Resp: 186041  
Ion Ratio Lower Upper  
131 100  
133 97.9 78.3 117.5  
119 60.9 48.7 73.1





#57  
Chlorobenzene  
Concen: 9.187 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

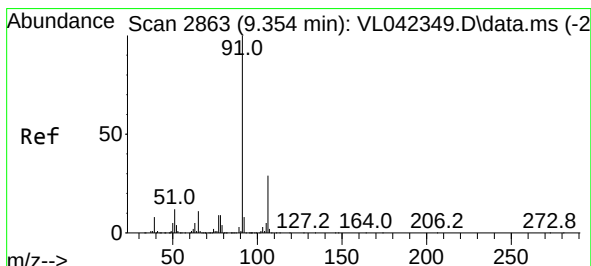
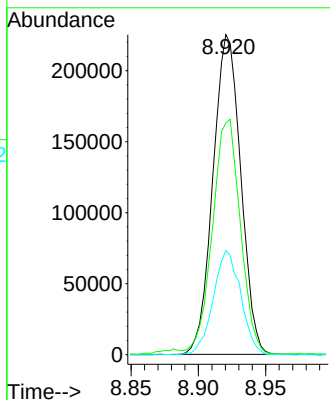
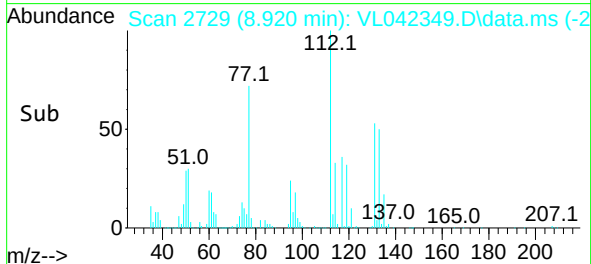
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 112 Resp: 323084  
Ion Ratio Lower Upper  
112 100  
77 72.2 57.8 86.6  
114 32.6 29.3 35.9

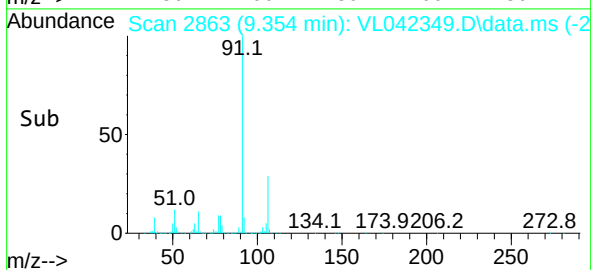
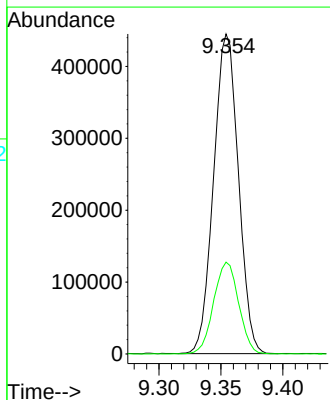
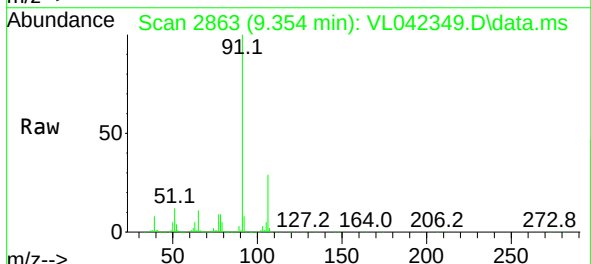
Manual Integrations  
APPROVED

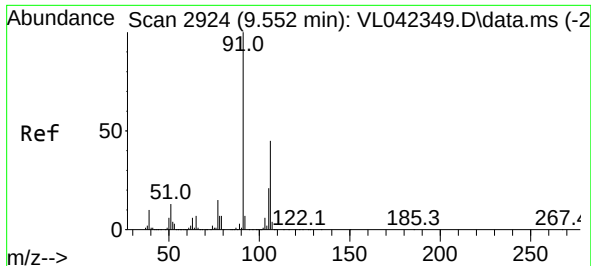
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#58  
Ethyl Benzene  
Concen: 9.248 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581  
Ion Ratio Lower Upper  
91 100  
106 28.7 23.0 34.4





#59

m/p-Xylene

Concen: 18.187 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 984458

Ion Ratio Lower Upper

91 100

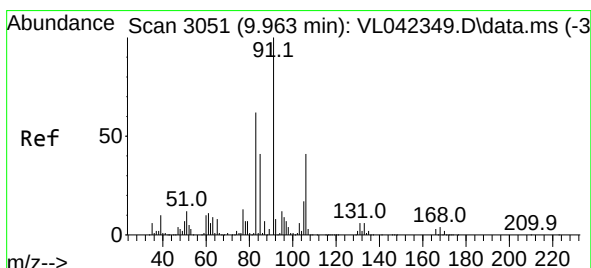
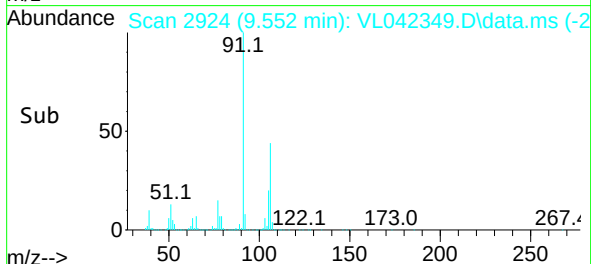
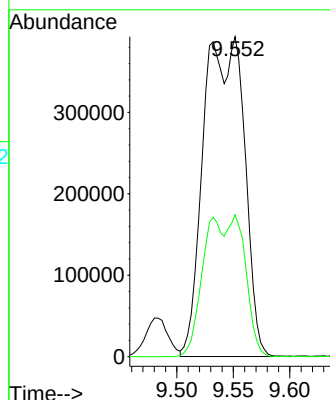
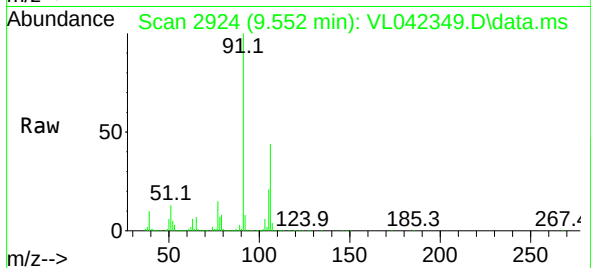
106 44.3 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 8.972 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042349.D

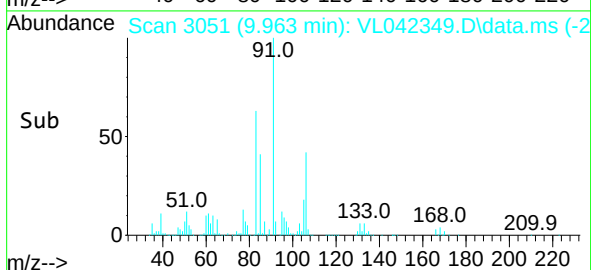
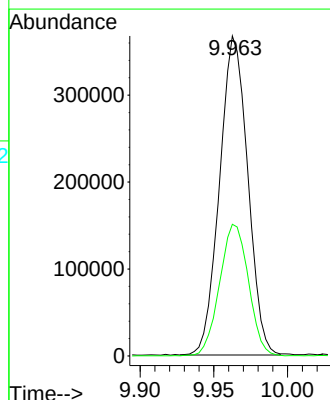
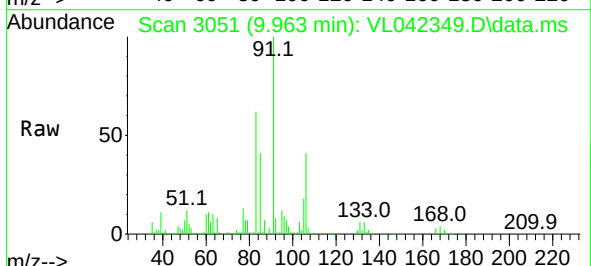
Acq: 17 Apr 2025 09:44

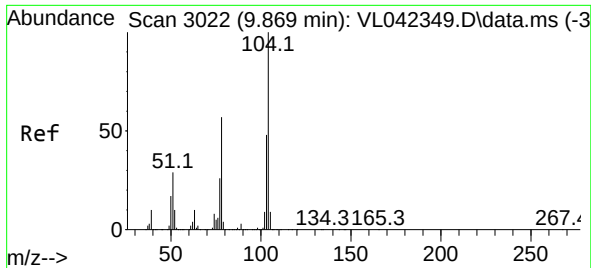
Tgt Ion: 91 Resp: 487616

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4





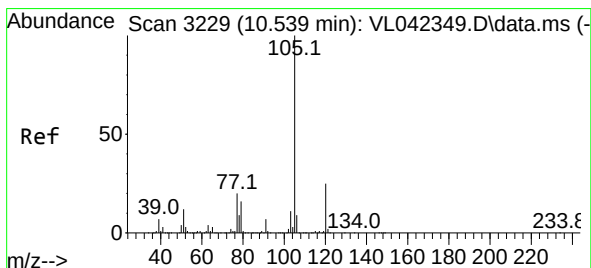
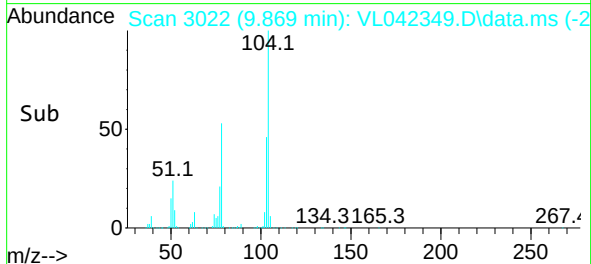
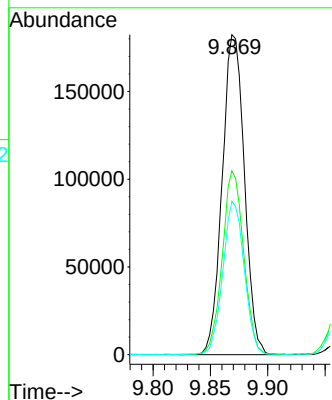
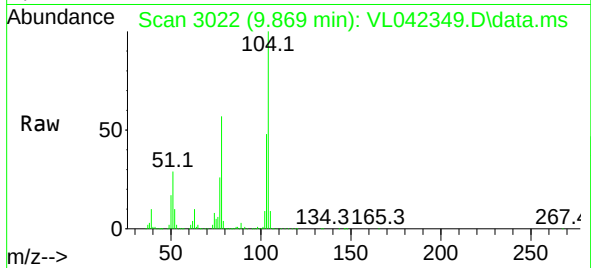
#61  
Styrene  
Concen: 9.464 ppbv  
RT: 9.869 min Scan# 3022  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:104 Resp: 24548  
Ion Ratio Lower Upper  
104 100  
78 55.7 44.6 66.8  
103 46.7 37.4 56.0

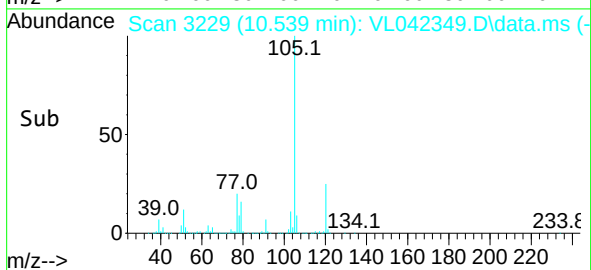
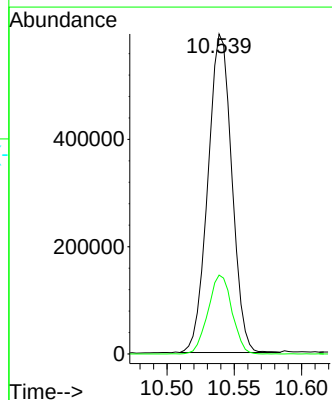
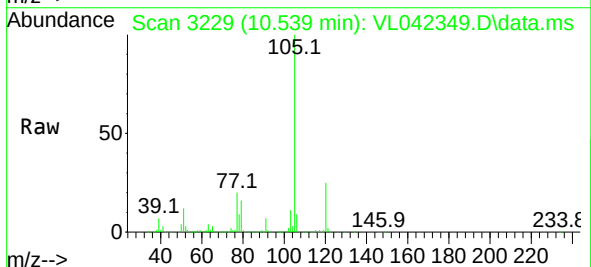
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

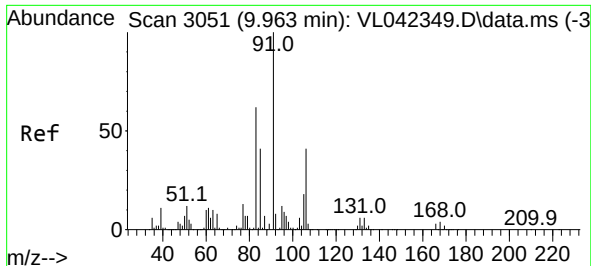


#62  
Isopropylbenzene  
Concen: 9.197 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788  
Ion Ratio Lower Upper  
105 100  
120 24.8 19.8 29.8

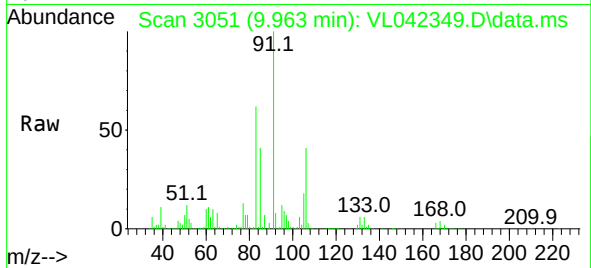






#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.355 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

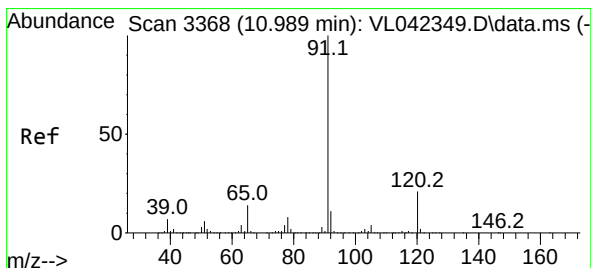
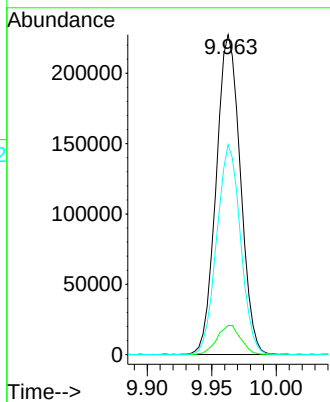
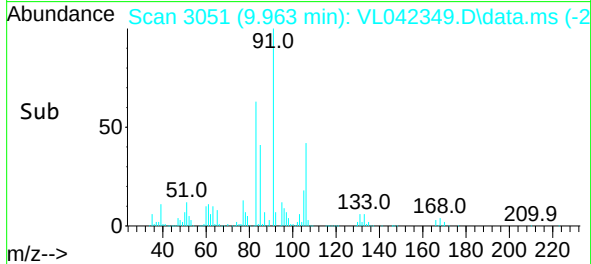
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



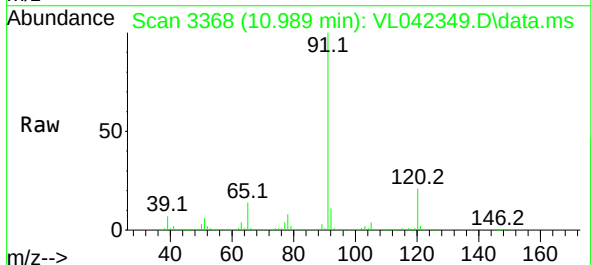
Tgt Ion: 83 Resp: 29504  
Ion Ratio Lower Upper  
83 100  
131 9.1 4.5 13.7  
85 64.7 32.4 97.0

Manual Integrations  
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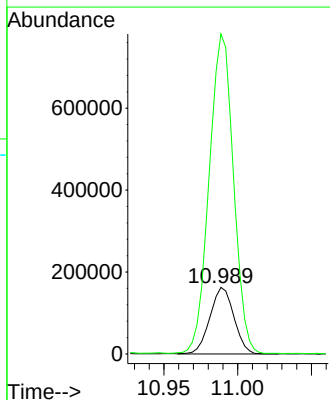
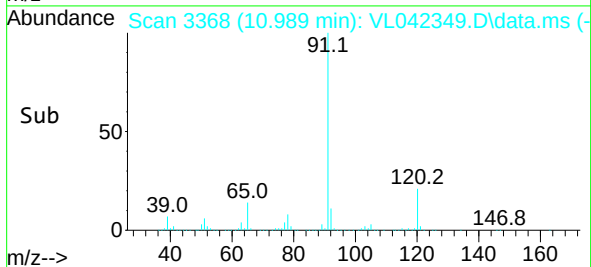
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

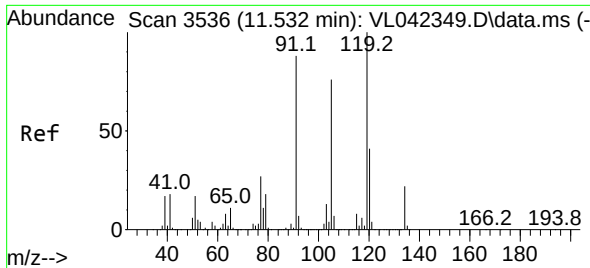


#64  
n-propylbenzene  
Concen: 9.144 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



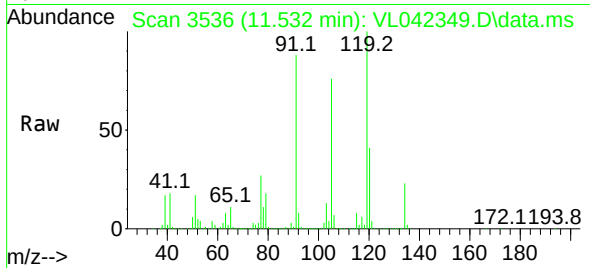
Tgt Ion:120 Resp: 183390  
Ion Ratio Lower Upper  
120 100  
91 490.5 392.4 588.6





#65  
tert-Butylbenzene  
Concen: 8.795 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

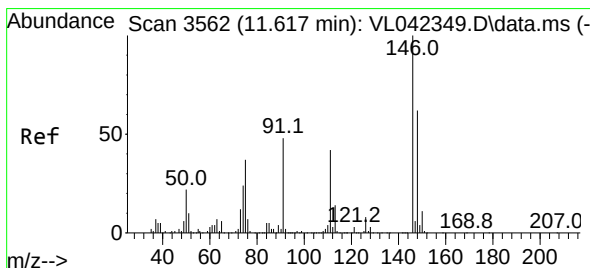
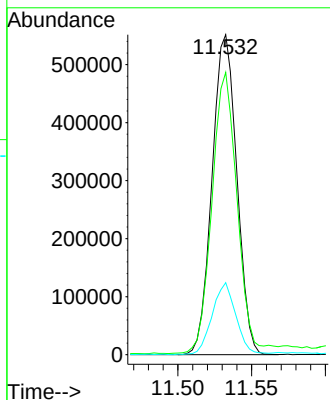
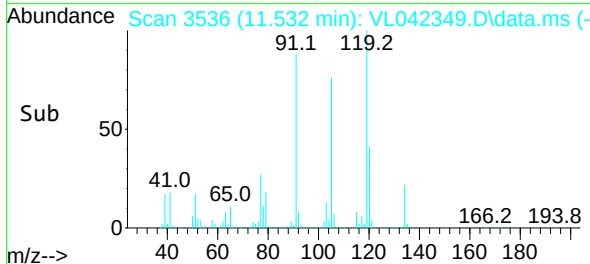
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



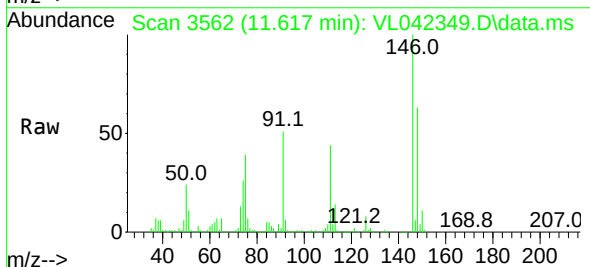
Tgt Ion: 119 Resp: 64495  
Ion Ratio Lower Upper  
119 100  
91 93.2 74.6 111.8  
134 23.5 18.8 28.2

Manual Integrations  
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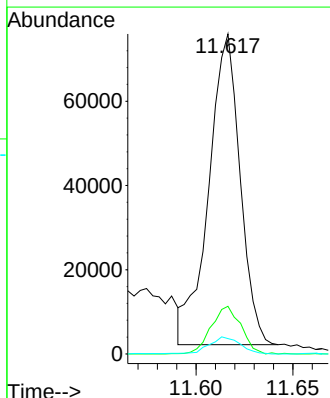
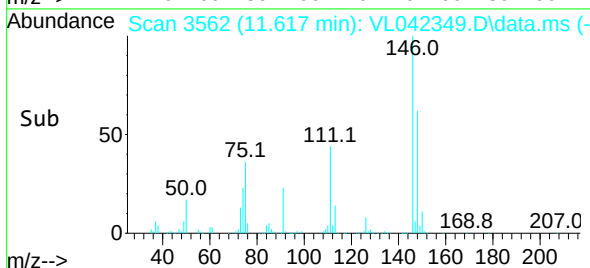
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

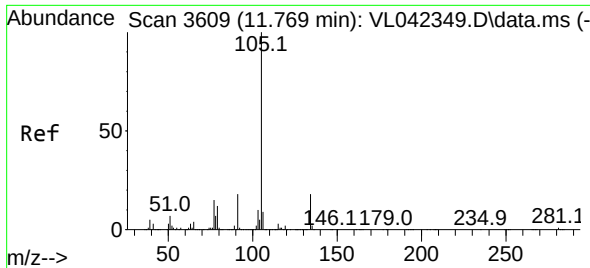


#66  
Benzyl Chloride  
Concen: 10.333 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



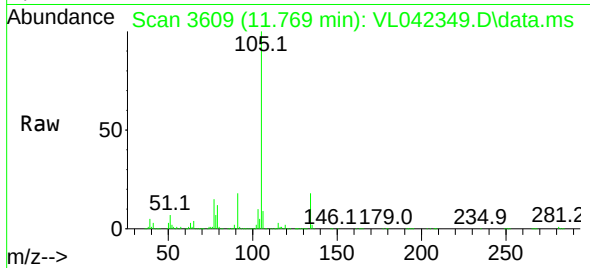
Tgt Ion: 91 Resp: 83269  
Ion Ratio Lower Upper  
91 100  
126 14.7 11.8 17.6  
128 5.6 4.5 6.7





#67  
 sec-Butylbenzene  
 Concen: 8.824 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

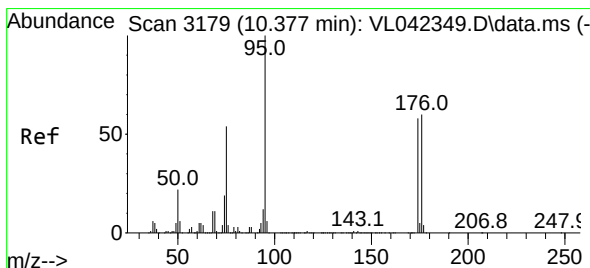
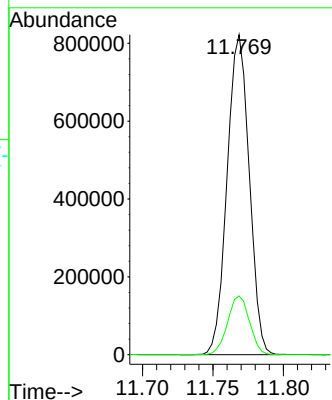
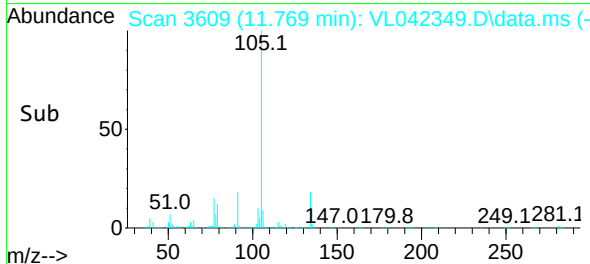
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



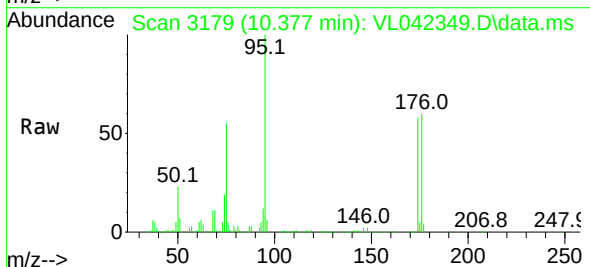
Tgt Ion:105 Resp: 900074  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 14.6 21.8

Manual Integrations  
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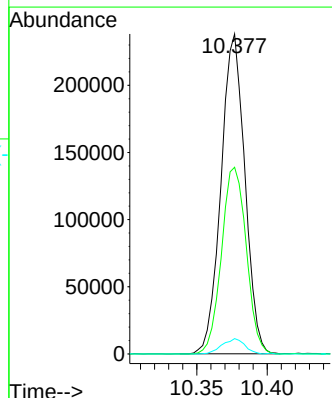
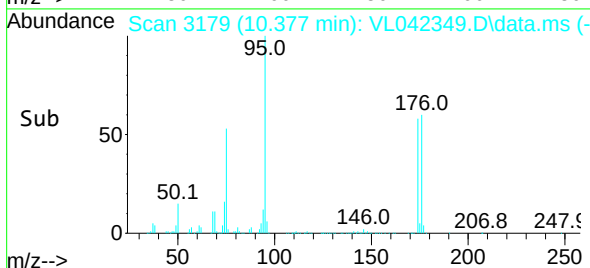
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

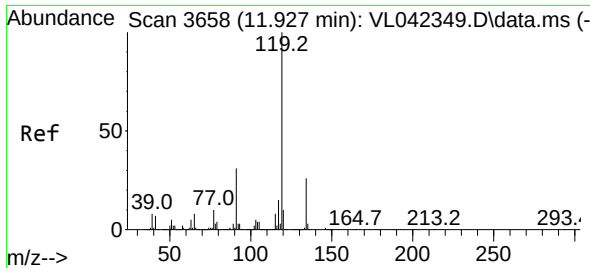


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.114 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44



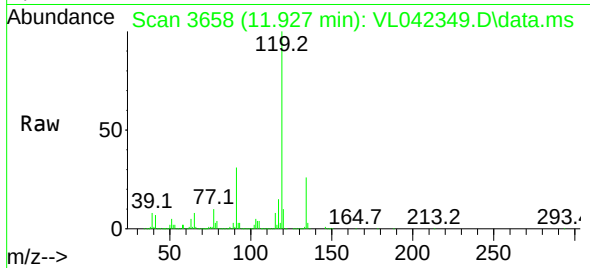
Tgt Ion: 95 Resp: 281013  
 Ion Ratio Lower Upper  
 95 100  
 174 60.6 48.5 72.7  
 175 4.6 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 8.790 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

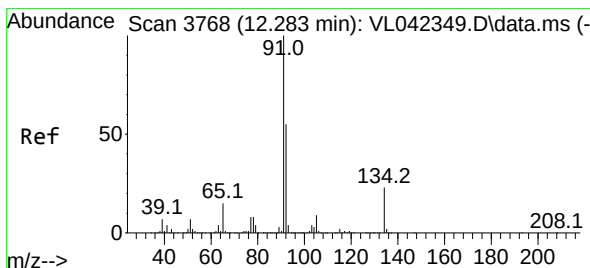
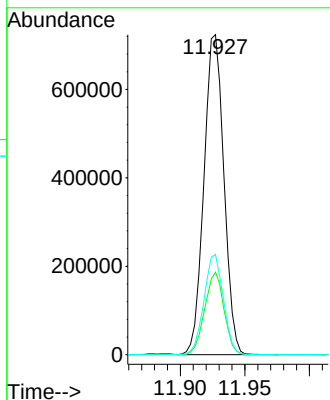
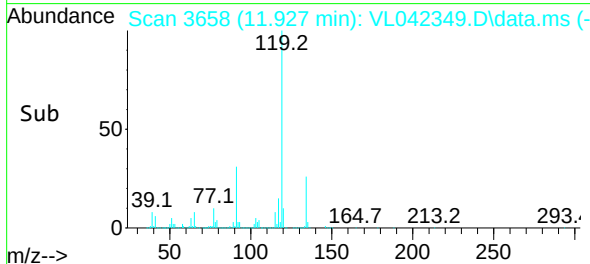
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



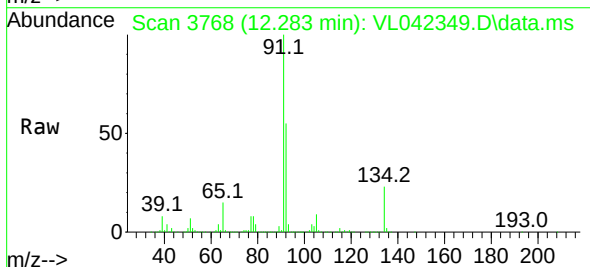
Tgt Ion:119 Resp: 77898  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.0 30.0  
91 30.5 24.4 36.6

Manual Integrations  
APPROVED

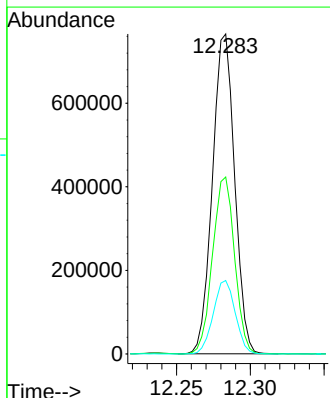
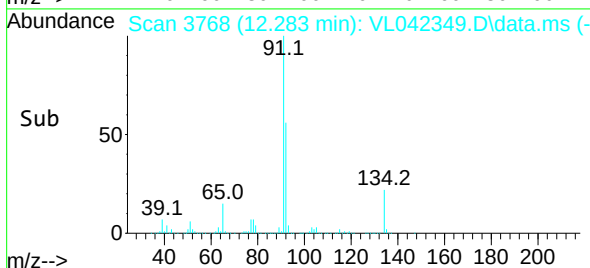
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

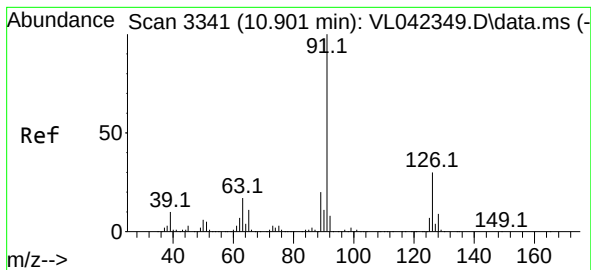


#70  
n-Butylbenzene  
Concen: 8.682 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion: 91 Resp: 801364  
Ion Ratio Lower Upper  
91 100  
92 55.3 44.2 66.4  
134 22.8 18.2 27.4





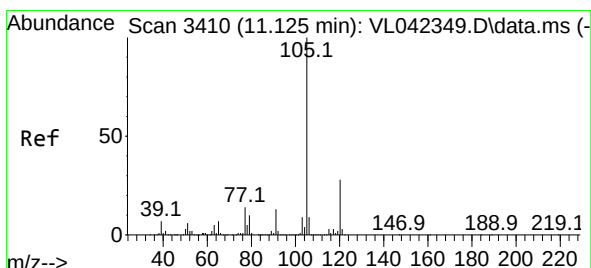
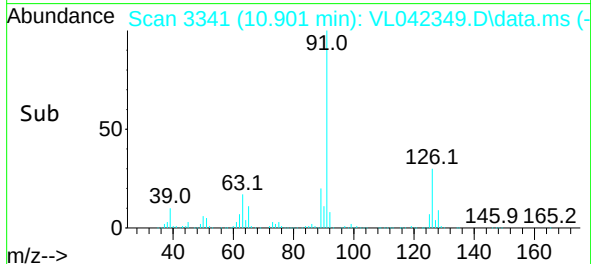
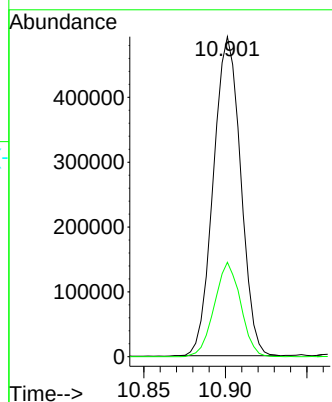
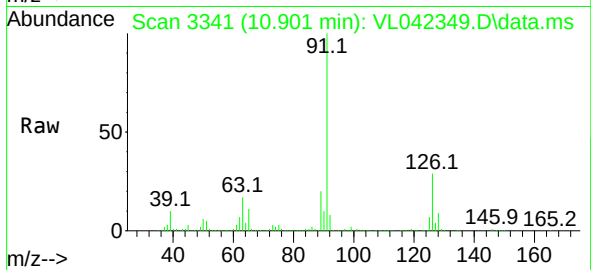
#71  
2-Chlorotoluene  
Concen: 9.157 ppbv  
RT: 10.901 min Scan# 3341  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 573039  
Ion Ratio Lower Upper  
91 100  
126 28.4 11.4 45.4

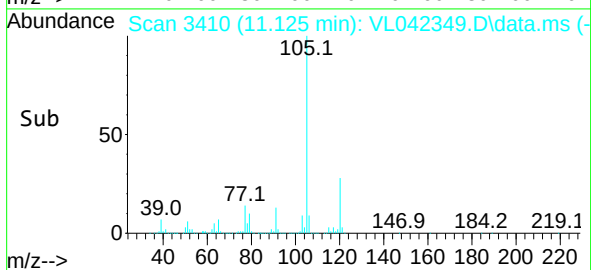
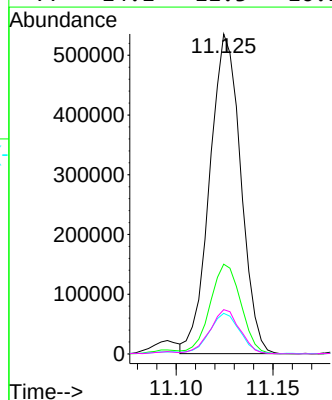
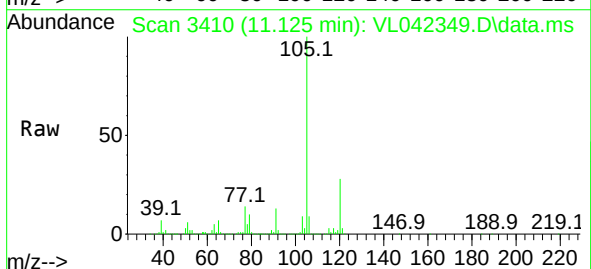
Manual Integrations  
APPROVED

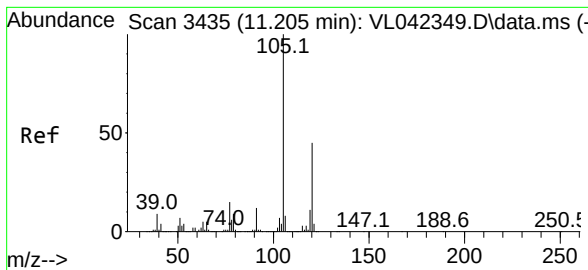
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#72  
4-Ethyltoluene  
Concen: 8.982 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

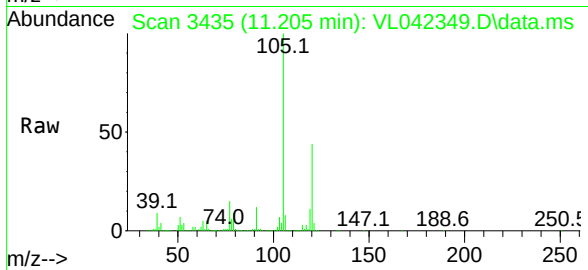
Tgt Ion:105 Resp: 596757  
Ion Ratio Lower Upper  
105 100  
120 29.0 23.2 34.8  
91 13.0 10.4 15.6  
77 14.1 11.3 16.9





#73  
1,3,5-Trimethylbenzene  
Concen: 8.743 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

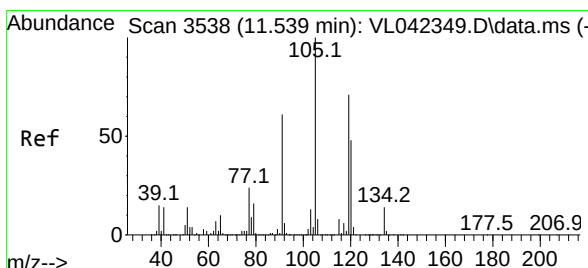
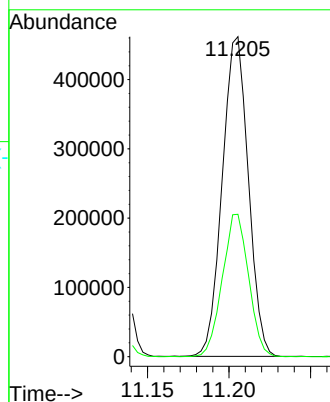
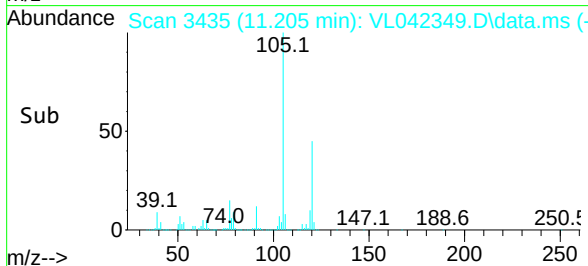
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



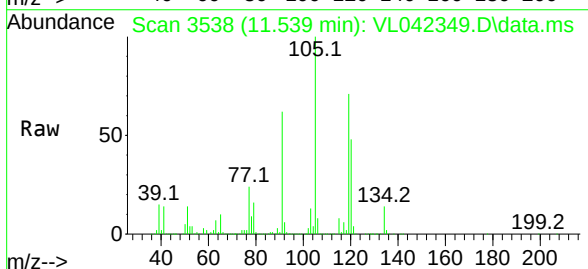
Tgt Ion:105 Resp: 51285  
Ion Ratio Lower Upper  
105 100  
120 44.5 35.6 53.4

Manual Integrations  
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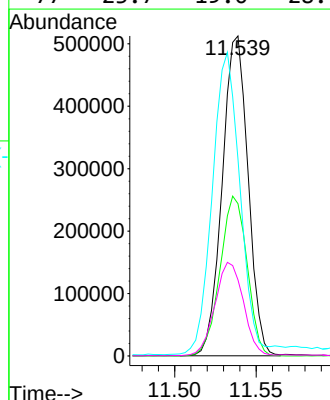
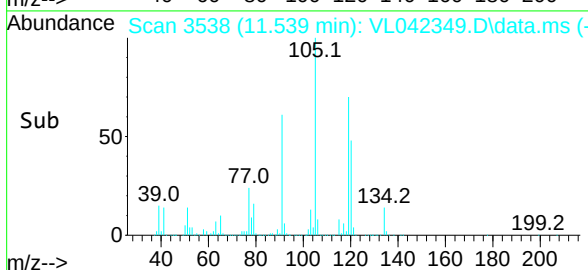
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

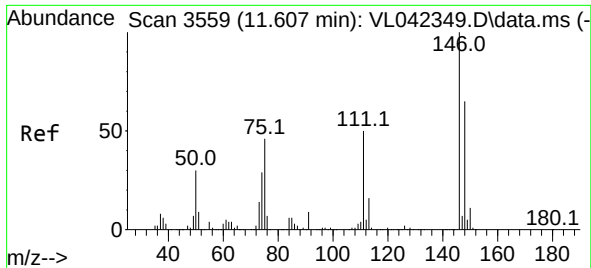


#74  
1,2,4-Trimethylbenzene  
Concen: 8.248 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



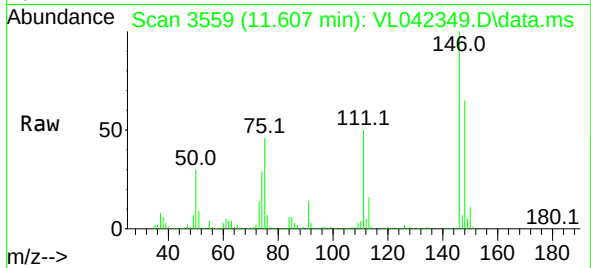
Tgt Ion:105 Resp: 565064  
Ion Ratio Lower Upper  
105 100  
120 47.6 38.1 57.1  
91 61.0 48.8 73.2  
77 23.7 19.0 28.4





#75  
1,3-Dichlorobenzene  
Concen: 8.997 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

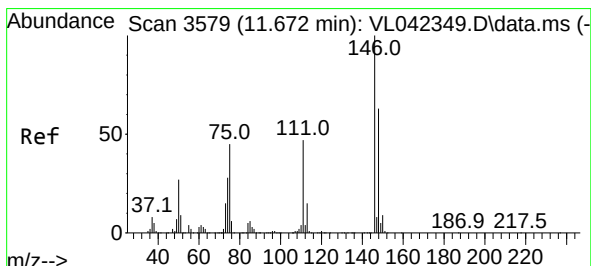
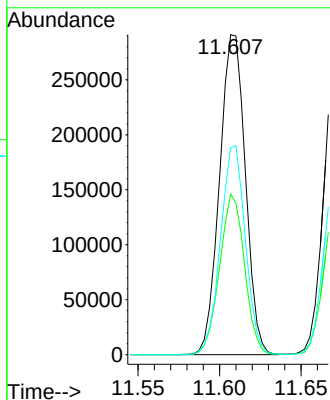
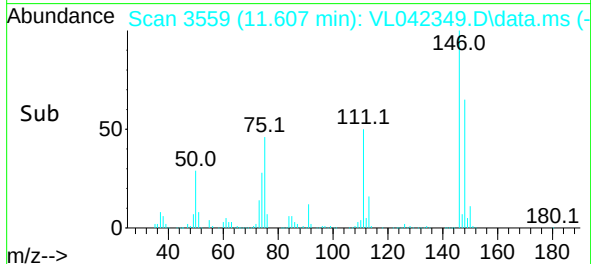
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



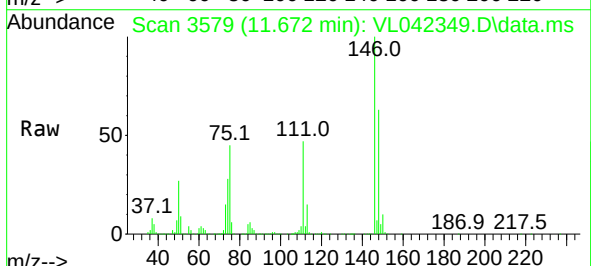
Tgt Ion:146 Resp: 320380  
Ion Ratio Lower Upper  
146 100  
111 48.5 24.3 72.8  
148 63.2 31.6 94.8

Manual Integrations  
APPROVED

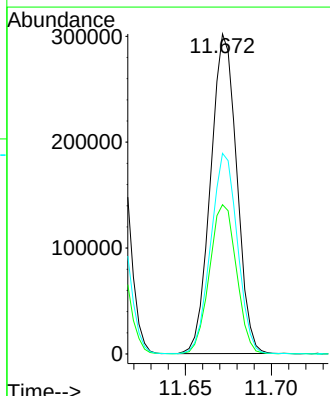
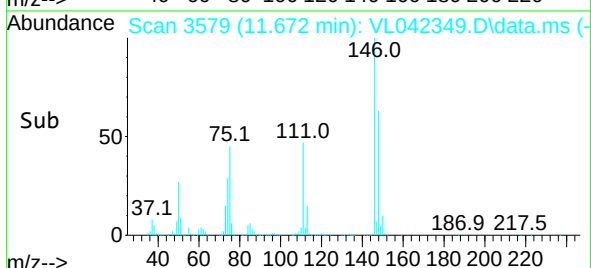
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

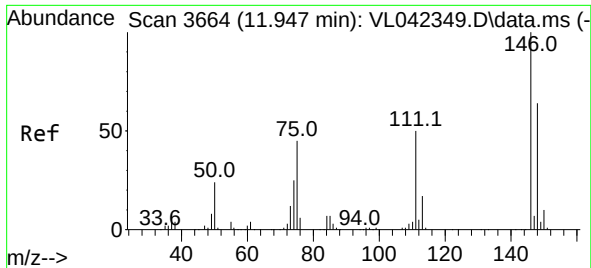


#76  
1,4-Dichlorobenzene  
Concen: 8.915 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



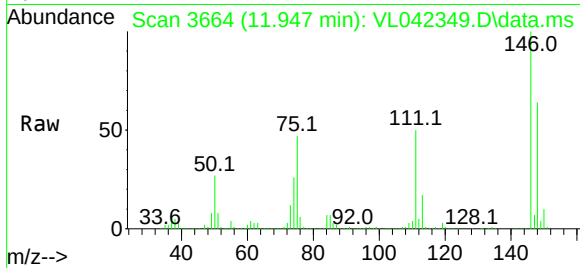
Tgt Ion:146 Resp: 319089  
Ion Ratio Lower Upper  
146 100  
111 48.4 24.2 72.6  
148 64.3 32.1 96.5





#77  
1,2-Dichlorobenzene  
Concen: 8.832 ppbv  
RT: 11.947 min Scan# 30582  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

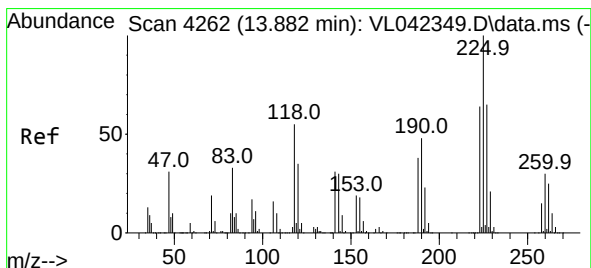
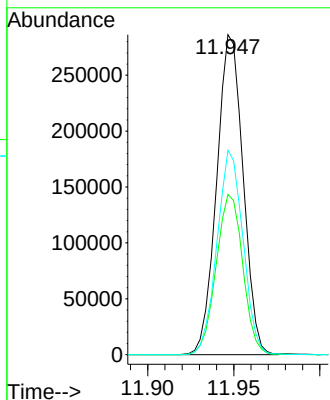
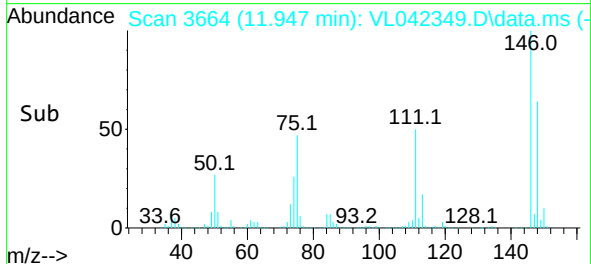
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



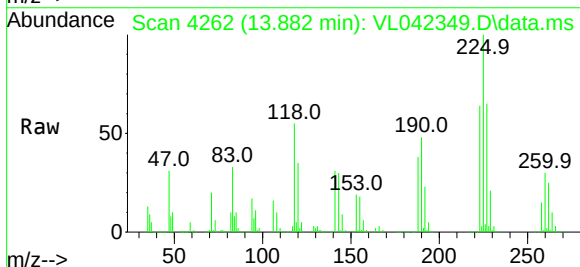
Tgt Ion:146 Resp: 30582  
Ion Ratio Lower Upper  
146 100  
111 50.6 25.3 75.9  
148 63.0 31.5 94.5

Manual Integrations  
APPROVED

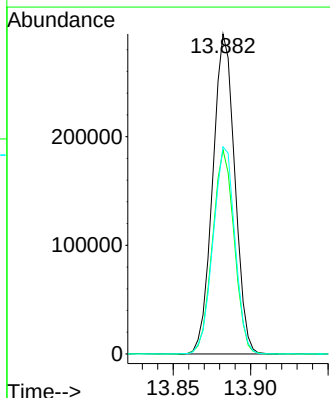
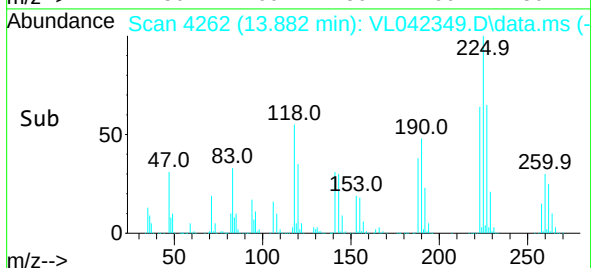
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



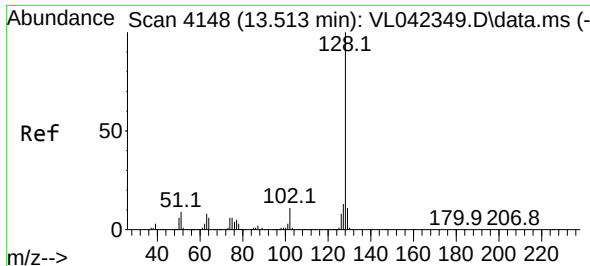
#78  
Hexachloro-1,3-Butadiene  
Concen: 8.346 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion:225 Resp: 291833  
Ion Ratio Lower Upper  
225 100  
223 62.9 50.3 75.5  
227 64.4 51.5 77.3

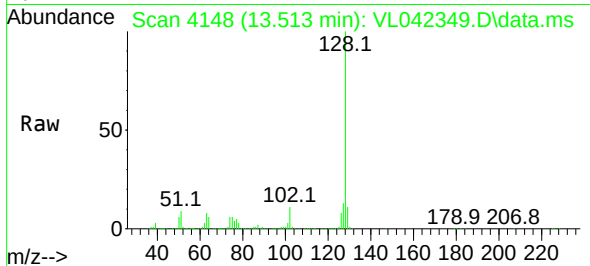






#79  
Naphthalene  
Concen: 8.271 ppbv  
RT: 13.513 min Scan# 4148  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

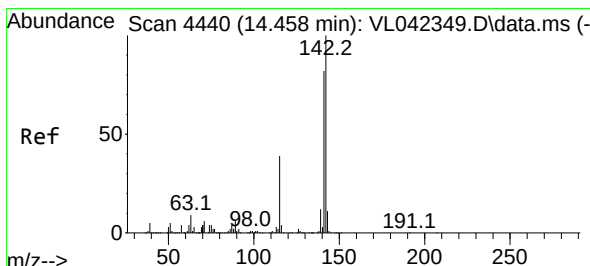
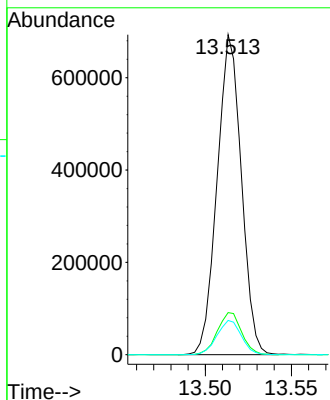
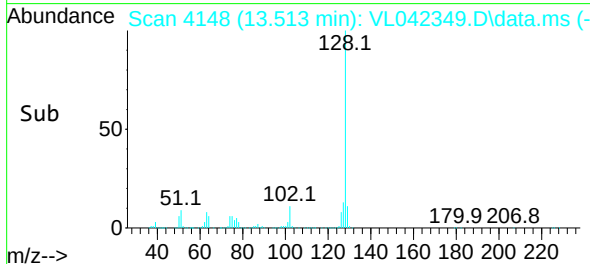
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



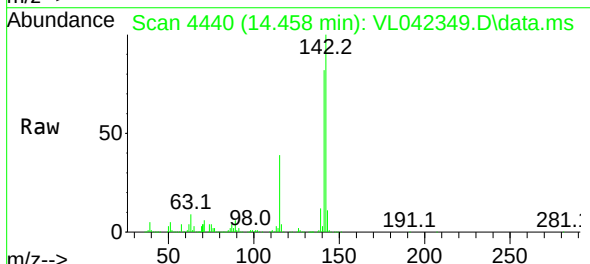
Tgt Ion:128 Resp: 677578  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 10.7 8.6 12.8

Manual Integrations  
APPROVED

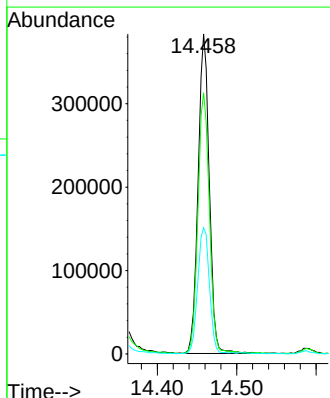
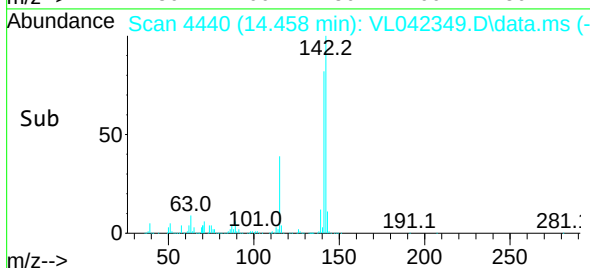
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

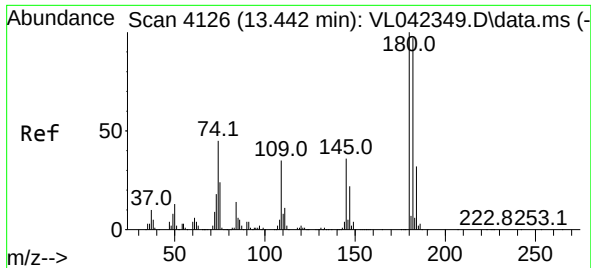


#80  
Naphthalene,2-methyl-  
Concen: 8.074 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44



Tgt Ion:142 Resp: 376995  
Ion Ratio Lower Upper  
142 100  
141 83.5 66.8 100.2  
115 41.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.702 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion:180 Resp: 306119

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

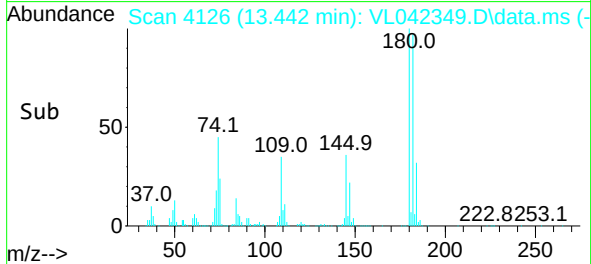
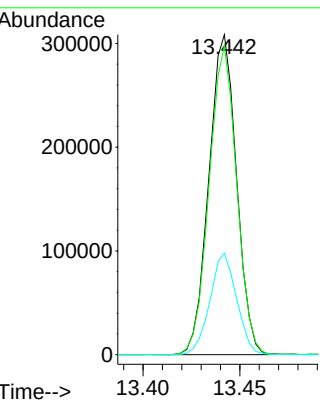
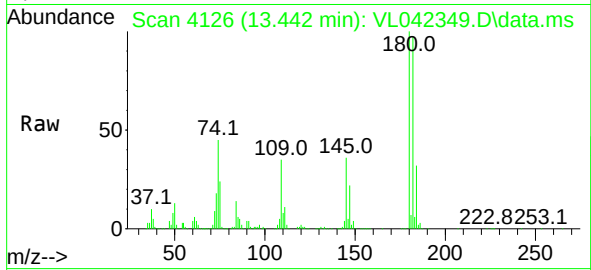
184 30.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042350.D  
 Acq On : 17 Apr 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 123206   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 355918   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 335603   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 275715   | 9.998    | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.000% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 45008  | 2.068 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 41853  | 2.019 | ppbv   | 97     |
| 4) Chloromethane              | 1.534 | 50  | 17272  | 2.005 | ppbv   | 93     |
| 5) Vinyl Chloride             | 1.580 | 62  | 16979  | 1.811 | ppbv   | 92     |
| 6) Bromomethane               | 1.667 | 94  | 7398   | 1.821 | ppbv # | 80     |
| 7) Chloroethane               | 1.706 | 64  | 6889   | 2.031 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 38955  | 2.084 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 18671  | 1.978 | ppbv   | 97     |
| 10) Heptane                   | 4.978 | 43  | 54438m | 2.143 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 43035  | 2.079 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 35415  | 2.092 | ppbv   | 100    |
| 13) Ethanol                   | 1.722 | 45  | 3034m  | 3.933 | ppbv   |        |
| 14) Bromoethene               | 1.780 | 108 | 13049  | 2.045 | ppbv # | 92     |
| 15) Acetone                   | 1.835 | 43  | 42949  | 2.129 | ppbv   | 93     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 18110  | 1.912 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 51829  | 2.074 | ppbv # | 94     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 15690  | 1.928 | ppbv   | 87     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 22106  | 1.973 | ppbv # | 38     |
| 20) Methylene Chloride        | 2.062 | 84  | 14329  | 1.814 | ppbv # | 82     |
| 21) Allyl Chloride            | 2.098 | 41  | 27340  | 1.963 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 18142  | 2.015 | ppbv   | 97     |
| 23) Vinyl Acetate             | 2.463 | 43  | 18454  | 2.260 | ppbv # | 91     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 34077  | 1.993 | ppbv   | 96     |
| 25) Ethyl Acetate             | 2.835 | 43  | 101467 | 2.040 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 40046  | 1.990 | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.149 | 76  | 43975  | 2.041 | ppbv # | 64     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 27905  | 2.116 | ppbv   | 97     |
| 29) Chloroform                | 2.848 | 83  | 58946  | 2.072 | ppbv   | 100    |
| 30) Cyclohexane               | 3.858 | 84  | 33195  | 2.048 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 39249  | 2.051 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 61442  | 2.014 | ppbv   | 99     |
| 34) 2-Butanone                | 2.560 | 43  | 58249  | 2.069 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 60291  | 1.872 | ppbv   | 88     |
| 36) Benzene                   | 3.658 | 78  | 79814  | 2.079 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 47398  | 2.057 | ppbv   | 100    |
| 38) Trichloroethene           | 4.544 | 130 | 31826m | 1.891 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 28806  | 2.012 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.593 | 88  | 16536m | 2.133 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.059 | 42  | 33298  | 2.047 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.489 | 83  | 64941  | 2.025 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 35256  | 2.046 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 139641 | 2.103 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 36265  | 2.050 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042350.D  
 Acq On : 17 Apr 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:26:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

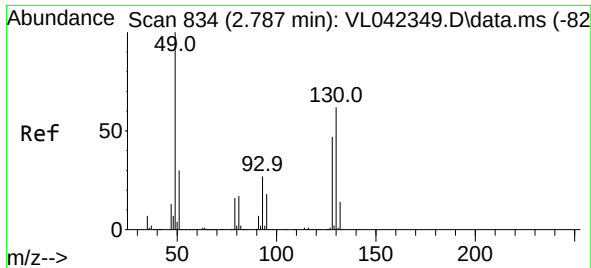
QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 45327m   | 2.096 | ppbv  |          |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 29879    | 2.049 | ppbv  | 88       |
| 48) Dibromochloromethane      | 7.389  | 129  | 53069    | 2.061 | ppbv  | 100      |
| 49) Bromoform                 | 9.483  | 173  | 48069    | 2.135 | ppbv  | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 102182   | 2.180 | ppbv  | 99       |
| 51) 2-Hexanone                | 7.441  | 43   | 100443   | 2.375 | ppbv  | 98       |
| 52) Tetrachloroethene         | 8.228  | 164  | 27854    | 1.877 | ppbv  | 96       |
| 53) Toluene                   | 6.933  | 91   | 97493    | 2.116 | ppbv  | 98       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 43153    | 2.076 | ppbv  | 87       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 42601    | 2.097 | ppbv  | 95       |
| 57) Chlorobenzene             | 8.924  | 112  | 71685    | 2.054 | ppbv  | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 138810   | 2.088 | ppbv  | 98       |
| 59) m/p-Xylene                | 9.532  | 91   | 222542m  | 4.142 | ppbv  |          |
| 60) o-Xylene                  | 9.963  | 91   | 111972   | 2.076 | ppbv  | 98       |
| 61) Styrene                   | 9.872  | 104  | 54229    | 2.106 | ppbv  | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 163716   | 2.067 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 64952    | 1.853 | ppbv  | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 40956    | 2.058 | ppbv  | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 155401   | 2.135 | ppbv  | 92       |
| 66) Benzyl Chloride           | 11.616 | 91   | 17300    | 2.163 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 218327   | 2.156 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 188657   | 2.145 | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 198221   | 2.164 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 128858   | 2.075 | ppbv  | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 137872   | 2.091 | ppbv  | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 123580   | 2.123 | ppbv  | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 145510   | 2.140 | ppbv  | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 75082    | 2.124 | ppbv  | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 75323    | 2.120 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 74786    | 2.176 | ppbv  | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 76158    | 2.194 | ppbv  | 100      |
| 79) Naphthalene               | 13.513 | 128  | 195233   | 2.401 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 119262   | 2.574 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 82156    | 2.353 | ppbv  | 99       |

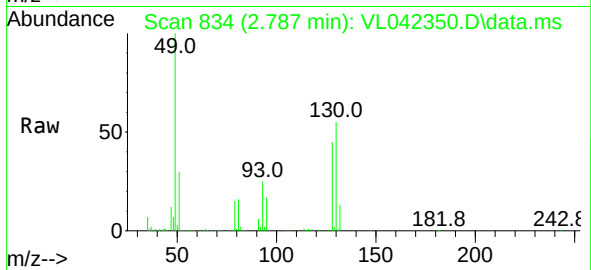
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

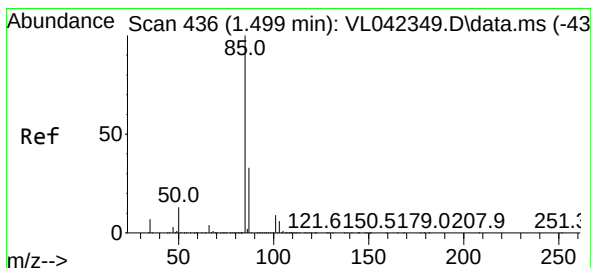
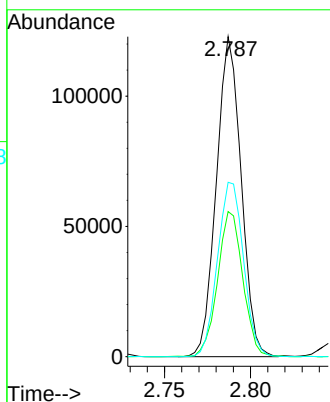
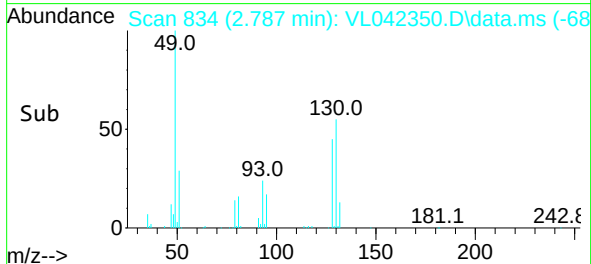
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



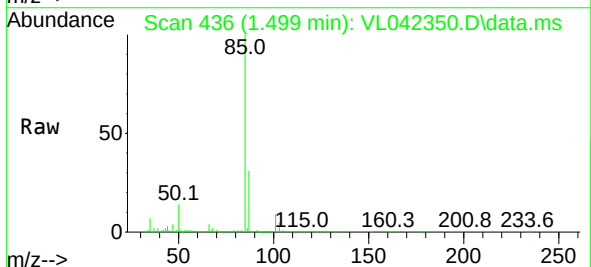
Tgt Ion: 49 Resp: 123200  
Ion Ratio Lower Upper  
49 100  
128 46.2 22.8 68.4  
130 57.3 29.3 88.0

Manual Integrations  
APPROVED

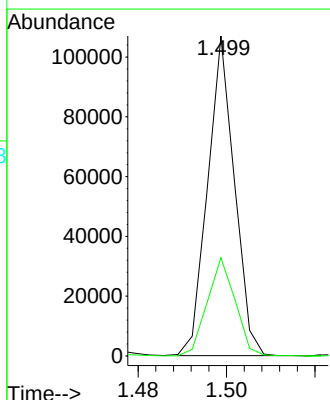
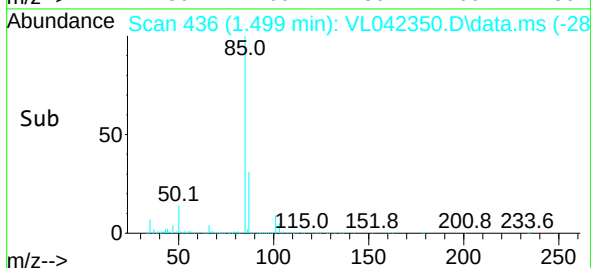
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

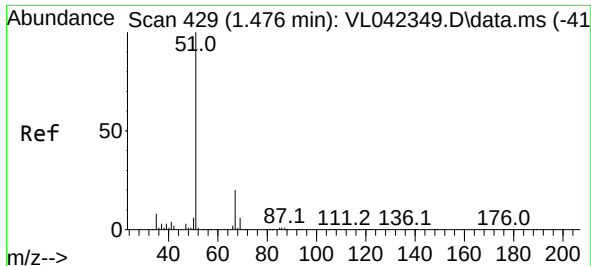


#2  
Dichlorodifluoromethane  
Concen: 2.068 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



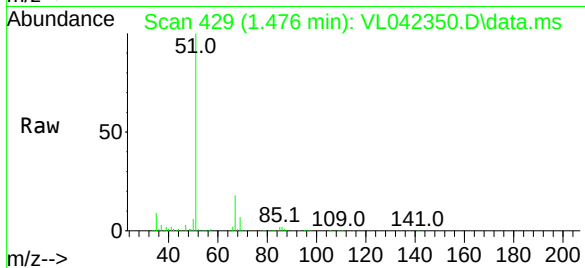
Tgt Ion: 85 Resp: 45008  
Ion Ratio Lower Upper  
85 100  
87 30.6 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 2.019 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

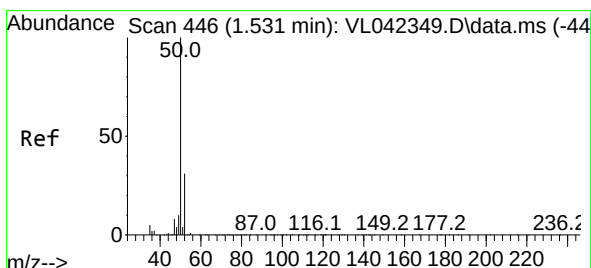
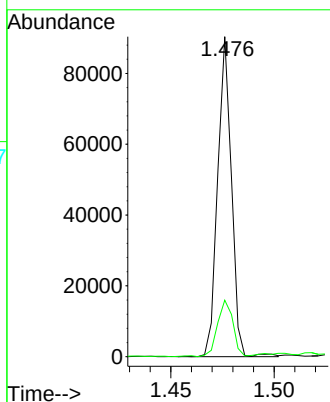
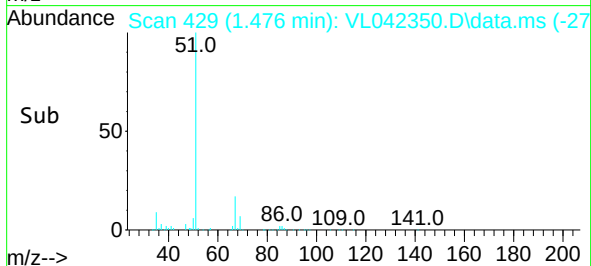
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



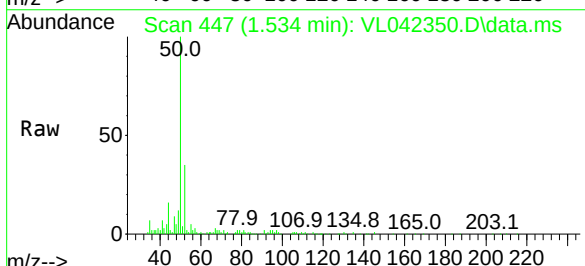
Tgt Ion: 51 Resp: 4185  
Ion Ratio Lower Upper  
51 100  
67 21.7 16.2 24.4

Manual Integrations  
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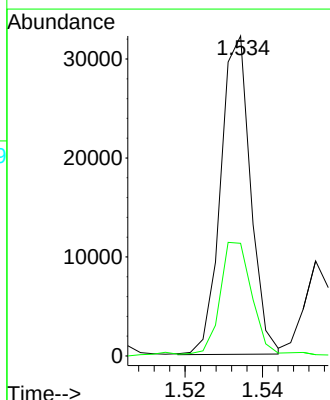
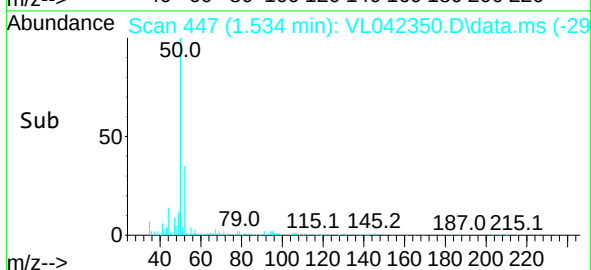
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

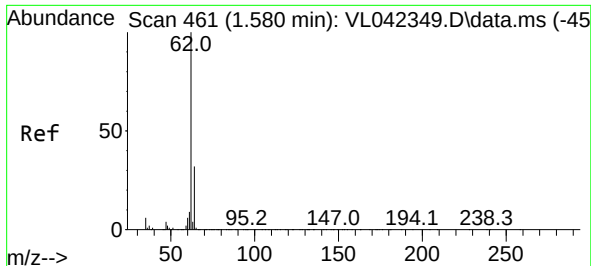


#4  
Chloromethane  
Concen: 2.005 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion: 50 Resp: 17272  
Ion Ratio Lower Upper  
50 100  
52 34.9 24.7 37.1





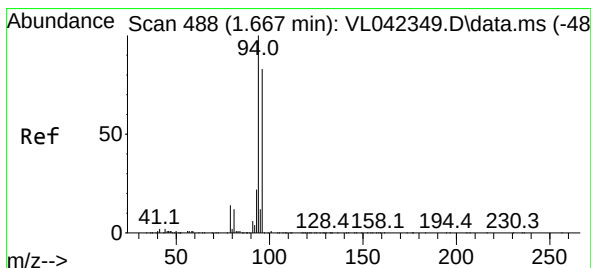
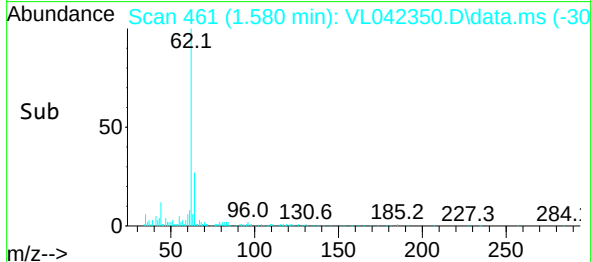
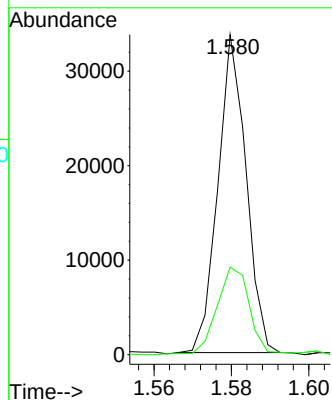
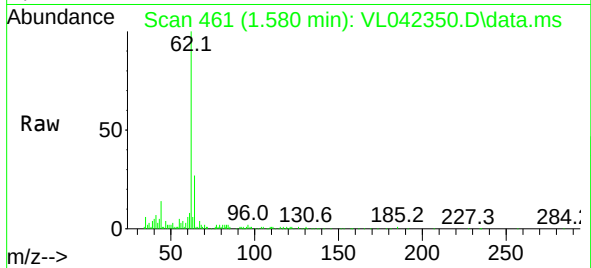
#5  
 Vinyl Chloride  
 Concen: 1.811 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Tgt Ion: 62 Resp: 16979  
 Ion Ratio Lower Upper  
 62 100  
 64 27.2 25.4 38.0

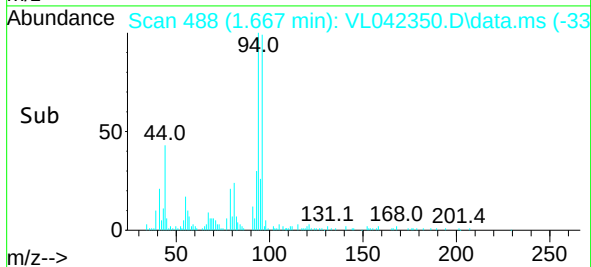
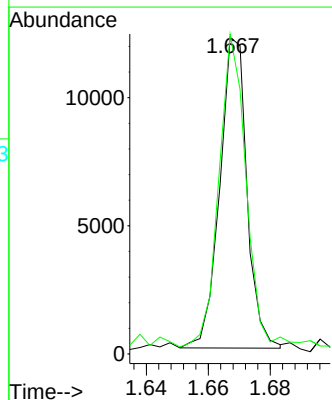
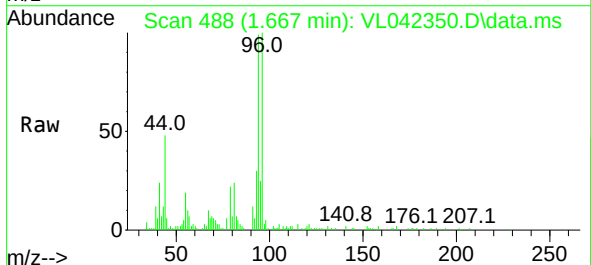
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

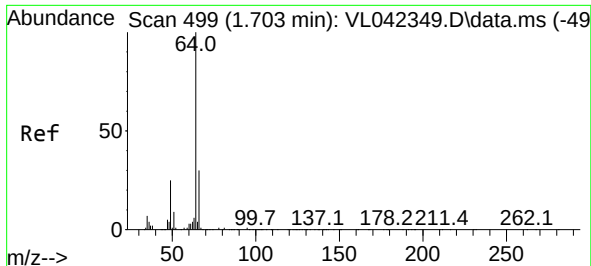


#6  
 Bromomethane  
 Concen: 1.821 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398  
 Ion Ratio Lower Upper  
 94 100  
 96 100.8 66.2 99.2#







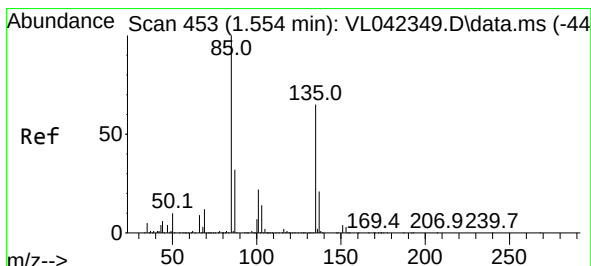
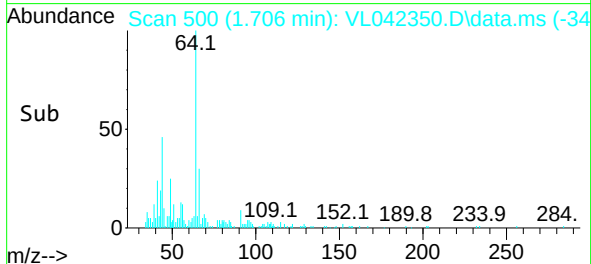
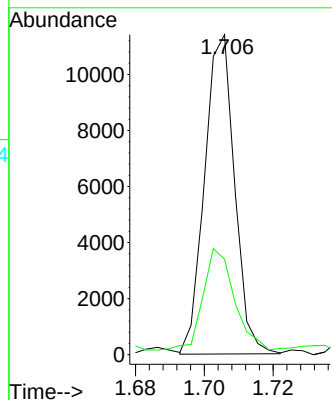
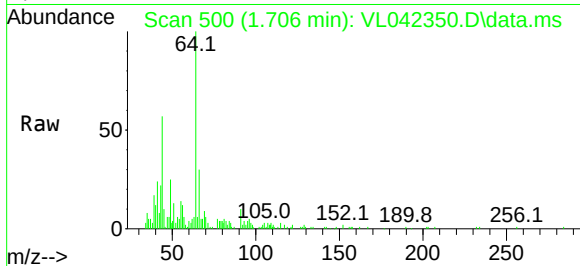
#7  
Chloroethane  
Concen: 2.031 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 64 Resp: 6889  
Ion Ratio Lower Upper  
64 100  
66 29.8 24.6 37.0

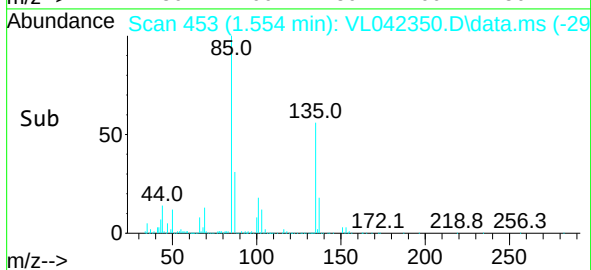
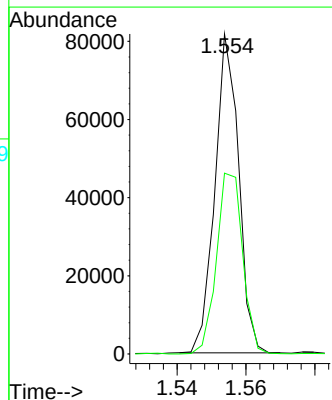
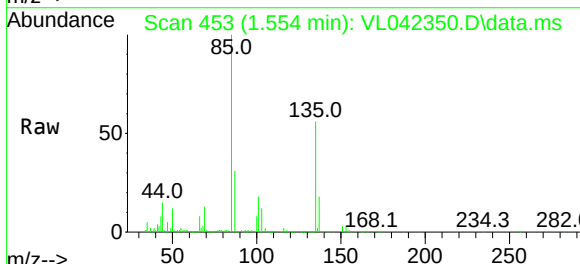
Manual Integrations  
APPROVED

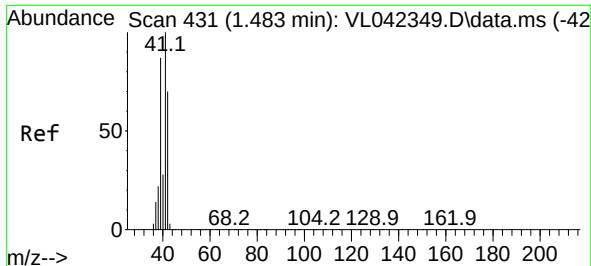
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#8  
Dichlorotetrafluoroethane  
Concen: 2.084 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955  
Ion Ratio Lower Upper  
85 100  
135 63.3 52.2 78.2





#9

Propene

Concen: 1.978 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1867

Ion Ratio Lower Upper

41 100

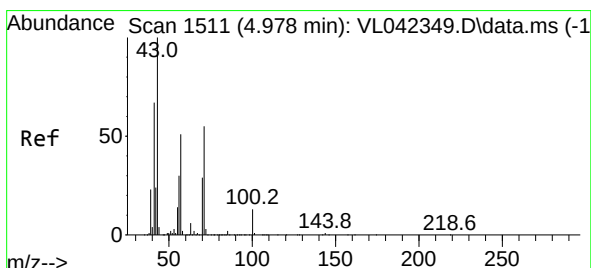
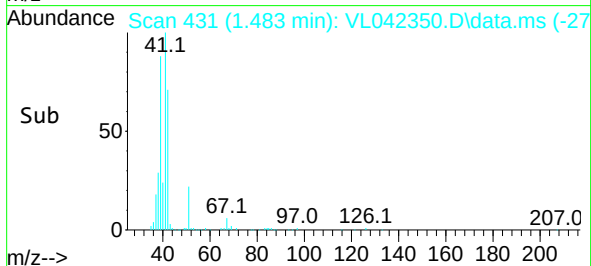
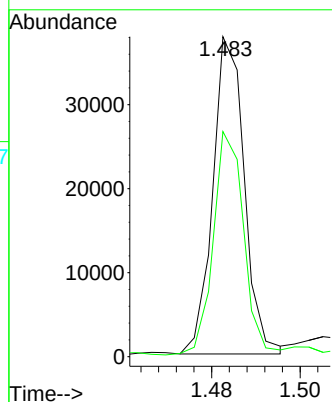
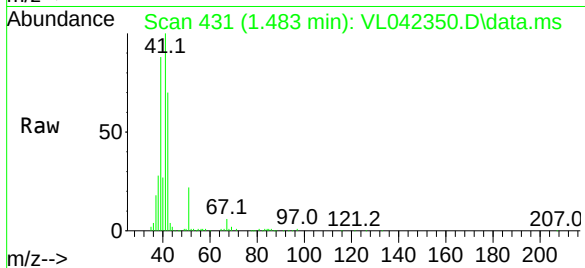
42 72.7 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 2.143 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042350.D

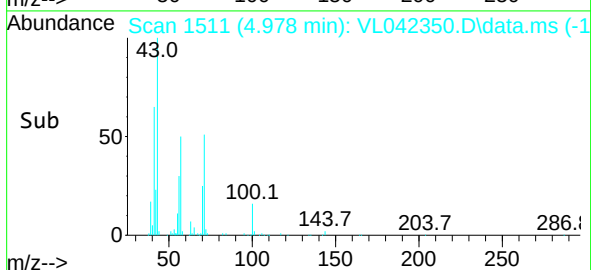
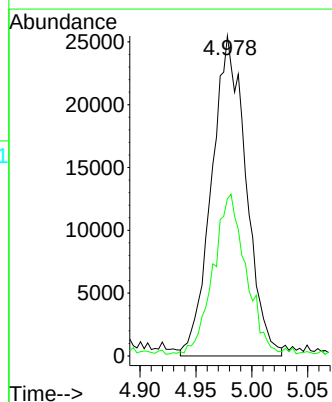
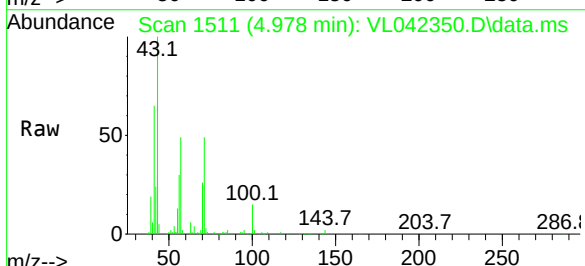
Acq: 17 Apr 2025 10:17

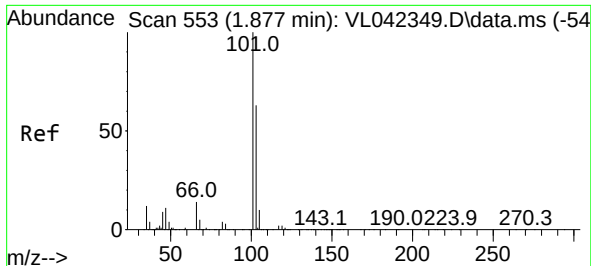
Tgt Ion: 43 Resp: 54438

Ion Ratio Lower Upper

43 100

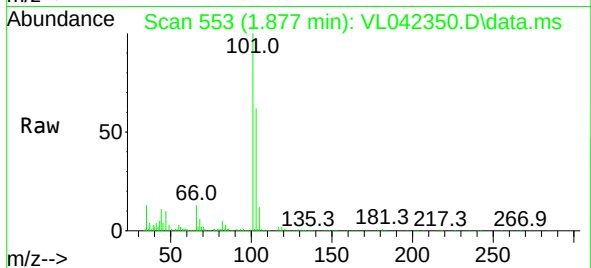
57 48.3 39.9 59.9





#11  
Trichlorofluoromethane  
Concen: 2.079 ppbv  
RT: 1.877 min Scan# 553  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

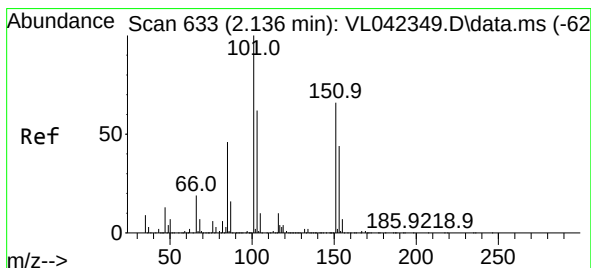
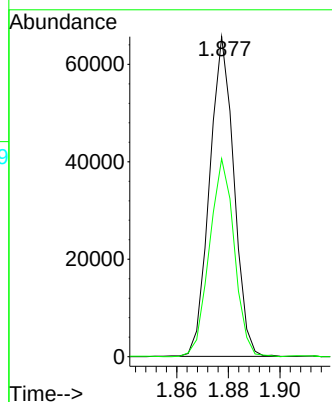
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



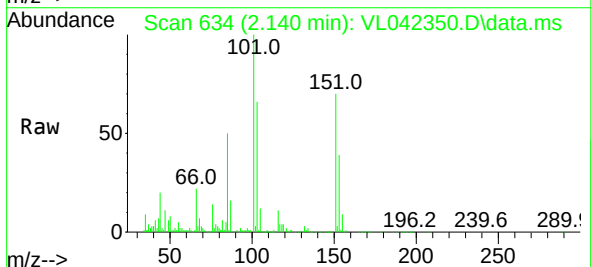
Tgt Ion:101 Resp: 43035  
Ion Ratio Lower Upper  
101 100  
103 61.9 50.1 75.1

Manual Integrations  
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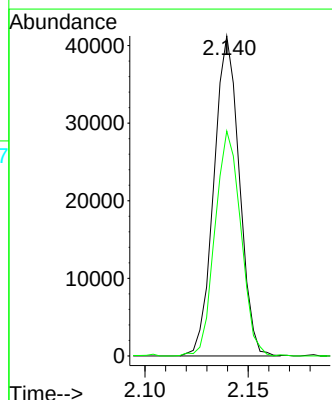
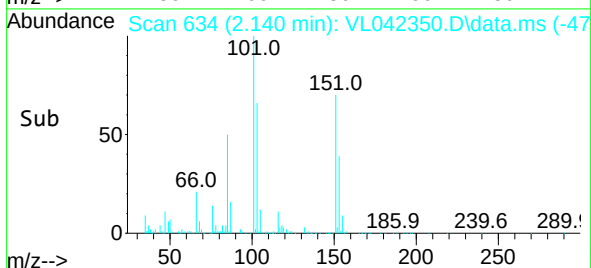
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

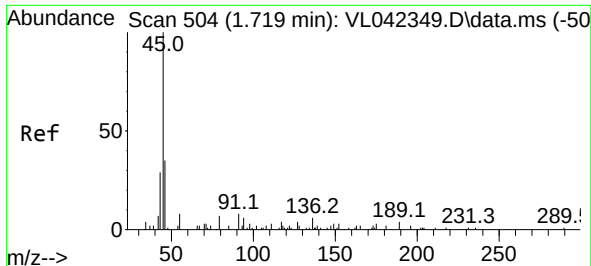


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.092 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



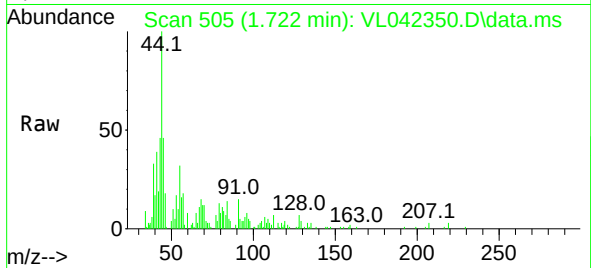
Tgt Ion:101 Resp: 35415  
Ion Ratio Lower Upper  
101 100  
151 71.5 57.0 85.6





#13  
Ethanol  
Concen: 3.933 ppbv m  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

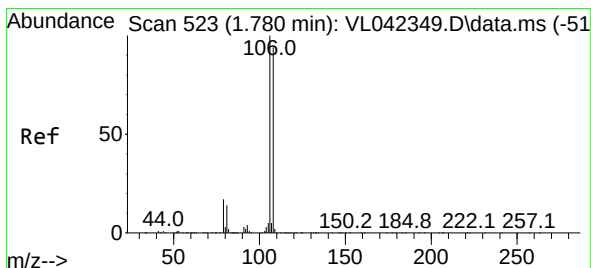
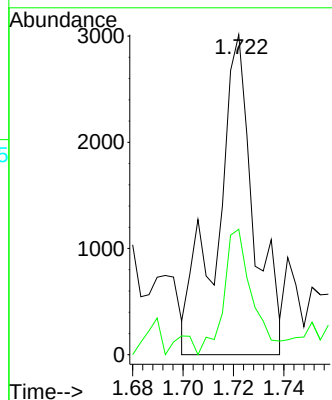
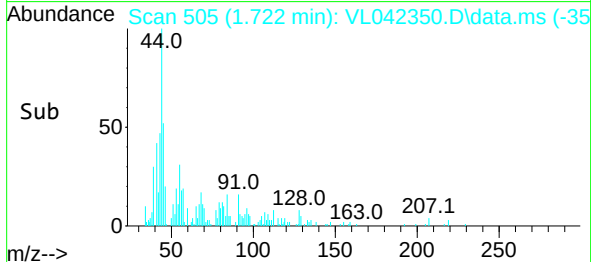
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 45 Resp: 3034  
Ion Ratio Lower Upper  
45 100  
46 39.3 21.9 87.7

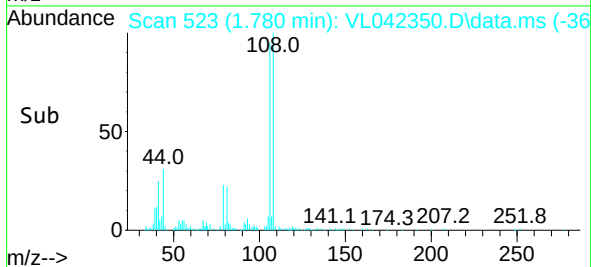
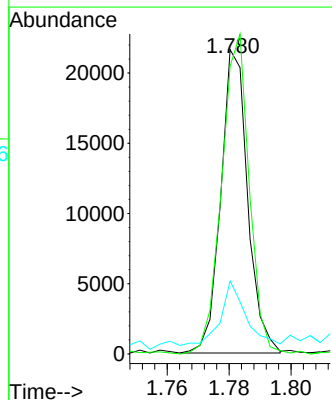
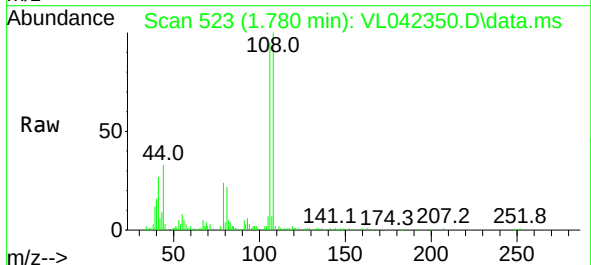
Manual Integrations  
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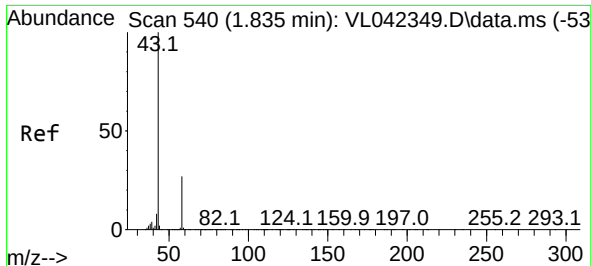
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#14  
Bromoethene  
Concen: 2.045 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

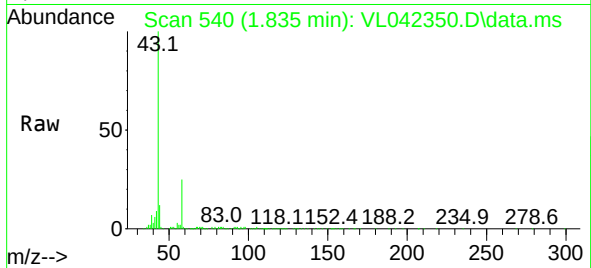
Tgt Ion:108 Resp: 13049  
Ion Ratio Lower Upper  
108 100  
106 110.2 85.9 128.9  
79 34.0 13.9 20.9#





#15  
Acetone  
Concen: 2.129 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

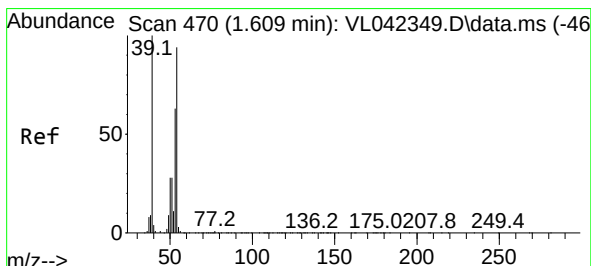
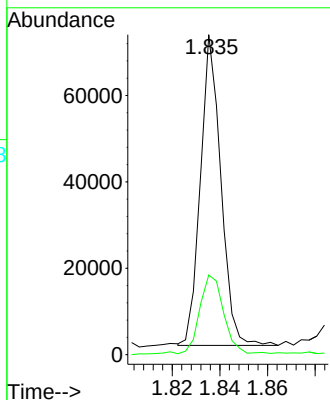
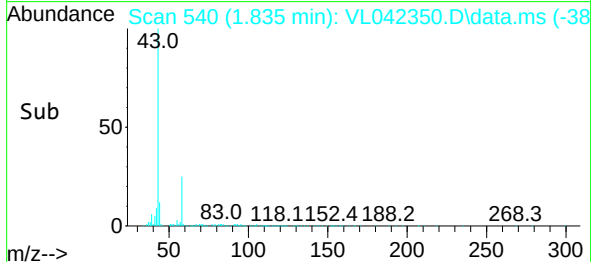
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 43 Resp: 42949  
Ion Ratio Lower Upper  
43 100  
58 31.4 22.4 33.6

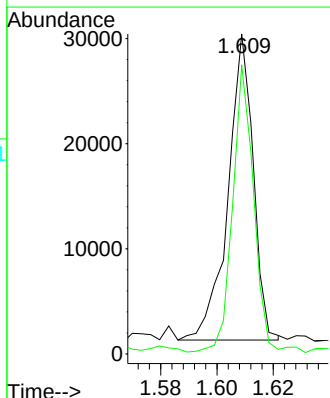
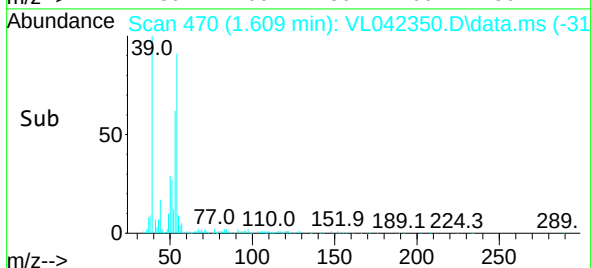
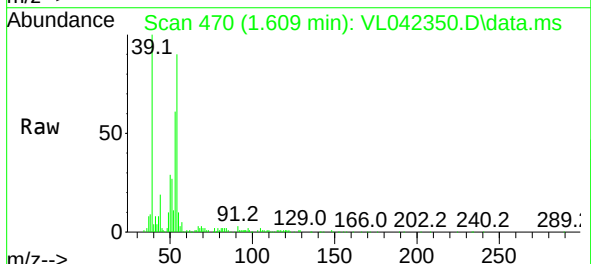
Manual Integrations  
APPROVED

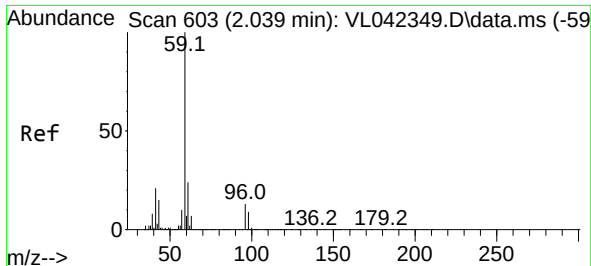
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#16  
1,3-Butadiene  
Concen: 1.912 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110  
Ion Ratio Lower Upper  
39 100  
54 77.2 64.9 97.3





#17

tert-Butyl alcohol

Concen: 2.074 ppbv

RT: 2.042 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 59 Resp: 51829

Ion Ratio Lower Upper

59 100

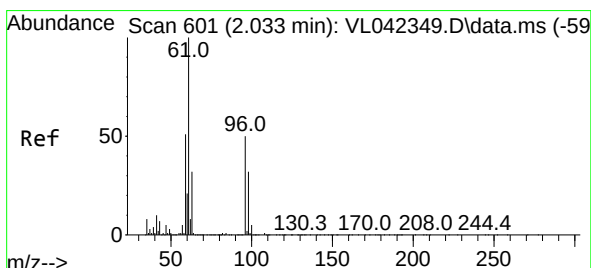
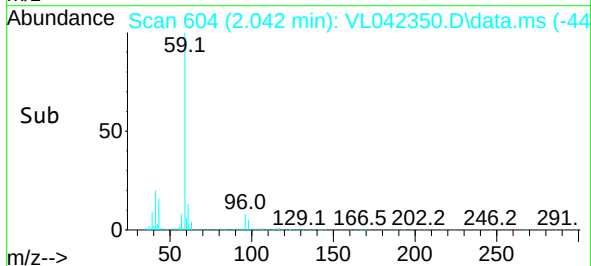
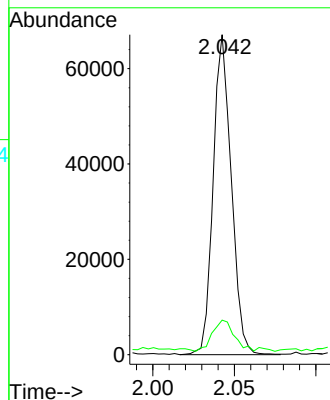
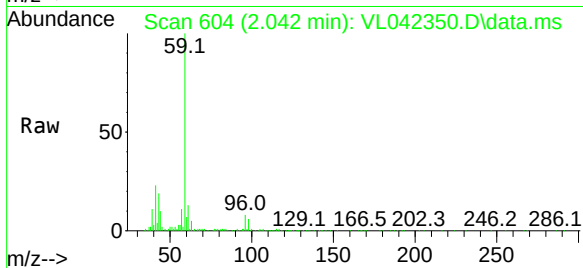
57 13.2 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 1.928 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

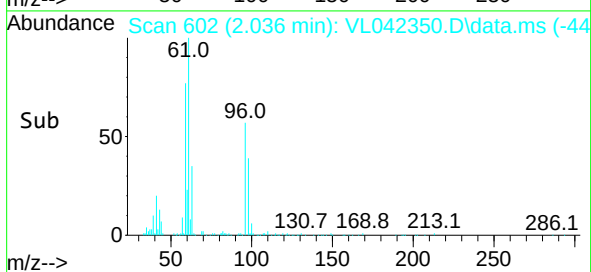
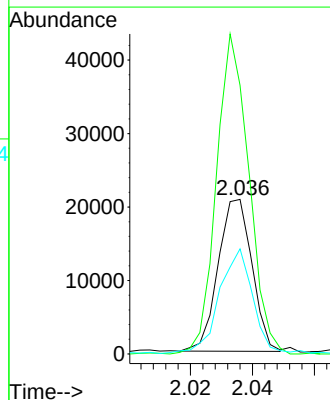
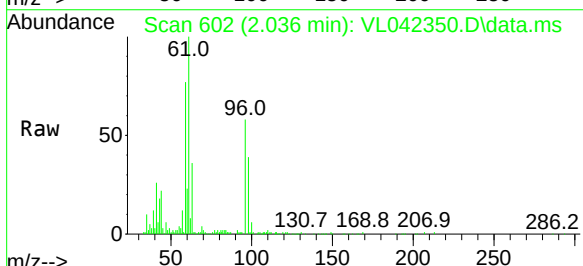
Tgt Ion: 96 Resp: 15690

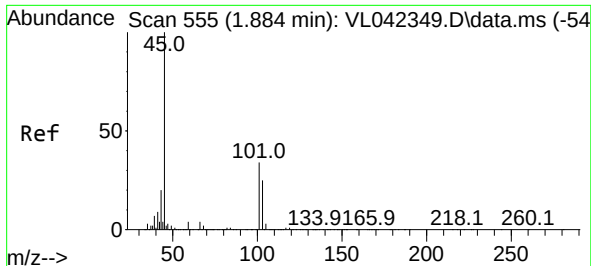
Ion Ratio Lower Upper

96 100

61 176.1 160.2 240.2

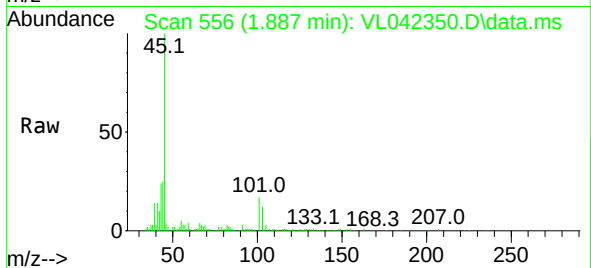
98 67.2 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 1.973 ppbv  
RT: 1.887 min Scan# 555  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

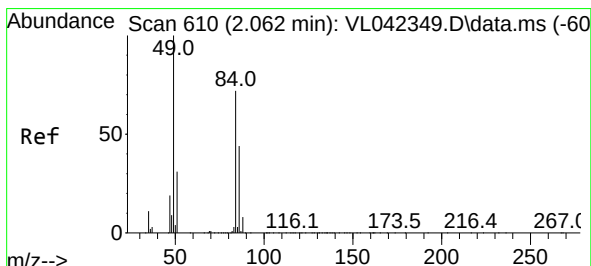
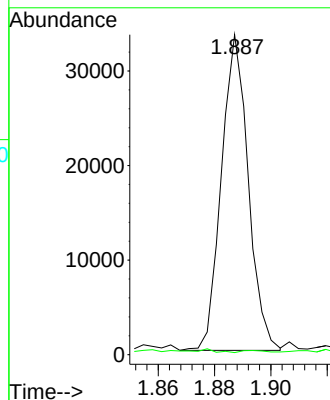
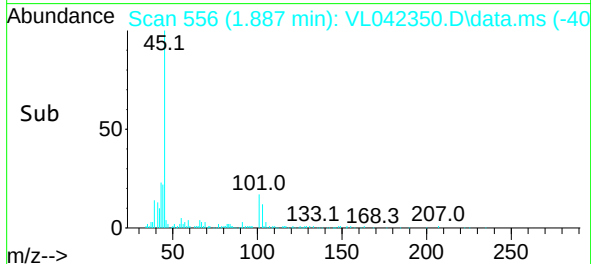
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



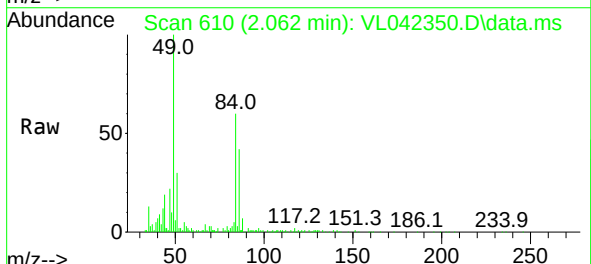
Tgt Ion: 45 Resp: 22100  
Ion Ratio Lower Upper  
45 100  
58 3.6 34.5 51.7

Manual Integrations  
APPROVED

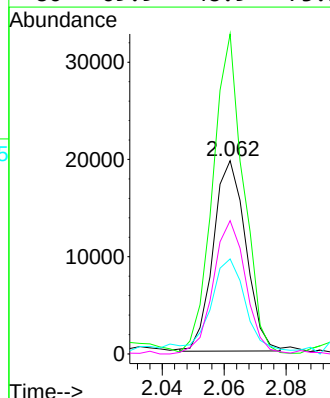
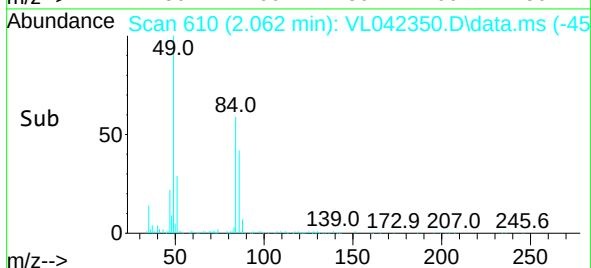
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

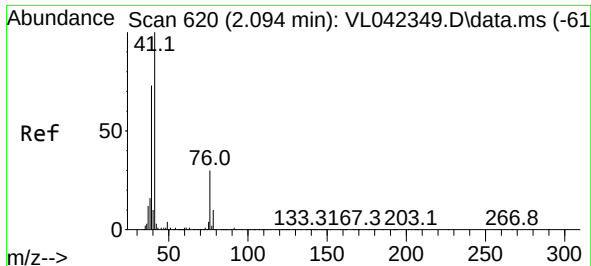


#20  
Methylene Chloride  
Concen: 1.814 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



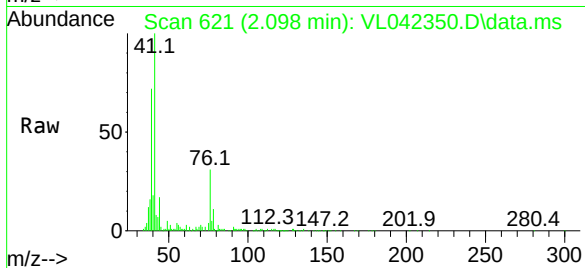
Tgt Ion: 84 Resp: 14329  
Ion Ratio Lower Upper  
84 100  
49 169.1 111.6 167.4#  
51 47.9 35.1 52.7  
86 69.9 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 1.963 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

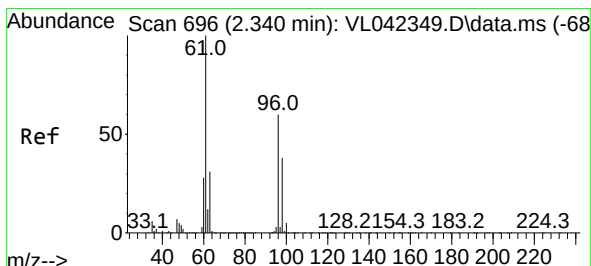
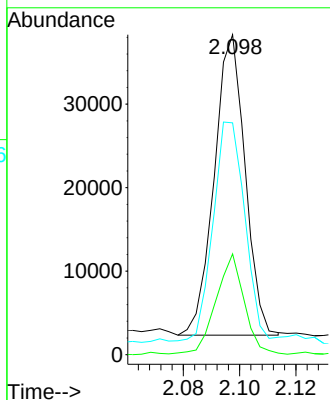
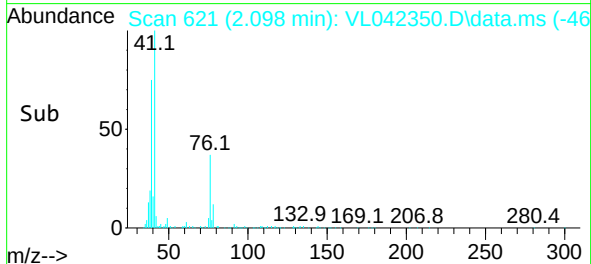
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



Tgt Ion: 41 Resp: 27340  
 Ion Ratio Lower Upper  
 41 100  
 76 31.9 24.8 37.2  
 39 81.2 60.6 90.8

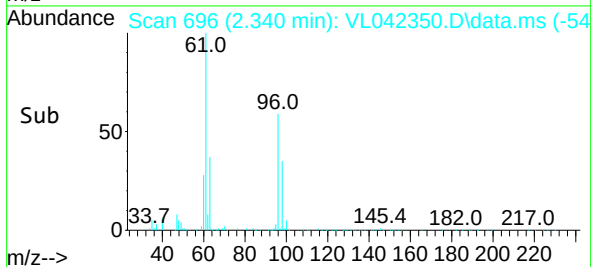
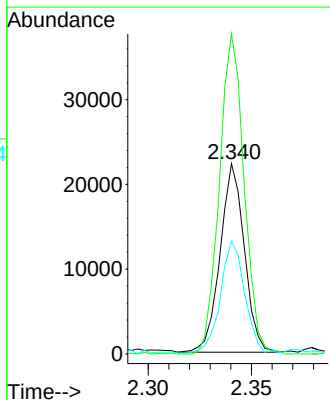
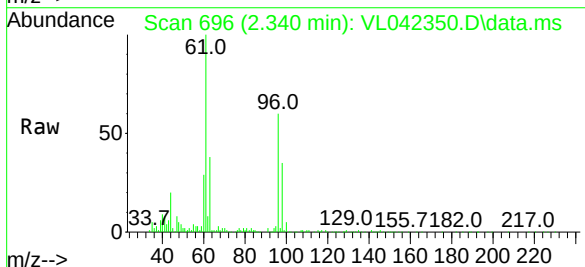
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

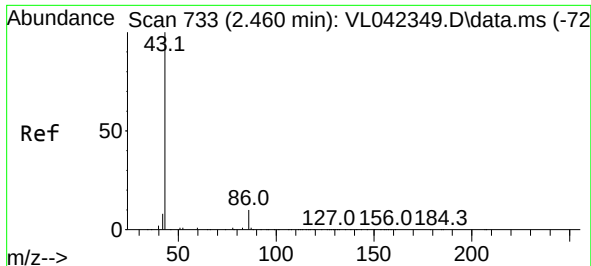


#22  
 trans-1,2-Dichloroethene  
 Concen: 2.015 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142  
 Ion Ratio Lower Upper  
 96 100  
 61 169.6 133.7 200.5  
 98 59.3 50.3 75.5







#23  
 Vinyl Acetate  
 Concen: 2.260 ppbv  
 RT: 2.463 min Scan# 718  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

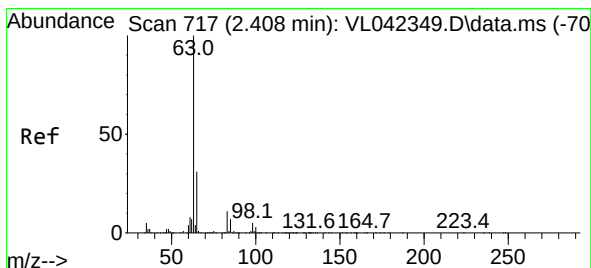
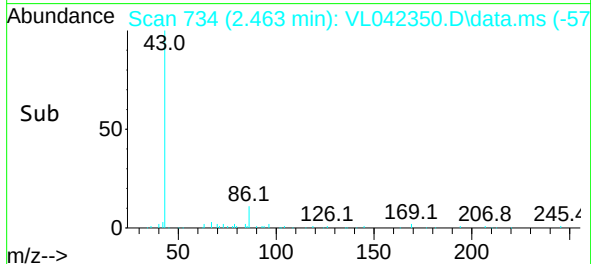
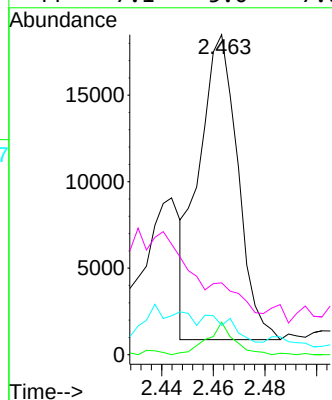
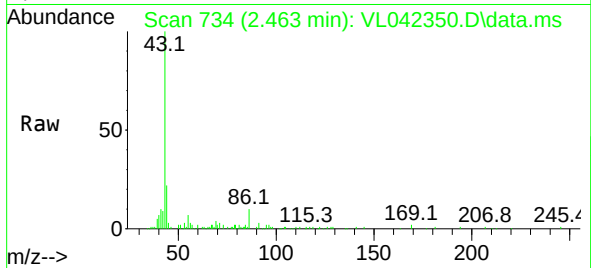
VSTDICC002

Tgt Ion: 43 Resp: 18454  
 Ion Ratio Lower Upper  
 43 100  
 86 10.2 6.5 9.7  
 42 3.7 7.8 11.8  
 44 7.1 5.0 7.6

Manual Integrations

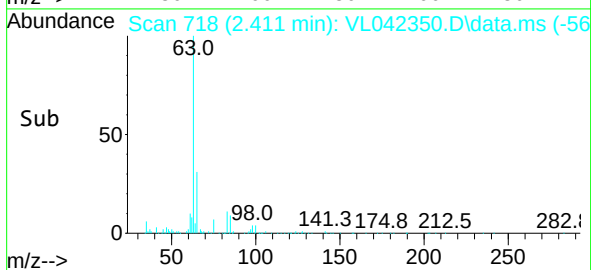
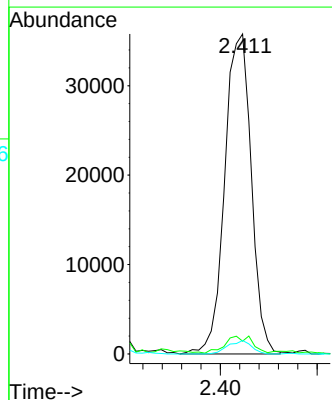
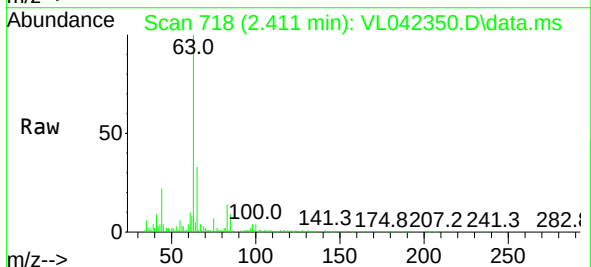
APPROVED

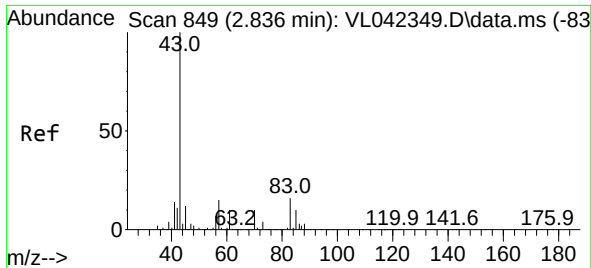
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#24  
 1,1-Dichloroethane  
 Concen: 1.993 ppbv  
 RT: 2.411 min Scan# 718  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

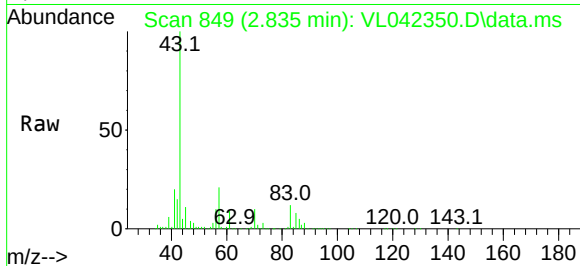
Tgt Ion: 63 Resp: 34077  
 Ion Ratio Lower Upper  
 63 100  
 98 3.1 2.3 6.8  
 100 4.2 1.6 4.8





#25  
Ethyl Acetate  
Concen: 2.040 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

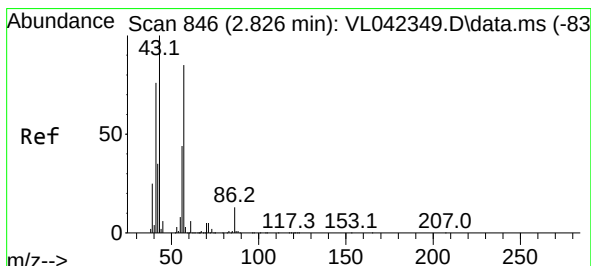
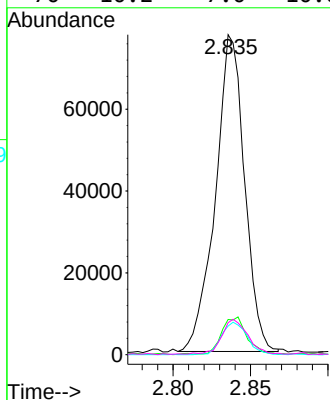
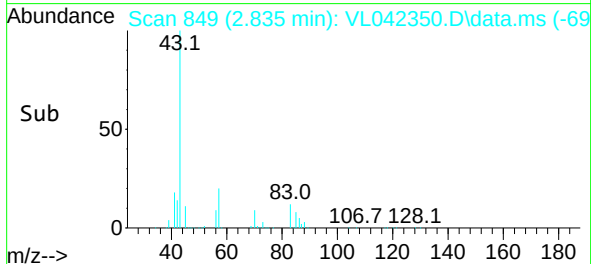
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



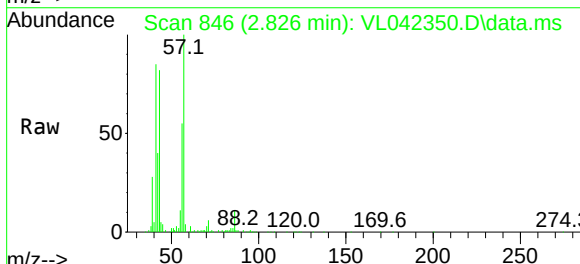
Tgt Ion: 43 Resp: 10146  
Ion Ratio Lower Upper  
43 100  
45 10.4 8.3 12.5  
61 9.2 7.3 10.9  
70 10.2 7.0 10.6

Manual Integrations  
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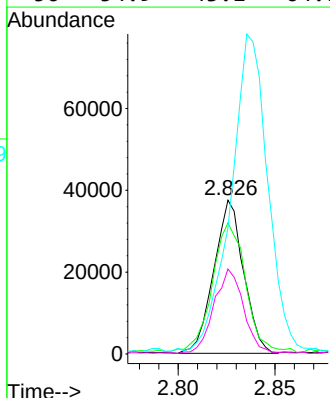
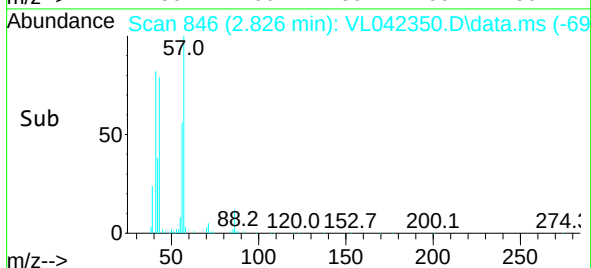
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

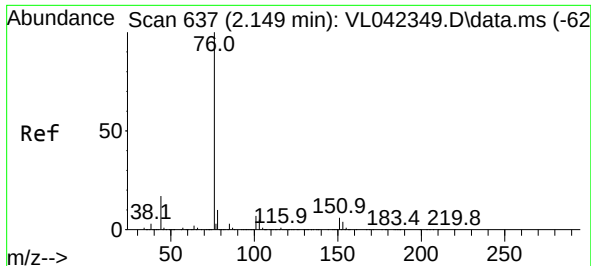


#26  
Hexane  
Concen: 1.990 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



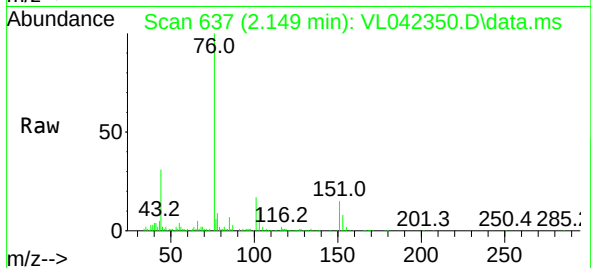
Tgt Ion: 57 Resp: 40046  
Ion Ratio Lower Upper  
57 100  
41 94.1 77.9 116.9  
43 260.7 208.4 312.6  
56 54.9 43.1 64.7





#27  
Carbon Disulfide  
Concen: 2.041 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

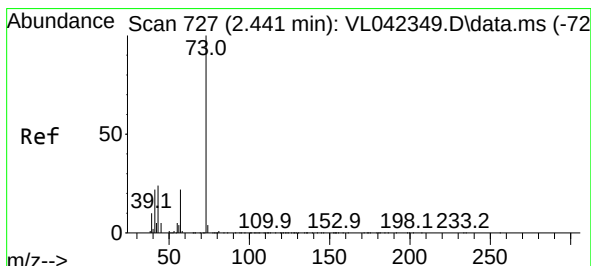
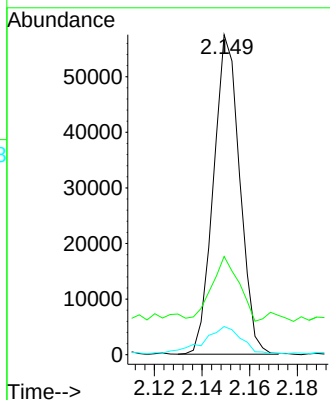
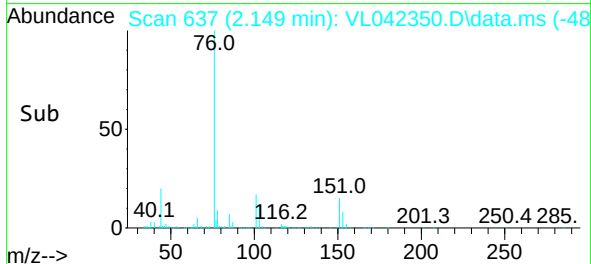
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



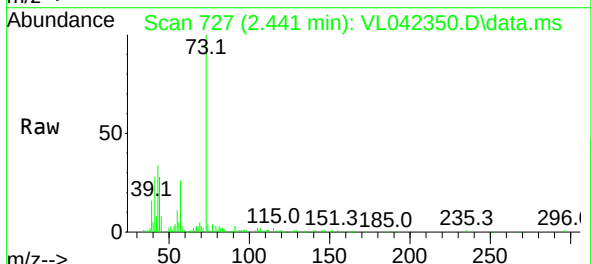
Tgt Ion: 76 Resp: 43975  
Ion Ratio Lower Upper  
76 100  
44 44.3 15.5 23.3  
78 13.6 9.3 13.9

Manual Integrations  
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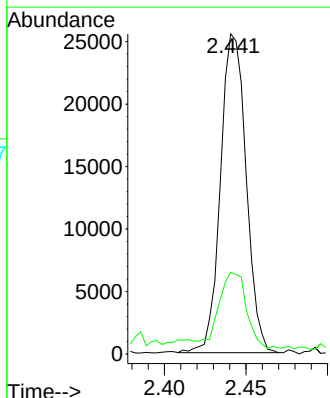
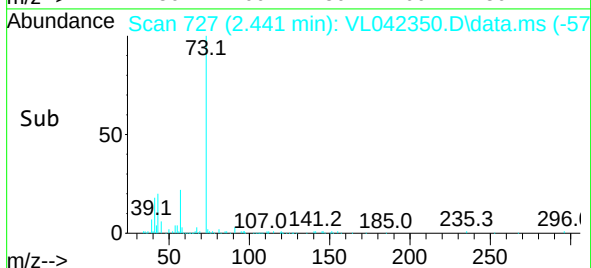
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

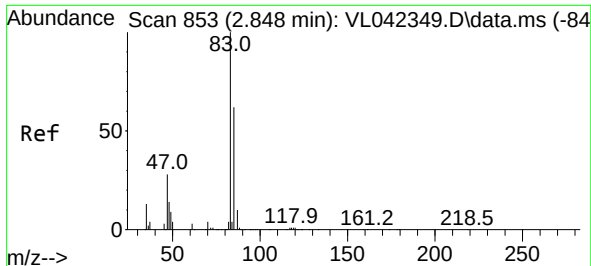


#28  
Methyl tert-Butyl Ether  
Concen: 2.116 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion: 73 Resp: 27905  
Ion Ratio Lower Upper  
73 100  
57 28.1 21.3 31.9





#29

Chloroform

Concen: 2.072 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 58940

Ion Ratio Lower Upper

83 100

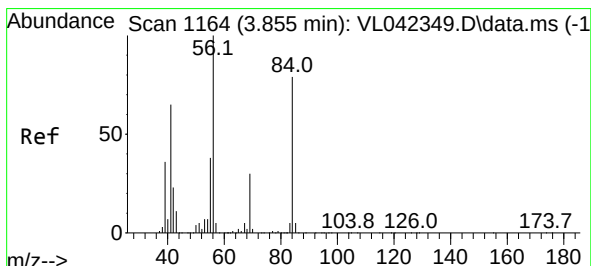
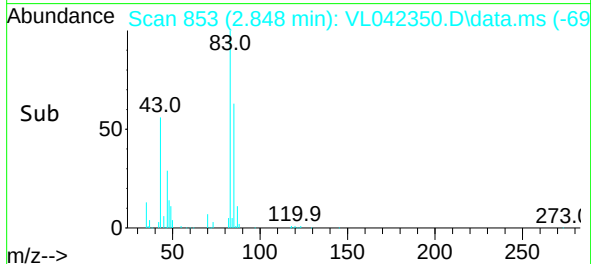
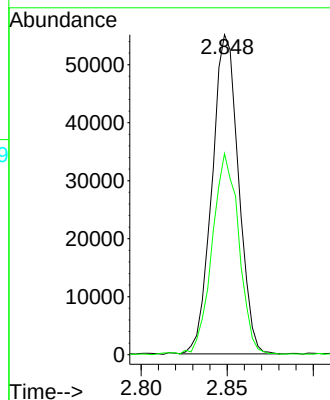
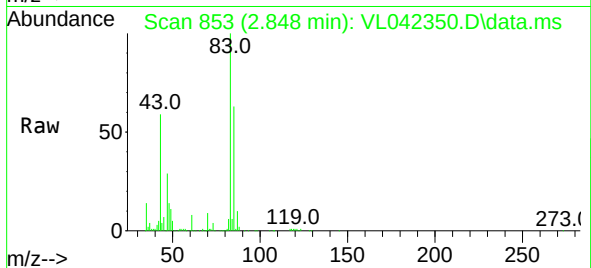
85 62.9 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 2.048 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

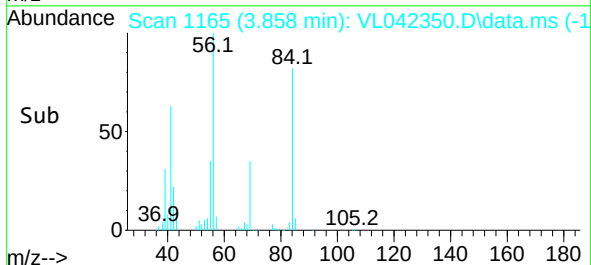
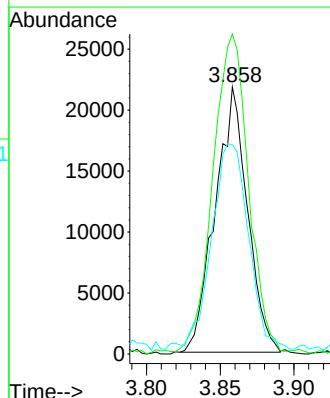
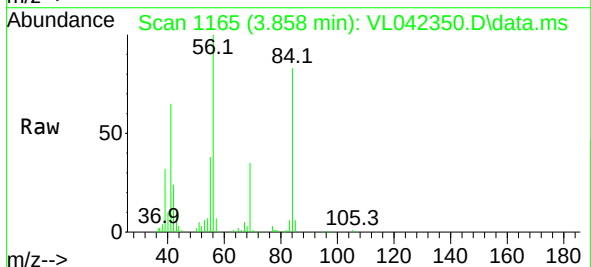
Tgt Ion: 84 Resp: 33195

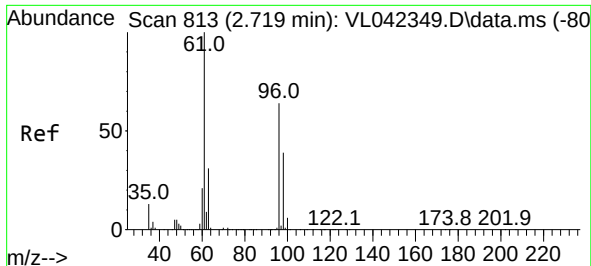
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

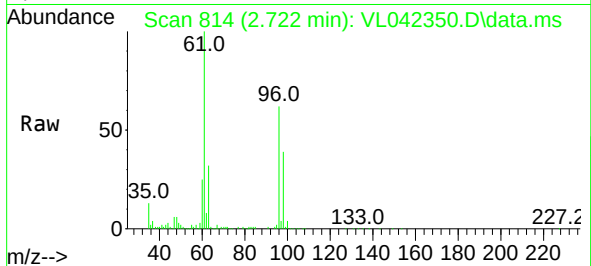
41 88.1 67.4 101.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 2.051 ppbv  
 RT: 2.722 min Scan# 813  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

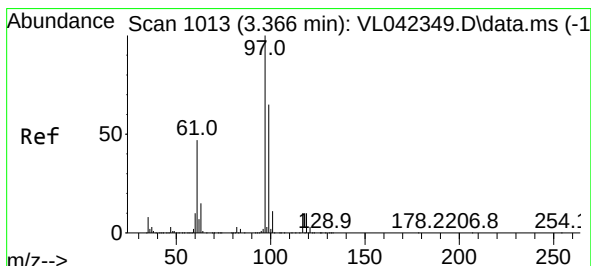
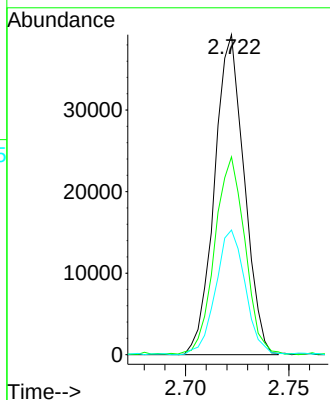
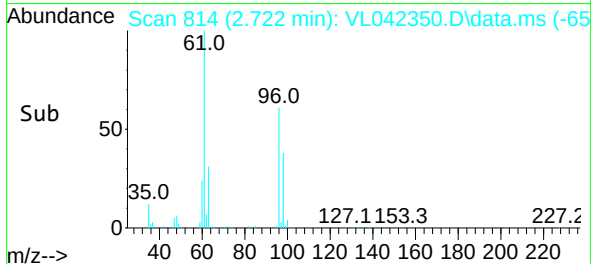
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



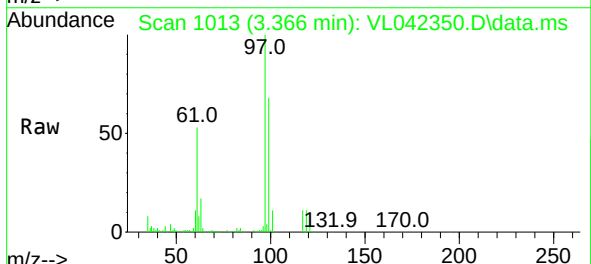
Tgt Ion: 61 Resp: 39249  
 Ion Ratio Lower Upper  
 61 100  
 96 61.6 50.8 76.2  
 98 39.0 30.9 46.3

Manual Integrations  
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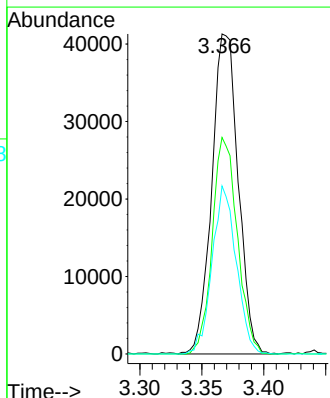
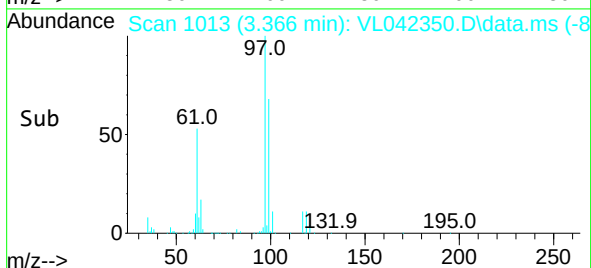
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

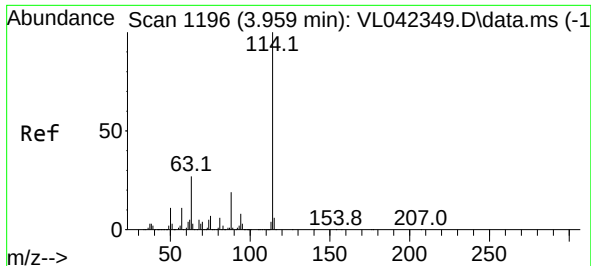


#32  
 1,1,1-Trichloroethane  
 Concen: 2.014 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17



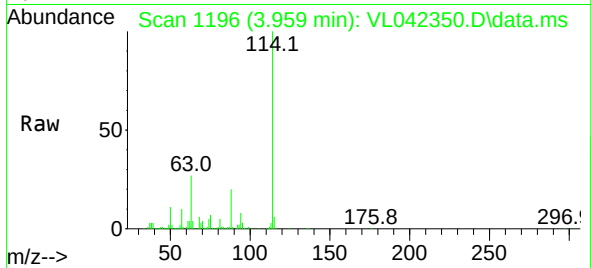
Tgt Ion: 97 Resp: 61442  
 Ion Ratio Lower Upper  
 97 100  
 99 64.0 51.0 76.4  
 61 48.0 38.8 58.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

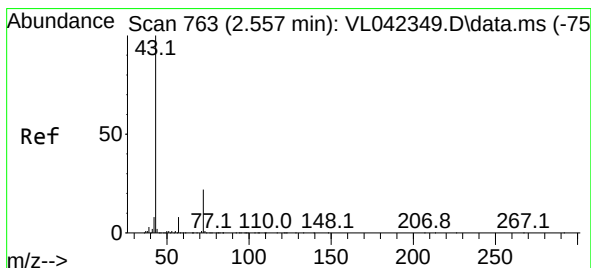
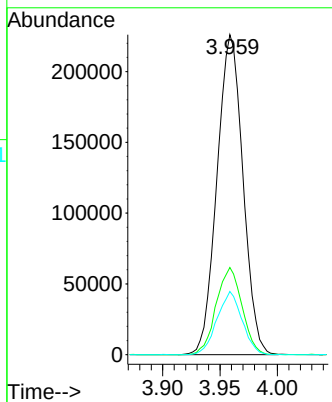
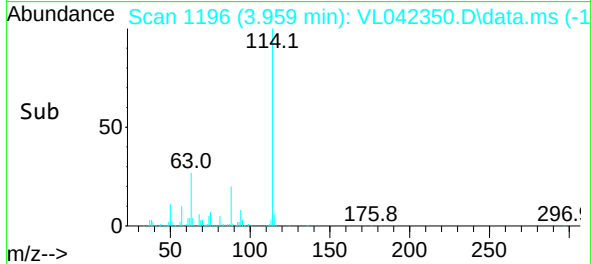
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



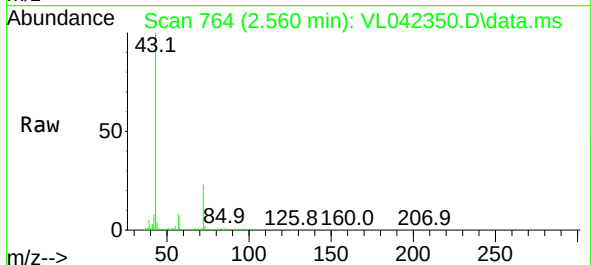
Tgt Ion:114 Resp: 355918  
Ion Ratio Lower Upper  
114 100  
63 27.1 21.8 32.6  
88 19.0 15.5 23.3

Manual Integrations  
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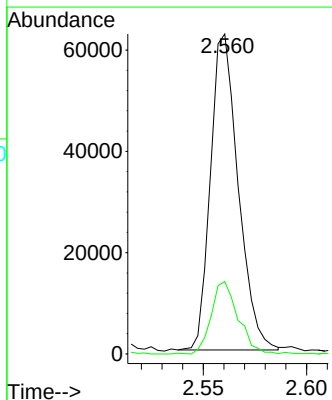
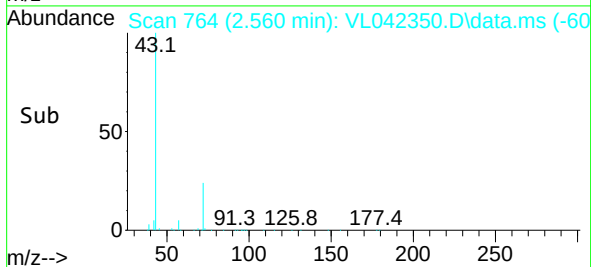
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

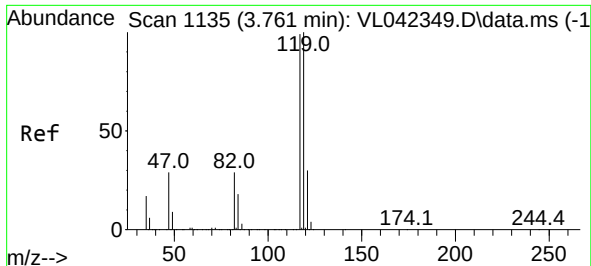


#34  
2-Butanone  
Concen: 2.069 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



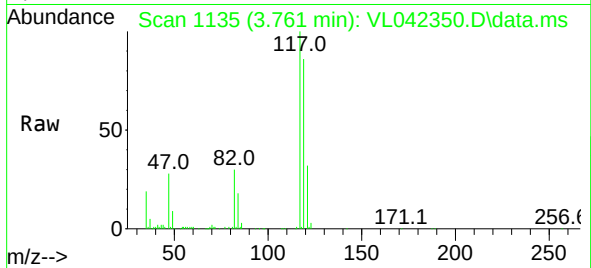
Tgt Ion: 43 Resp: 58249  
Ion Ratio Lower Upper  
43 100  
72 22.5 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 1.872 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

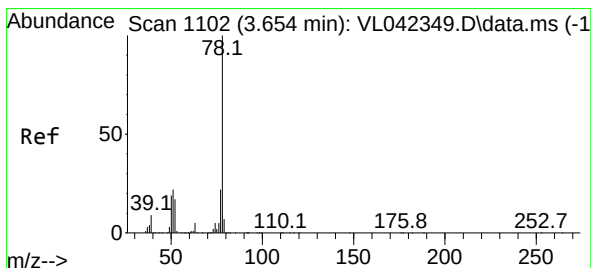
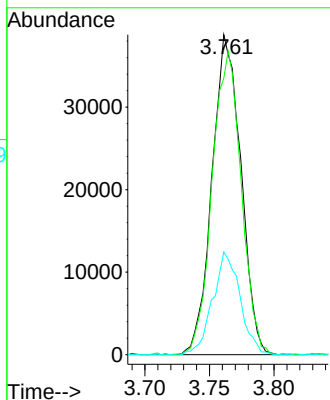
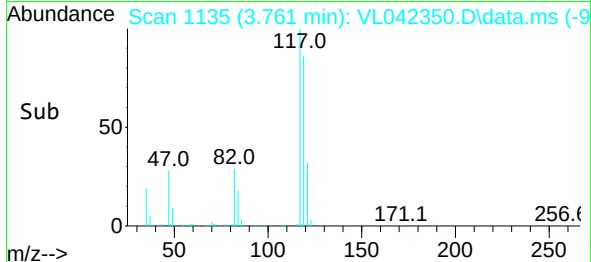
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 117 Resp: 6029  
Ion Ratio Lower Upper  
117 100  
119 86.4 80.5 120.7  
121 32.1 24.2 36.2

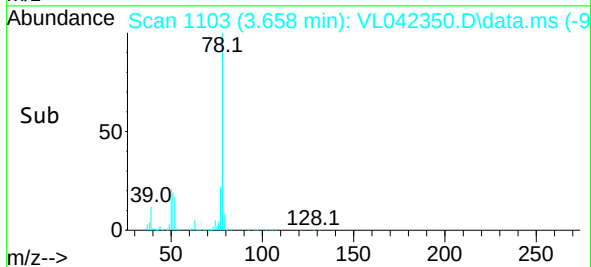
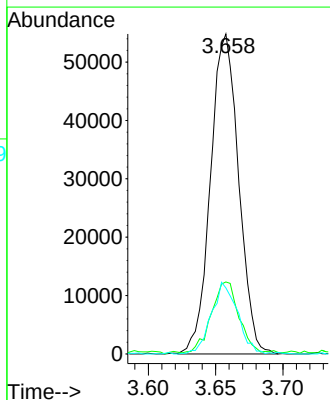
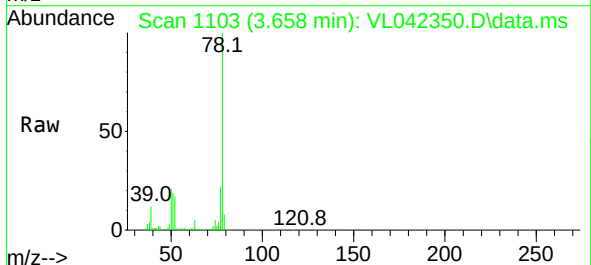
Manual Integrations  
APPROVED

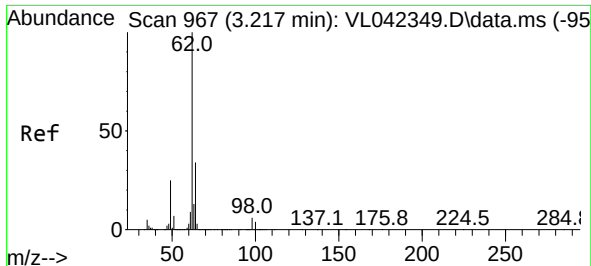
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#36  
Benzene  
Concen: 2.079 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

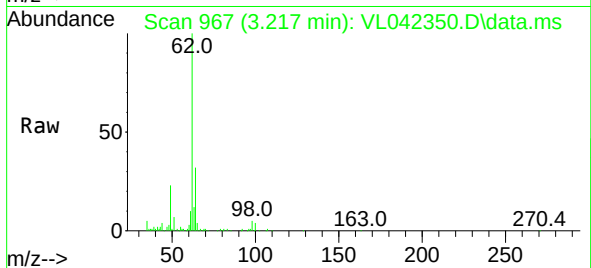
Tgt Ion: 78 Resp: 79814  
Ion Ratio Lower Upper  
78 100  
77 22.0 17.4 26.0  
50 20.6 15.5 23.3





#37  
1,2-Dichloroethane  
Concen: 2.057 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

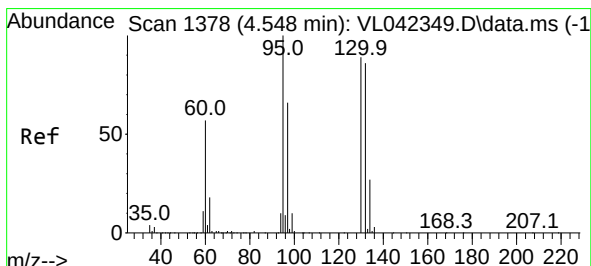
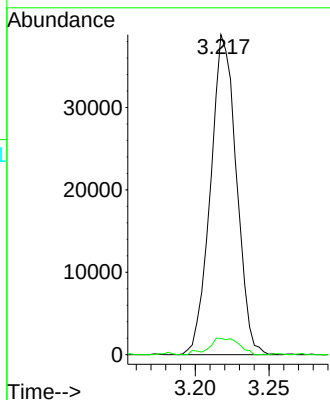
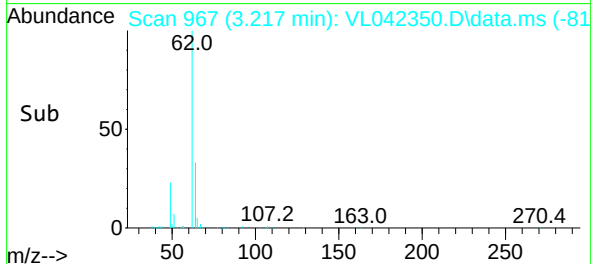
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



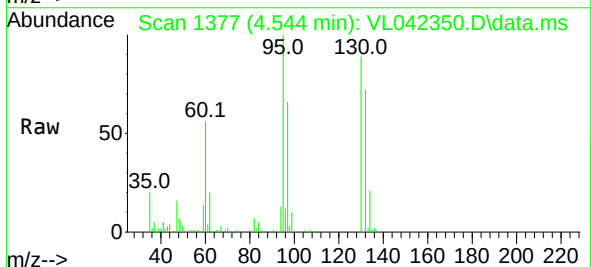
Tgt Ion: 62 Resp: 47398  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.1 7.7

Manual Integrations  
APPROVED

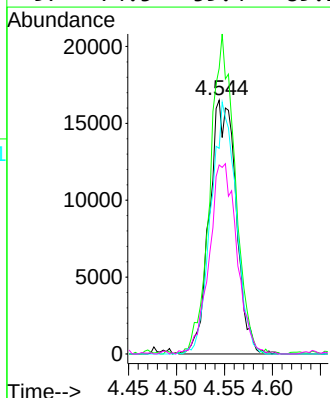
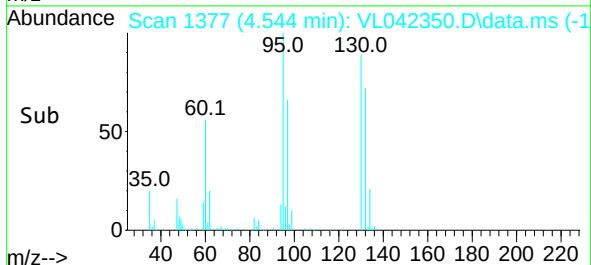
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



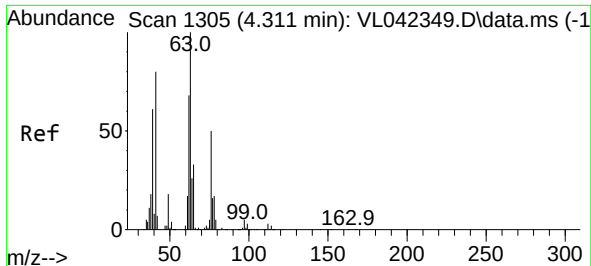
#38  
Trichloroethene  
Concen: 1.891 ppbv m  
RT: 4.544 min Scan# 1377  
Delta R.T. -0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion:130 Resp: 31826  
Ion Ratio Lower Upper  
130 100  
95 112.6 89.8 134.6  
132 81.1 77.7 116.5  
97 74.5 59.4 89.2







#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL042350.D

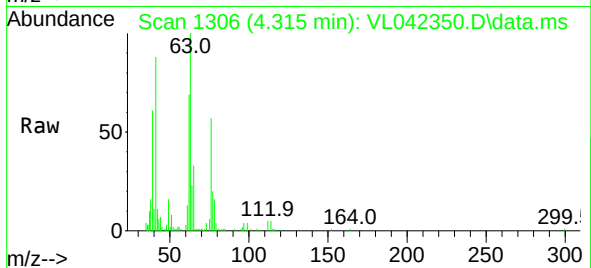
Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002



Tgt Ion: 63 Resp: 28800

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

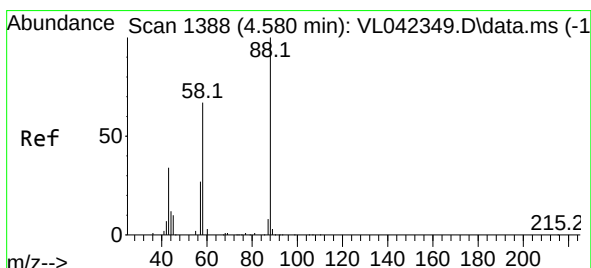
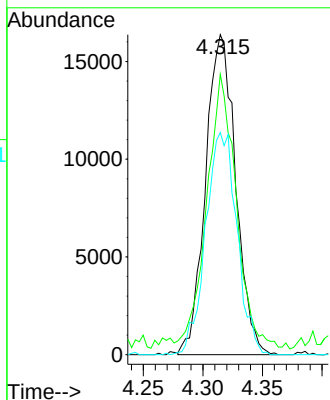
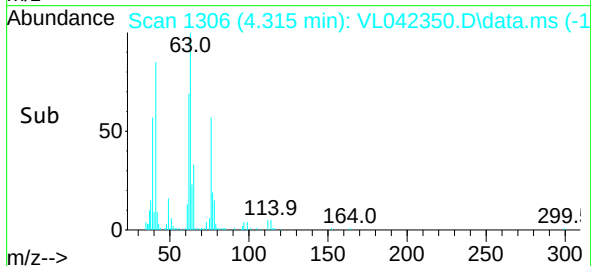
62 69.4 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 2.133 ppbv m

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16536

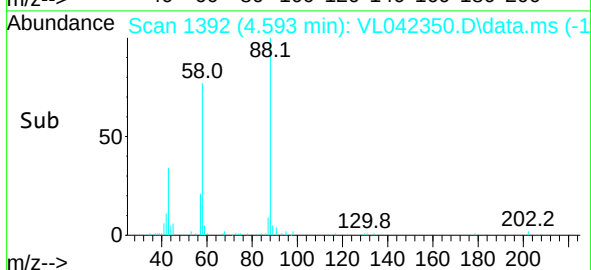
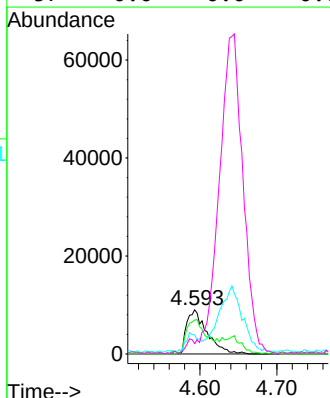
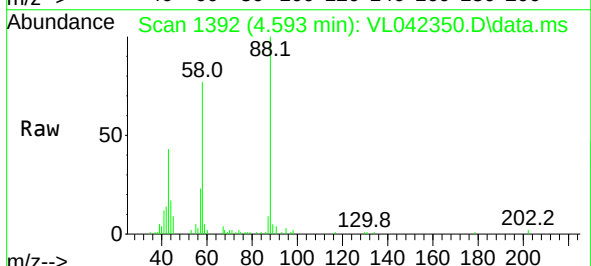
Ion Ratio Lower Upper

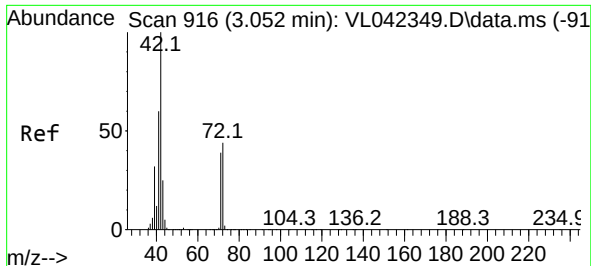
88 100

58 82.3 61.4 92.0

43 6.1 23.2 34.8#

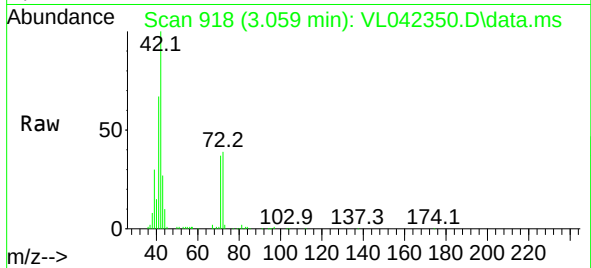
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 2.047 ppbv  
RT: 3.059 min Scan# 916  
Delta R.T. 0.006 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

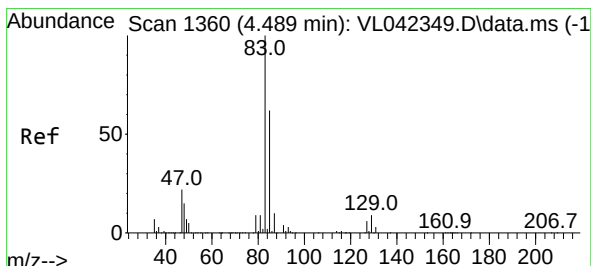
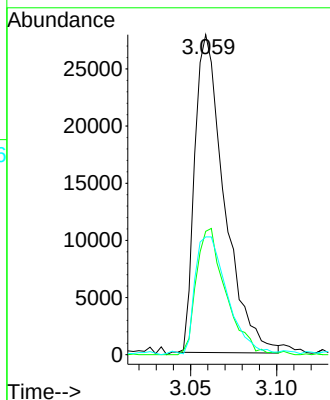
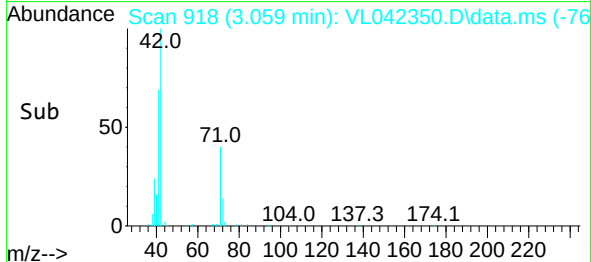
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



Tgt Ion: 42 Resp: 33298  
Ion Ratio Lower Upper  
42 100  
72 39.9 32.3 48.5  
71 41.5 31.4 47.2

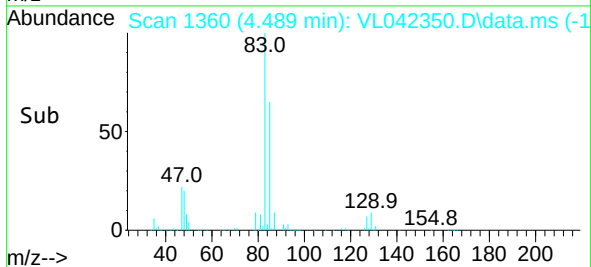
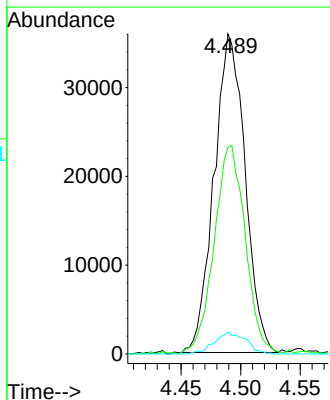
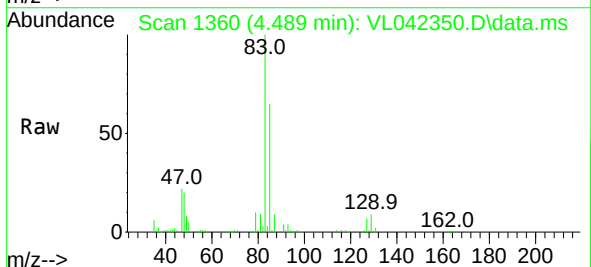
Manual Integrations  
APPROVED

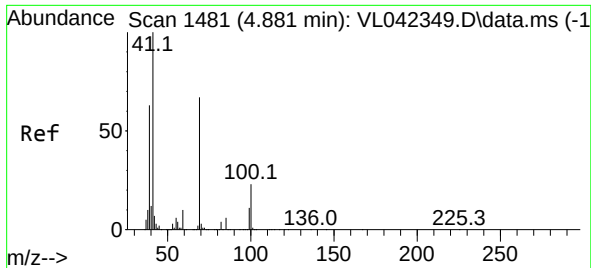
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#42  
Bromodichloromethane  
Concen: 2.025 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941  
Ion Ratio Lower Upper  
83 100  
85 64.9 49.7 74.5  
127 6.9 5.1 7.7





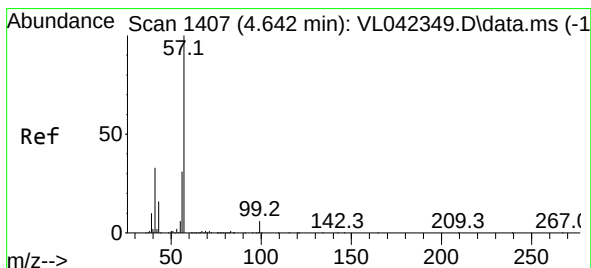
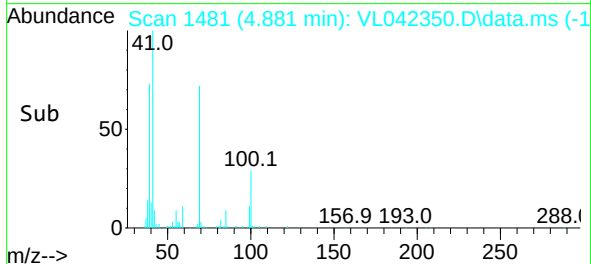
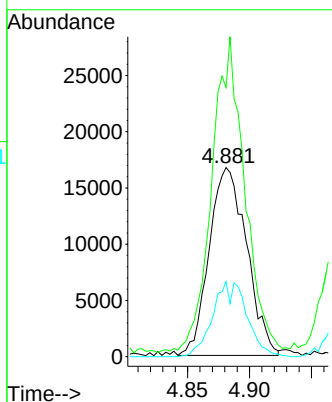
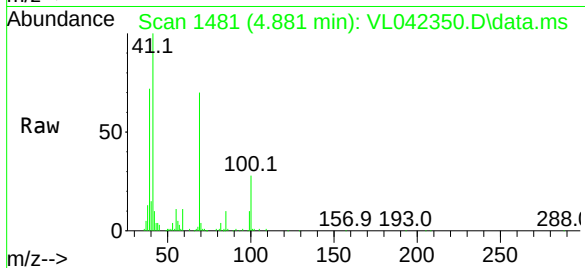
#43  
Methyl Methacrylate  
Concen: 2.046 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 69 Resp: 35250  
Ion Ratio Lower Upper  
69 100  
41 144.4 118.6 177.8  
100 36.5 28.2 42.2

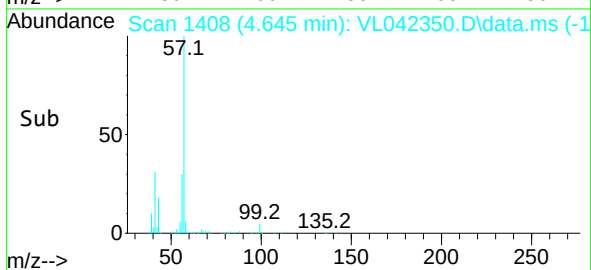
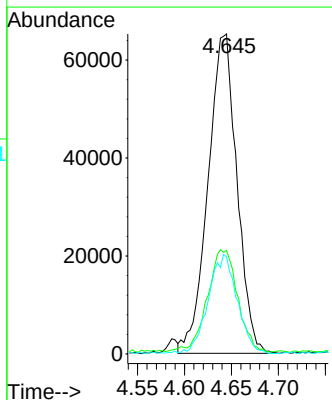
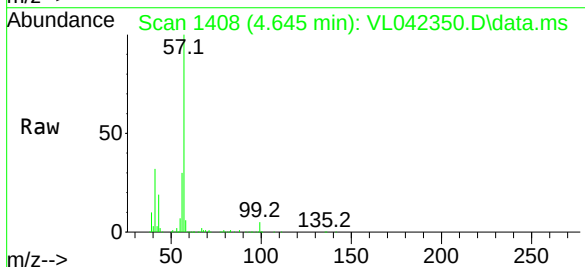
Manual Integrations  
APPROVED

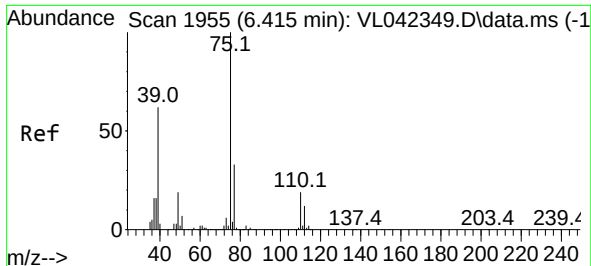
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#44  
2,2,4-Trimethylpentane  
Concen: 2.103 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

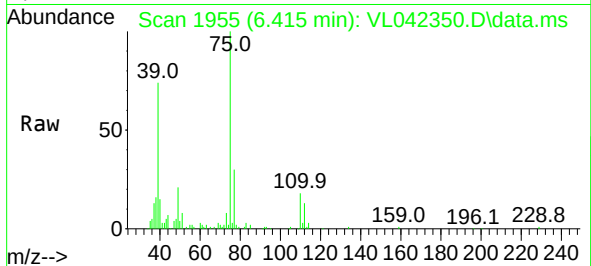
Tgt Ion: 57 Resp: 139641  
Ion Ratio Lower Upper  
57 100  
41 34.4 27.2 40.8  
56 31.3 25.7 38.5





#45  
 t-1,3-Dichloropropene  
 Concen: 2.050 ppbv  
 RT: 6.415 min Scan# 1955  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

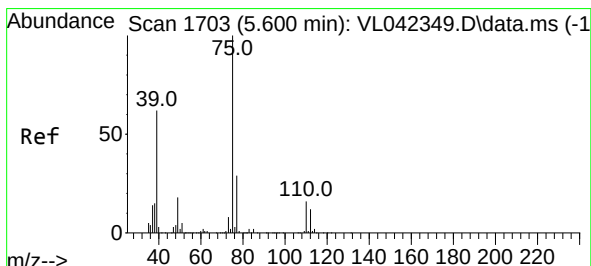
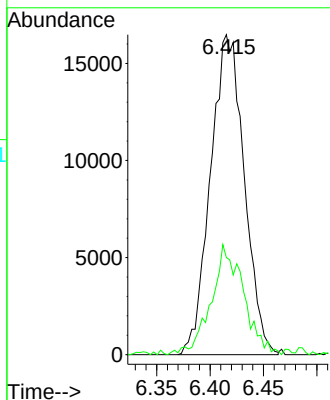
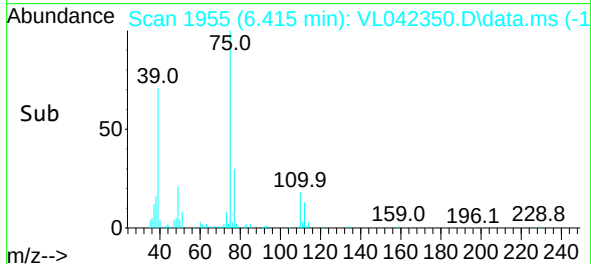
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



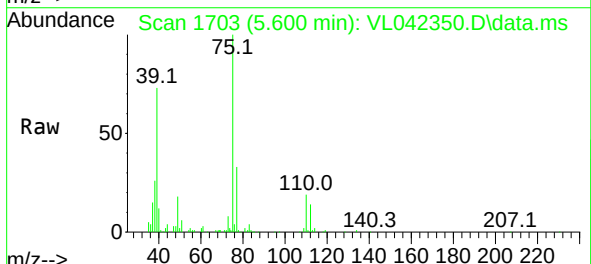
Tgt Ion: 75 Resp: 3626  
 Ion Ratio Lower Upper  
 75 100  
 77 30.4 27.0 40.6

Manual Integrations  
 APPROVED

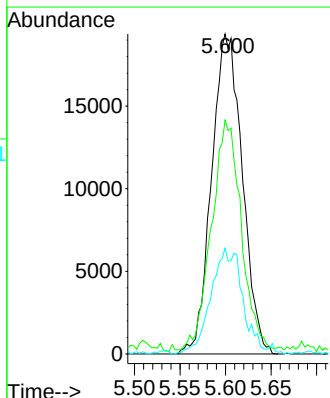
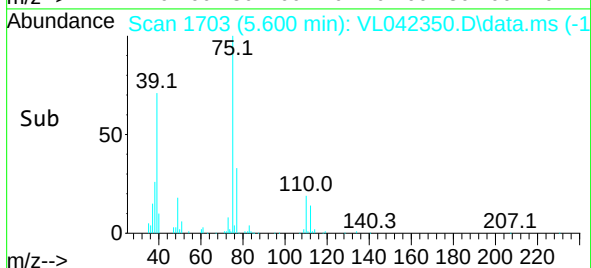
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

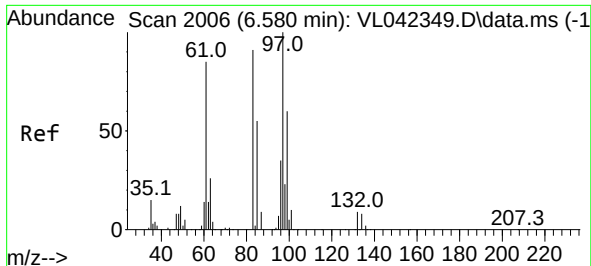


#46  
 cis-1,3-Dichloropropene  
 Concen: 2.096 ppbv m  
 RT: 5.600 min Scan# 1703  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17



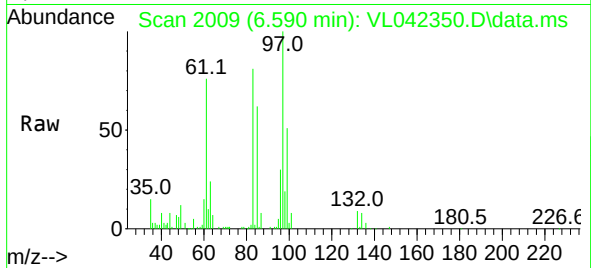
Tgt Ion: 75 Resp: 45327  
 Ion Ratio Lower Upper  
 75 100  
 39 73.0 50.0 75.0  
 77 33.1 23.0 34.6





#47  
1,1,2-Trichloroethane  
Concen: 2.049 ppbv  
RT: 6.590 min Scan# 2006  
Delta R.T. 0.010 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

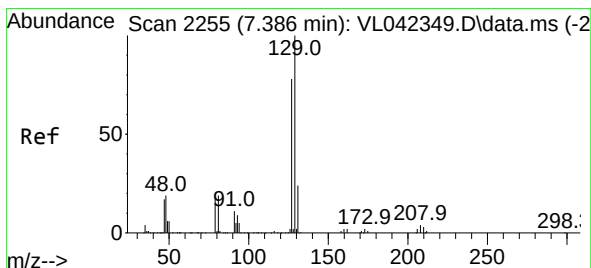
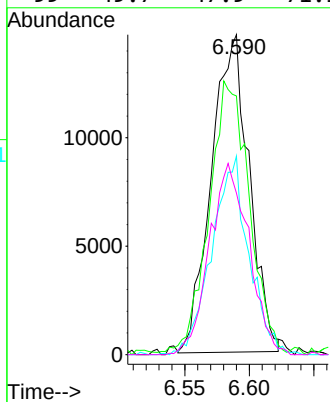
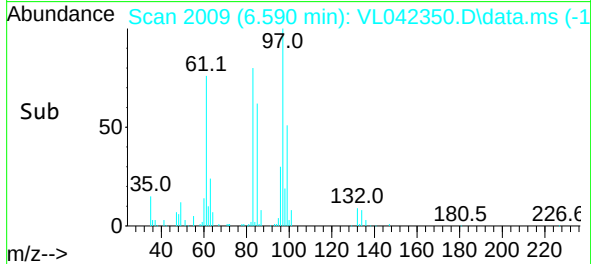
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



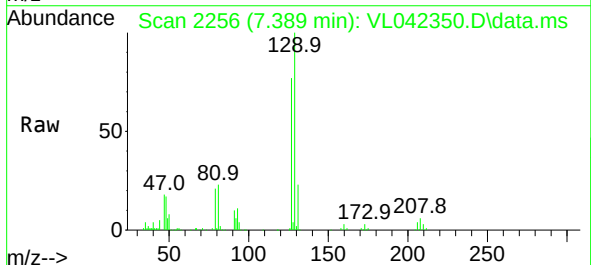
Tgt Ion: 97 Resp: 29879  
Ion Ratio Lower Upper  
97 100  
83 78.8 72.8 109.2  
85 61.7 44.2 66.4  
99 49.7 47.9 71.9

Manual Integrations  
APPROVED

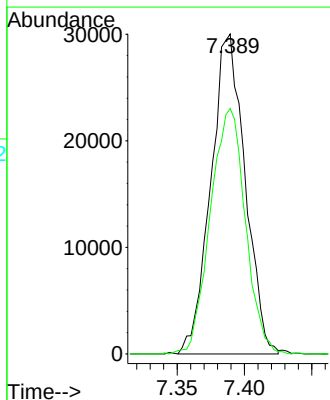
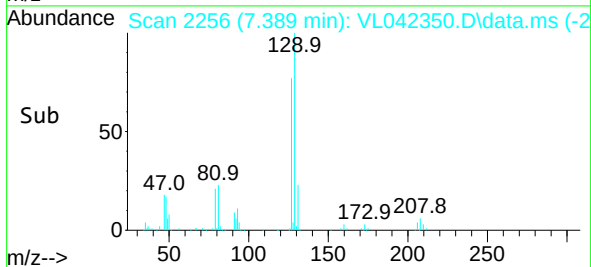
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

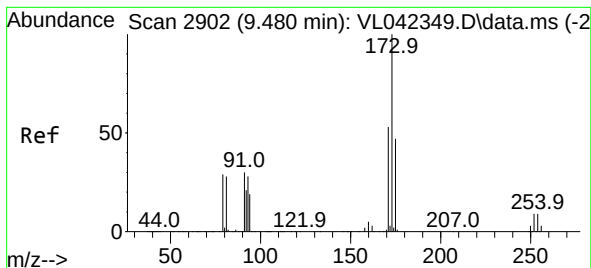


#48  
Dibromochloromethane  
Concen: 2.061 ppbv  
RT: 7.389 min Scan# 2256  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion:129 Resp: 53069  
Ion Ratio Lower Upper  
129 100  
127 78.4 39.1 117.3





#49

Bromoform

Concen: 2.135 ppbv

RT: 9.483 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

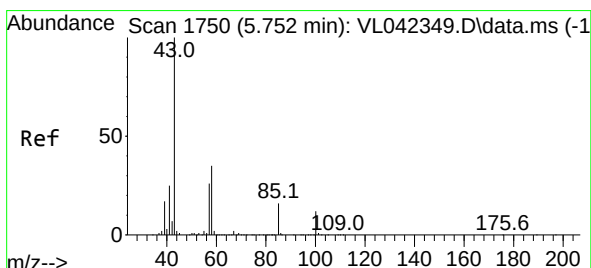
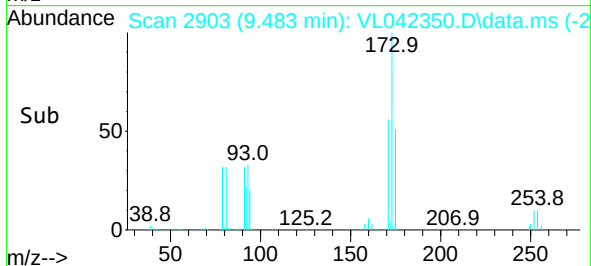
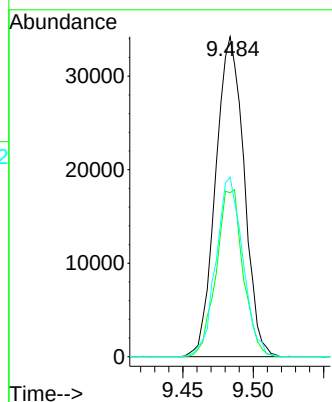
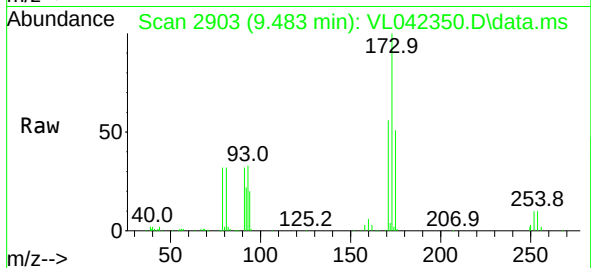
VSTDIC002

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 48069 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 49.4  | 38.2  | 57.2  |
| 171       | 53.0  | 40.9  | 61.3  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 2.180 ppbv

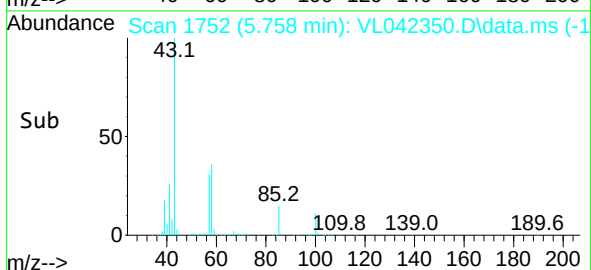
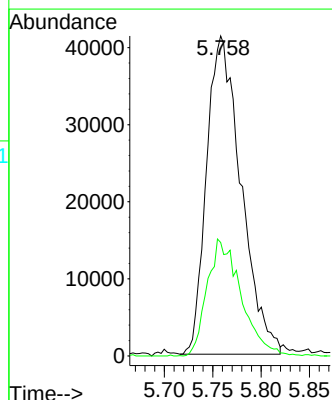
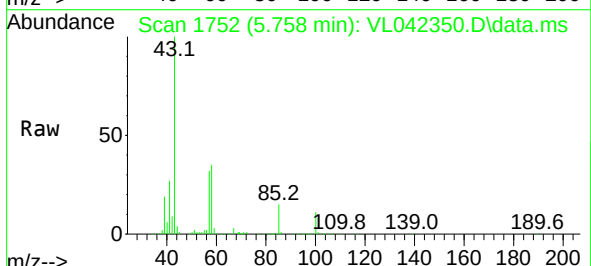
RT: 5.758 min Scan# 1752

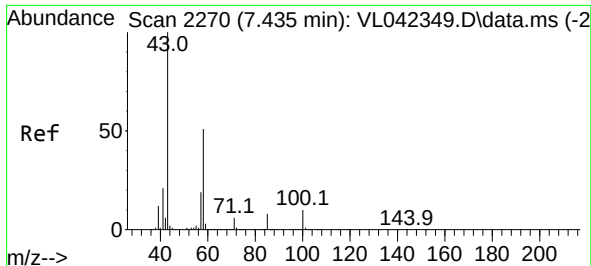
Delta R.T. 0.006 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 102182 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 36.3  | 28.6  | 43.0   |





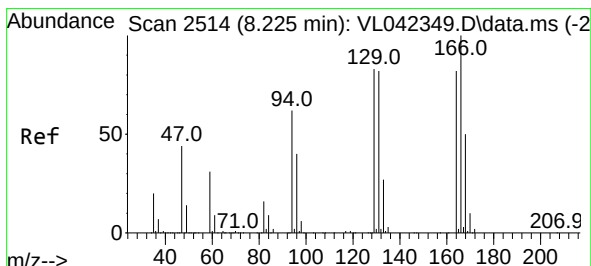
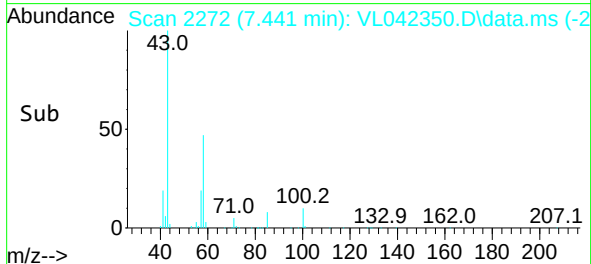
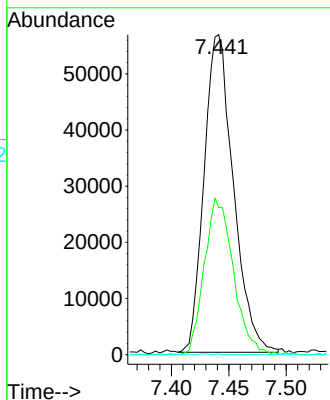
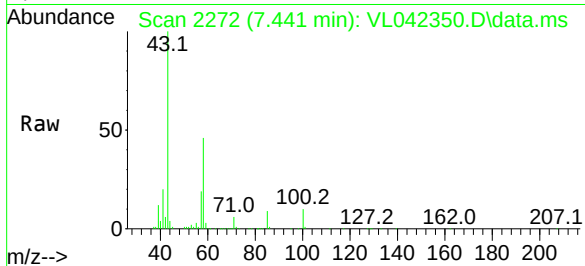
#51  
2-Hexanone  
Concen: 2.375 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 10044  
Ion Ratio Lower Upper  
43 100  
58 49.0 40.2 60.4  
98 0.1 0.1 0.1

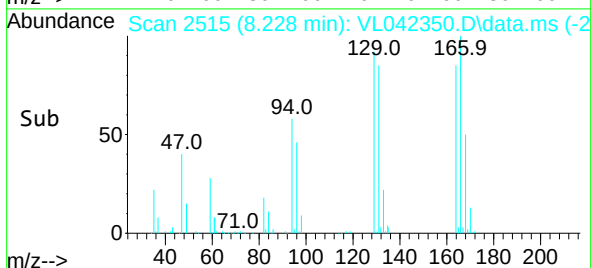
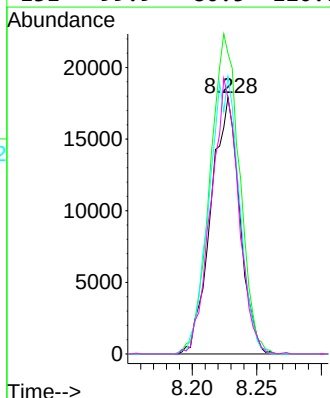
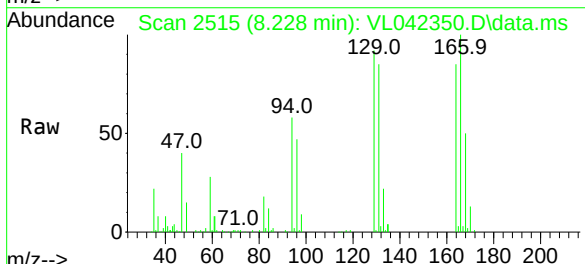
Manual Integrations  
APPROVED

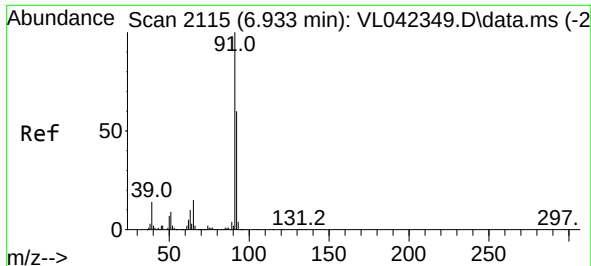
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#52  
Tetrachloroethene  
Concen: 1.877 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

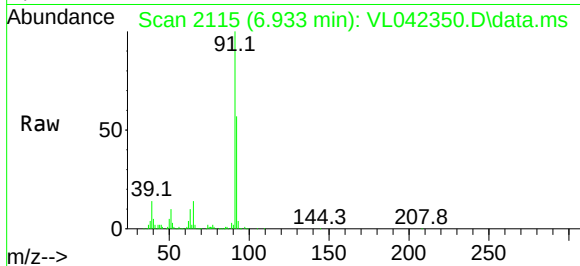
Tgt Ion:164 Resp: 27854  
Ion Ratio Lower Upper  
164 100  
166 117.2 98.2 147.2  
129 108.2 81.8 122.8  
131 99.9 80.5 120.7





#53  
Toluene  
Concen: 2.116 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

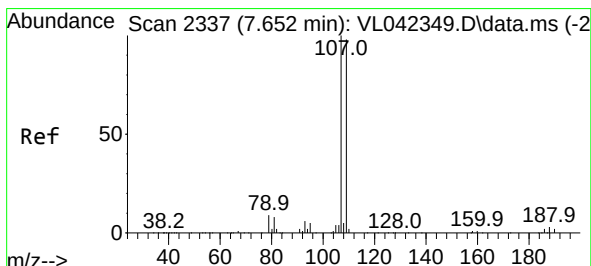
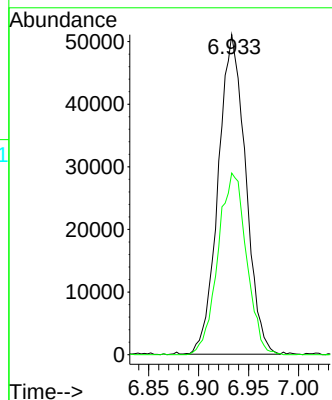
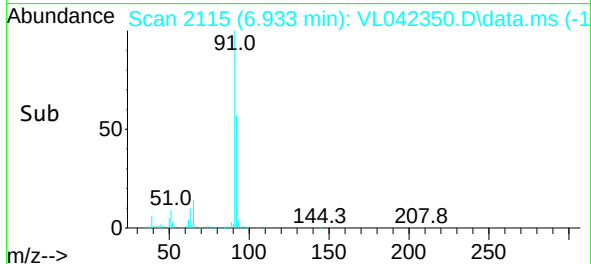
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002



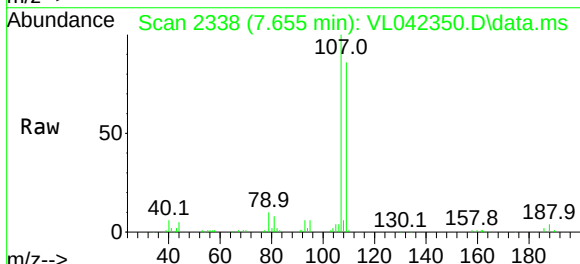
Tgt Ion: 91 Resp: 9749  
Ion Ratio Lower Upper  
91 100  
92 59.1 48.2 72.4

Manual Integrations  
APPROVED

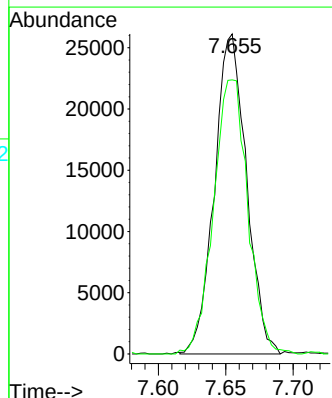
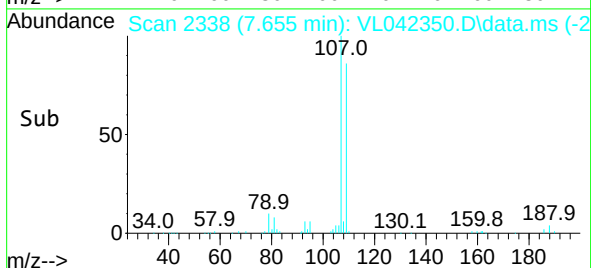
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



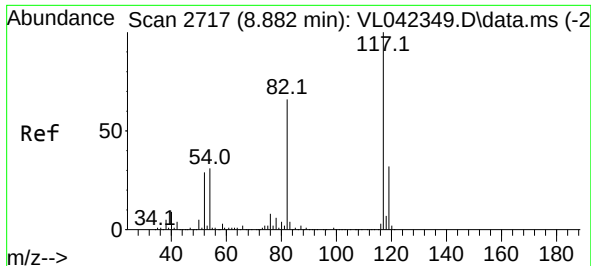
#54  
1,2-Dibromoethane  
Concen: 2.076 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion:107 Resp: 43153  
Ion Ratio Lower Upper  
107 100  
109 84.5 78.2 117.4

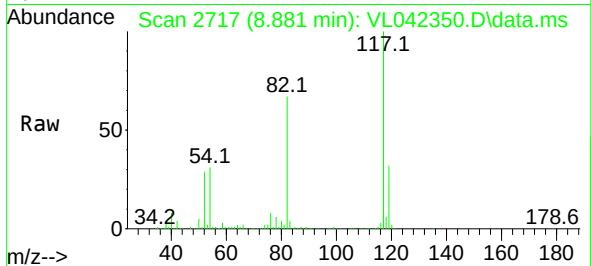






#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

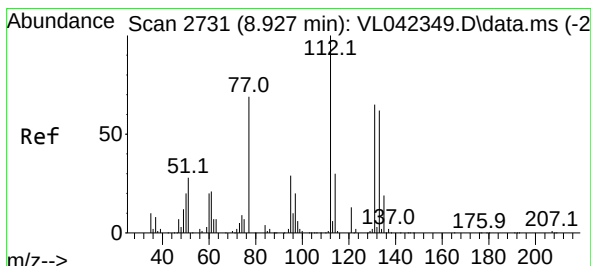
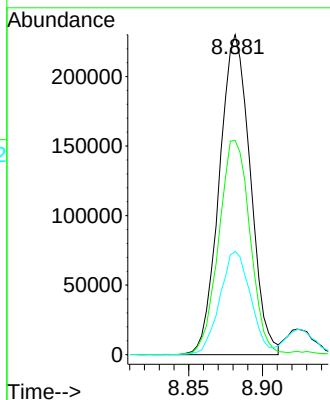
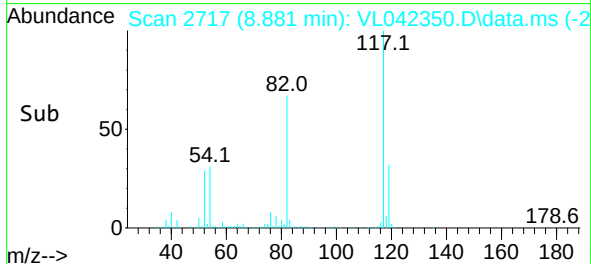
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



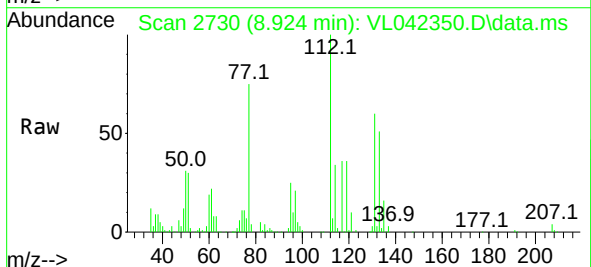
Tgt Ion:117 Resp: 33560  
Ion Ratio Lower Upper  
117 100  
82 68.8 57.8 86.6  
119 32.2 25.2 37.8

Manual Integrations  
APPROVED

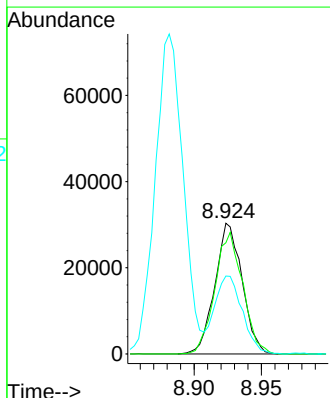
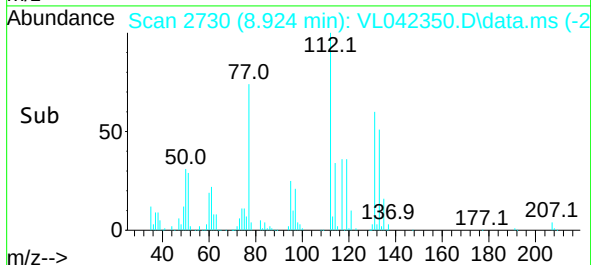
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

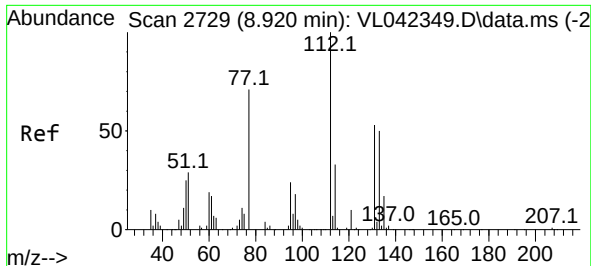


#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.097 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. -0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion:131 Resp: 42601  
Ion Ratio Lower Upper  
131 100  
133 95.3 78.3 117.5  
119 53.8 48.7 73.1





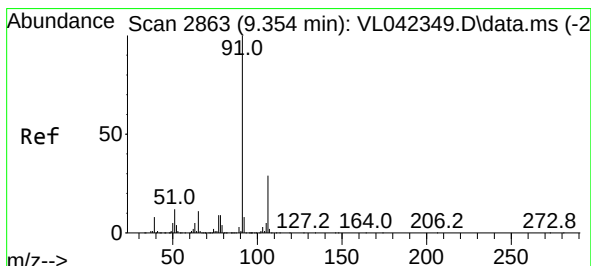
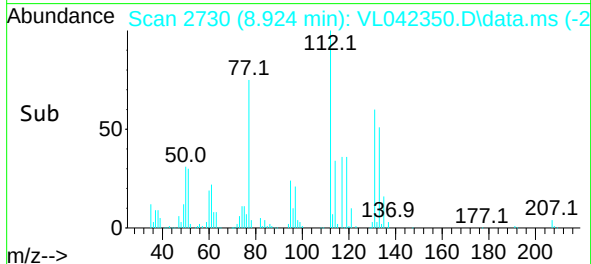
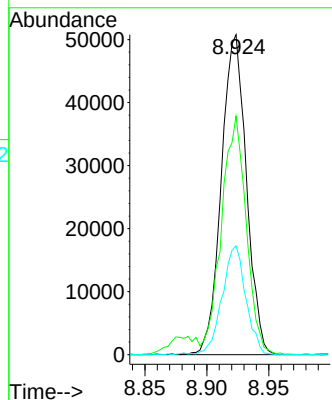
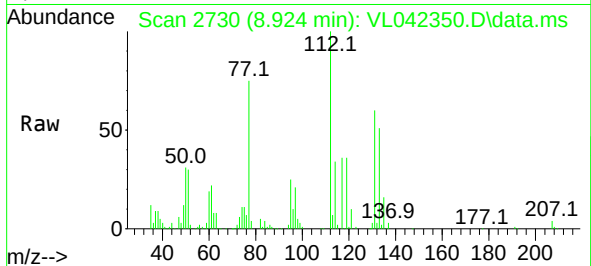
#57  
Chlorobenzene  
Concen: 2.054 ppbv  
RT: 8.924 min Scan# 2729  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 112 Resp: 71685  
Ion Ratio Lower Upper  
112 100  
77 74.0 57.8 86.6  
114 34.0 29.3 35.9

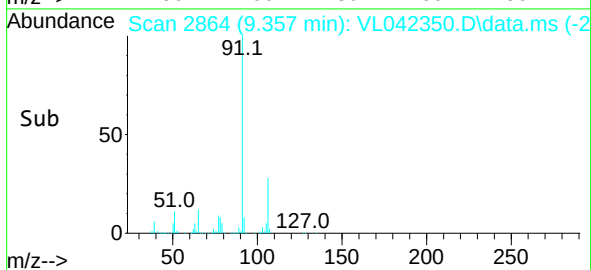
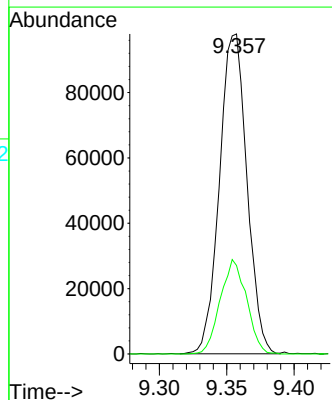
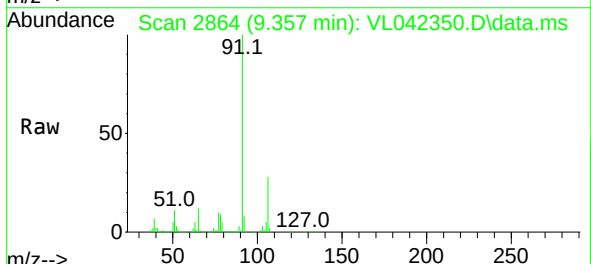
Manual Integrations  
APPROVED

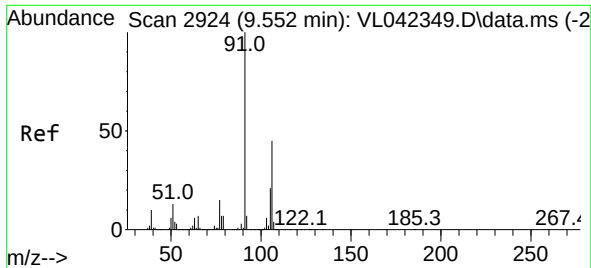
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#58  
Ethyl Benzene  
Concen: 2.088 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810  
Ion Ratio Lower Upper  
91 100  
106 27.7 23.0 34.4





#59

m/p-Xylene

Concen: 4.142 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 22254

Ion Ratio Lower Upper

91 100

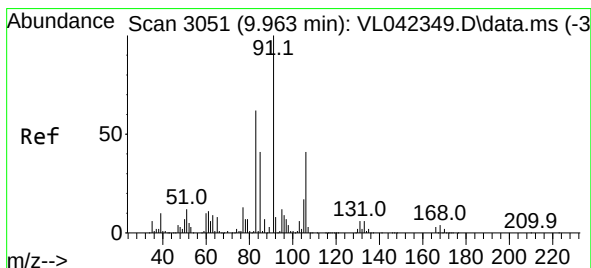
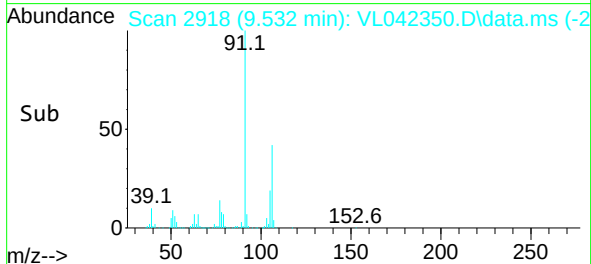
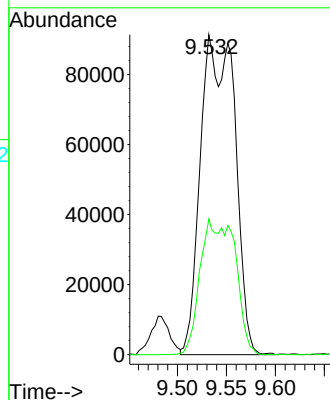
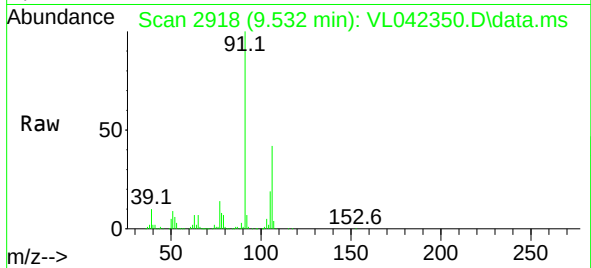
106 0.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 2.076 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

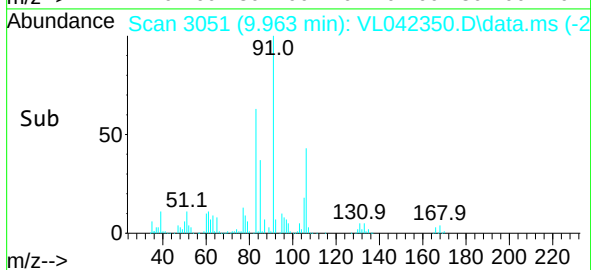
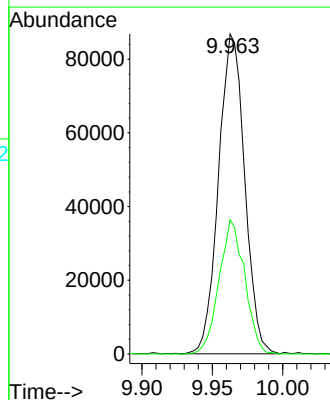
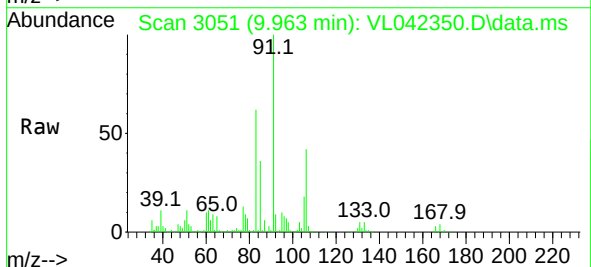
Acq: 17 Apr 2025 10:17

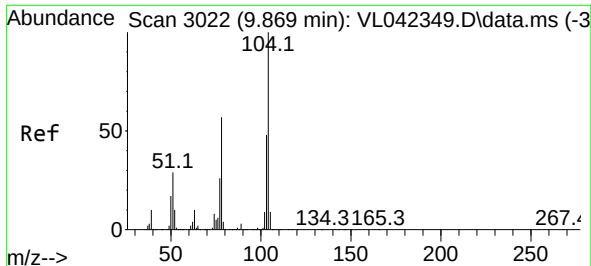
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4





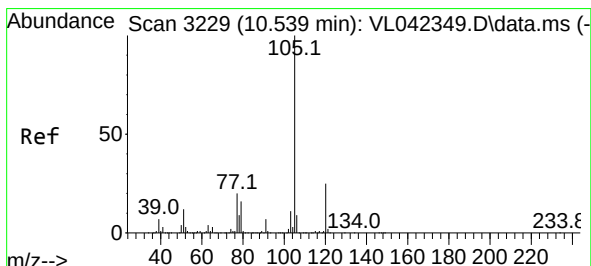
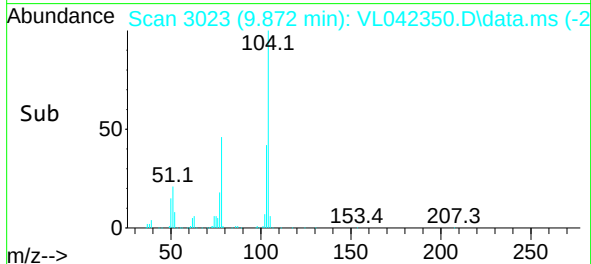
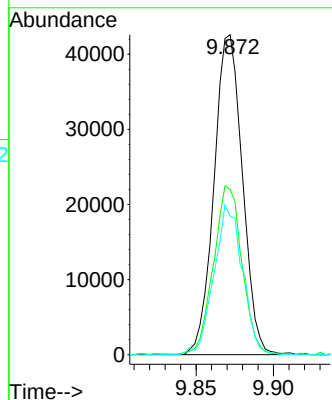
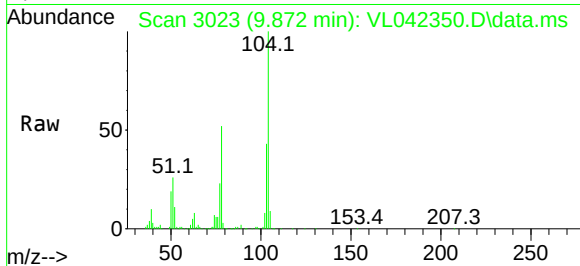
#61  
Styrene  
Concen: 2.106 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:104 Resp: 54229  
Ion Ratio Lower Upper  
104 100  
78 53.4 44.6 66.8  
103 47.1 37.4 56.0

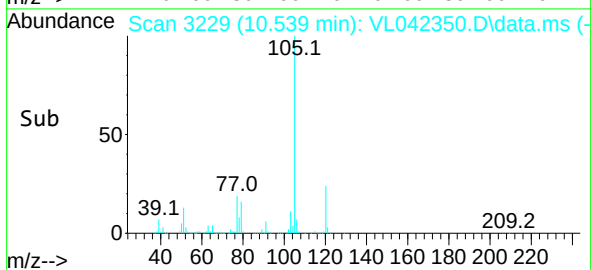
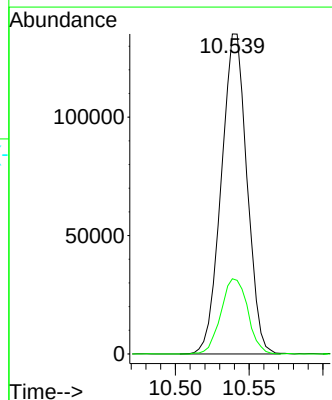
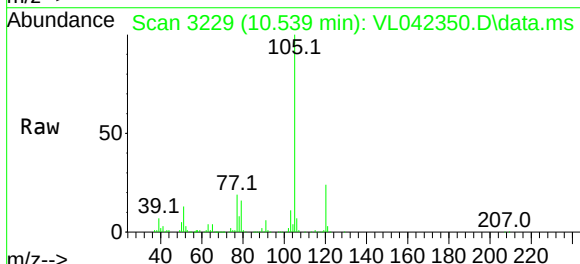
Manual Integrations  
APPROVED

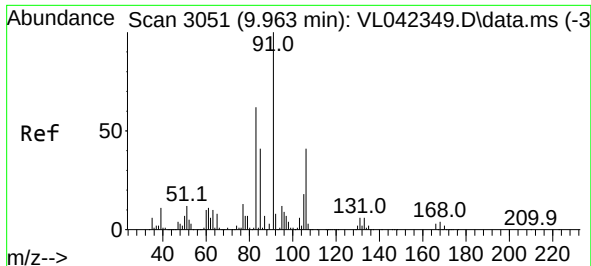
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#62  
Isopropylbenzene  
Concen: 2.067 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

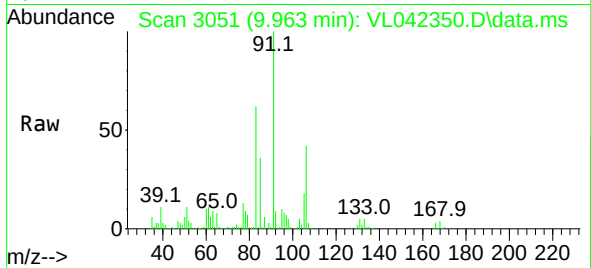
Tgt Ion:105 Resp: 163716  
Ion Ratio Lower Upper  
105 100  
120 24.6 19.8 29.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.853 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

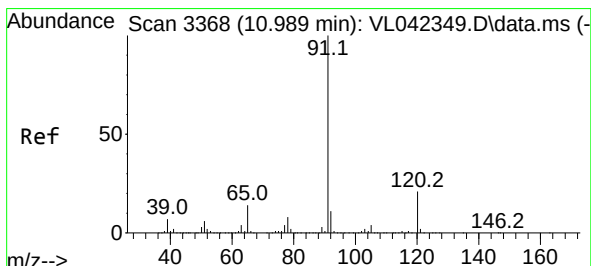
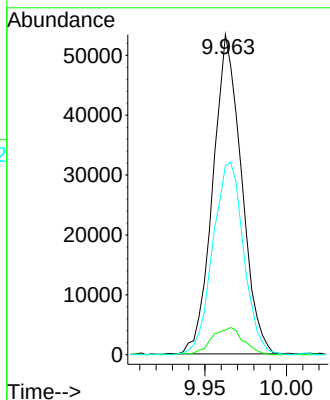
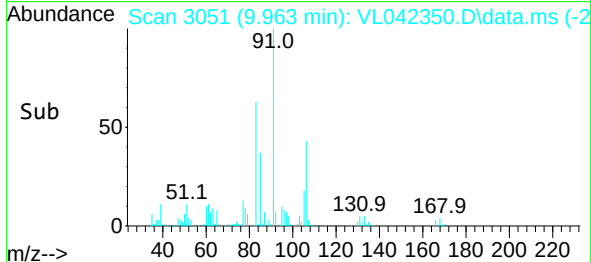
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002



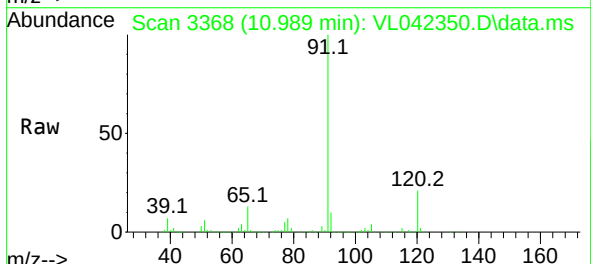
Tgt Ion: 83 Resp: 64952  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.5 13.7  
85 65.4 32.4 97.0

Manual Integrations  
APPROVED

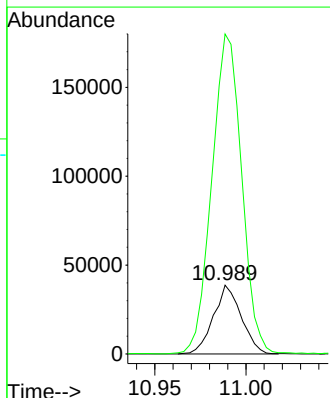
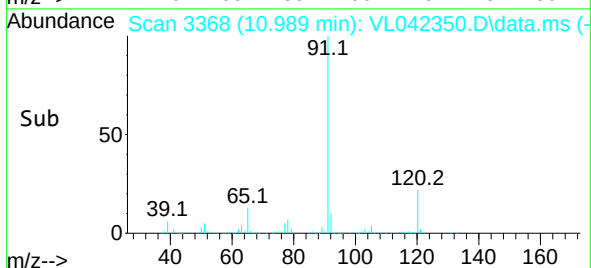
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

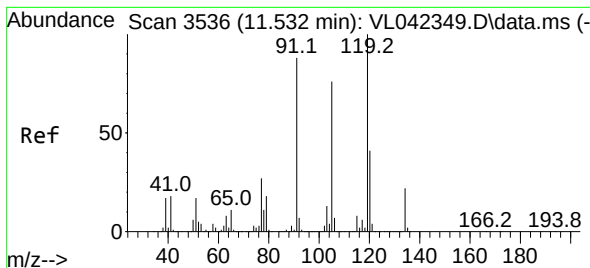


#64  
n-propylbenzene  
Concen: 2.058 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



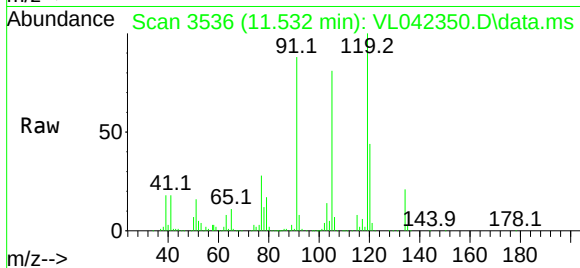
Tgt Ion:120 Resp: 40956  
Ion Ratio Lower Upper  
120 100  
91 502.0 392.4 588.6





#65  
tert-Butylbenzene  
Concen: 2.135 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

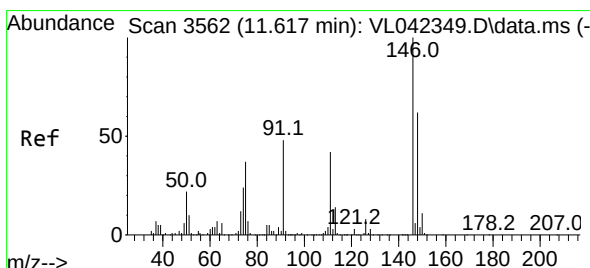
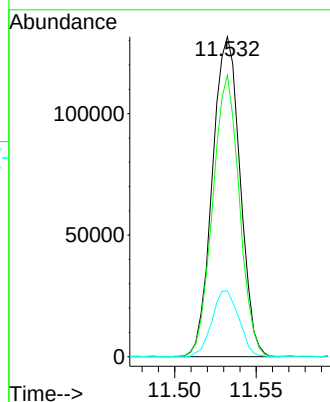
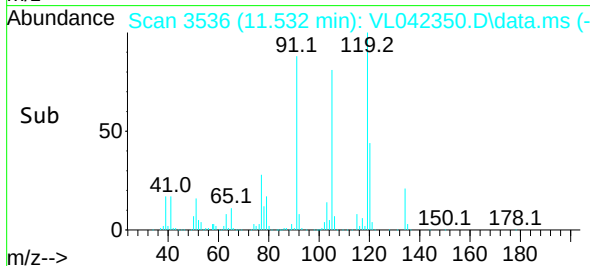
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002



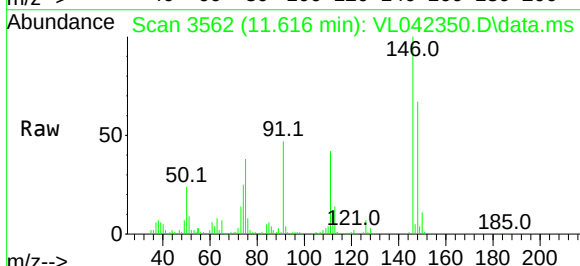
Tgt Ion: 119 Resp: 15540  
Ion Ratio Lower Upper  
119 100  
91 85.0 74.6 111.8  
134 20.1 18.8 28.2

Manual Integrations  
APPROVED

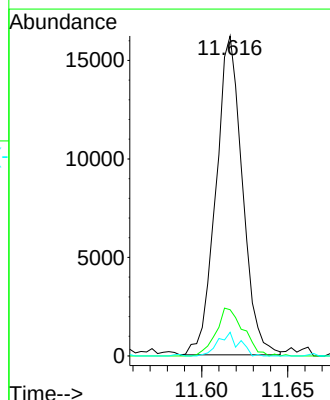
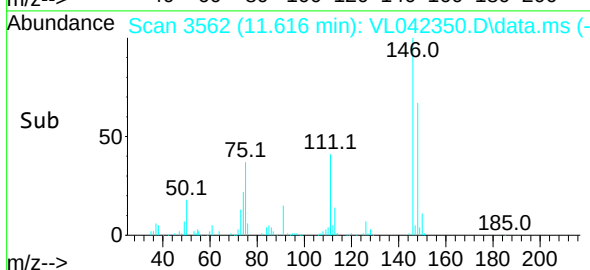
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

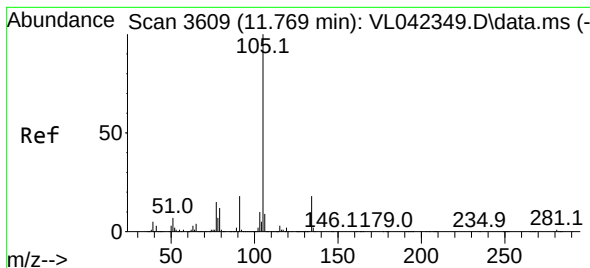


#66  
Benzyl Chloride  
Concen: 2.163 ppbv  
RT: 11.616 min Scan# 3562  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



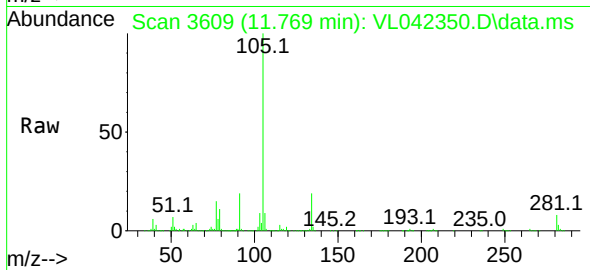
Tgt Ion: 91 Resp: 17300  
Ion Ratio Lower Upper  
91 100  
126 15.6 11.8 17.6  
128 6.1 4.5 6.7





#67  
sec-Butylbenzene  
Concen: 2.156 ppbv  
RT: 11.769 min Scan# 3609  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

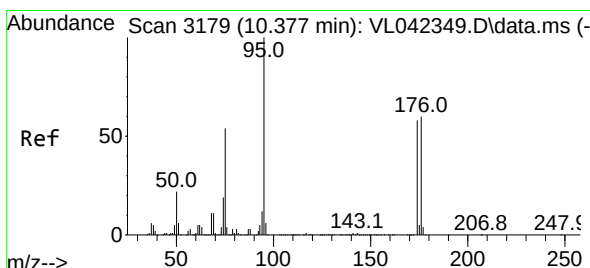
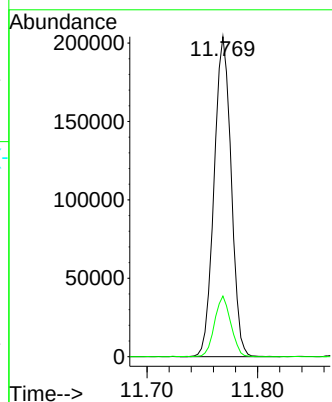
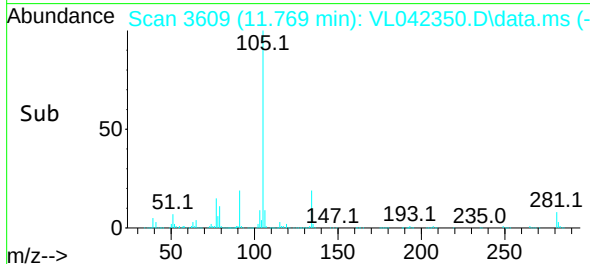
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion:105 Resp: 21832  
Ion Ratio Lower Upper  
105 100  
134 18.1 14.6 21.8

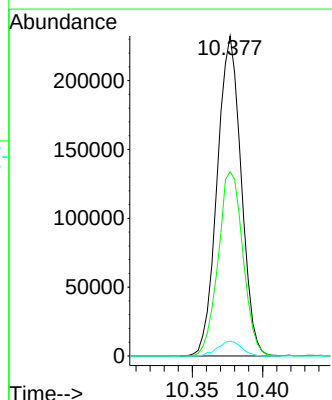
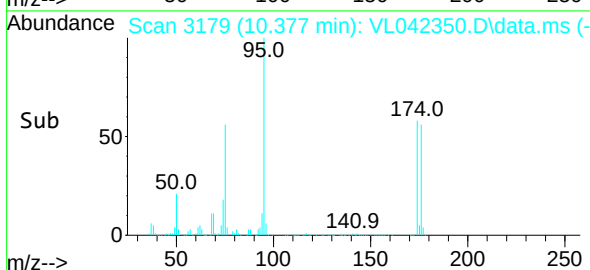
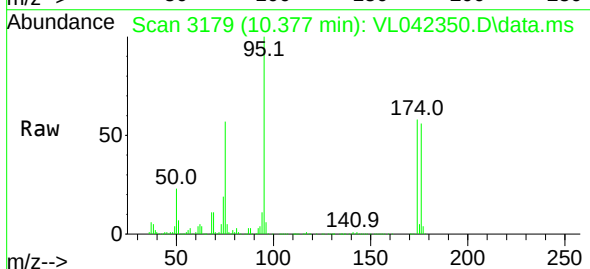
Manual Integrations  
APPROVED

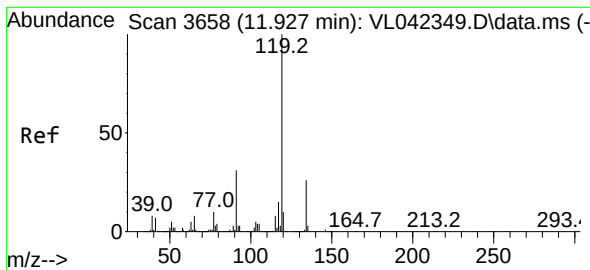
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.998 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

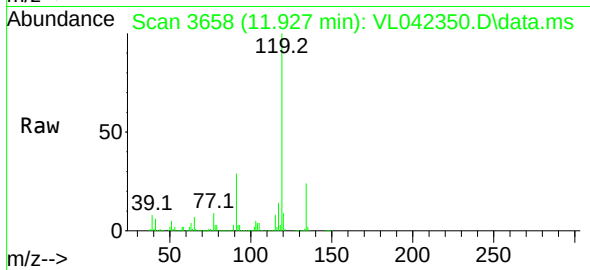
Tgt Ion: 95 Resp: 275715  
Ion Ratio Lower Upper  
95 100  
174 59.6 48.5 72.7  
175 4.7 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 2.145 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

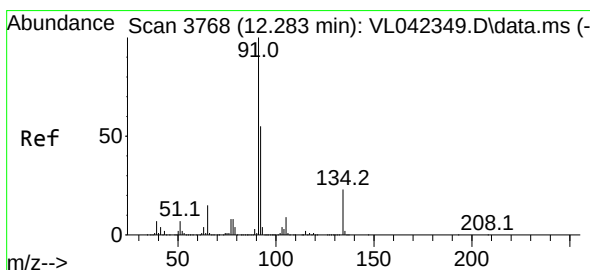
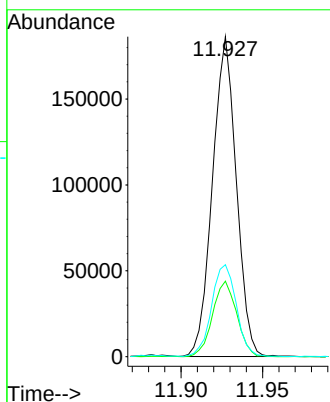
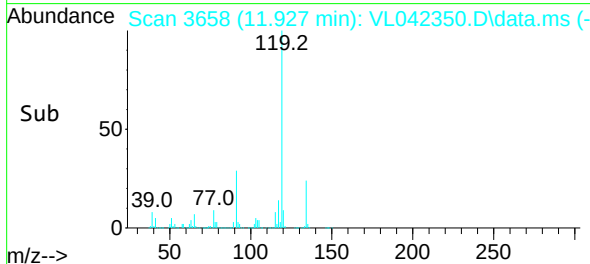
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



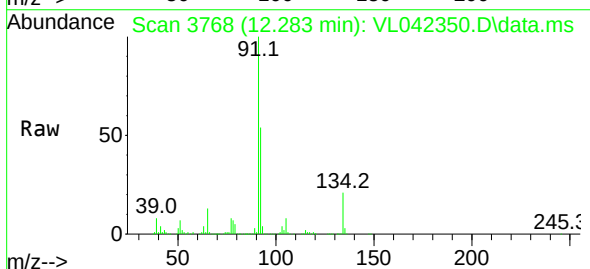
Tgt Ion: 119 Resp: 18865  
Ion Ratio Lower Upper  
119 100  
134 24.2 20.0 30.0  
91 30.8 24.4 36.6

Manual Integrations  
APPROVED

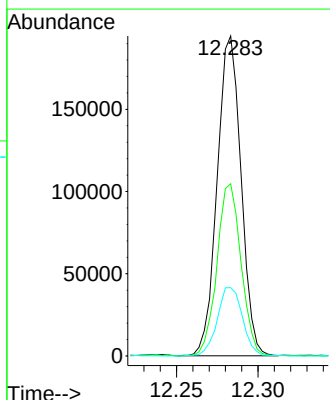
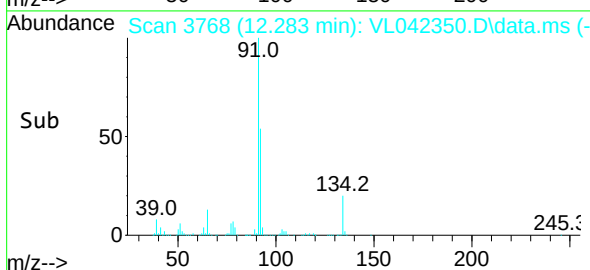
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



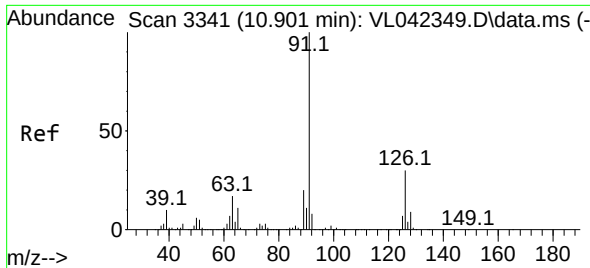
#70  
n-Butylbenzene  
Concen: 2.164 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion: 91 Resp: 198221  
Ion Ratio Lower Upper  
91 100  
92 54.4 44.2 66.4  
134 22.6 18.2 27.4

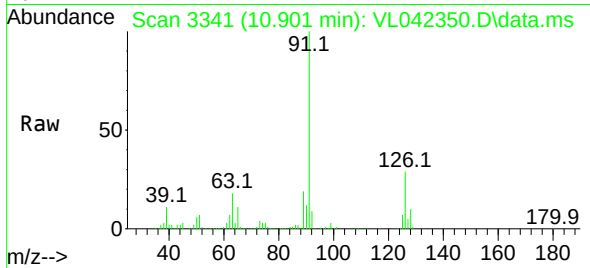






#71  
2-Chlorotoluene  
Concen: 2.075 ppbv  
RT: 10.901 min Scan# 3341  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

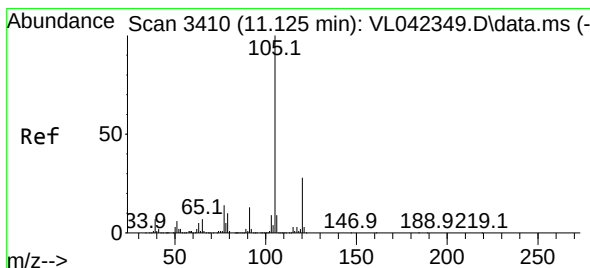
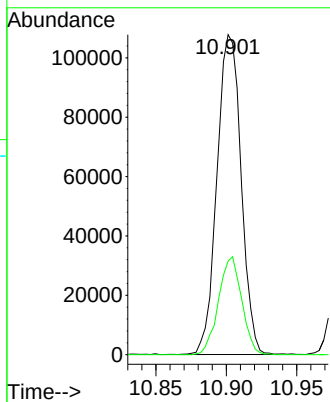
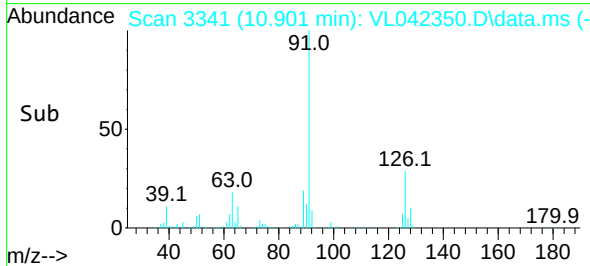
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002



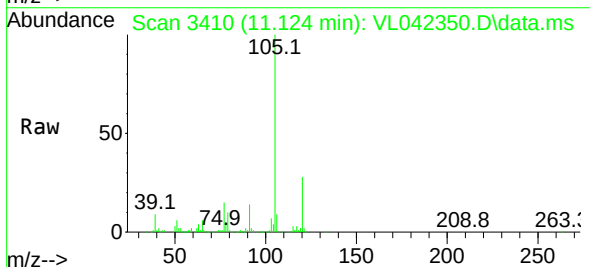
Tgt Ion: 91 Resp: 128858  
Ion Ratio Lower Upper  
91 100  
126 29.5 11.4 45.4

Manual Integrations  
APPROVED

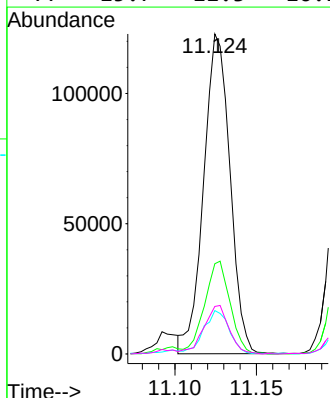
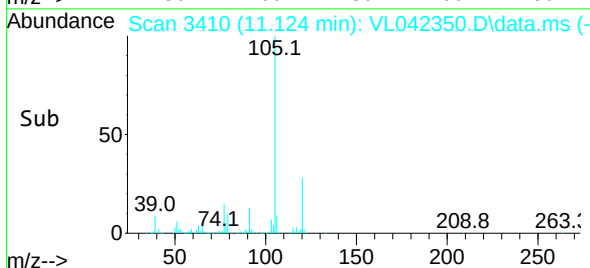
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

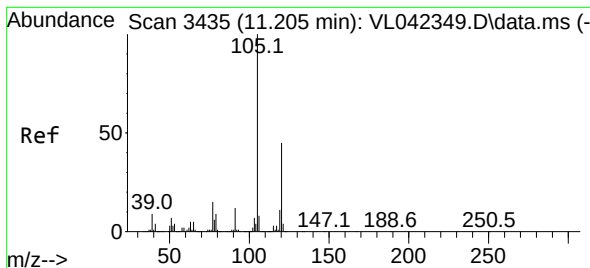


#72  
4-Ethyltoluene  
Concen: 2.091 ppbv  
RT: 11.124 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



Tgt Ion:105 Resp: 137872  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.2 34.8  
91 14.4 10.4 15.6  
77 15.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 2.123 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 123580

Ion Ratio Lower Upper

105 100

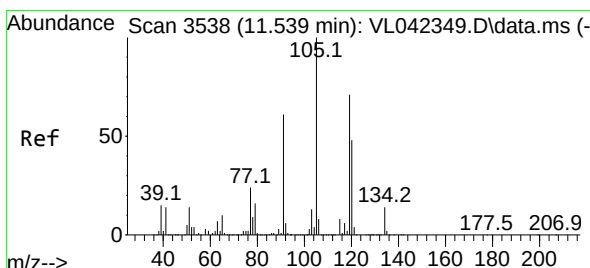
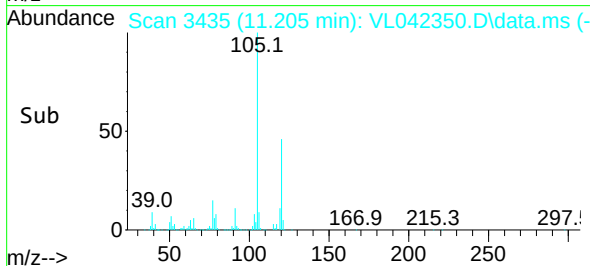
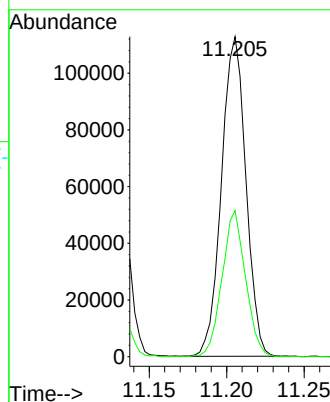
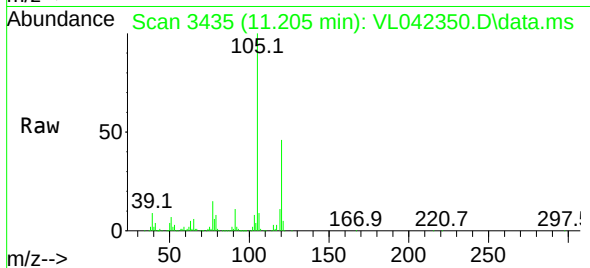
120 45.7 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.140 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

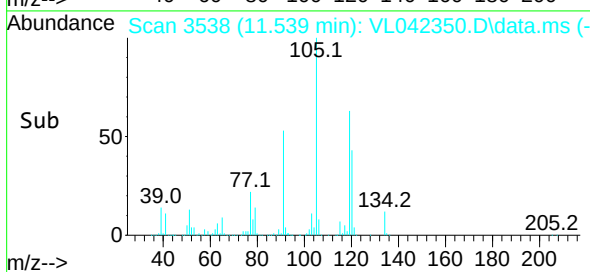
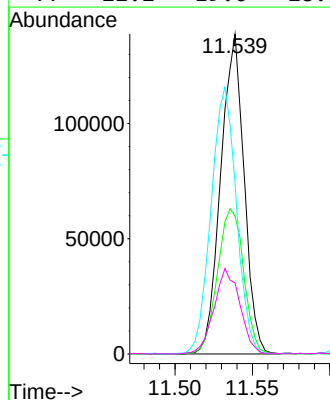
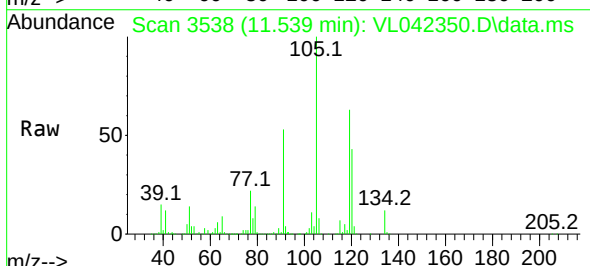
Ion Ratio Lower Upper

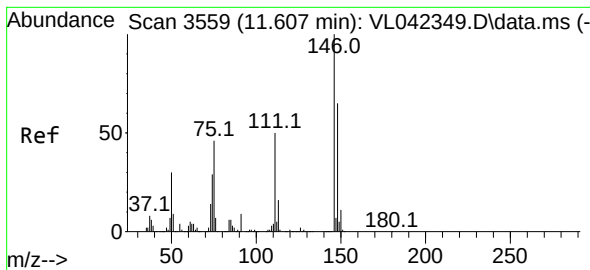
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

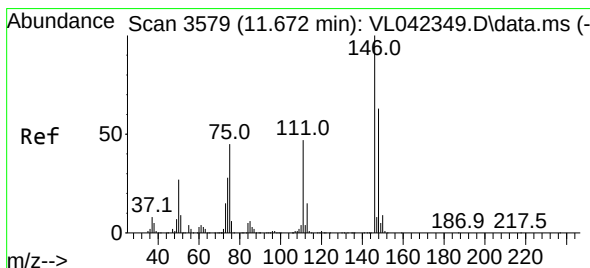
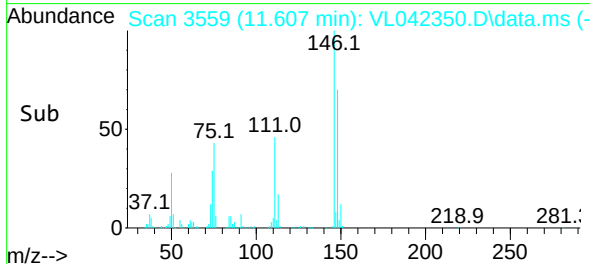
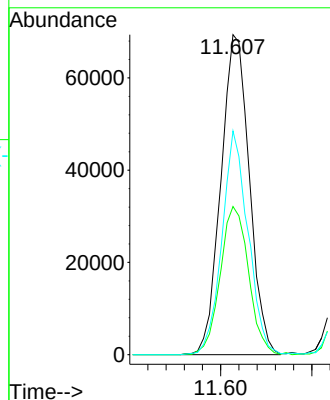
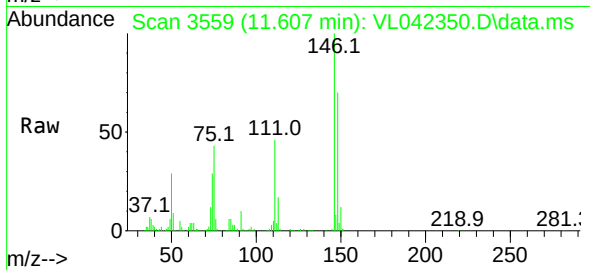
VSTDICC002

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 7508      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 46.3  | 24.3 72.8 |
| 148         | 64.3  | 31.6 94.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 2.120 ppbv

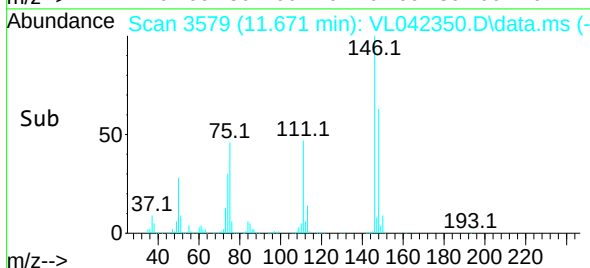
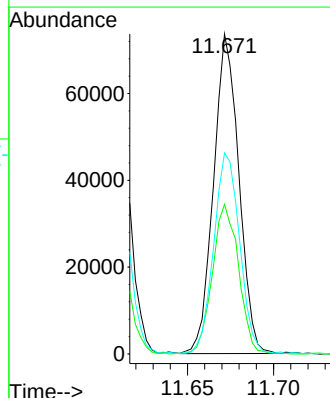
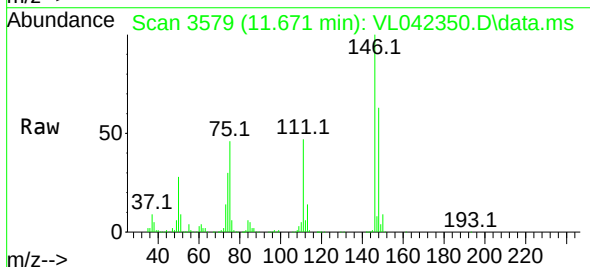
RT: 11.671 min Scan# 3579

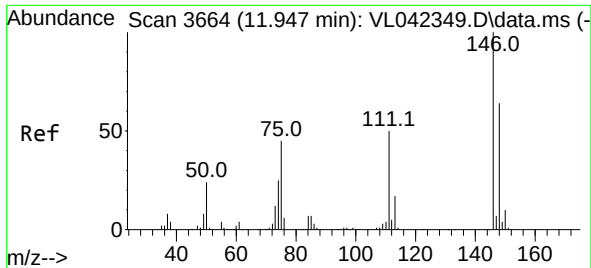
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

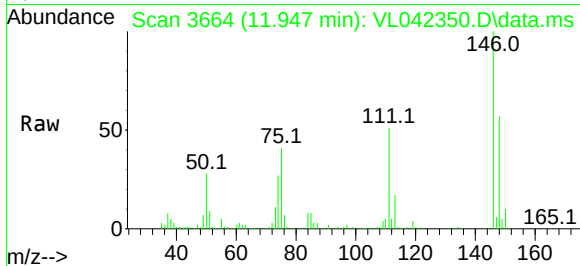
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 75323     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 48.4  | 24.2 72.6 |
| 148         | 65.1  | 32.1 96.5 |





#77  
1,2-Dichlorobenzene  
Concen: 2.176 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

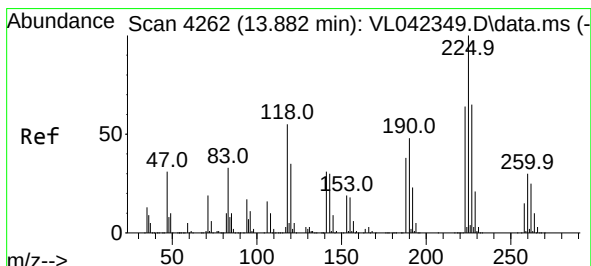
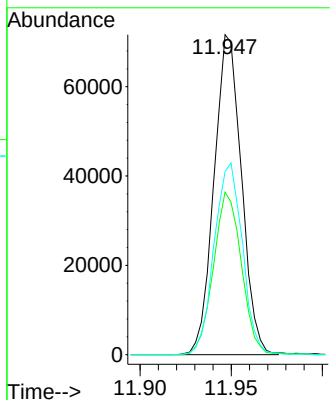
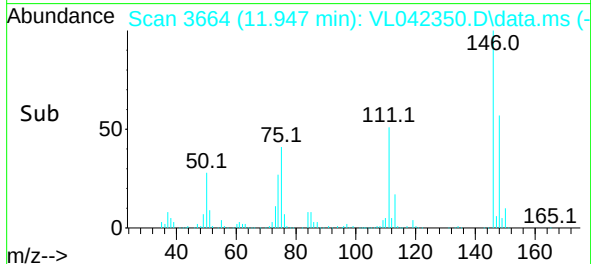
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



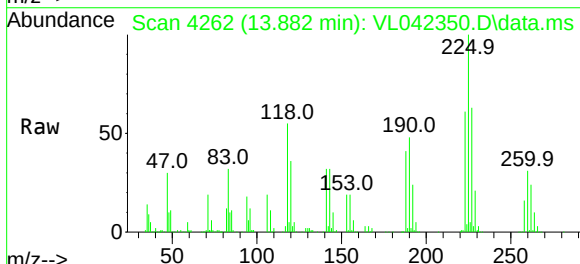
Tgt Ion:146 Resp: 74780  
Ion Ratio Lower Upper  
146 100  
111 52.0 25.3 75.9  
148 61.8 31.5 94.5

Manual Integrations  
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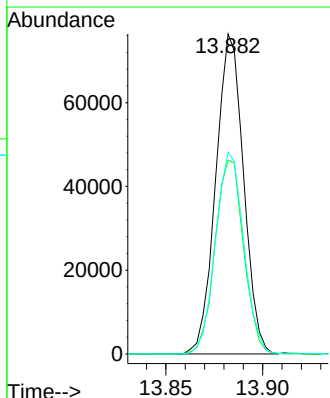
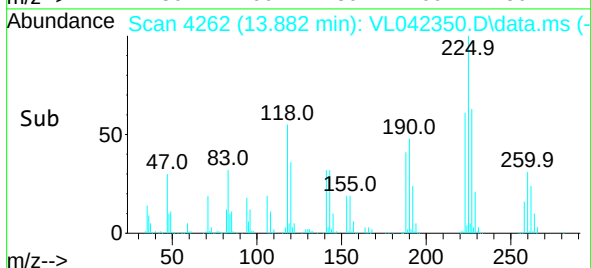
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

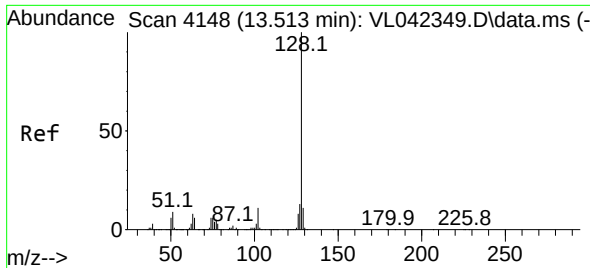


#78  
Hexachloro-1,3-Butadiene  
Concen: 2.194 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



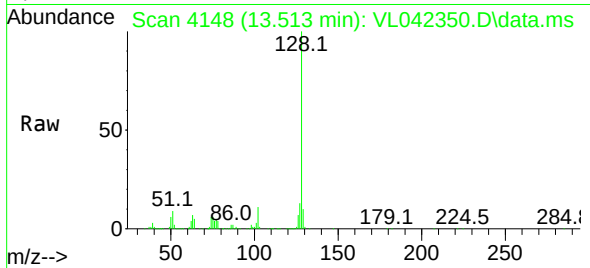
Tgt Ion:225 Resp: 76158  
Ion Ratio Lower Upper  
225 100  
223 62.6 50.3 75.5  
227 64.1 51.5 77.3





#79  
Naphthalene  
Concen: 2.401 ppbv  
RT: 13.513 min Scan# 4148  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

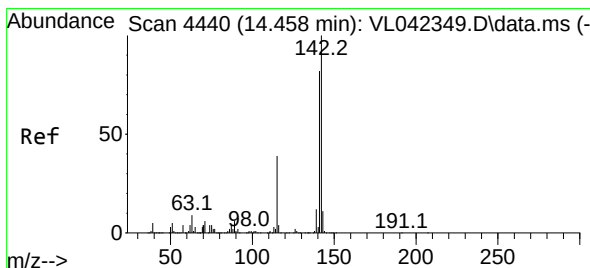
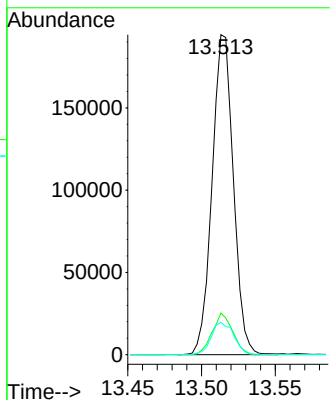
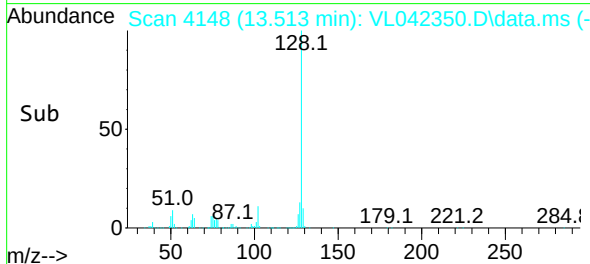
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



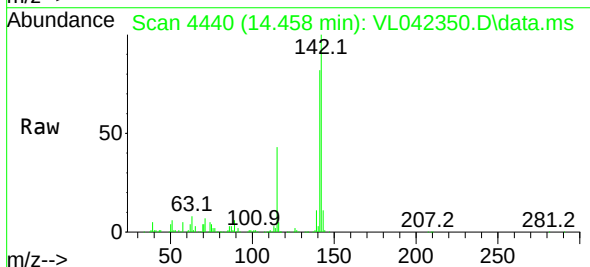
Tgt Ion:128 Resp: 195233  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.6 15.8  
129 10.1 8.6 12.8

Manual Integrations  
APPROVED

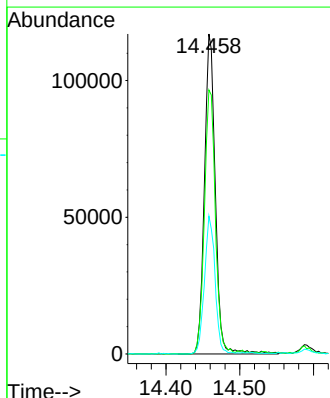
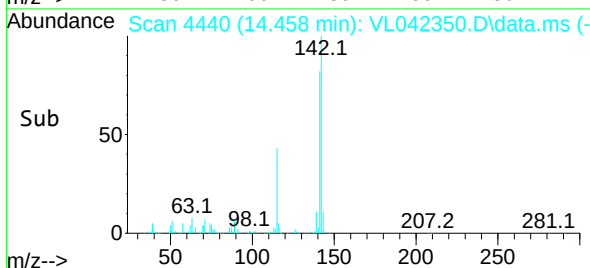
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

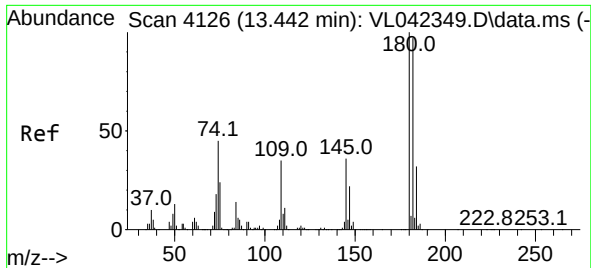


#80  
Naphthalene,2-methyl-  
Concen: 2.574 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17



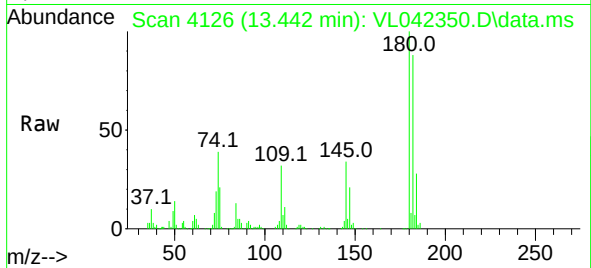
Tgt Ion:142 Resp: 119262  
Ion Ratio Lower Upper  
142 100  
141 84.7 66.8 100.2  
115 42.2 33.4 50.2





#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.353 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

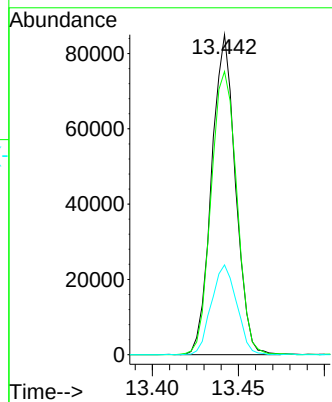
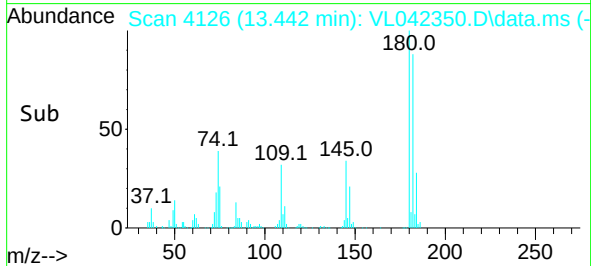
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 82150      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.1  | 76.8 115.2 |
| 184         | 29.8  | 24.6 36.8  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 124177   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 359907   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 329090   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 269087 9.950 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 22816  | 1.040 | ppbv   | 93     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 20573  | 0.985 | ppbv   | 97     |
| 4) Chloromethane              | 1.535 | 50  | 9008   | 1.038 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 8807   | 0.932 | ppbv   | 98     |
| 6) Bromomethane               | 1.671 | 94  | 4099   | 1.001 | ppbv   | 91     |
| 7) Chloroethane               | 1.706 | 64  | 3559   | 1.041 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 19251  | 1.022 | ppbv   | 100    |
| 9) Propene                    | 1.486 | 41  | 9892   | 1.040 | ppbv   | 92     |
| 10) Heptane                   | 4.982 | 43  | 28507m | 1.114 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 22428  | 1.075 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 17865  | 1.047 | ppbv   | 98     |
| 13) Ethanol                   | 1.722 | 45  | 1730m  | 2.225 | ppbv   |        |
| 14) Bromoethene               | 1.784 | 108 | 6766   | 1.052 | ppbv # | 89     |
| 15) Acetone                   | 1.839 | 43  | 23537  | 1.158 | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 10377m | 1.087 | ppbv   |        |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 26477  | 1.051 | ppbv # | 90     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 7890   | 0.962 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 12175  | 1.078 | ppbv # | 39     |
| 20) Methylene Chloride        | 2.062 | 84  | 9046   | 1.136 | ppbv   | 87     |
| 21) Allyl Chloride            | 2.098 | 41  | 15057  | 1.073 | ppbv   | 91     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 9421   | 1.038 | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.467 | 43  | 9234   | 1.122 | ppbv # | 90     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 18236  | 1.058 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.842 | 43  | 51494  | 1.027 | ppbv # | 97     |
| 26) Hexane                    | 2.826 | 57  | 21350  | 1.053 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.153 | 76  | 20739  | 0.955 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 14164  | 1.066 | ppbv # | 85     |
| 29) Chloroform                | 2.852 | 83  | 28973  | 1.011 | ppbv   | 100    |
| 30) Cyclohexane               | 3.862 | 84  | 16547m | 1.013 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 19904  | 1.032 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 31653  | 1.030 | ppbv   | 98     |
| 34) 2-Butanone                | 2.564 | 43  | 29735  | 1.045 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 29875  | 0.917 | ppbv   | 94     |
| 36) Benzene                   | 3.661 | 78  | 38707  | 0.997 | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 23284  | 0.999 | ppbv   | 97     |
| 38) Trichloroethene           | 4.551 | 130 | 16119  | 0.947 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 14866  | 1.027 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.597 | 88  | 8737m  | 1.114 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.062 | 42  | 17259  | 1.049 | ppbv   | 96     |
| 42) Bromodichloromethane      | 4.490 | 83  | 32721  | 1.009 | ppbv # | 98     |
| 43) Methyl Methacrylate       | 4.885 | 69  | 18699m | 1.073 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 68946m | 1.027 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.416 | 75  | 18347m | 1.026 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 22189m   | 1.015 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 15457m   | 1.048 | ppbv   |          |
| 48) Dibromochloromethane      | 7.390  | 129  | 25948    | 0.997 | ppbv   | 100      |
| 49) Bromoform                 | 9.484  | 173  | 22413    | 0.984 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 49725    | 1.049 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.445  | 43   | 47178    | 1.103 | ppbv   | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 14154    | 0.943 | ppbv   | 93       |
| 53) Toluene                   | 6.940  | 91   | 46611    | 1.001 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 21780    | 1.036 | ppbv   | 93       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 21052    | 1.057 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.921  | 112  | 35113    | 1.026 | ppbv # | 95       |
| 58) Ethyl Benzene             | 9.354  | 91   | 68703    | 1.054 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.552  | 91   | 110702m  | 2.101 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 55831    | 1.056 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 25544    | 1.012 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.542 | 105  | 81286    | 1.047 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 32410    | 0.943 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 19898    | 1.019 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 77598    | 1.087 | ppbv   | 92       |
| 66) Benzyl Chloride           | 11.617 | 91   | 7864     | 1.003 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 105919   | 1.067 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 92733    | 1.075 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.284 | 91   | 96306    | 1.072 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 63321    | 1.040 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 69698    | 1.078 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 60927    | 1.067 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 73888    | 1.108 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 36877    | 1.064 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 36692    | 1.053 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 35977    | 1.068 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 37377    | 1.098 | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 90710    | 1.138 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 50487    | 1.111 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 36764    | 1.074 | ppbv   | 99       |

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



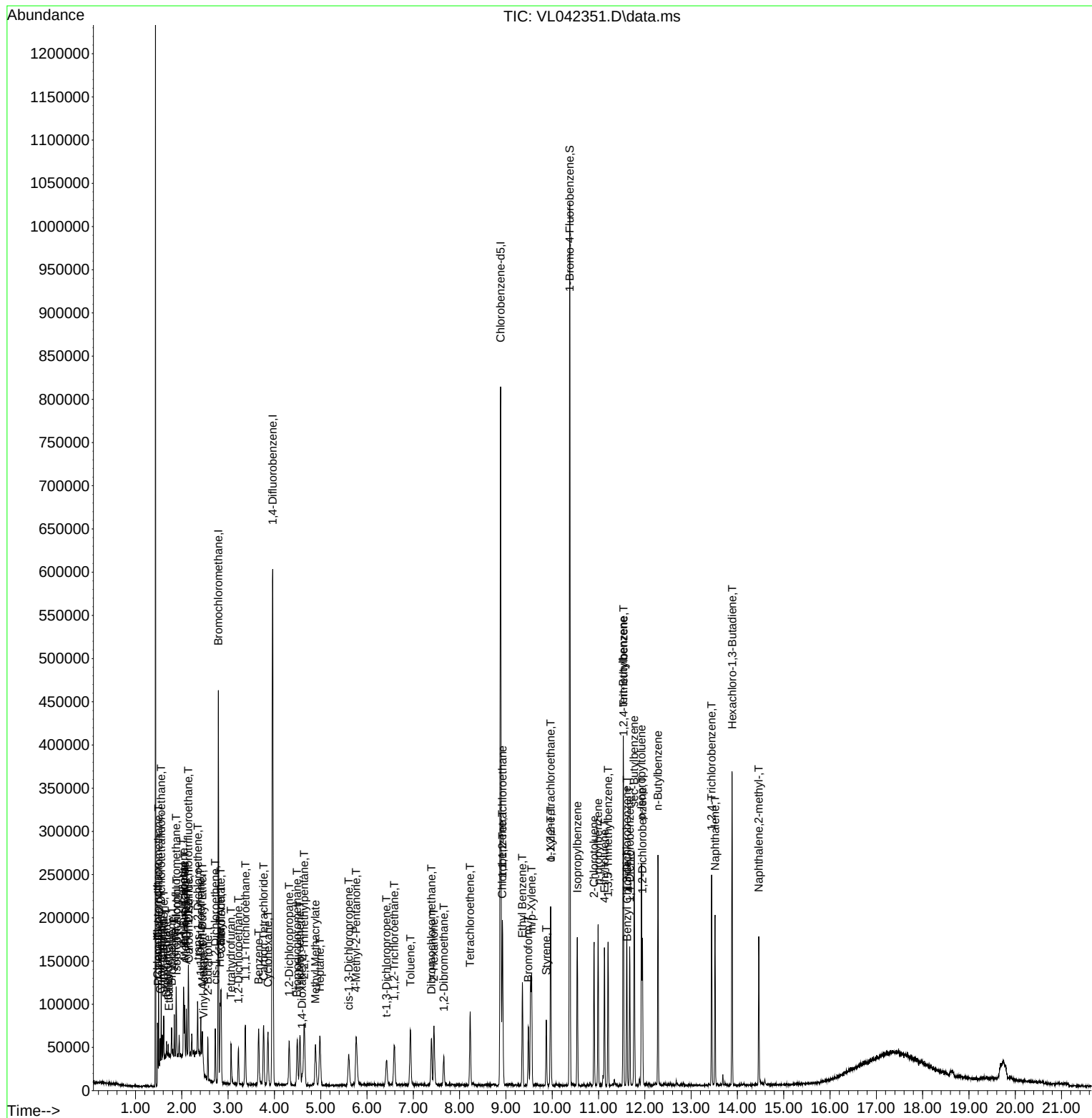
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 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

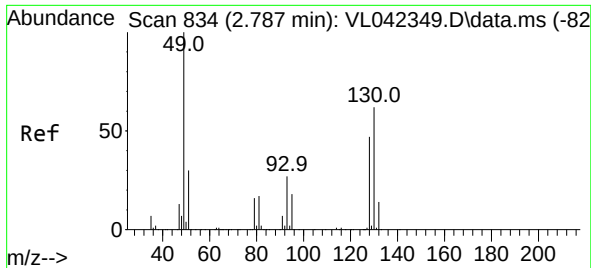
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration





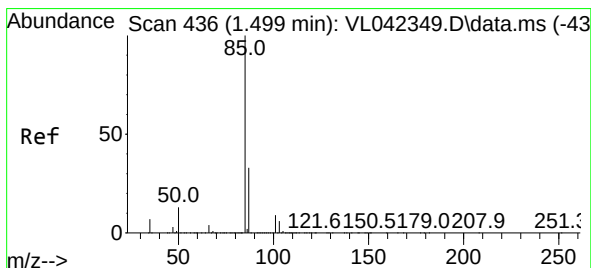
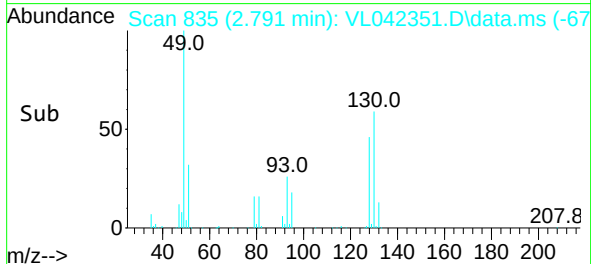
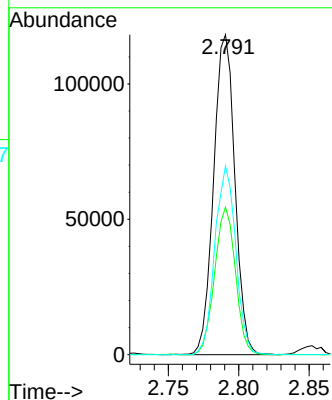
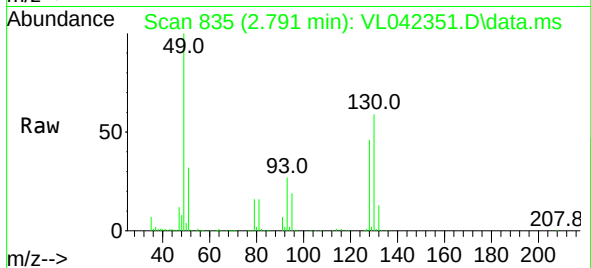
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 49 Resp: 12417  
Ion Ratio Lower Upper  
49 100  
128 45.2 22.8 68.4  
130 58.1 29.3 88.0

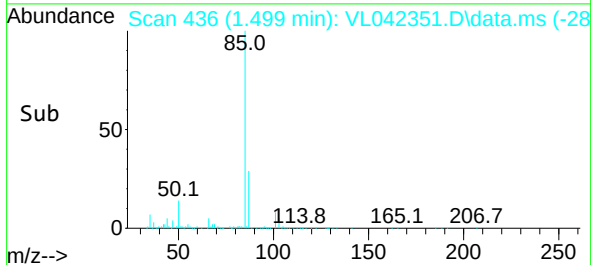
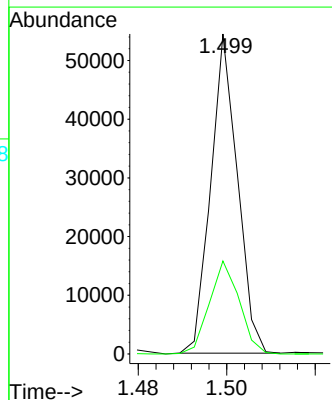
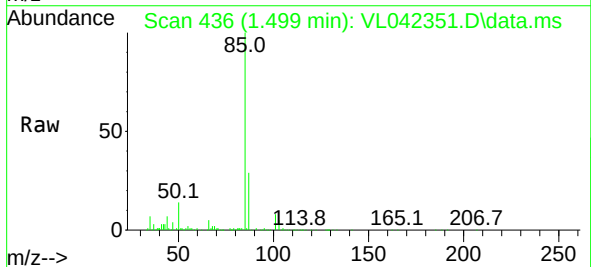
Manual Integrations  
APPROVED

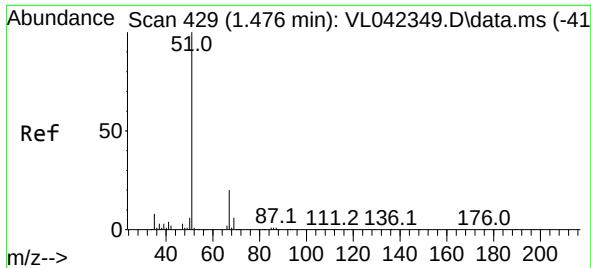
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#2  
Dichlorodifluoromethane  
Concen: 1.040 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

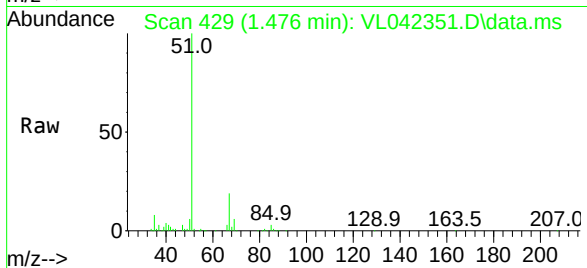
Tgt Ion: 85 Resp: 22816  
Ion Ratio Lower Upper  
85 100  
87 29.1 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 0.985 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

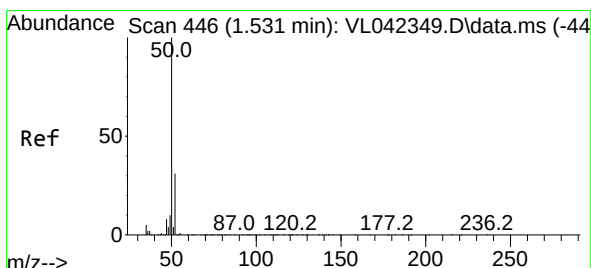
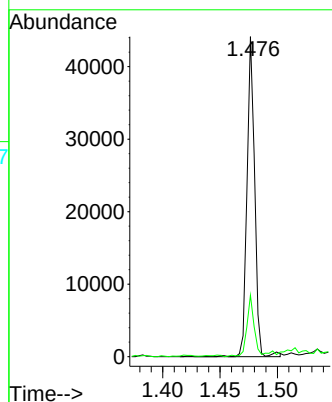
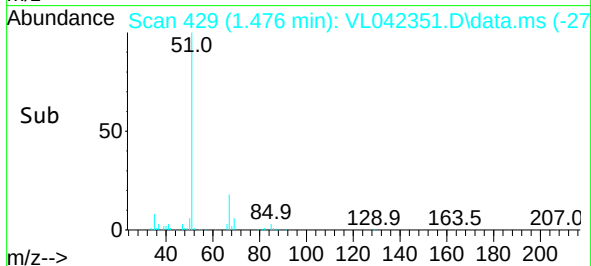
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



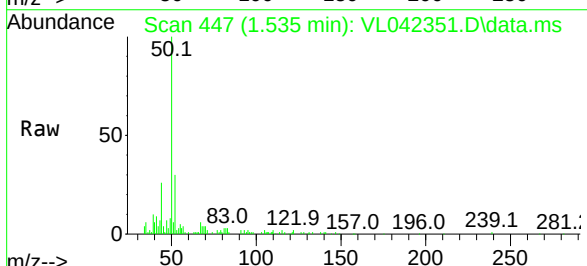
Tgt Ion: 51 Resp: 2057  
Ion Ratio Lower Upper  
51 100  
67 19.1 16.2 24.4

Manual Integrations  
APPROVED

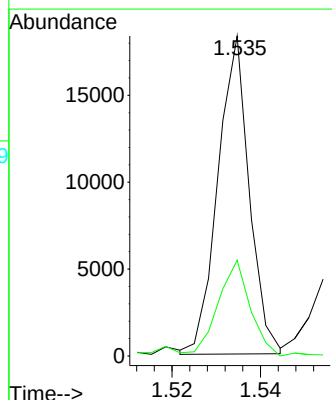
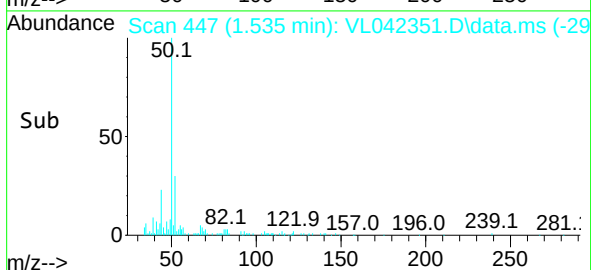
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

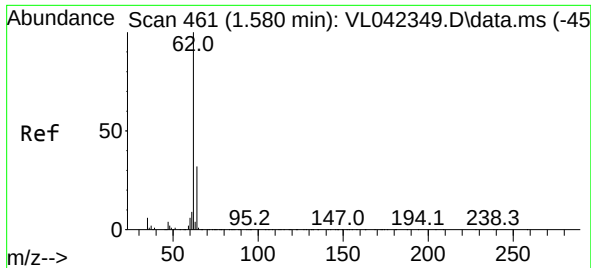


#4  
Chloromethane  
Concen: 1.038 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion: 50 Resp: 9008  
Ion Ratio Lower Upper  
50 100  
52 30.4 24.7 37.1





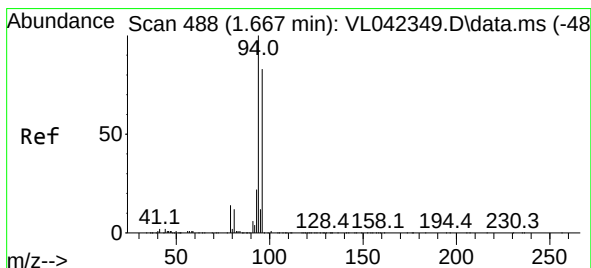
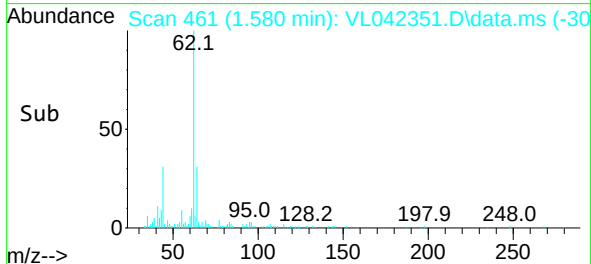
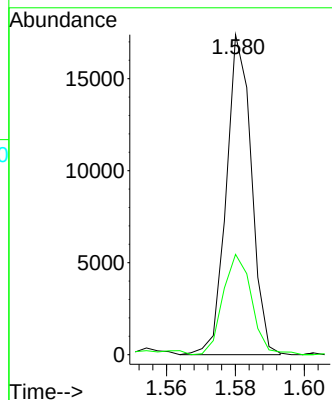
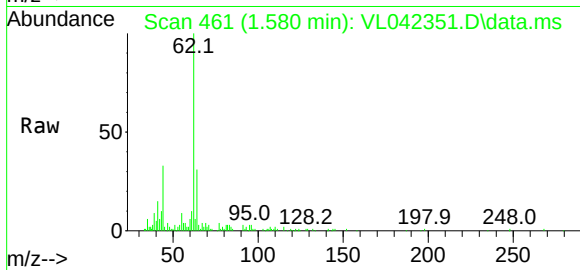
#5  
 Vinyl Chloride  
 Concen: 0.932 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 62 Resp: 880  
 Ion Ratio Lower Upper  
 62 100  
 64 30.5 25.4 38.0

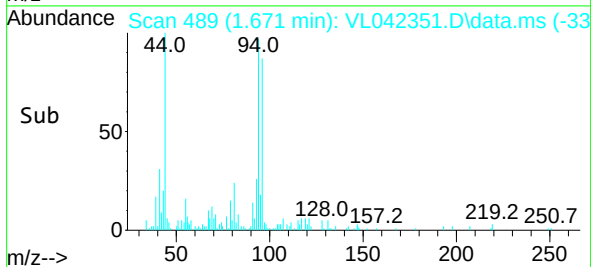
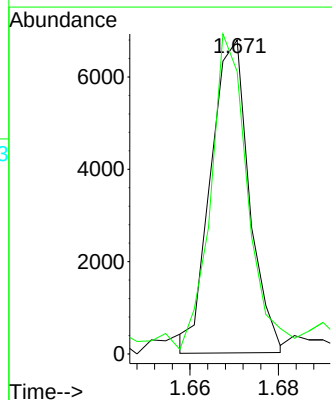
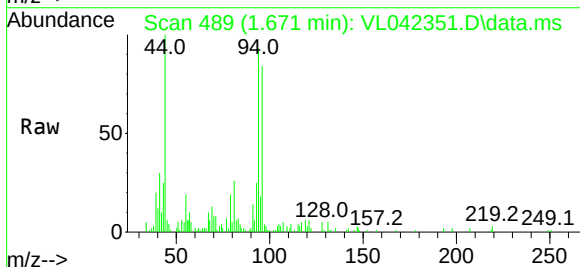
Manual Integrations  
 APPROVED

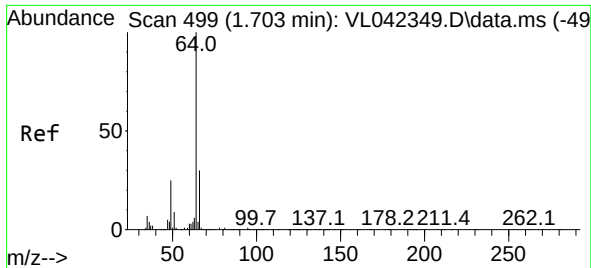
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#6  
 Bromomethane  
 Concen: 1.001 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

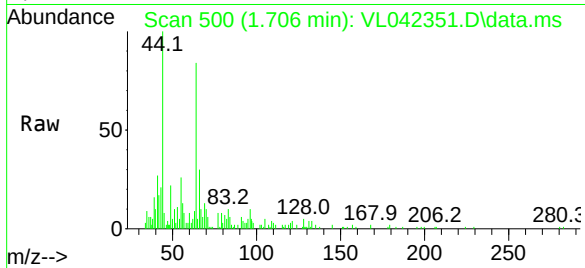
Tgt Ion: 94 Resp: 4099  
 Ion Ratio Lower Upper  
 94 100  
 96 91.0 66.2 99.2





#7  
Chloroethane  
Concen: 1.041 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

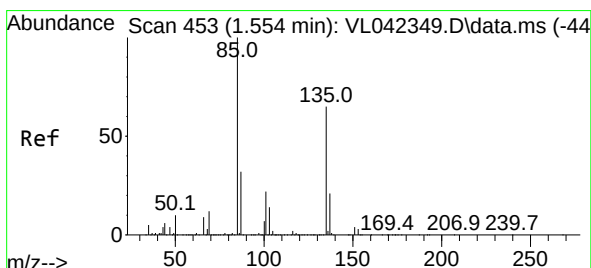
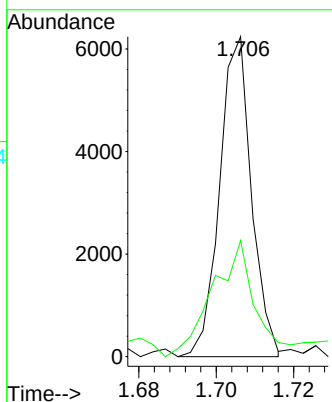
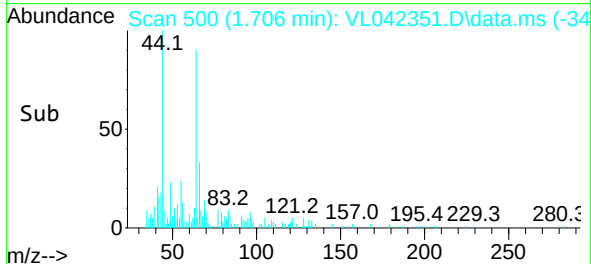
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



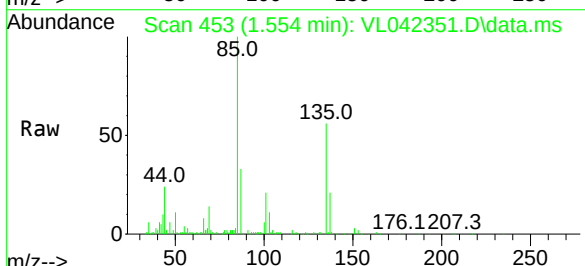
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Ion Ratio Lower Upper  
64 100  
66 36.3 24.6 37.0

Manual Integrations  
APPROVED

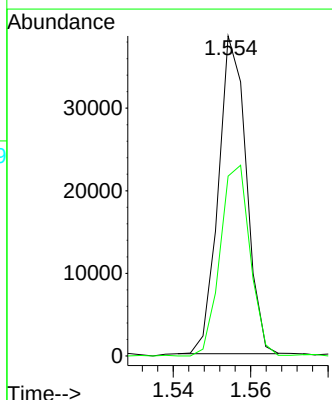
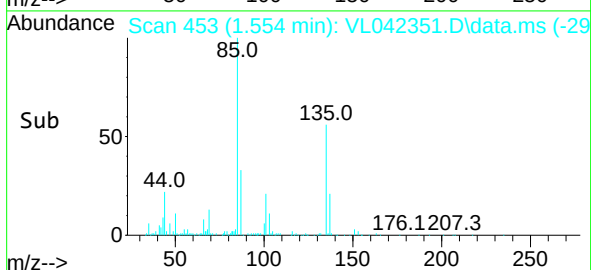
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

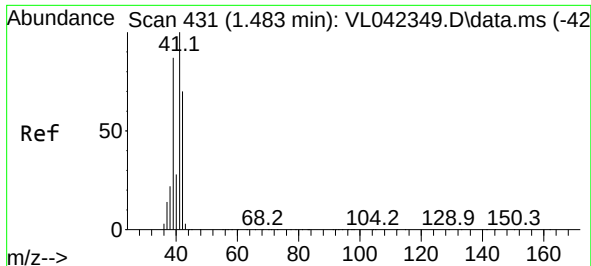


#8  
Dichlorotetrafluoroethane  
Concen: 1.022 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion: 85 Resp: 19251  
Ion Ratio Lower Upper  
85 100  
135 65.2 52.2 78.2





#9

Propene

Concen: 1.040 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion: 41 Resp: 989

Ion Ratio Lower Upper

41 100

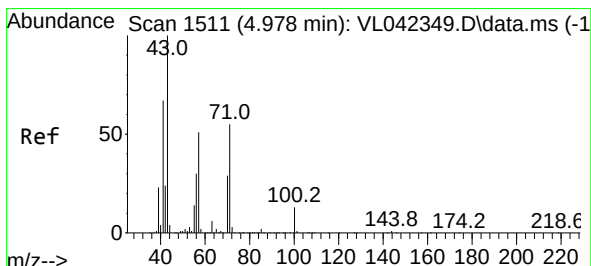
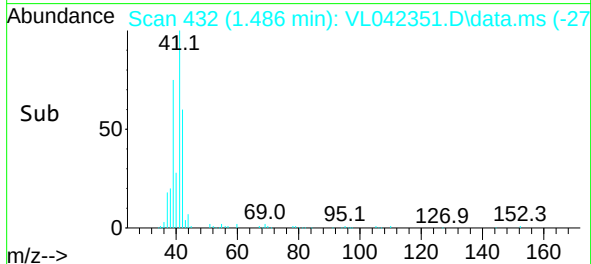
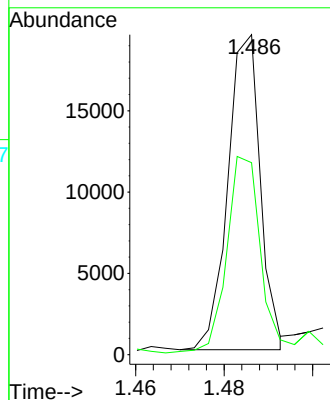
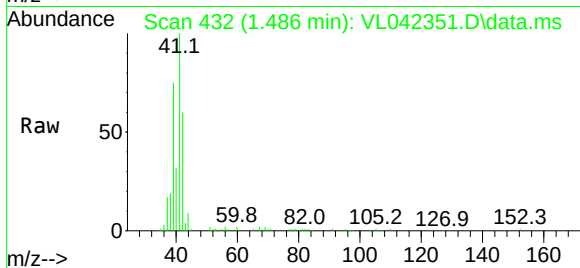
42 77.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 1.114 ppbv m

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042351.D

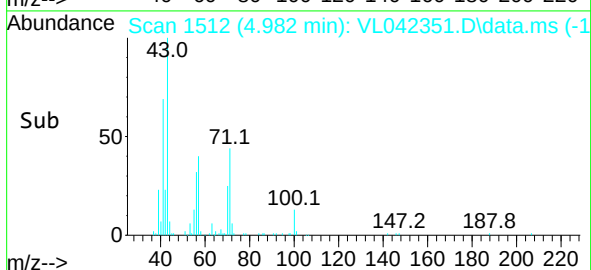
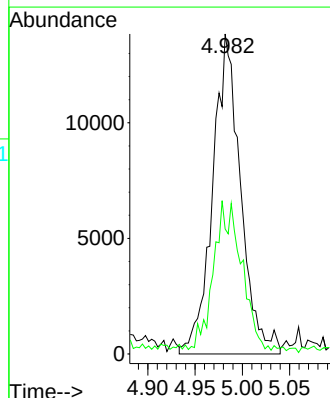
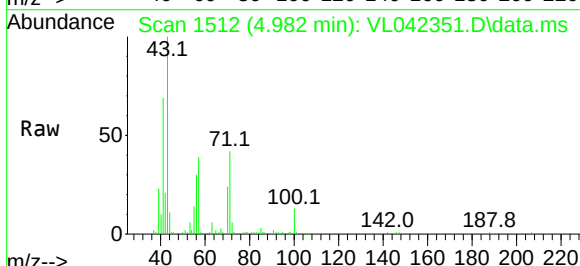
Acq: 17 Apr 2025 10:48

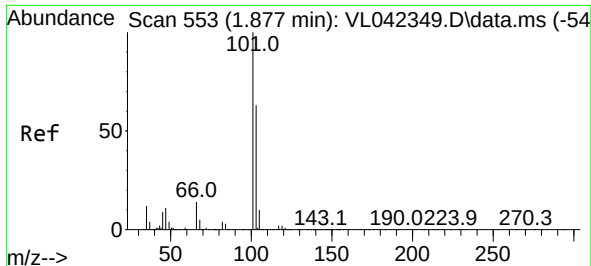
Tgt Ion: 43 Resp: 28507

Ion Ratio Lower Upper

43 100

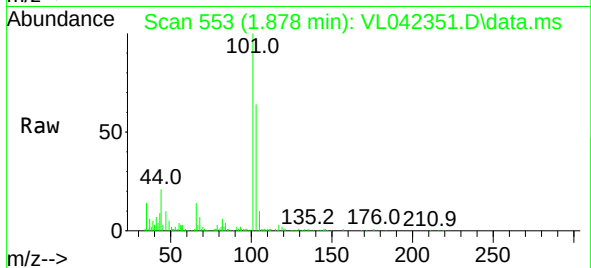
57 48.1 39.9 59.9





#11  
Trichlorofluoromethane  
Concen: 1.075 ppbv  
RT: 1.878 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

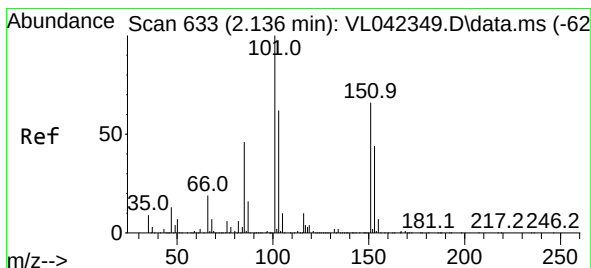
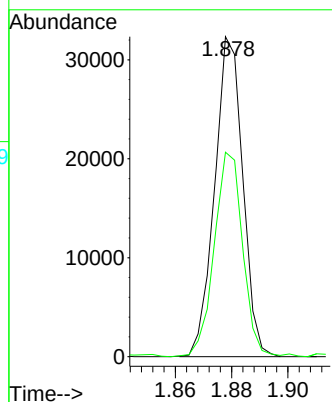
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion:101 Resp: 22428  
Ion Ratio Lower Upper  
101 100  
103 63.6 50.1 75.1

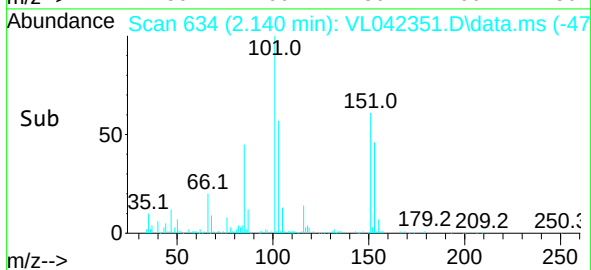
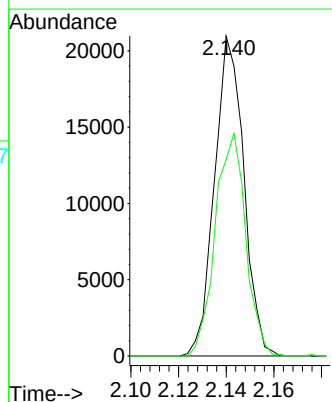
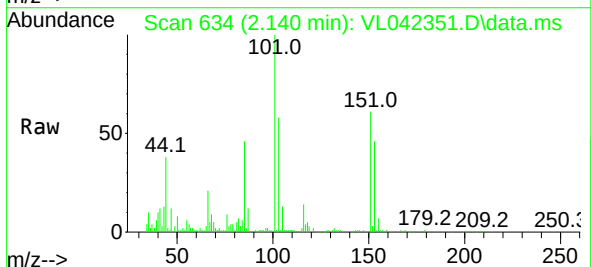
Manual Integrations  
APPROVED

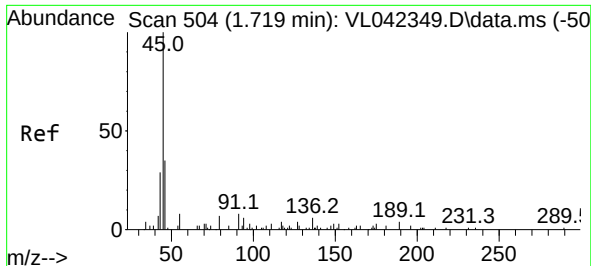
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.047 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

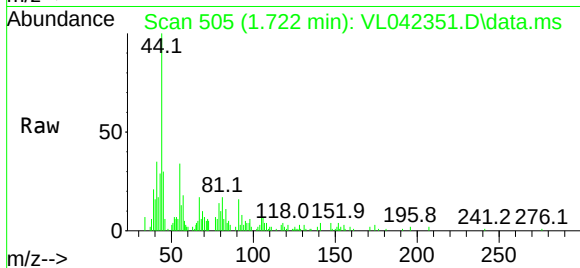
Tgt Ion:101 Resp: 17865  
Ion Ratio Lower Upper  
101 100  
151 72.6 57.0 85.6





#13  
Ethanol  
Concen: 2.225 ppbv m  
RT: 1.722 min Scan# 504  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

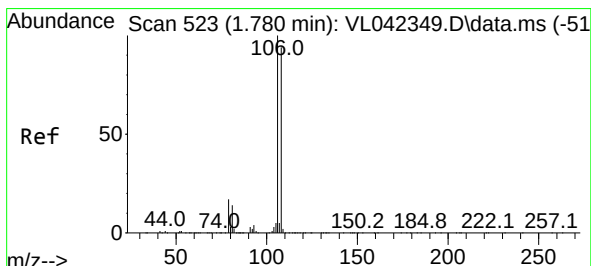
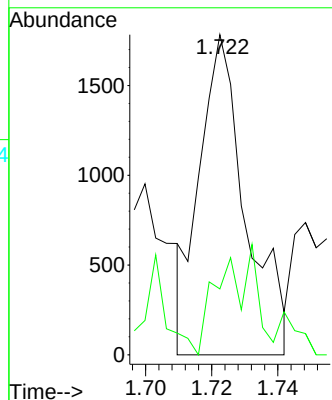
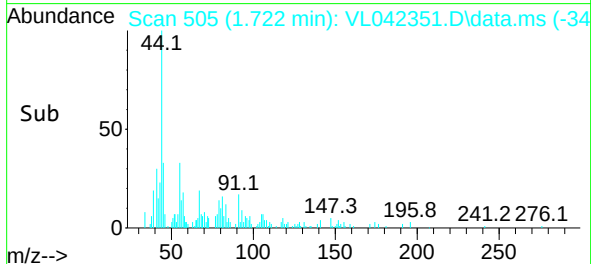
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



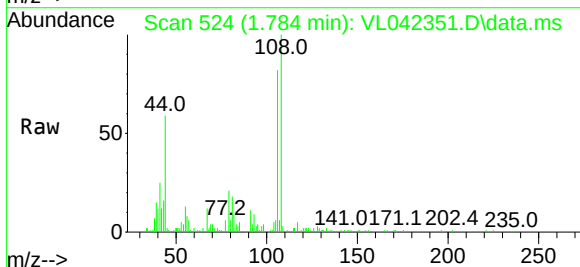
Tgt Ion: 45 Resp: 1730  
Ion Ratio Lower Upper  
45 100  
46 44.9 21.9 87.7

Manual Integrations  
APPROVED

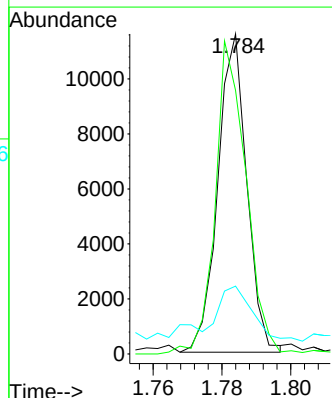
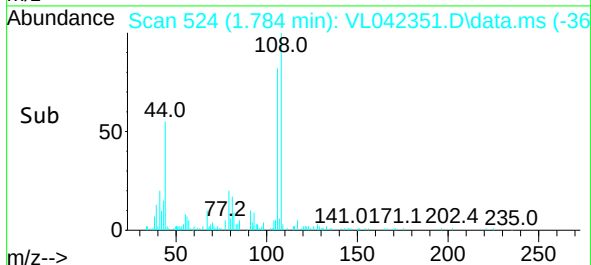
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



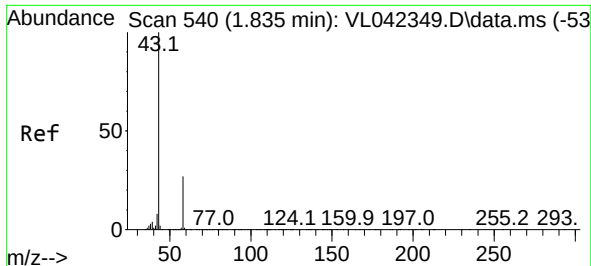
#14  
Bromoethene  
Concen: 1.052 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion:108 Resp: 6766  
Ion Ratio Lower Upper  
108 100  
106 104.7 85.9 128.9  
79 45.4 13.9 20.9

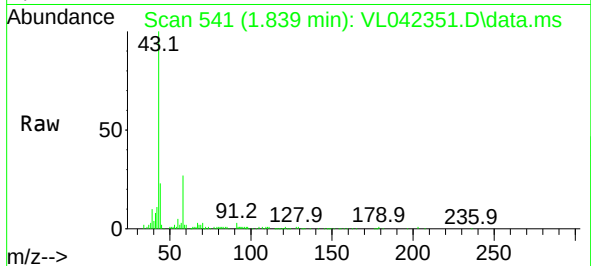






#15  
Acetone  
Concen: 1.158 ppbv  
RT: 1.839 min Scan# 540  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

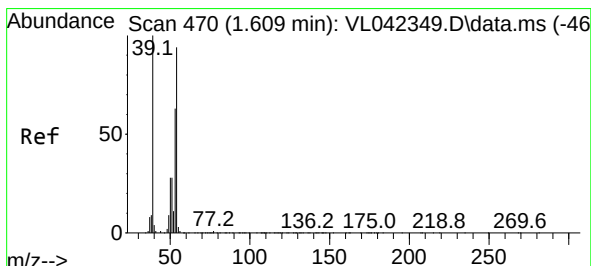
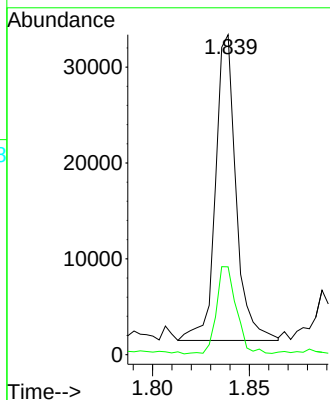
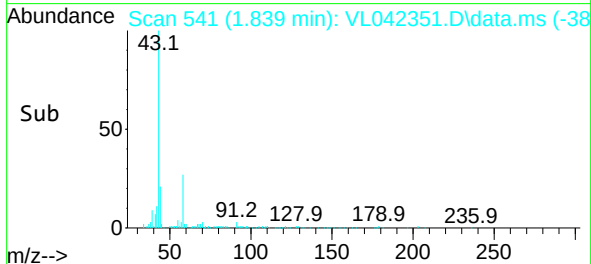
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



Tgt Ion: 43 Resp: 2353  
Ion Ratio Lower Upper  
43 100  
58 29.4 22.4 33.6

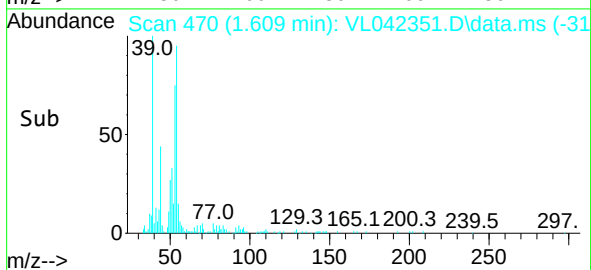
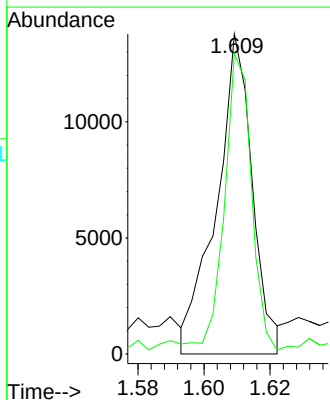
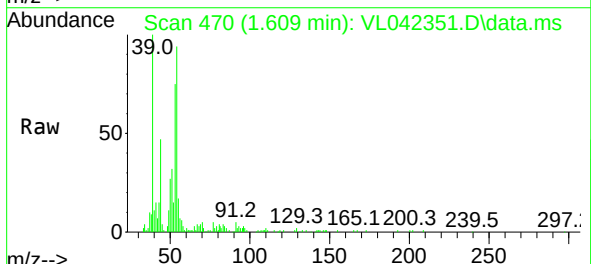
Manual Integrations  
APPROVED

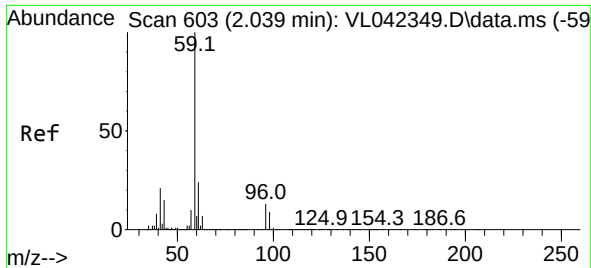
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#16  
1,3-Butadiene  
Concen: 1.087 ppbv m  
RT: 1.609 min Scan# 470  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 39 Resp: 10377  
Ion Ratio Lower Upper  
39 100  
54 71.0 64.9 97.3





#17

tert-Butyl alcohol

Concen: 1.051 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 59 Resp: 2647

Ion Ratio Lower Upper

59 100

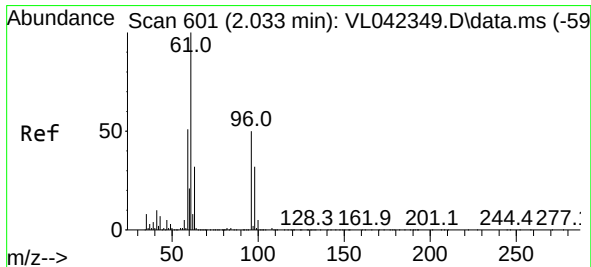
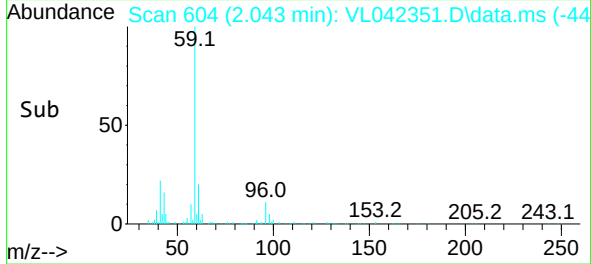
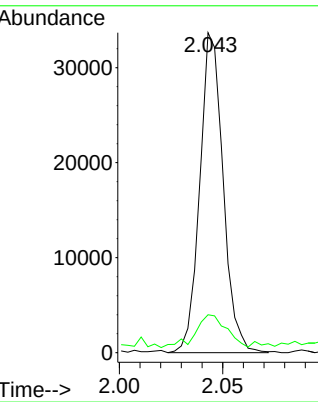
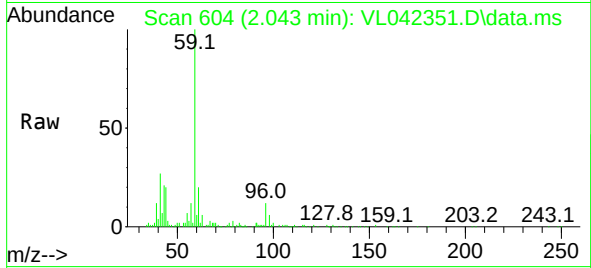
57 14.6 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 0.962 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

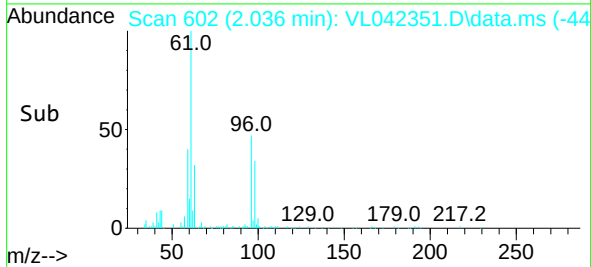
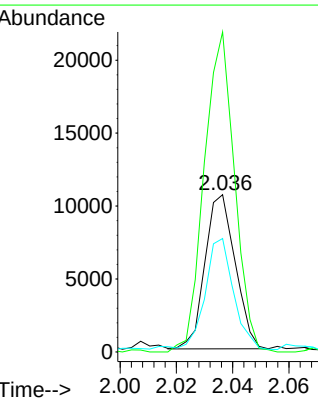
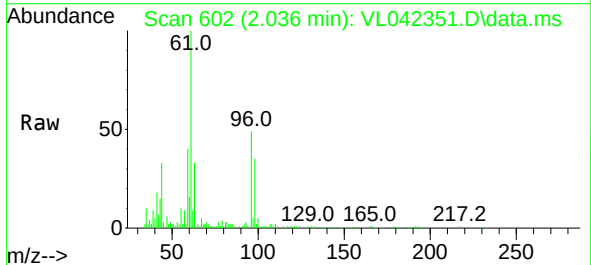
Tgt Ion: 96 Resp: 7890

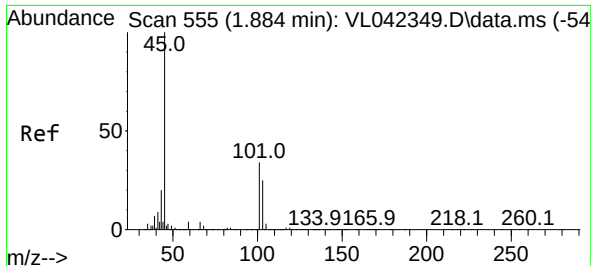
Ion Ratio Lower Upper

96 100

61 207.8 160.2 240.2

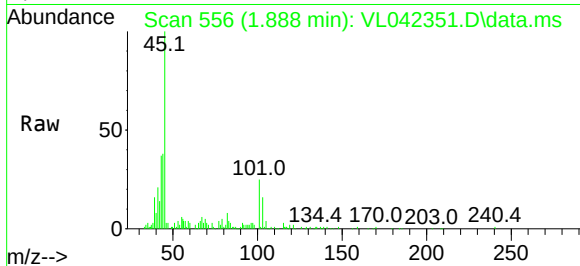
98 71.9 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 1.078 ppbv  
RT: 1.888 min Scan# 511  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

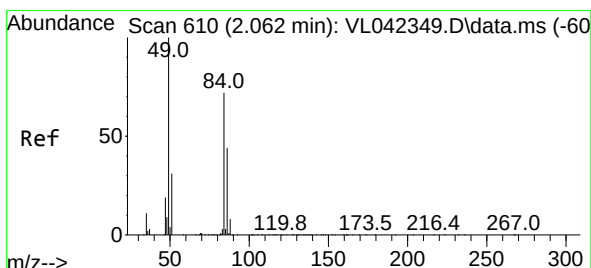
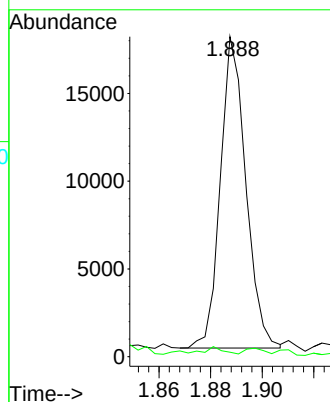
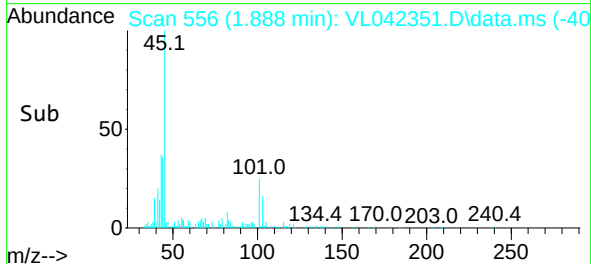
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



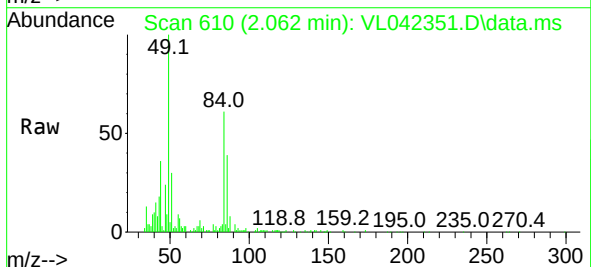
Tgt Ion: 45 Resp: 12175  
Ion Ratio Lower Upper  
45 100  
58 3.8 34.5 51.75

Manual Integrations  
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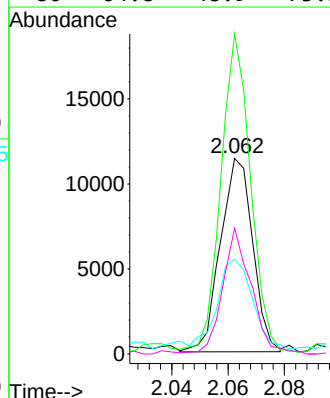
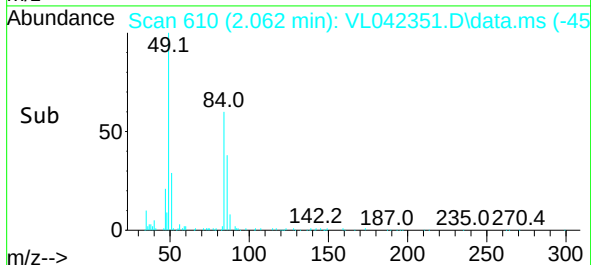
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

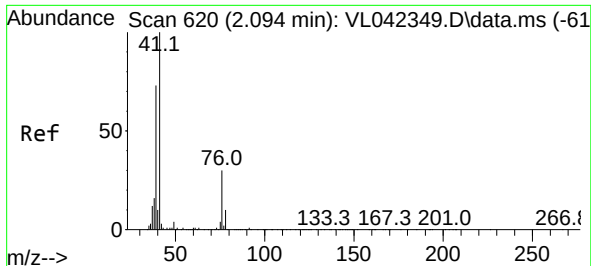


#20  
Methylene Chloride  
Concen: 1.136 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



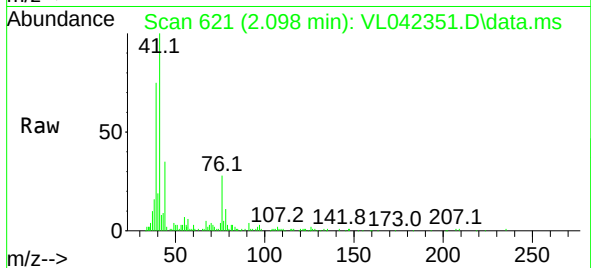
Tgt Ion: 84 Resp: 9046  
Ion Ratio Lower Upper  
84 100  
49 164.4 111.6 167.4  
51 44.4 35.1 52.7  
86 64.8 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 1.073 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

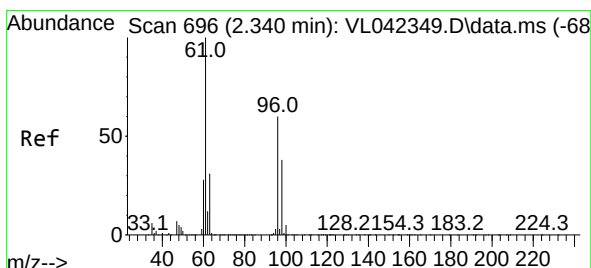
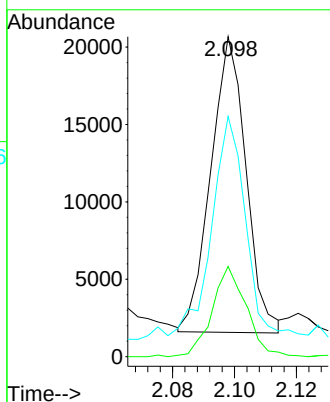
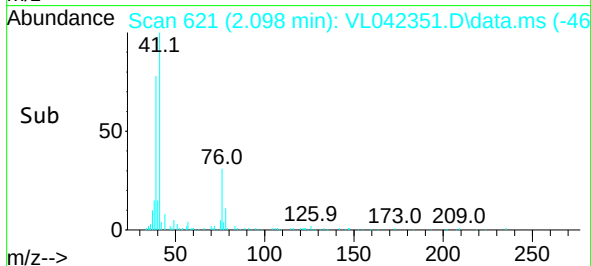
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion: 41 Resp: 1505  
 Ion Ratio Lower Upper  
 41 100  
 76 29.8 24.8 37.2  
 39 86.1 60.6 90.8

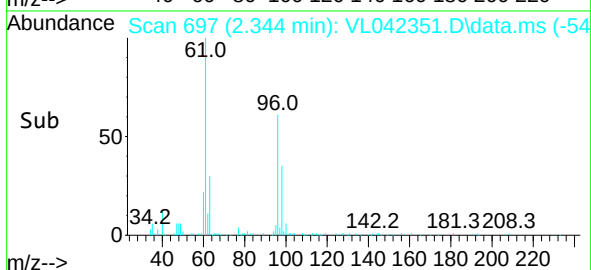
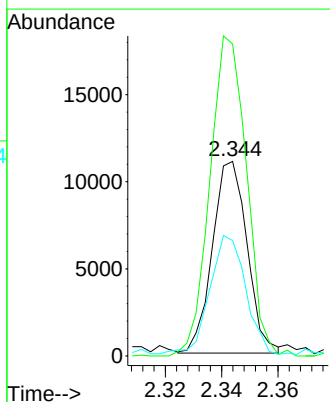
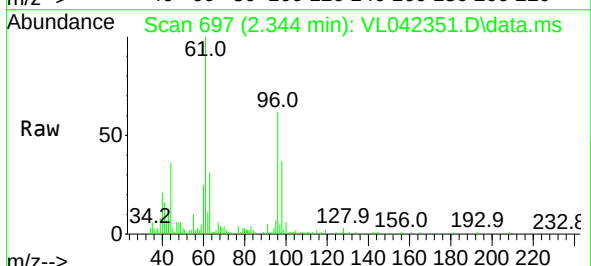
Manual Integrations  
 APPROVED

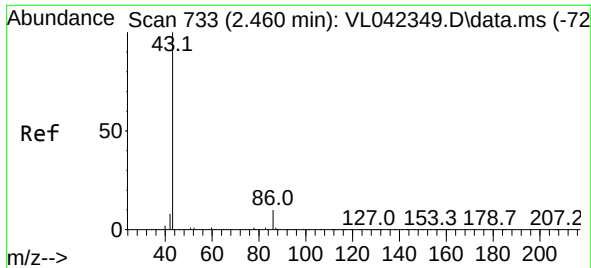
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.038 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

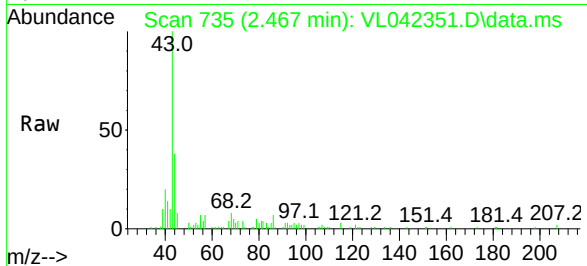
Tgt Ion: 96 Resp: 9421  
 Ion Ratio Lower Upper  
 96 100  
 61 161.7 133.7 200.5  
 98 59.8 50.3 75.5





#23  
 Vinyl Acetate  
 Concen: 1.122 ppbv  
 RT: 2.467 min Scan# 717  
 Delta R.T. 0.007 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

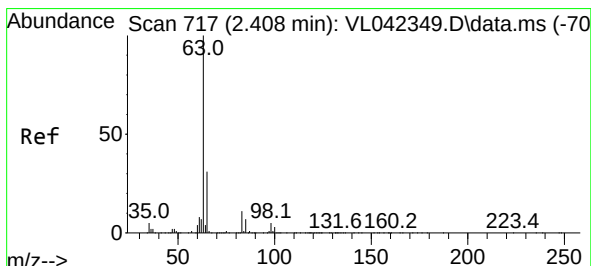
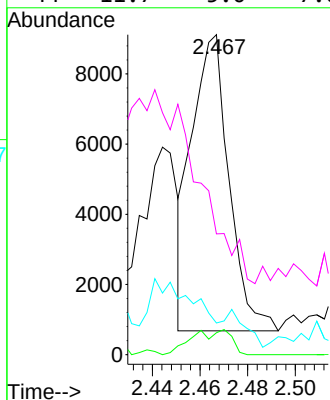
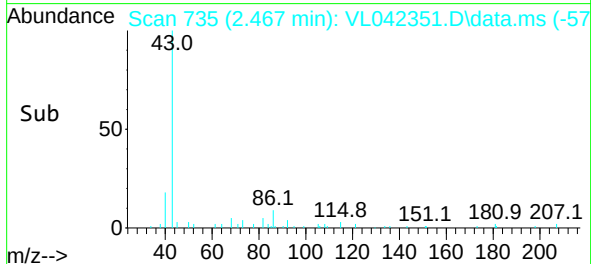
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001



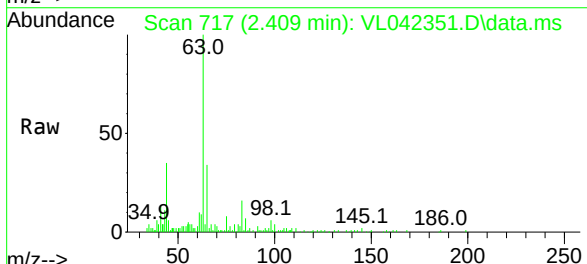
Tgt Ion: 43 Resp: 9234  
 Ion Ratio Lower Upper  
 43 100  
 86 7.4 6.5 9.7  
 42 4.6 7.8 11.8  
 44 11.7 5.0 7.6#

Manual Integrations  
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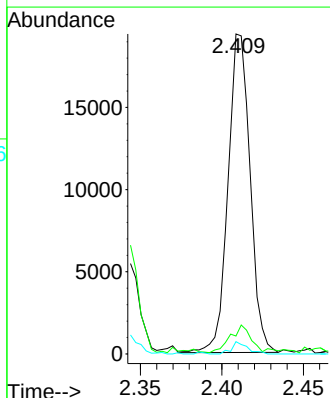
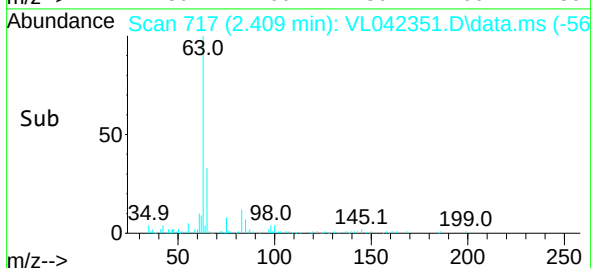
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

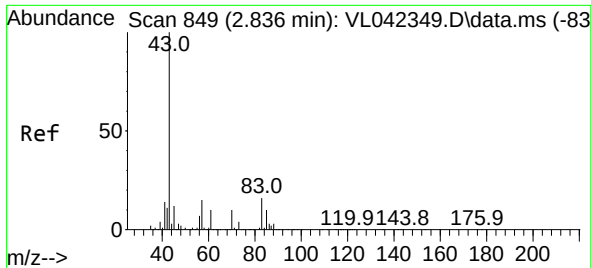


#24  
 1,1-Dichloroethane  
 Concen: 1.058 ppbv  
 RT: 2.409 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48



Tgt Ion: 63 Resp: 18236  
 Ion Ratio Lower Upper  
 63 100  
 98 4.7 2.3 6.8  
 100 3.9 1.6 4.8





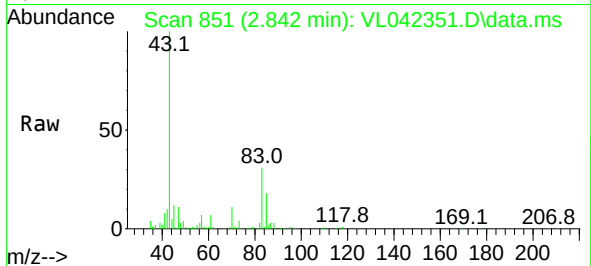
#25  
Ethyl Acetate  
Concen: 1.027 ppbv  
RT: 2.842 min Scan# 849  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

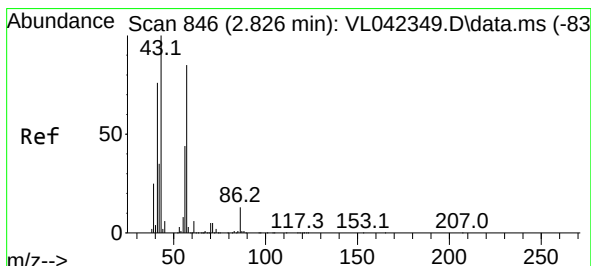
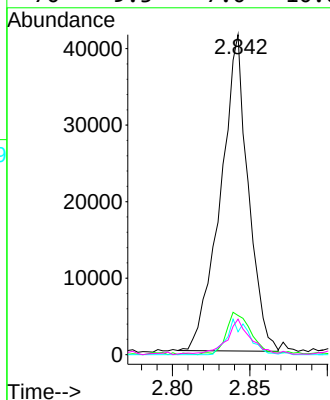
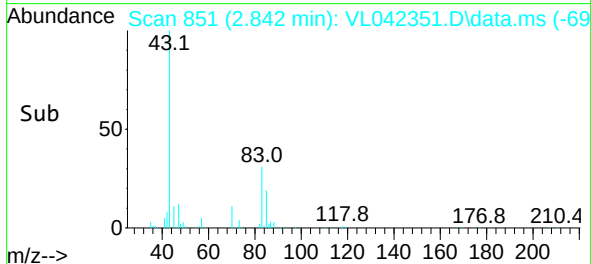


Tgt Ion: 43 Resp: 51494  
Ion Ratio Lower Upper  
43 100  
45 13.1 8.3 12.5  
61 9.0 7.3 10.9  
70 9.3 7.0 10.6

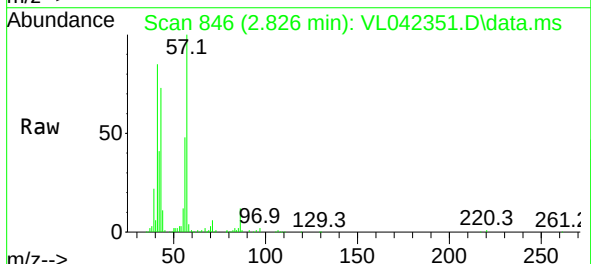
Manual Integrations

APPROVED

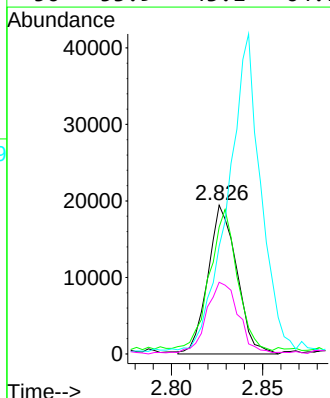
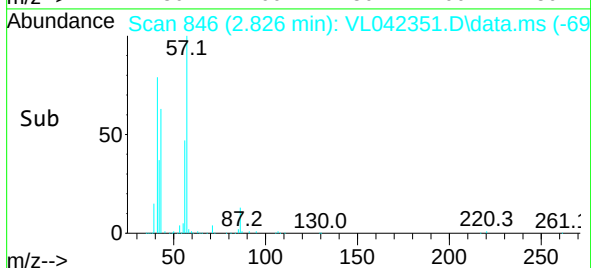
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

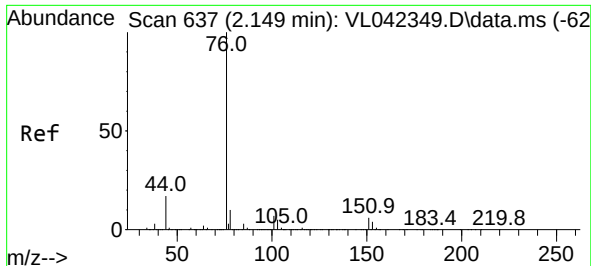


#26  
Hexane  
Concen: 1.053 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion: 57 Resp: 21350  
Ion Ratio Lower Upper  
57 100  
41 95.3 77.9 116.9  
43 247.5 208.4 312.6  
56 53.9 43.1 64.7





#27

Carbon Disulfide

Concen: 0.955 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

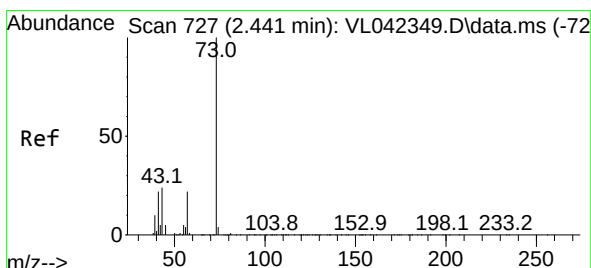
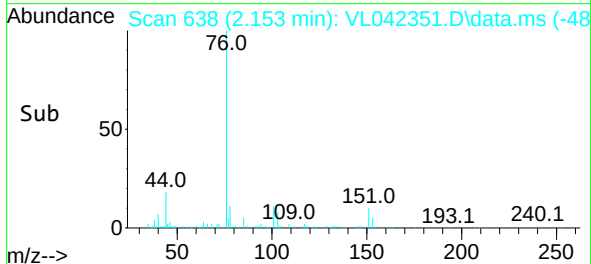
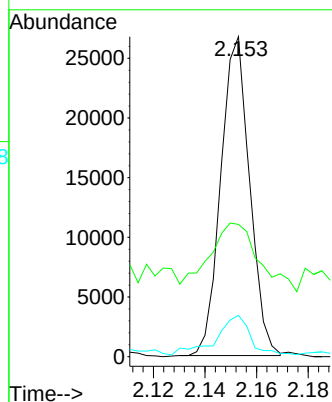
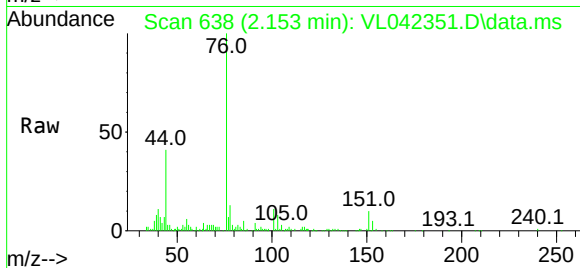
VSTDICC001

Tgt Ion: 76 Resp: 20739  
 Ion Ratio Lower Upper  
 76 100  
 44 93.1 15.5 23.3  
 78 19.8 9.3 13.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

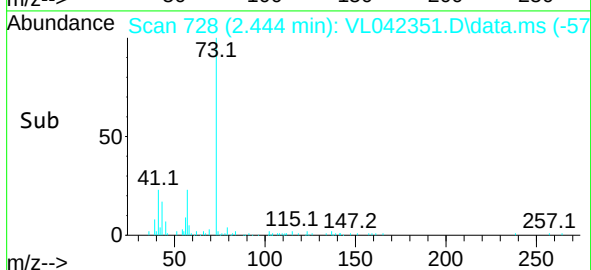
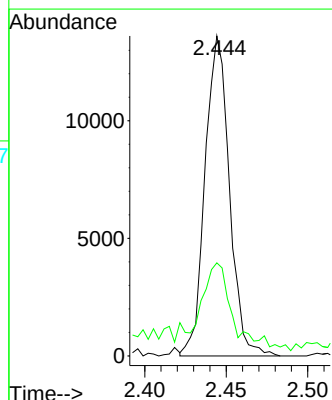
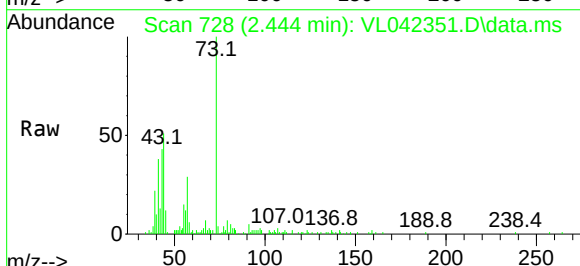
RT: 2.444 min Scan# 728

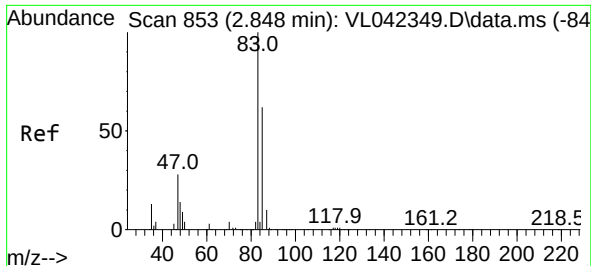
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164  
 Ion Ratio Lower Upper  
 73 100  
 57 34.2 21.3 31.9





#29

Chloroform

Concen: 1.011 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2897

Ion Ratio Lower Upper

83 100

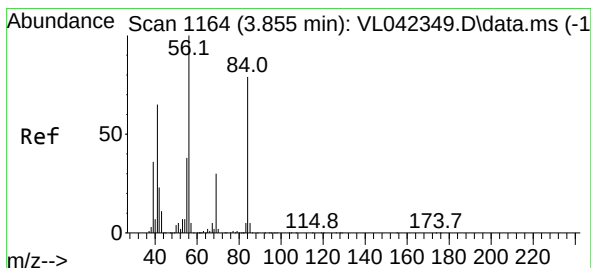
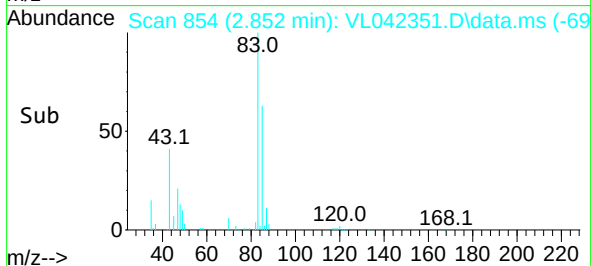
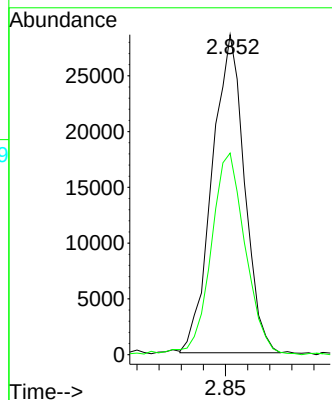
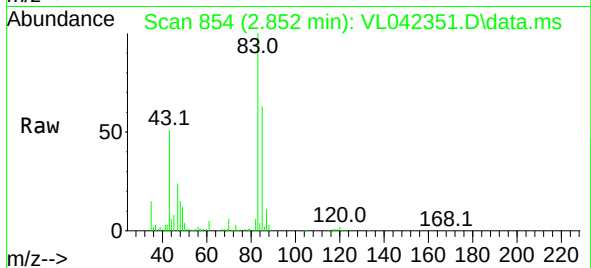
85 62.6 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 1.013 ppbv m

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

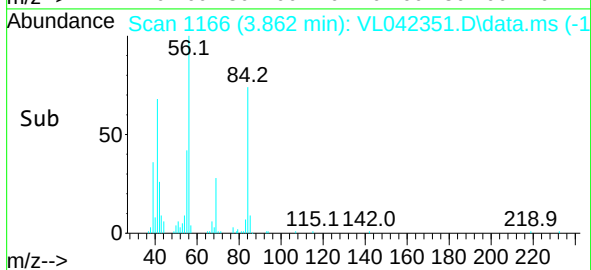
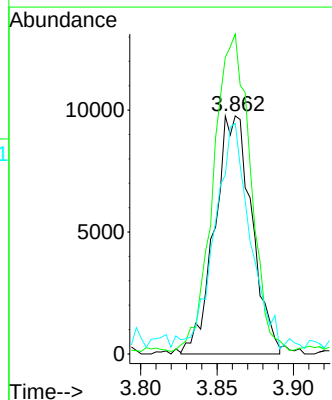
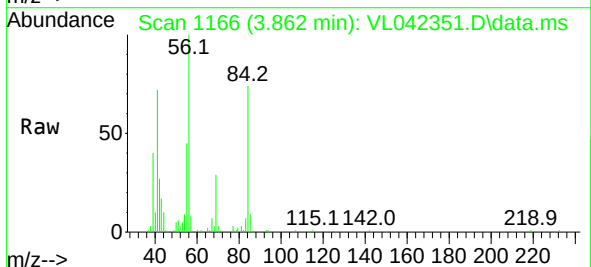
Tgt Ion: 84 Resp: 16547

Ion Ratio Lower Upper

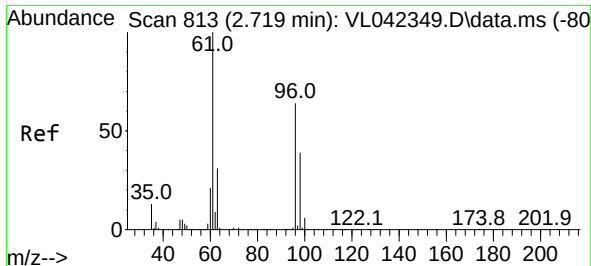
84 100

56 134.2 101.0 151.4

41 85.1 67.4 101.0

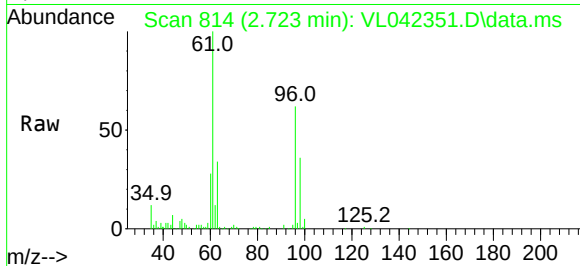






#31  
 cis-1,2-Dichloroethene  
 Concen: 1.032 ppbv  
 RT: 2.723 min Scan# 813  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

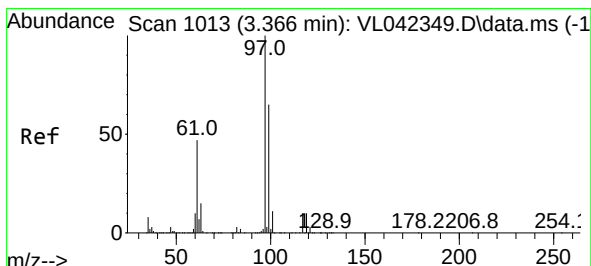
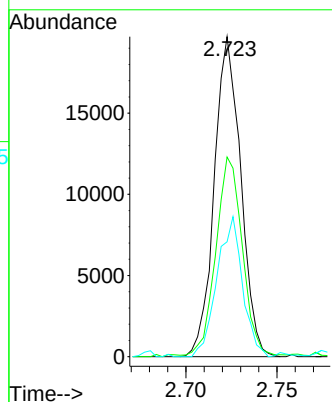
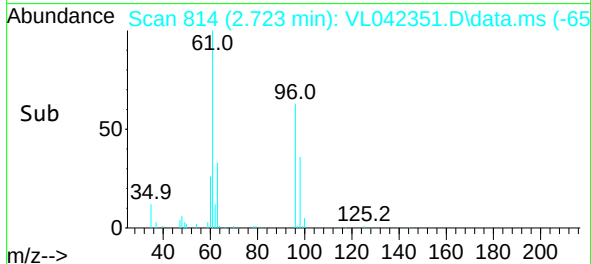
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



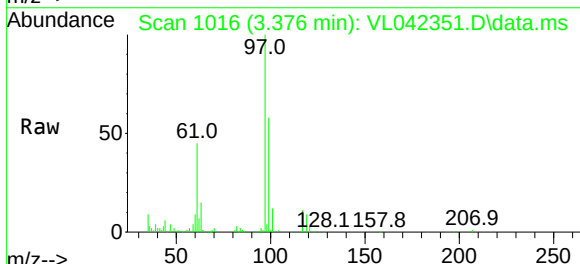
Tgt Ion: 61 Resp: 19904  
 Ion Ratio Lower Upper  
 61 100  
 96 61.9 50.8 76.2  
 98 35.9 30.9 46.3

Manual Integrations  
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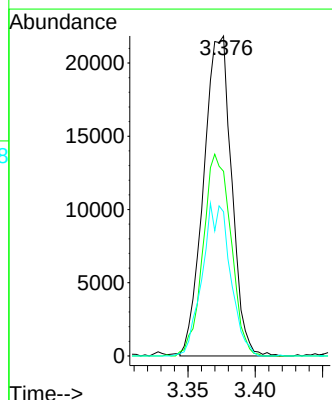
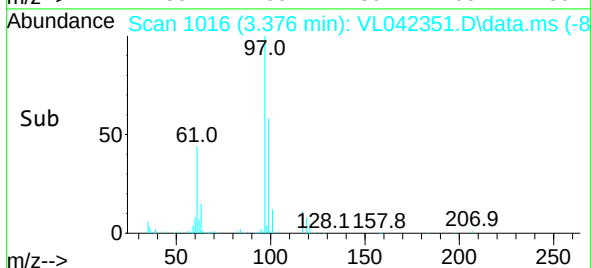
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

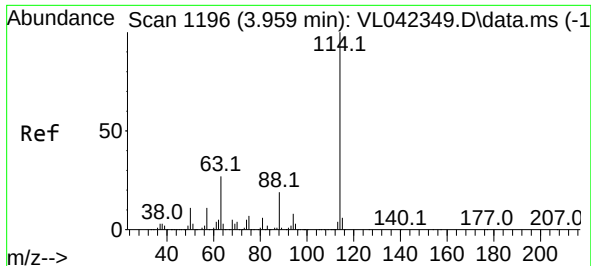


#32  
 1,1,1-Trichloroethane  
 Concen: 1.030 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.010 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48



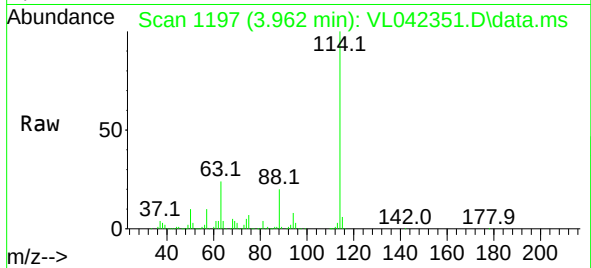
Tgt Ion: 97 Resp: 31653  
 Ion Ratio Lower Upper  
 97 100  
 99 62.4 51.0 76.4  
 61 47.6 38.8 58.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

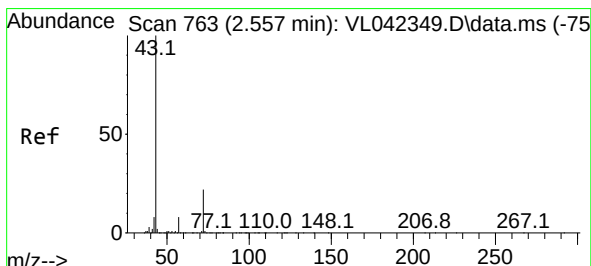
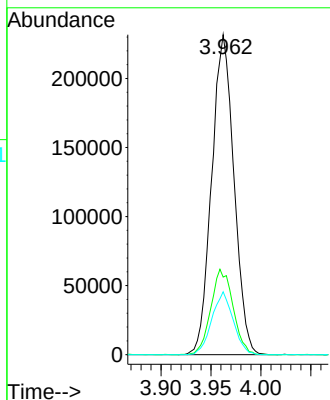
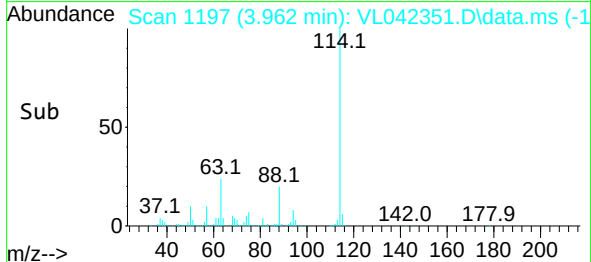
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion:114 Resp: 35990  
Ion Ratio Lower Upper  
114 100  
63 26.7 21.8 32.6  
88 18.8 15.5 23.3

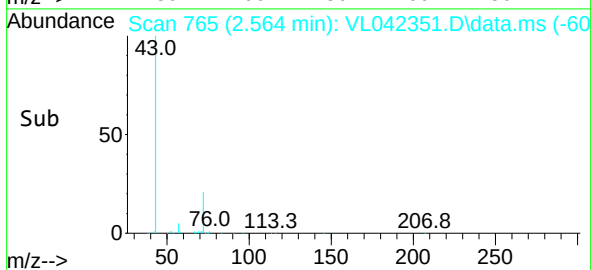
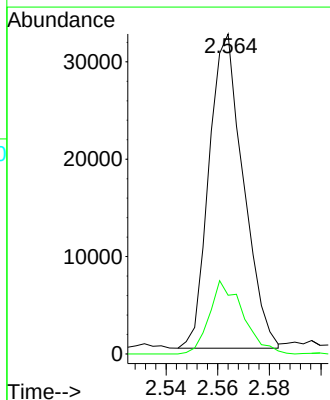
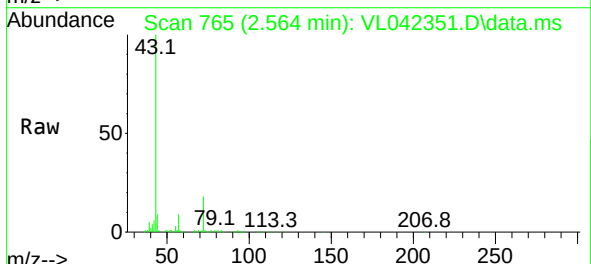
Manual Integrations  
APPROVED

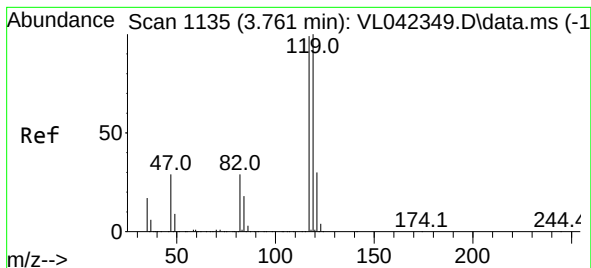
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#34  
2-Butanone  
Concen: 1.045 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735  
Ion Ratio Lower Upper  
43 100  
72 23.1 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.917 ppbv

RT: 3.768 min Scan# 1135

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

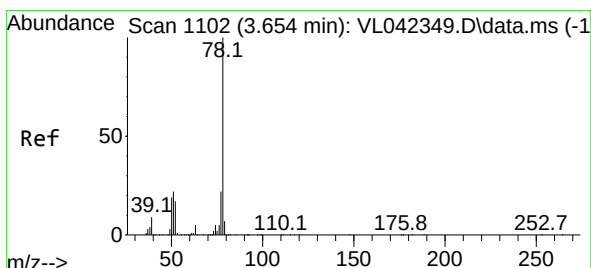
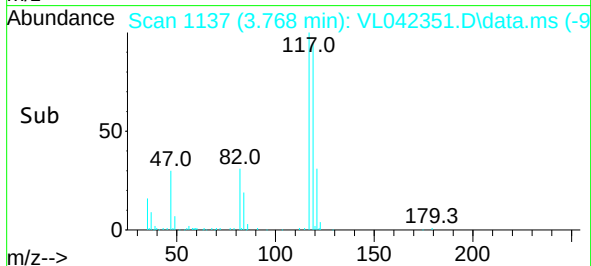
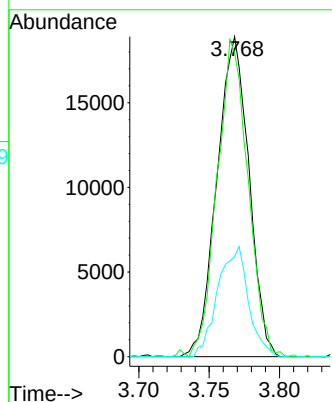
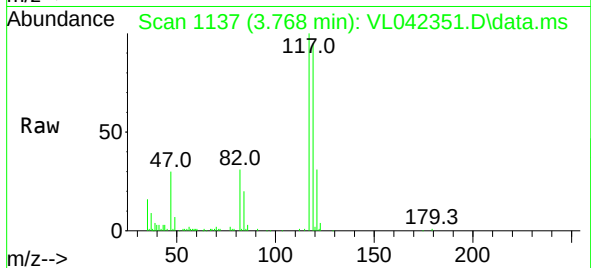
VSTDIC001

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:117 | Resp: | 2987       |
| Ion Ratio   | Lower | Upper      |
| 117         | 100   |            |
| 119         | 93.3  | 80.5 120.7 |
| 121         | 31.3  | 24.2 36.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.997 ppbv

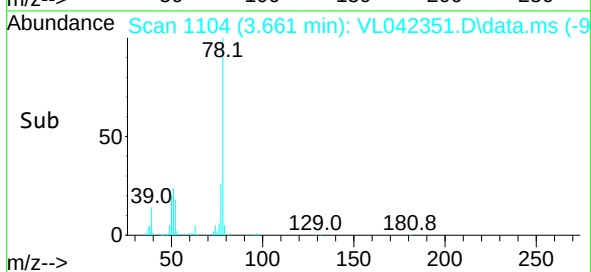
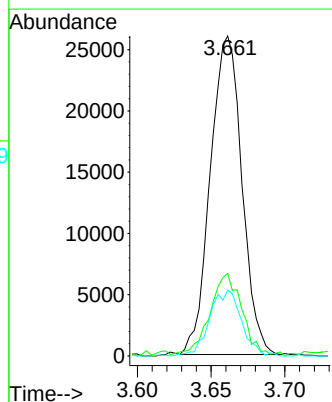
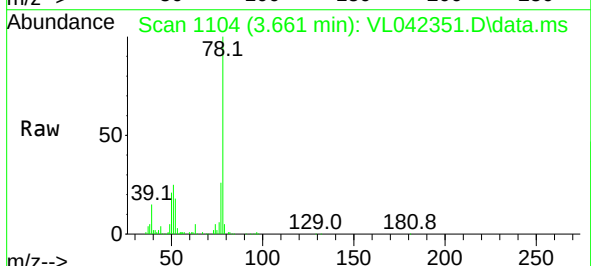
RT: 3.661 min Scan# 1104

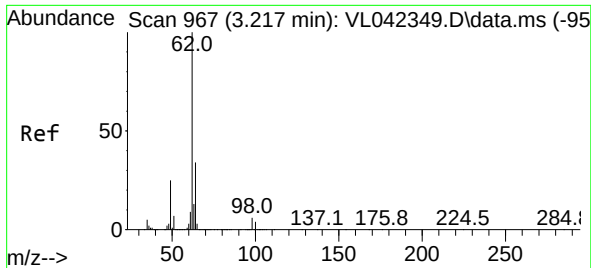
Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 78 | Resp: | 38707     |
| Ion Ratio   | Lower | Upper     |
| 78          | 100   |           |
| 77          | 24.7  | 17.4 26.0 |
| 50          | 20.7  | 15.5 23.3 |





#37

1,2-Dichloroethane

Concen: 0.999 ppbv

RT: 3.224 min Scan# 967

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 23284

Ion Ratio Lower Upper

62 100

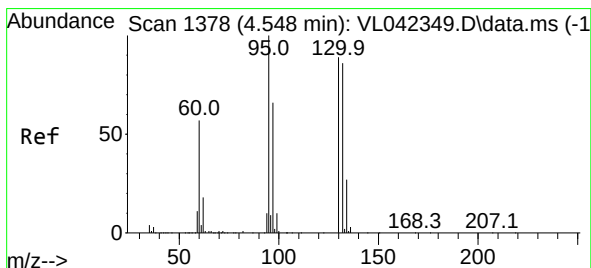
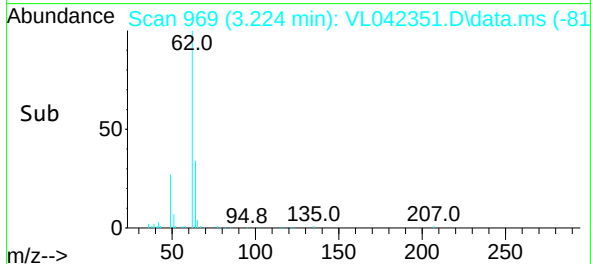
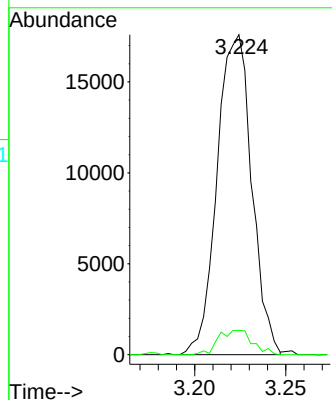
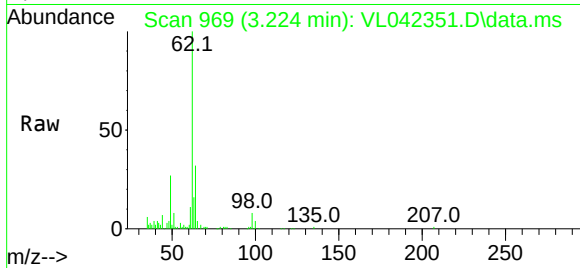
98 7.5 5.1 7.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.947 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

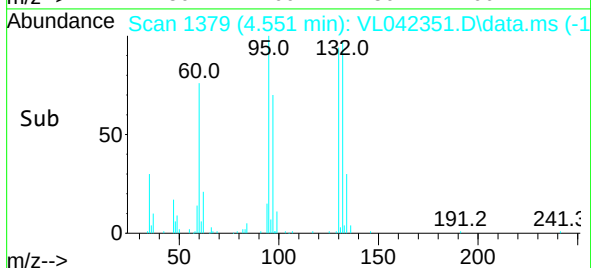
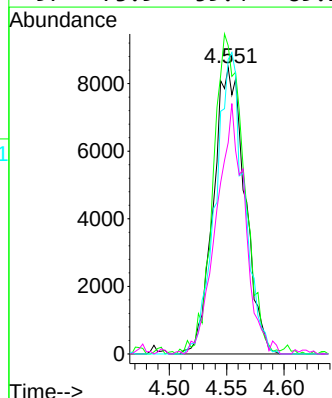
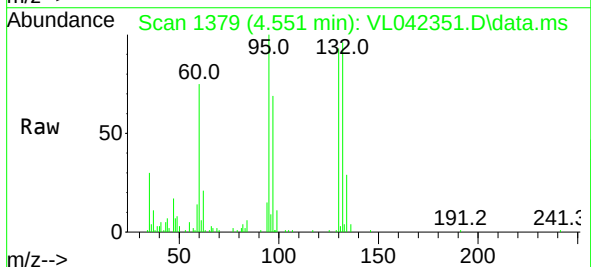
Ion Ratio Lower Upper

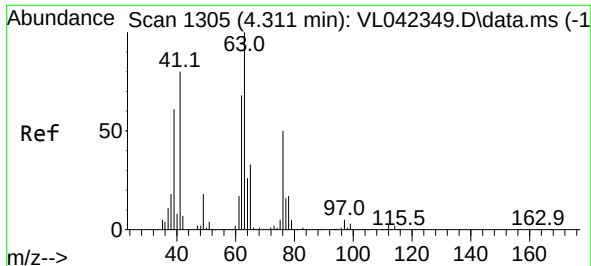
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.318 min Scan# 1305

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

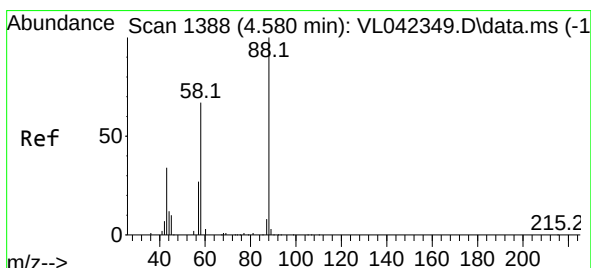
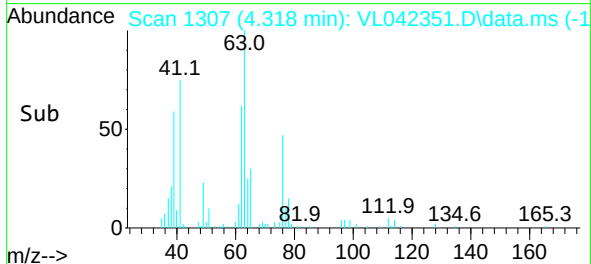
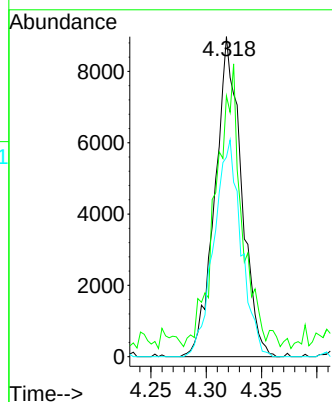
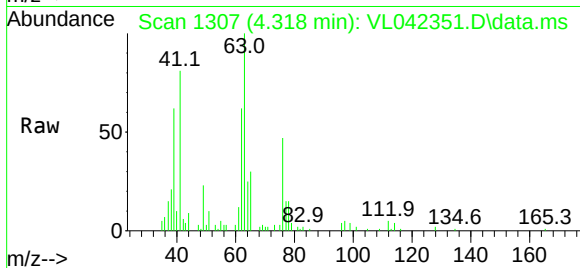
VSTDICC001

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 1486  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 78.3     | 64.2 96.2   |
| 62 62.3     | 54.3 81.5   |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 1.114 ppbv m

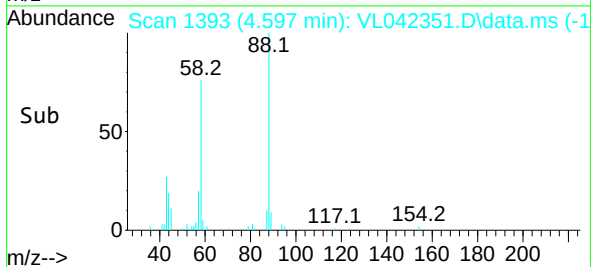
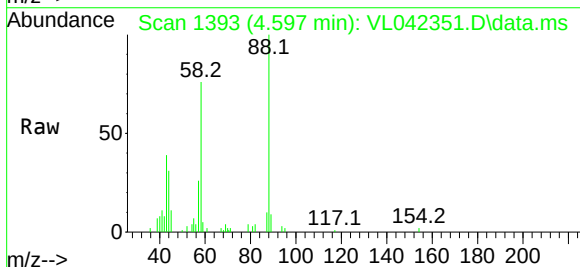
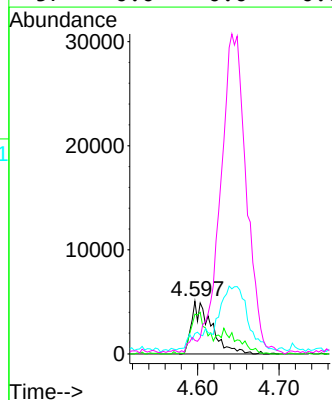
RT: 4.597 min Scan# 1393

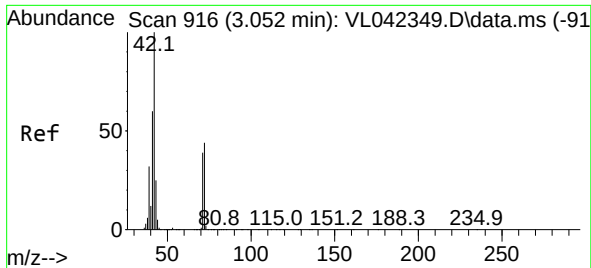
Delta R.T. 0.017 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 8737  |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 58 110.6    | 61.4 92.0#  |
| 43 0.0      | 23.2 34.8#  |
| 57 0.0      | 0.0 0.0     |





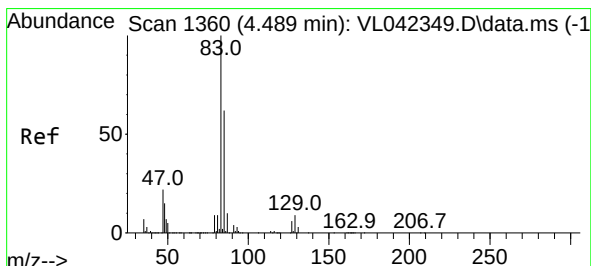
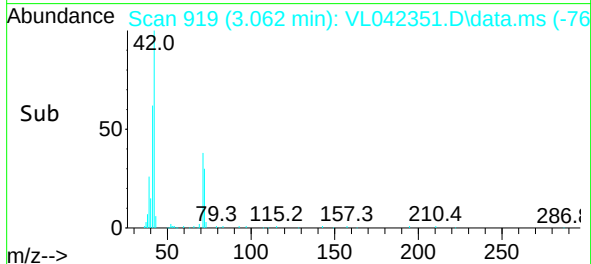
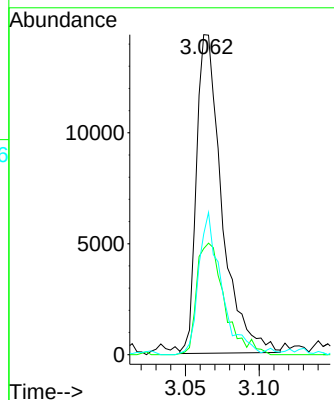
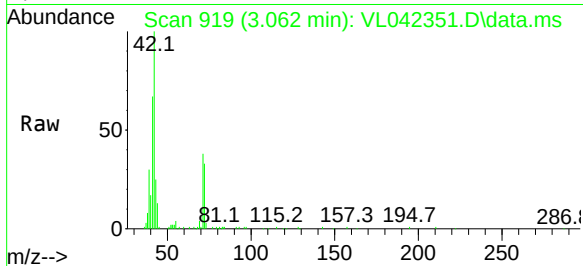
#41  
Tetrahydrofuran  
Concen: 1.049 ppbv  
RT: 3.062 min Scan# 916  
Delta R.T. 0.010 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 42 Resp: 17259  
Ion Ratio Lower Upper  
42 100  
72 38.1 32.3 48.5  
71 42.3 31.4 47.2

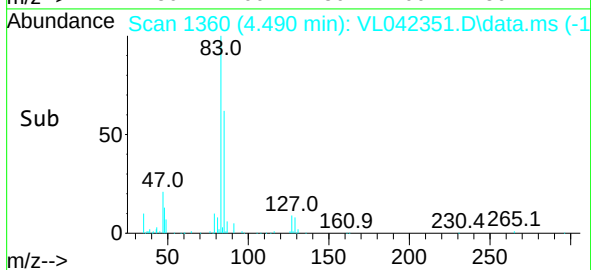
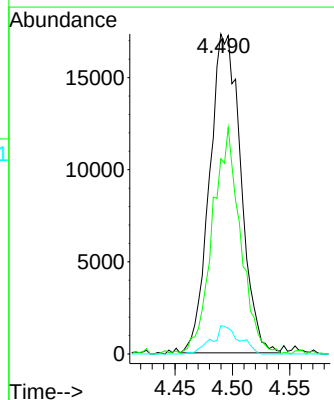
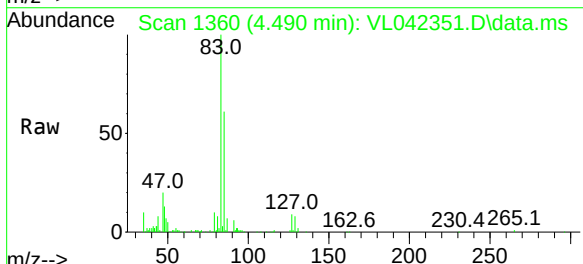
Manual Integrations  
APPROVED

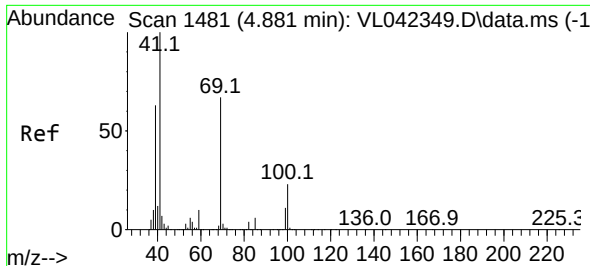
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#42  
Bromodichloromethane  
Concen: 1.009 ppbv  
RT: 4.490 min Scan# 1360  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

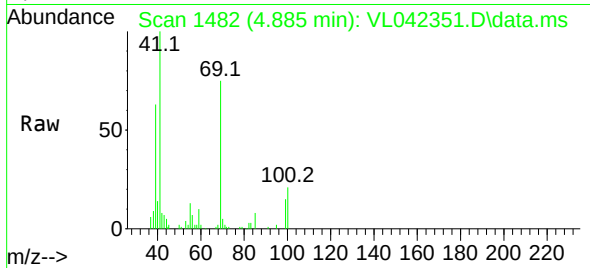
Tgt Ion: 83 Resp: 32721  
Ion Ratio Lower Upper  
83 100  
85 61.2 49.7 74.5  
127 8.9 5.1 7.7#





#43  
Methyl Methacrylate  
Concen: 1.073 ppbv m  
RT: 4.885 min Scan# 1481  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

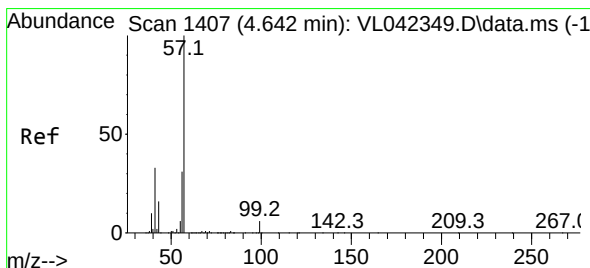
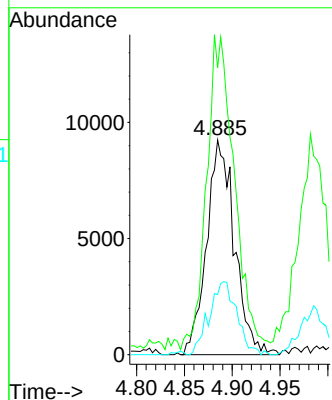
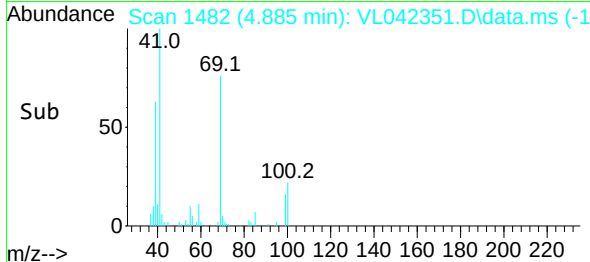
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



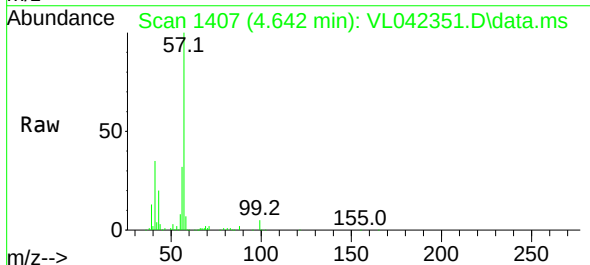
Tgt Ion: 69 Resp: 18699  
Ion Ratio Lower Upper  
69 100  
41 149.3 118.6 177.8  
100 0.0 28.2 42.2

Manual Integrations  
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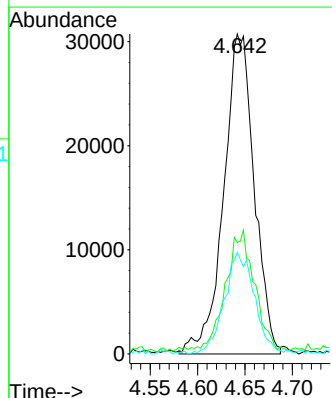
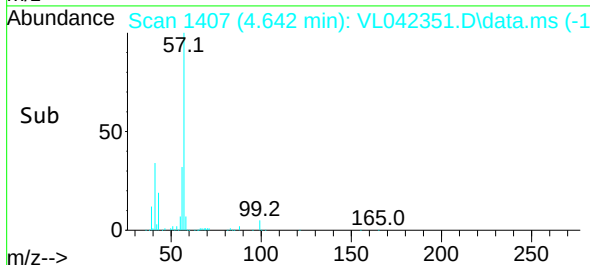
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

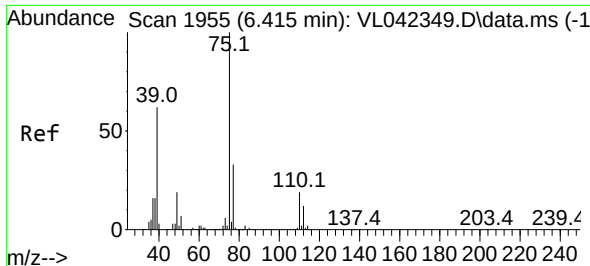


#44  
2,2,4-Trimethylpentane  
Concen: 1.027 ppbv m  
RT: 4.642 min Scan# 1407  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



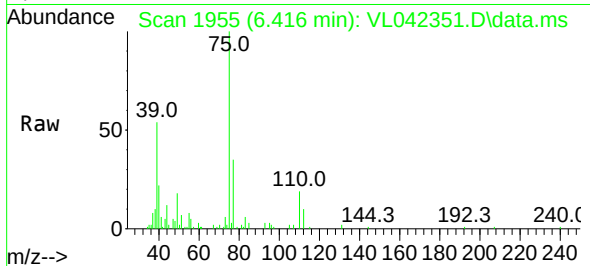
Tgt Ion: 57 Resp: 68946  
Ion Ratio Lower Upper  
57 100  
41 37.9 27.2 40.8  
56 0.0 25.7 38.5





#45  
 t-1,3-Dichloropropene  
 Concen: 1.026 ppbv m  
 RT: 6.416 min Scan# 1955  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

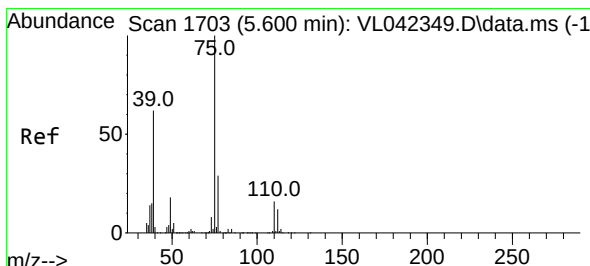
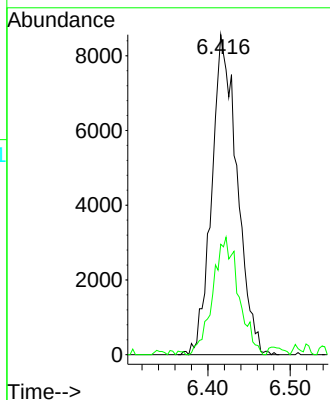
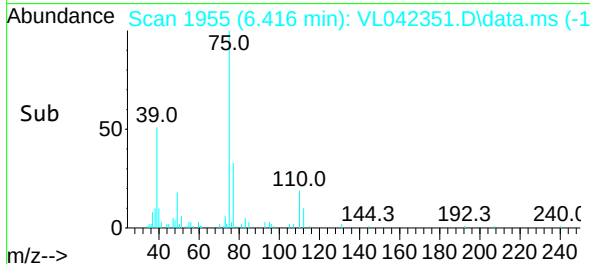
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion: 75 Resp: 1834  
 Ion Ratio Lower Upper  
 75 100  
 77 34.5 27.0 40.6

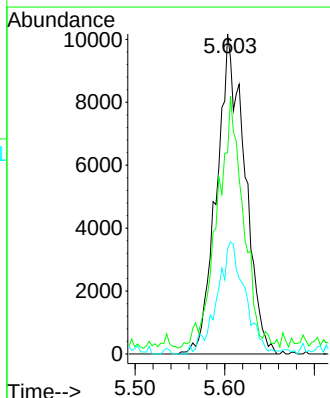
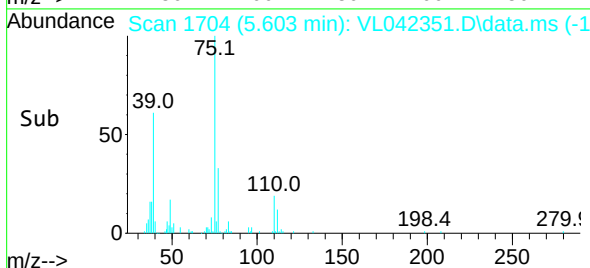
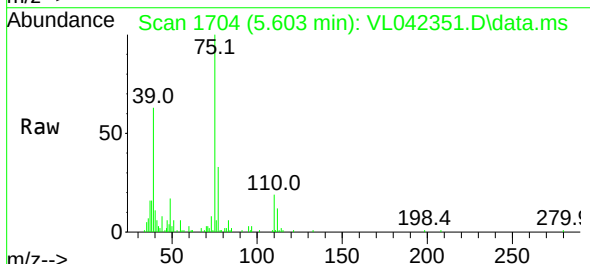
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

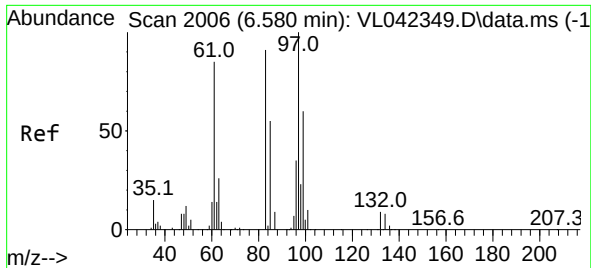


#46  
 cis-1,3-Dichloropropene  
 Concen: 1.015 ppbv m  
 RT: 5.603 min Scan# 1704  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 22189  
 Ion Ratio Lower Upper  
 75 100  
 39 62.9 50.0 75.0  
 77 32.9 23.0 34.6

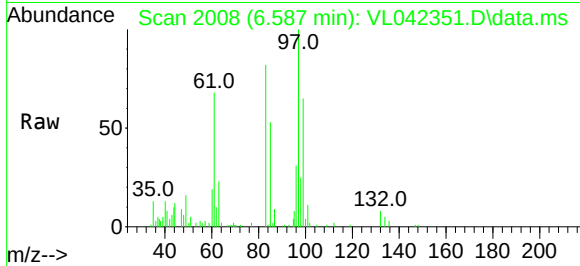






#47  
1,1,2-Trichloroethane  
Concen: 1.048 ppbv m  
RT: 6.587 min Scan# 2006  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

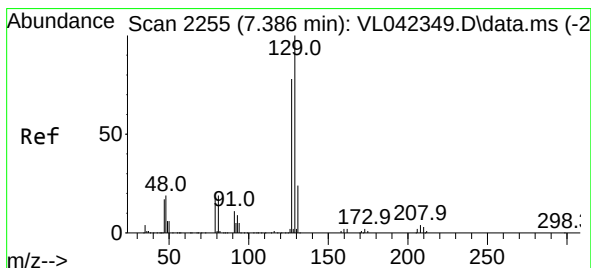
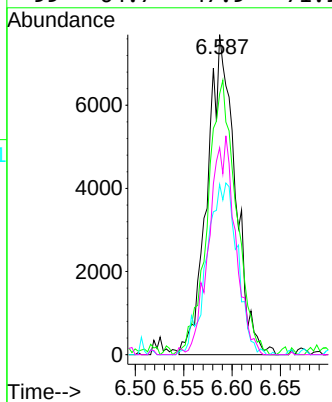
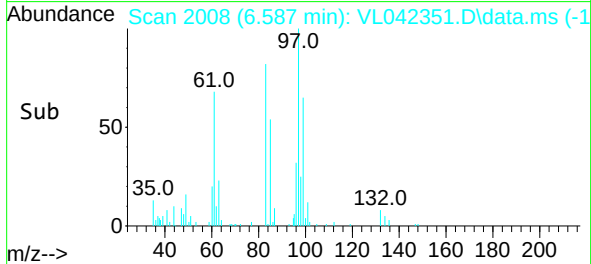
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



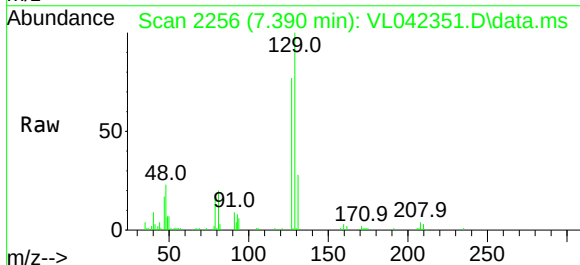
Tgt Ion: 97 Resp: 1545  
Ion Ratio Lower Upper  
97 100  
83 81.5 72.8 109.2  
85 53.2 44.2 66.4  
99 64.7 47.9 71.9

Manual Integrations  
APPROVED

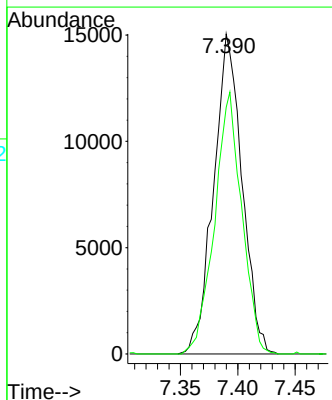
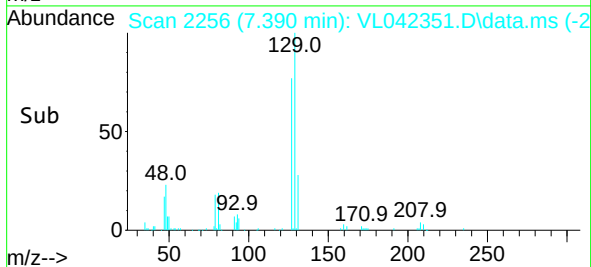
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

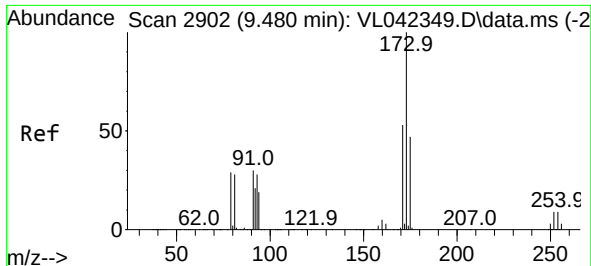


#48  
Dibromochloromethane  
Concen: 0.997 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion:129 Resp: 25948  
Ion Ratio Lower Upper  
129 100  
127 78.4 39.1 117.3





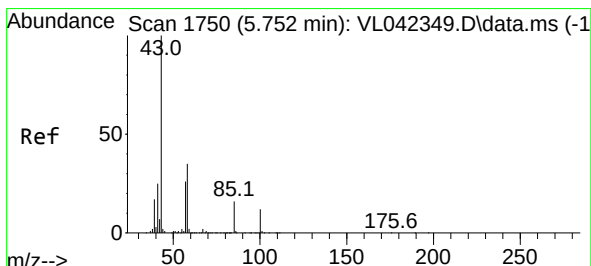
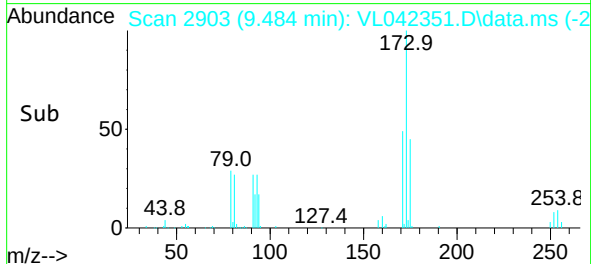
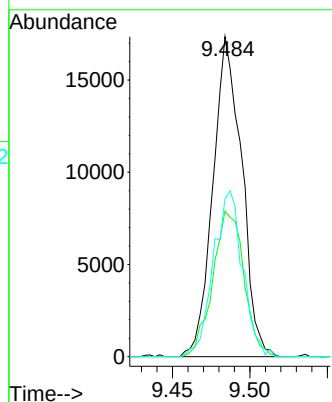
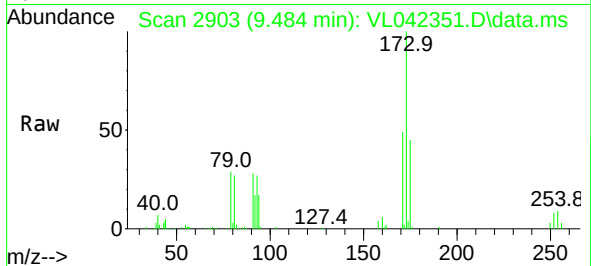
#49  
Bromoform  
Concen: 0.984 ppbv  
RT: 9.484 min Scan# 2902  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:173 Resp: 2241  
Ion Ratio Lower Upper  
173 100  
175 49.3 38.2 57.2  
171 52.7 40.9 61.3

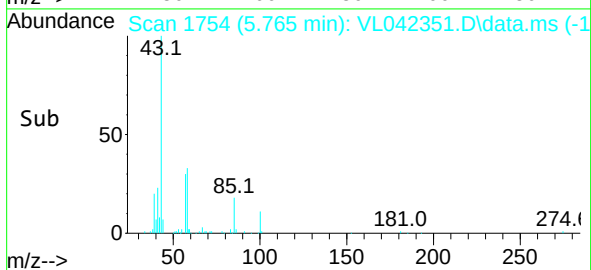
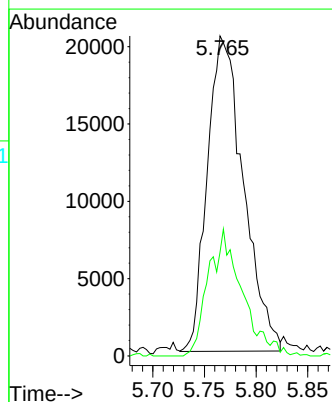
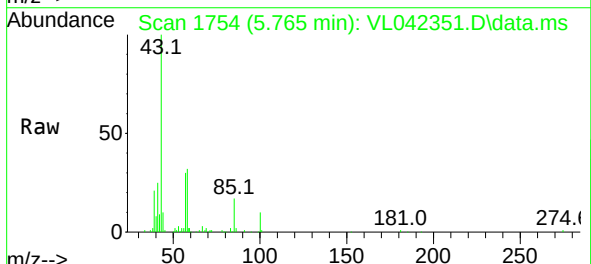
Manual Integrations  
APPROVED

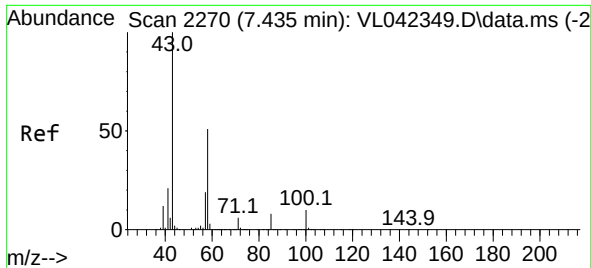
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#50  
4-Methyl-2-Pentanone  
Concen: 1.049 ppbv  
RT: 5.765 min Scan# 1754  
Delta R.T. 0.013 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725  
Ion Ratio Lower Upper  
43 100  
58 37.7 28.6 43.0





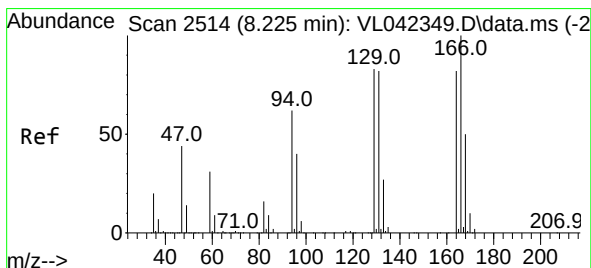
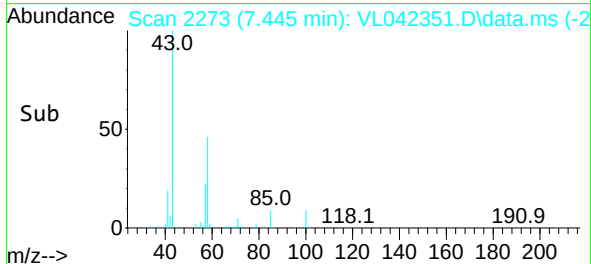
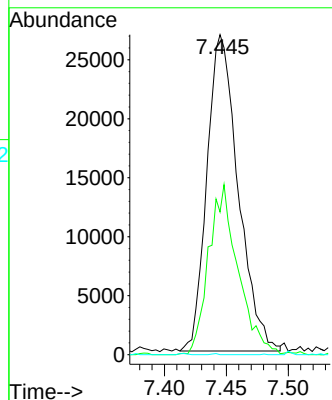
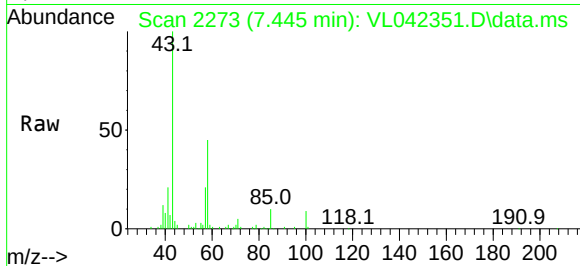
#51  
2-Hexanone  
Concen: 1.103 ppbv  
RT: 7.445 min Scan# 2115  
Delta R.T. 0.010 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 43 Resp: 47178  
Ion Ratio Lower Upper  
43 100  
58 50.8 40.2 60.4  
98 0.1 0.1 0.1

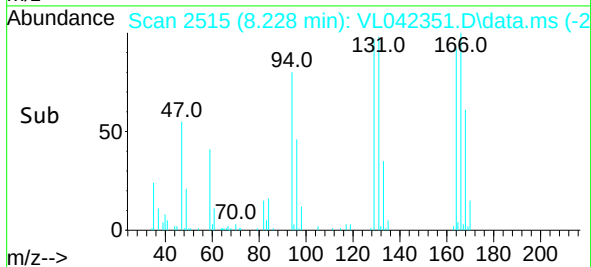
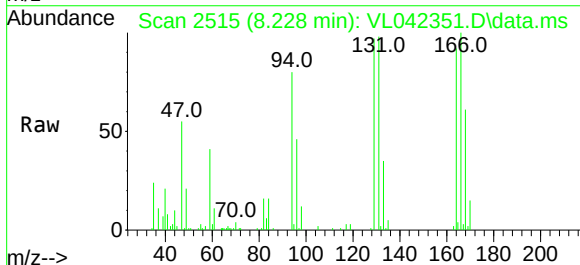
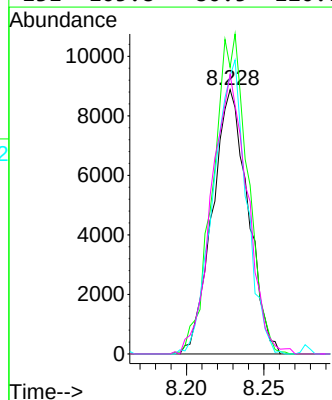
Manual Integrations  
APPROVED

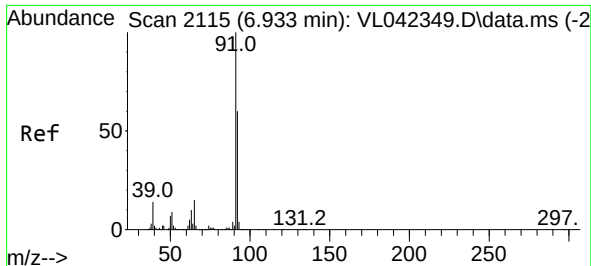
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#52  
Tetrachloroethene  
Concen: 0.943 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

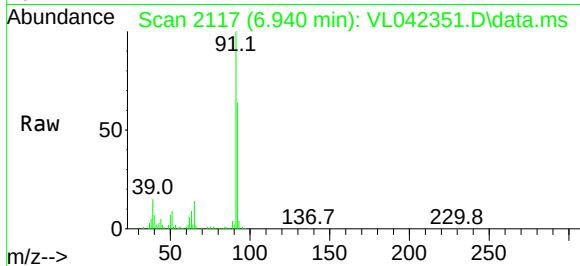
Tgt Ion:164 Resp: 14154  
Ion Ratio Lower Upper  
164 100  
166 107.7 98.2 147.2  
129 104.2 81.8 122.8  
131 105.8 80.5 120.7





#53  
Toluene  
Concen: 1.001 ppbv  
RT: 6.940 min Scan# 2115  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

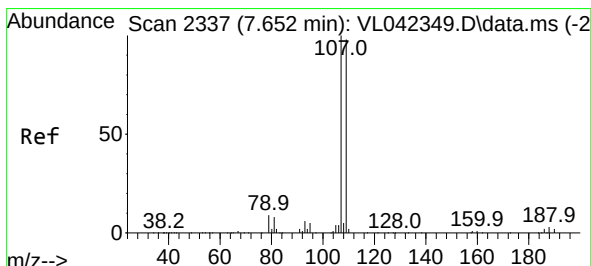
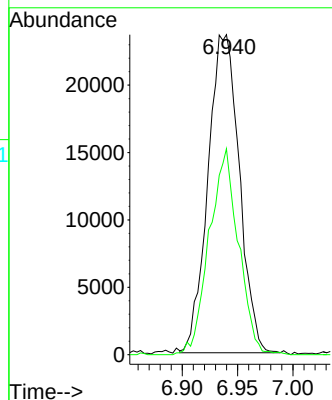
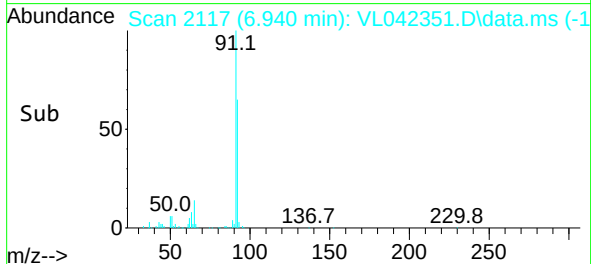
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



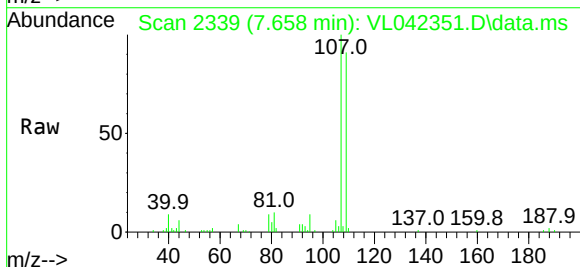
Tgt Ion: 91 Resp: 4661  
Ion Ratio Lower Upper  
91 100  
92 60.4 48.2 72.4

Manual Integrations  
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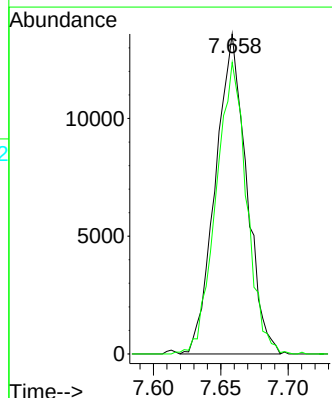
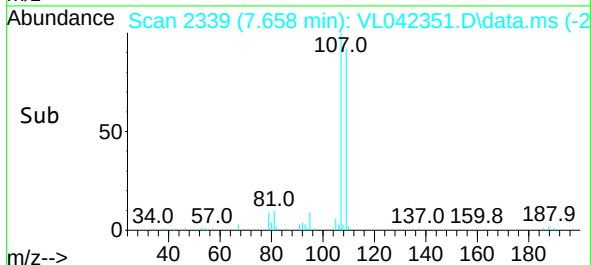
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

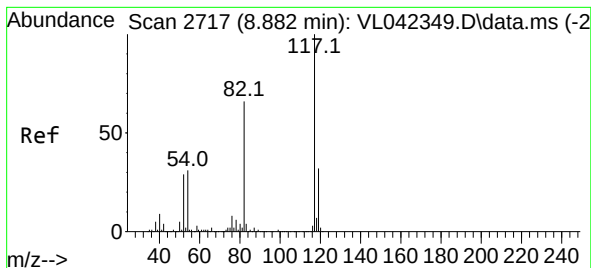


#54  
1,2-Dibromoethane  
Concen: 1.036 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion:107 Resp: 21780  
Ion Ratio Lower Upper  
107 100  
109 90.7 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 329090

Ion Ratio Lower Upper

117 100

82 69.7 57.8 86.6

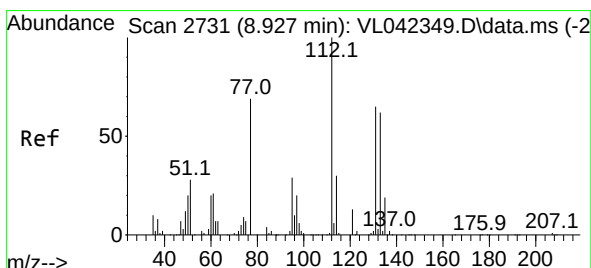
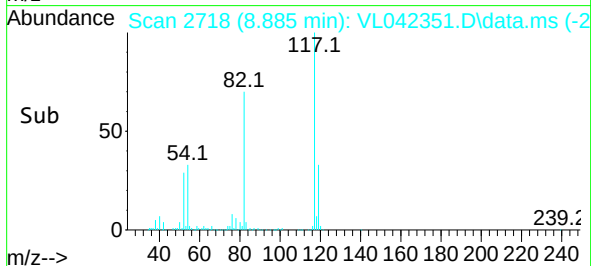
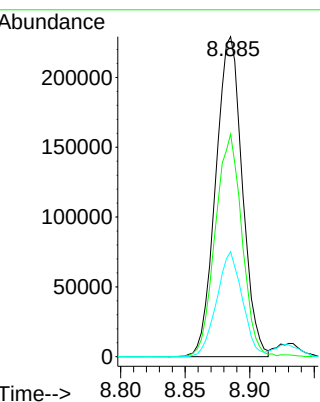
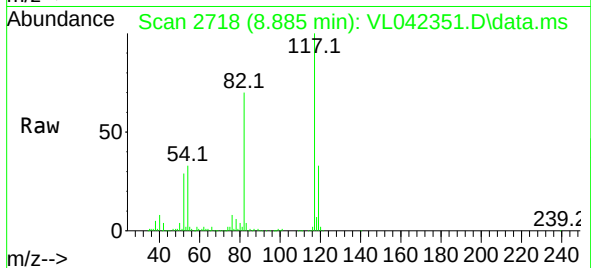
119 31.8 25.2 37.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

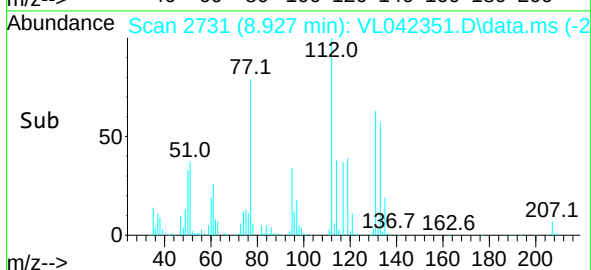
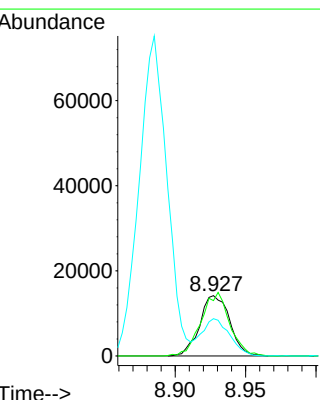
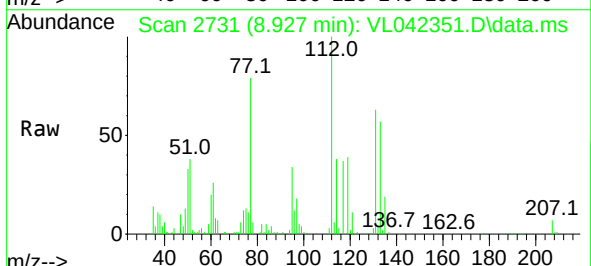
Tgt Ion:131 Resp: 21052

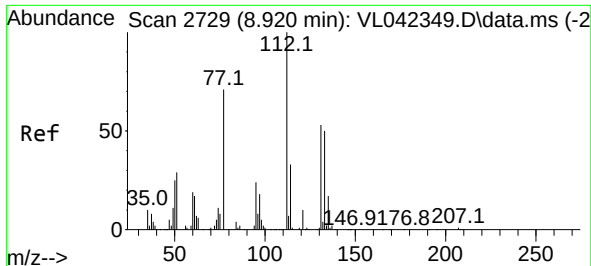
Ion Ratio Lower Upper

131 100

133 100.5 78.3 117.5

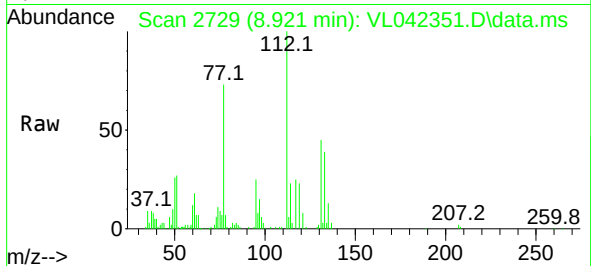
119 55.1 48.7 73.1





#57  
Chlorobenzene  
Concen: 1.026 ppbv  
RT: 8.921 min Scan# 2729  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

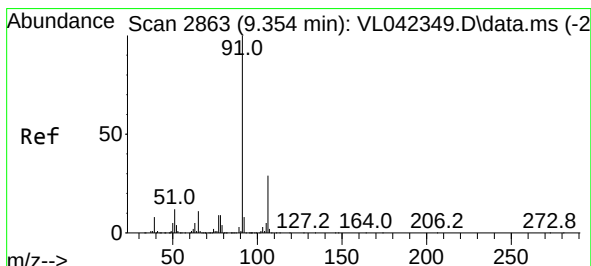
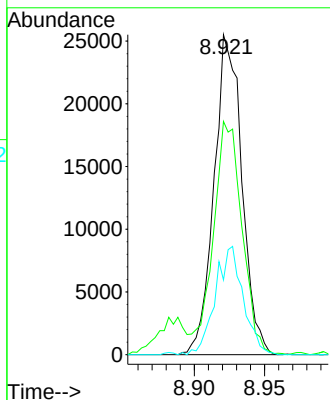
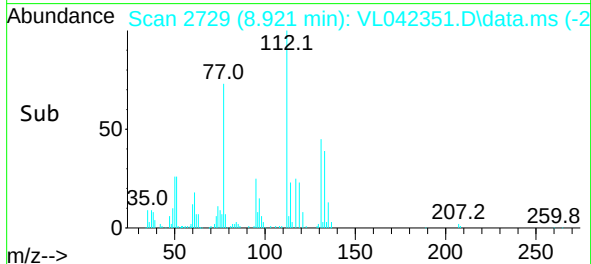
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



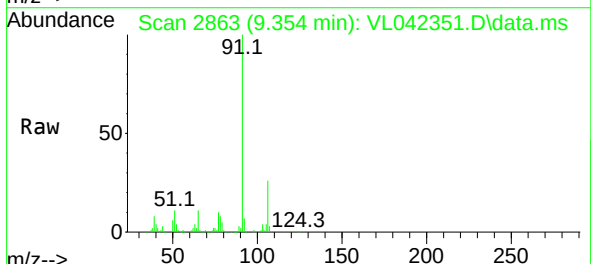
Tgt Ion:112 Resp: 3511  
Ion Ratio Lower Upper  
112 100  
77 72.4 57.8 86.6  
114 23.3 29.3 35.9

Manual Integrations  
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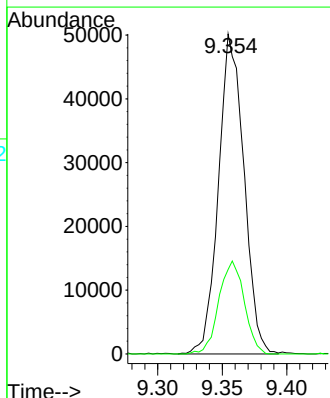
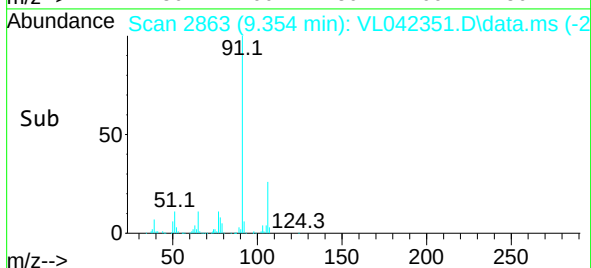
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

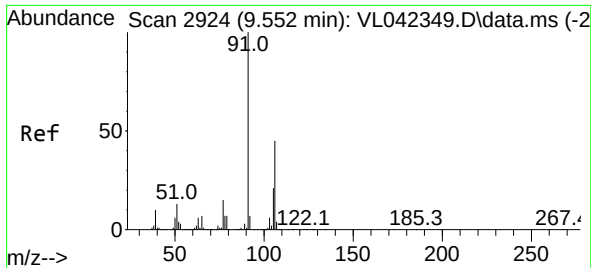


#58  
Ethyl Benzene  
Concen: 1.054 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion: 91 Resp: 68703  
Ion Ratio Lower Upper  
91 100  
106 26.5 23.0 34.4





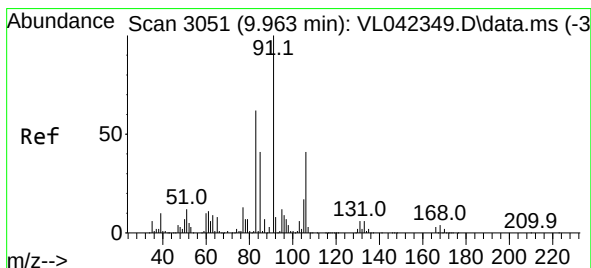
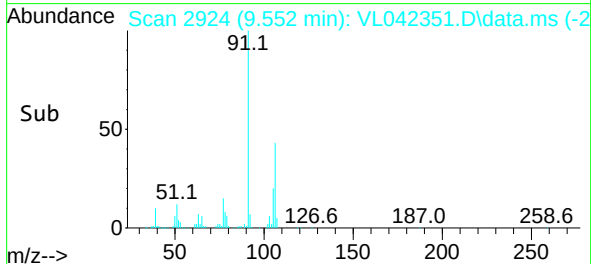
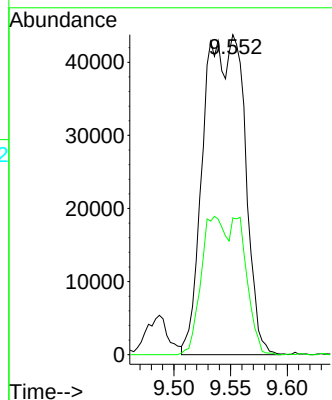
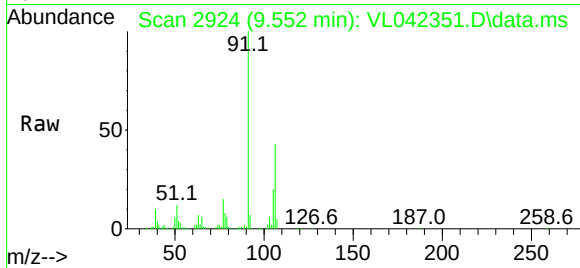
#59  
m/p-Xylene  
Concen: 2.101 ppbv m  
RT: 9.552 min Scan# 2924  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 11070  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.4 53.2

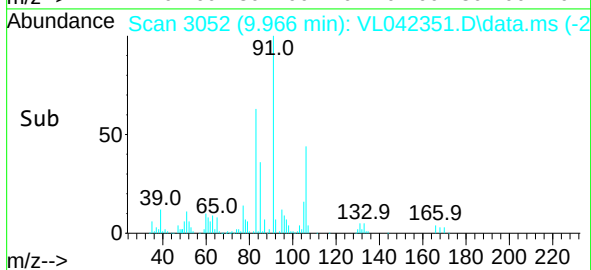
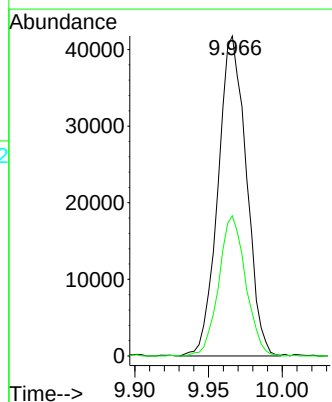
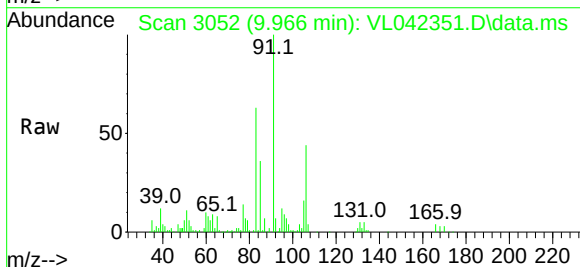
Manual Integrations  
APPROVED

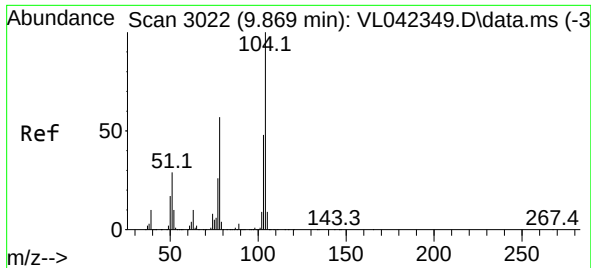
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#60  
o-Xylene  
Concen: 1.056 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 55831  
Ion Ratio Lower Upper  
91 100  
106 41.6 21.1 63.4





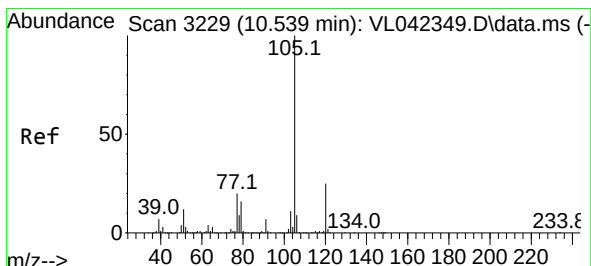
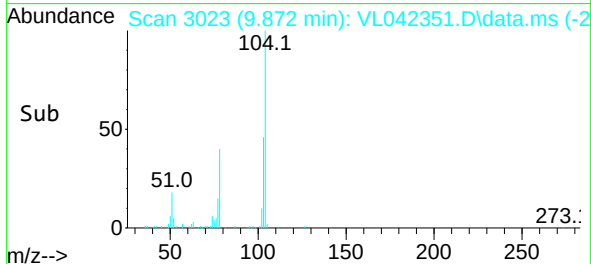
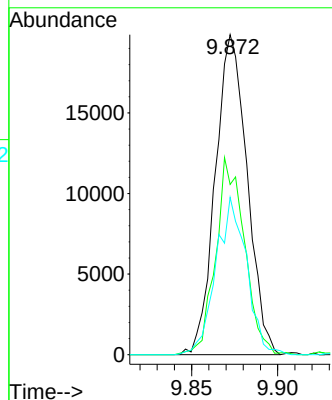
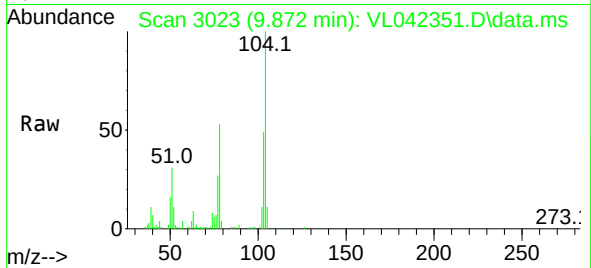
#61  
Styrene  
Concen: 1.012 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:104 Resp: 25544  
Ion Ratio Lower Upper  
104 100  
78 55.7 44.6 66.8  
103 47.2 37.4 56.0

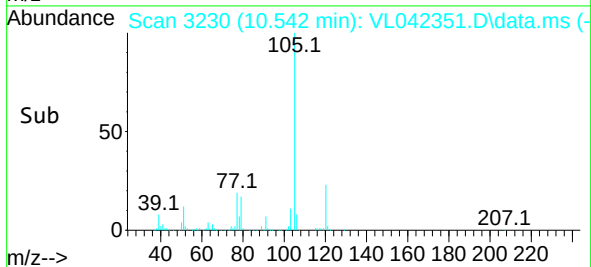
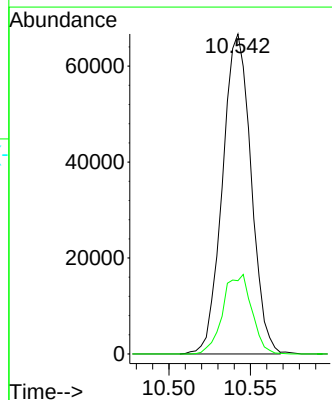
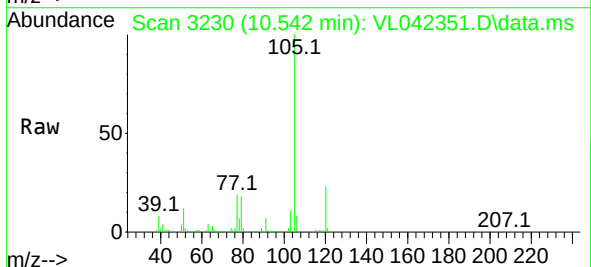
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

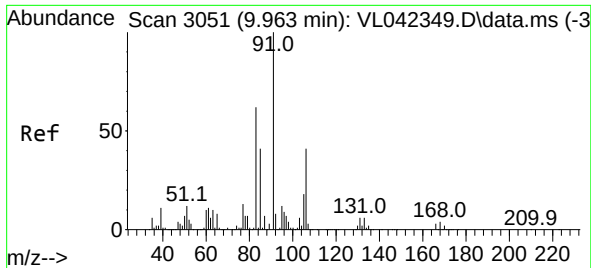


#62  
Isopropylbenzene  
Concen: 1.047 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286  
Ion Ratio Lower Upper  
105 100  
120 25.0 19.8 29.8

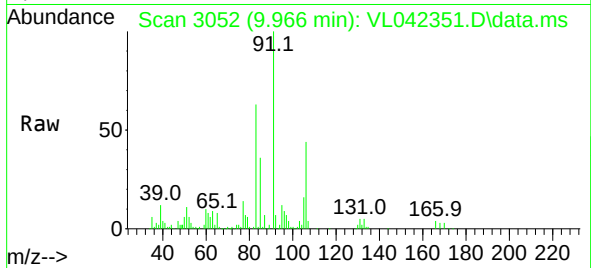






#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.943 ppbv  
RT: 9.966 min Scan# 3051  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

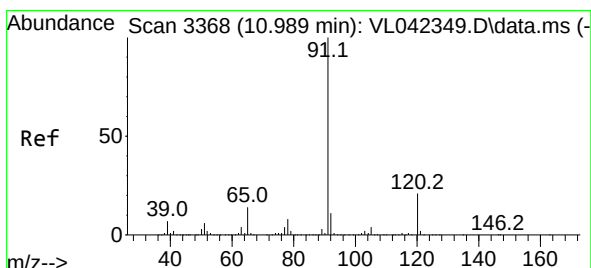
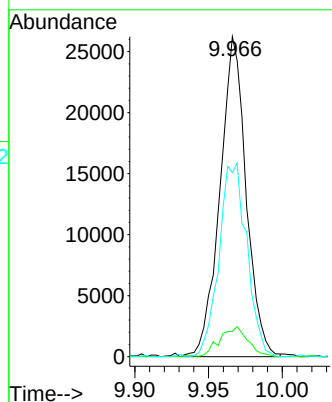
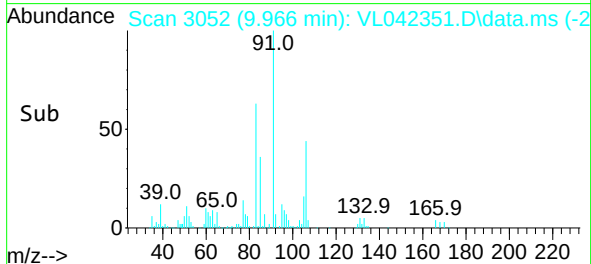
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



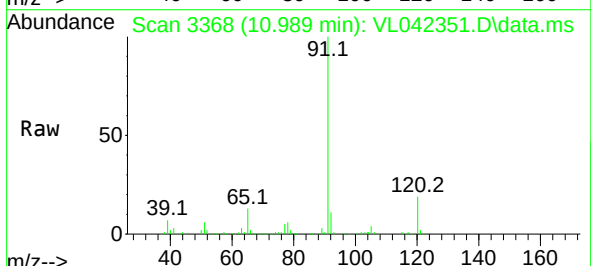
Tgt Ion: 83 Resp: 32410  
Ion Ratio Lower Upper  
83 100  
131 10.2 4.5 13.7  
85 64.4 32.4 97.0

Manual Integrations  
APPROVED

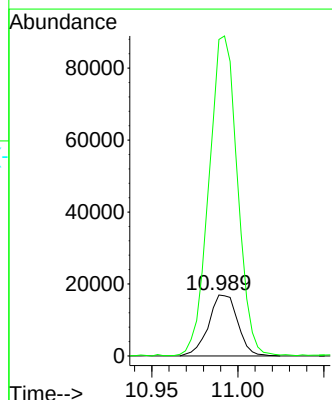
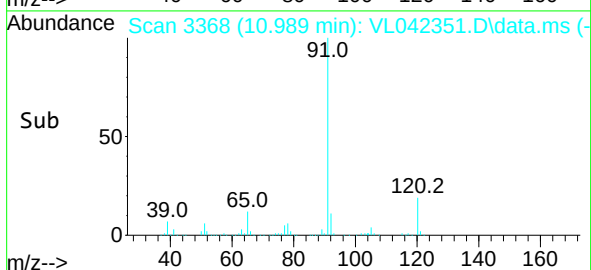
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

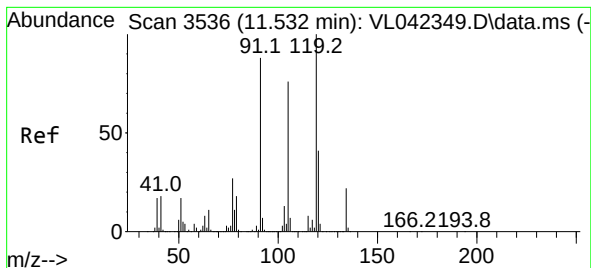


#64  
n-propylbenzene  
Concen: 1.019 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



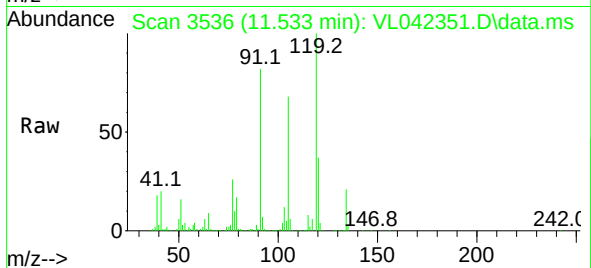
Tgt Ion:120 Resp: 19898  
Ion Ratio Lower Upper  
120 100  
91 517.6 392.4 588.6





#65  
tert-Butylbenzene  
Concen: 1.087 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

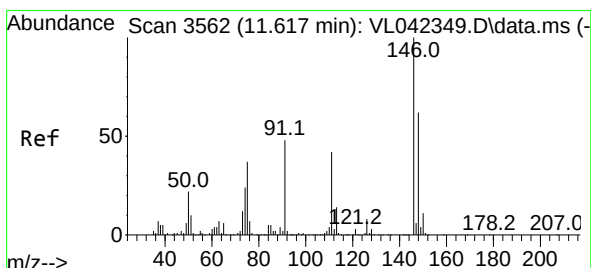
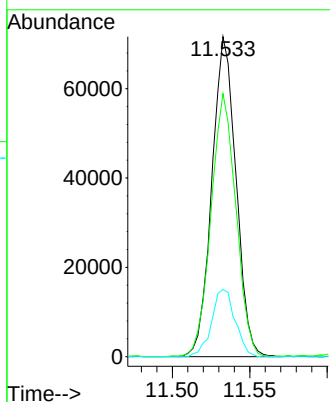
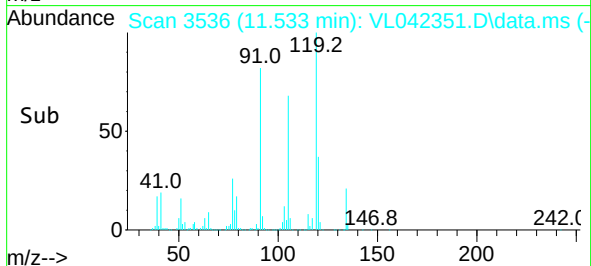
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



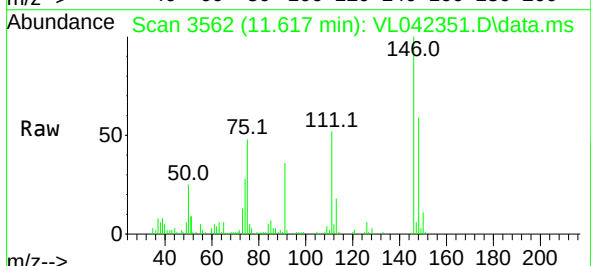
Tgt Ion: 119 Resp: 77598  
Ion Ratio Lower Upper  
119 100  
91 85.0 74.6 111.8  
134 20.5 18.8 28.2

Manual Integrations  
APPROVED

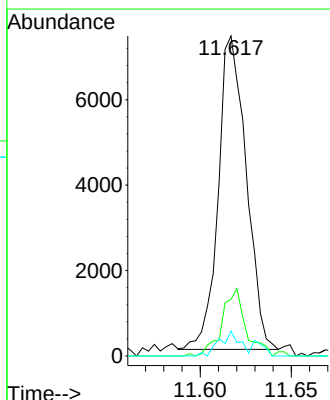
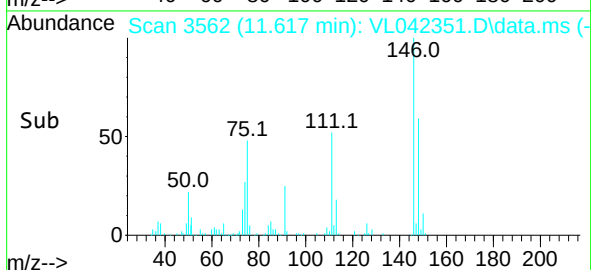
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

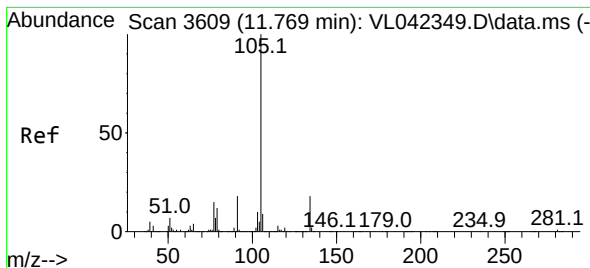


#66  
Benzyl Chloride  
Concen: 1.003 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



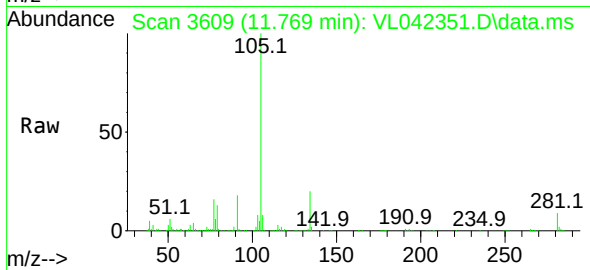
Tgt Ion: 91 Resp: 7864  
Ion Ratio Lower Upper  
91 100  
126 18.6 11.8 17.6#  
128 7.7 4.5 6.7#





#67  
sec-Butylbenzene  
Concen: 1.067 ppbv  
RT: 11.769 min Scan# 3609  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

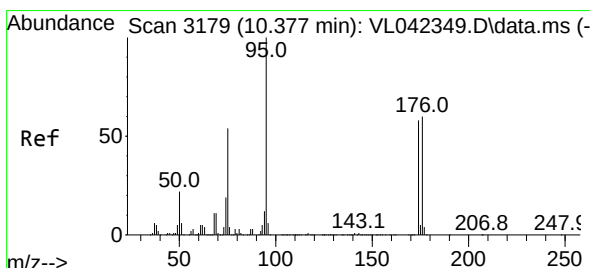
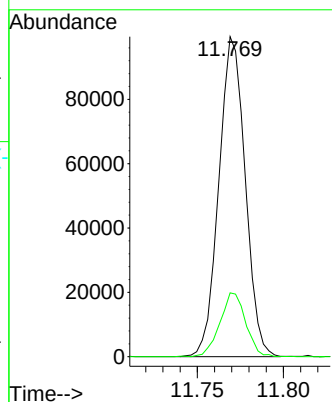
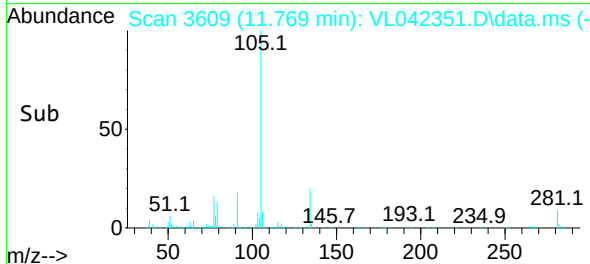
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



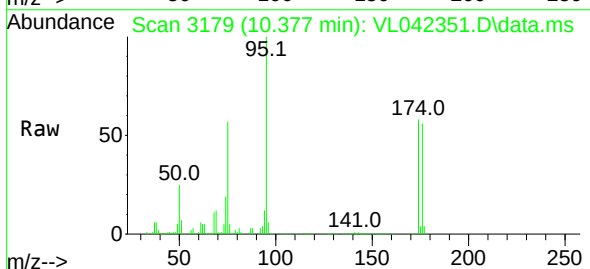
Tgt Ion:105 Resp: 105919  
Ion Ratio Lower Upper  
105 100  
134 19.6 14.6 21.8

Manual Integrations  
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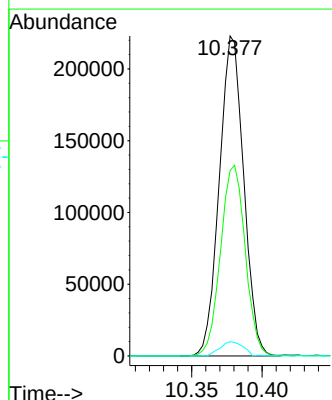
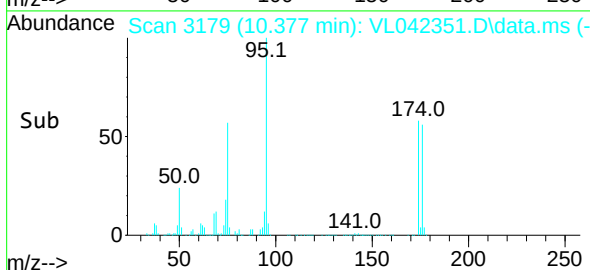
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

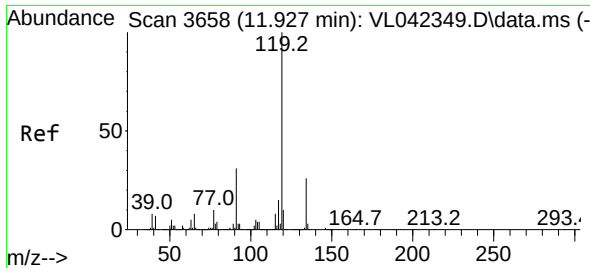


#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.950 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



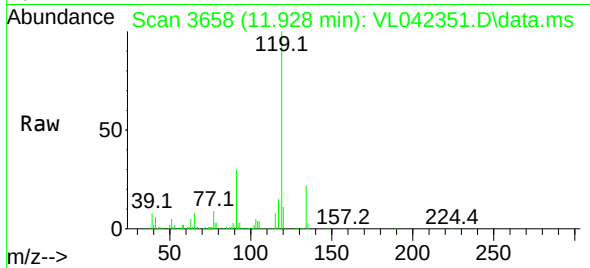
Tgt Ion: 95 Resp: 269087  
Ion Ratio Lower Upper  
95 100  
174 60.4 48.5 72.7  
175 4.3 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 1.075 ppbv  
RT: 11.928 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

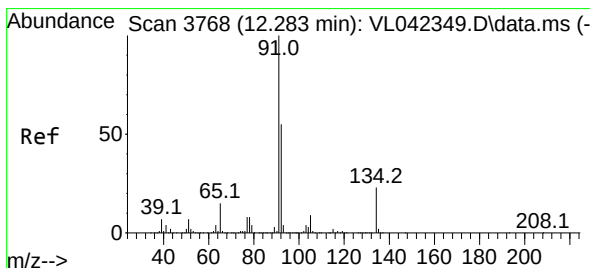
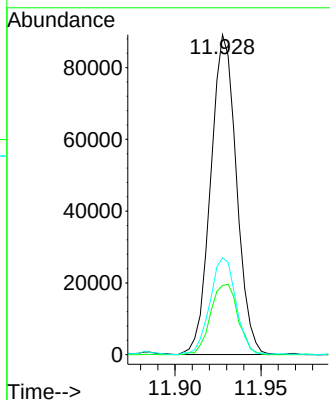
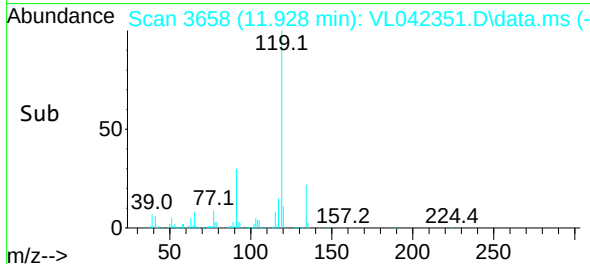
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



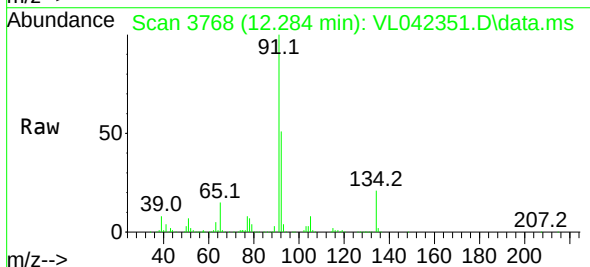
Tgt Ion: 119 Resp: 92733  
Ion Ratio Lower Upper  
119 100  
134 23.5 20.0 30.0  
91 32.1 24.4 36.6

Manual Integrations  
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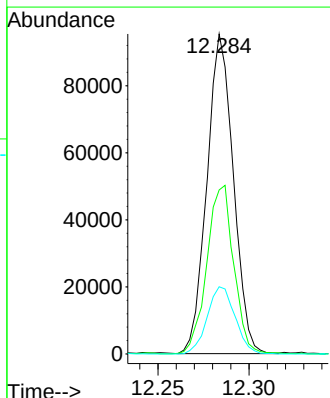
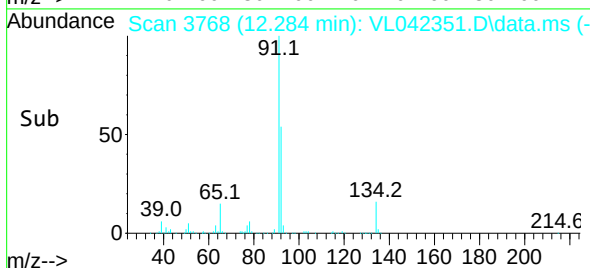
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

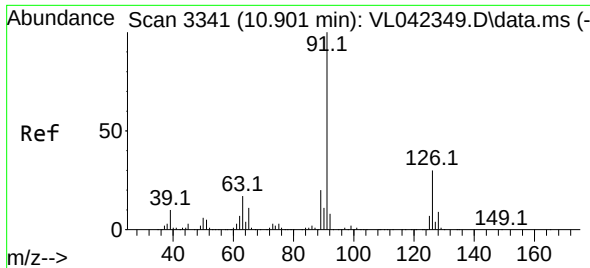


#70  
n-Butylbenzene  
Concen: 1.072 ppbv  
RT: 12.284 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion: 91 Resp: 96306  
Ion Ratio Lower Upper  
91 100  
92 54.2 44.2 66.4  
134 22.1 18.2 27.4





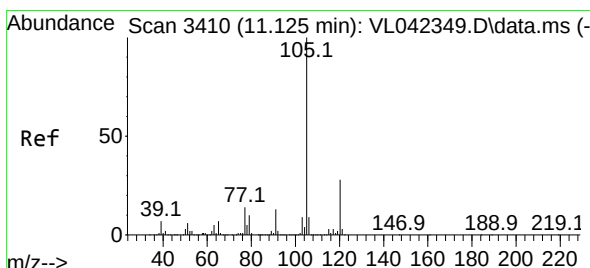
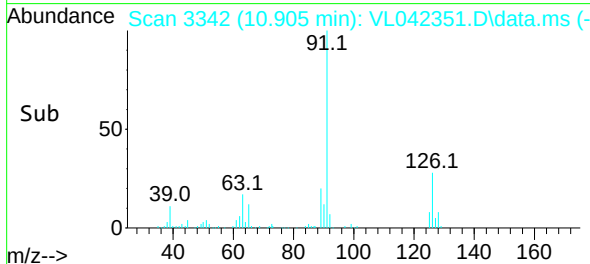
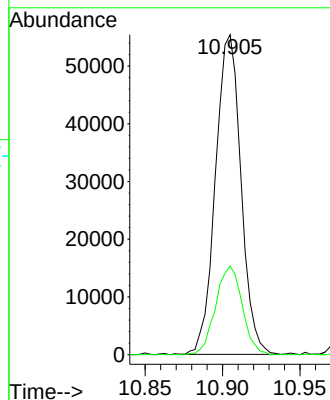
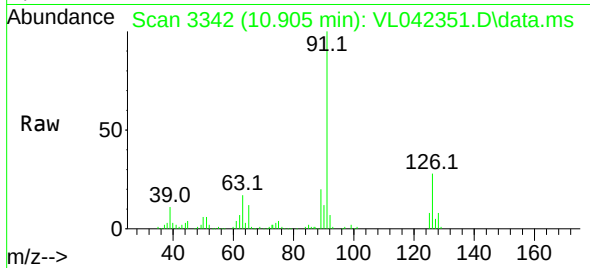
#71  
2-Chlorotoluene  
Concen: 1.040 ppbv  
RT: 10.905 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 91 Resp: 6332  
Ion Ratio Lower Upper  
91 100  
126 28.9 11.4 45.4

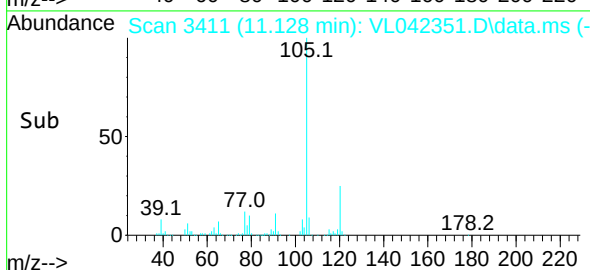
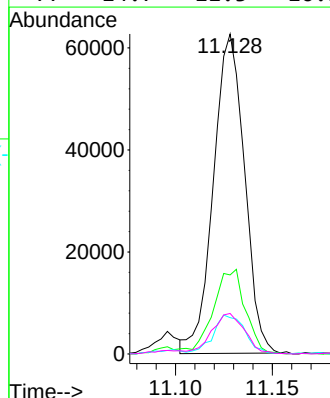
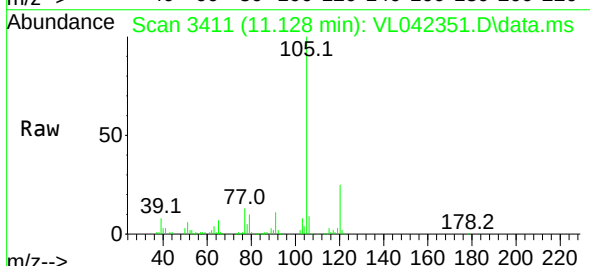
Manual Integrations  
APPROVED

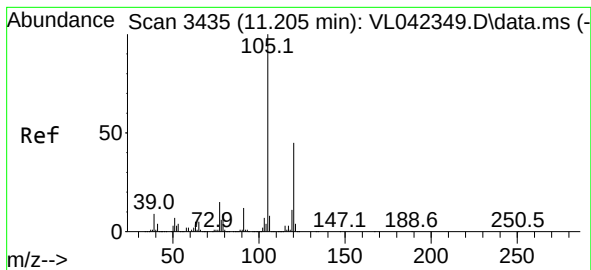
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#72  
4-Ethyltoluene  
Concen: 1.078 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.2 34.8  
91 13.5 10.4 15.6  
77 14.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 1.067 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

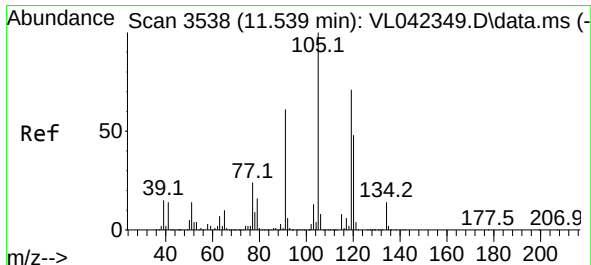
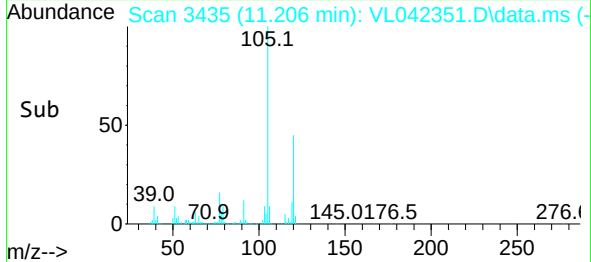
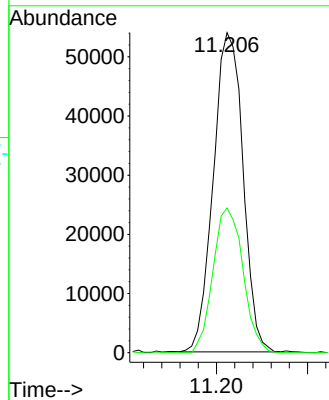
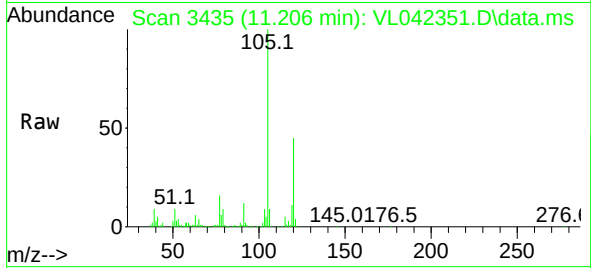
VSTDIC001

Tgt Ion:105 Resp: 6092  
 Ion Ratio Lower Upper  
 105 100  
 120 45.3 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 1.108 ppbv

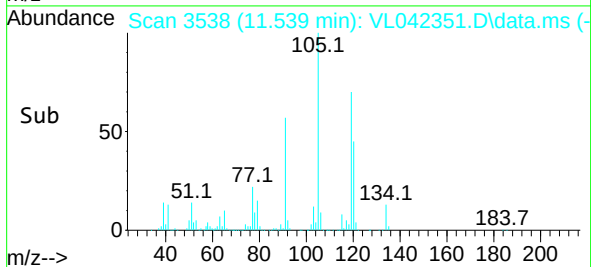
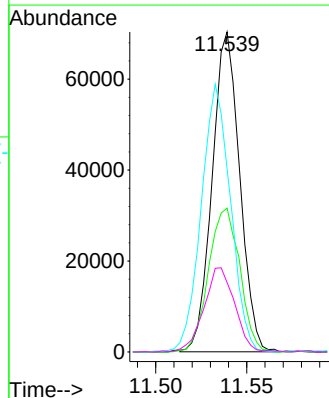
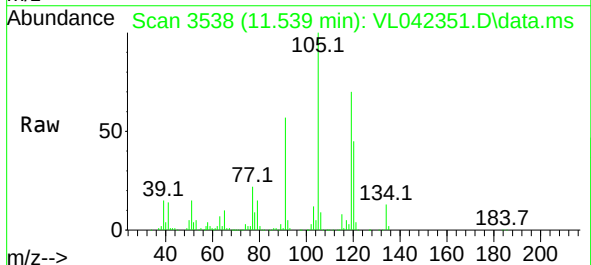
RT: 11.539 min Scan# 3538

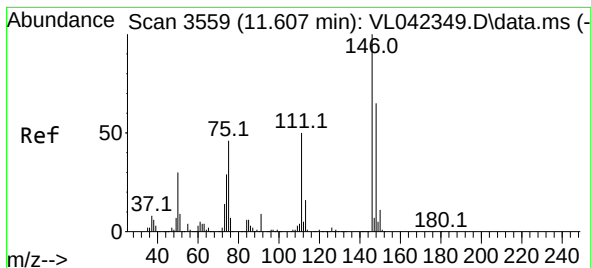
Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 38.1 57.1  
 91 57.0 48.8 73.2  
 77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 1.064 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

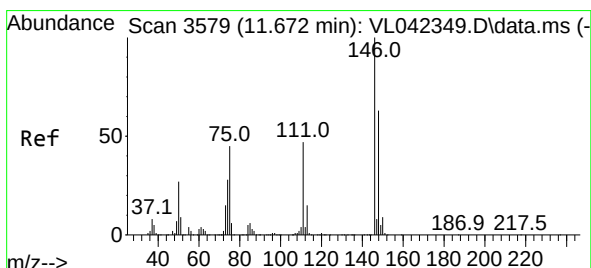
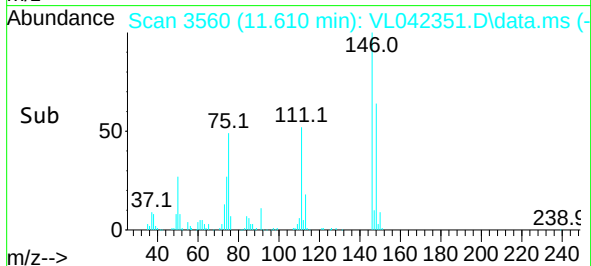
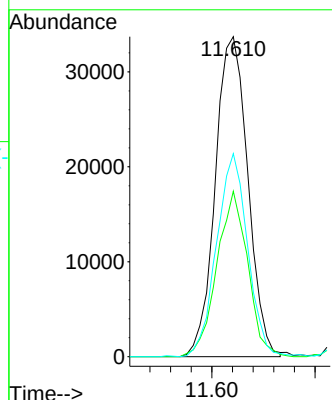
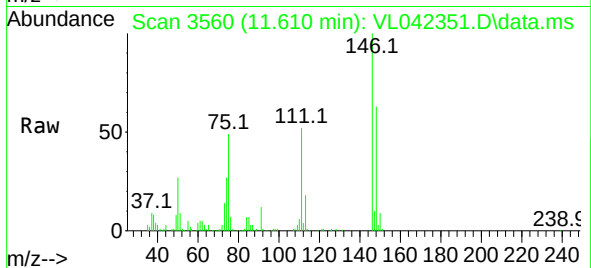
VSTDICC001

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 3687      |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 48.9  | 24.3 72.8 |
| 148         | 60.8  | 31.6 94.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 1.053 ppbv

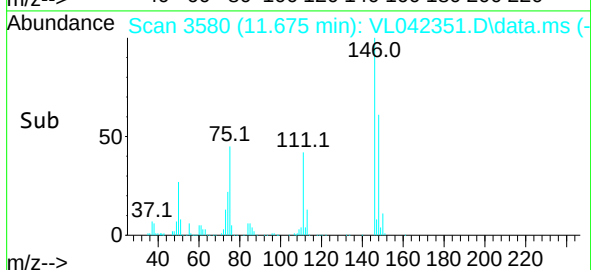
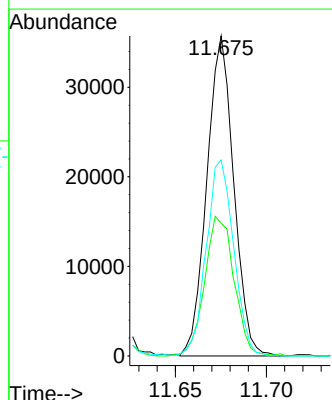
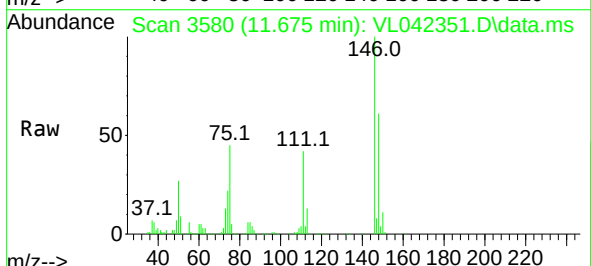
RT: 11.675 min Scan# 3580

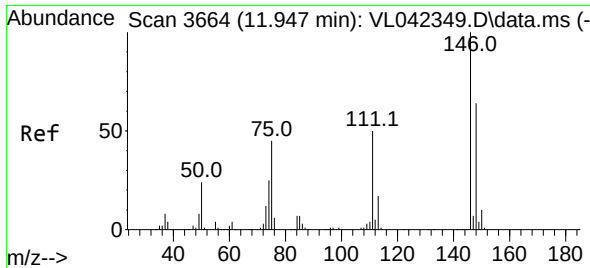
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

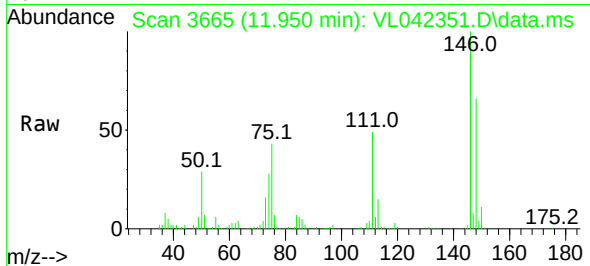
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 36692     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 47.7  | 24.2 72.6 |
| 148         | 62.3  | 32.1 96.5 |





#77  
1,2-Dichlorobenzene  
Concen: 1.068 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

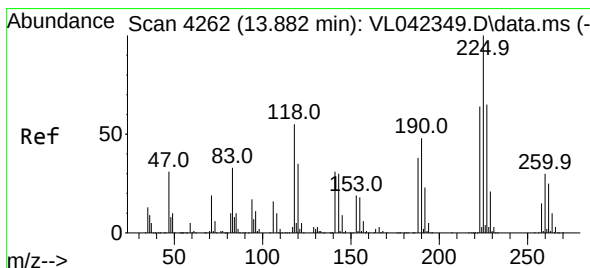
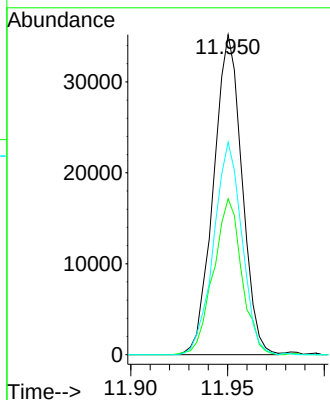
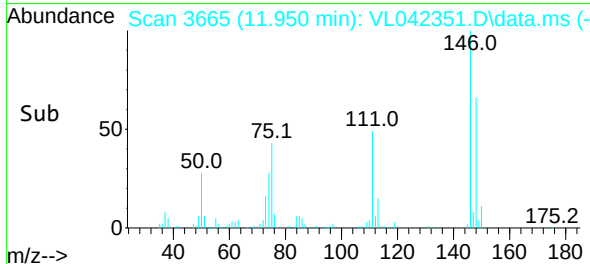
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



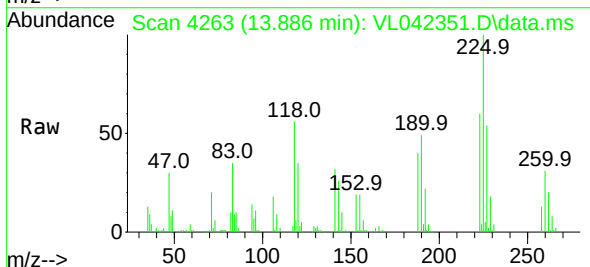
Tgt Ion:146 Resp: 3597  
Ion Ratio Lower Upper  
146 100  
111 48.7 25.3 75.9  
148 65.9 31.5 94.5

Manual Integrations  
APPROVED

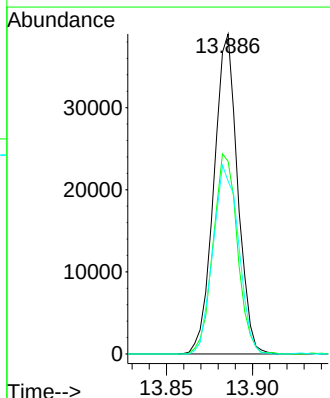
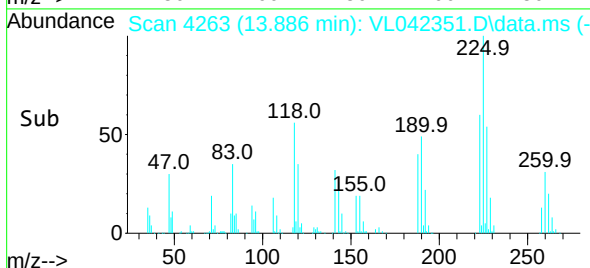
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



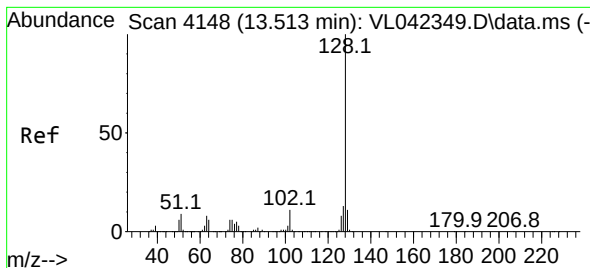
#78  
Hexachloro-1,3-Butadiene  
Concen: 1.098 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48



Tgt Ion:225 Resp: 37377  
Ion Ratio Lower Upper  
225 100  
223 64.1 50.3 75.5  
227 63.6 51.5 77.3







#79

Naphthalene

Concen: 1.138 ppbv

RT: 13.517 min Scan# 4148

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

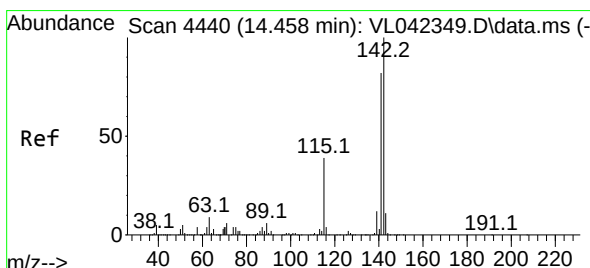
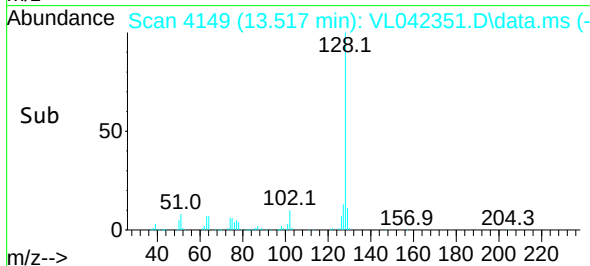
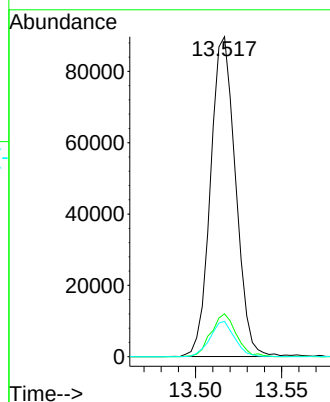
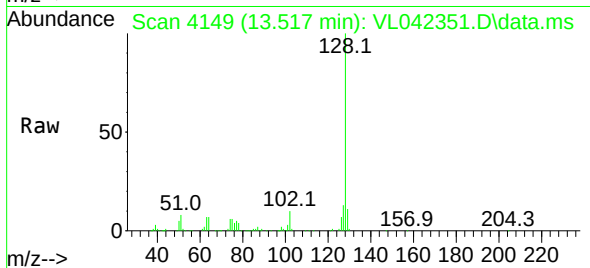
VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 90710 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 13.4  | 10.6  | 15.8  |
| 129       | 11.1  | 8.6   | 12.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#80

Naphthalene,2-methyl-

Concen: 1.111 ppbv

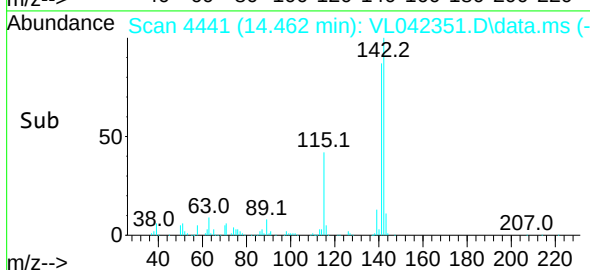
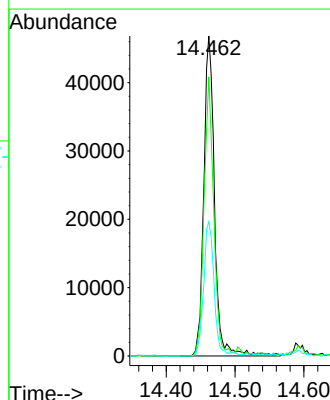
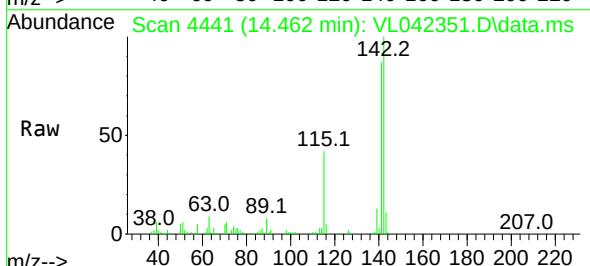
RT: 14.462 min Scan# 4441

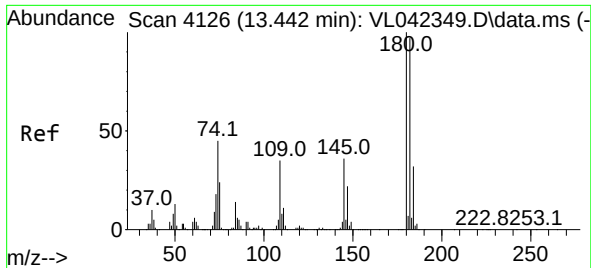
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 50487 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 80.9  | 66.8  | 100.2 |
| 115       | 41.2  | 33.4  | 50.2  |





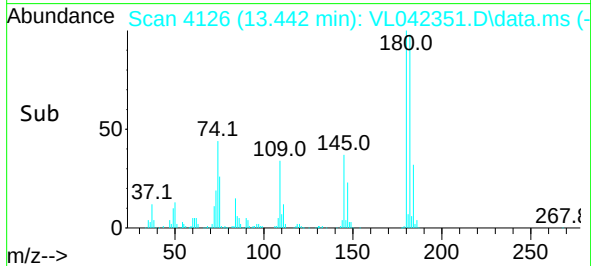
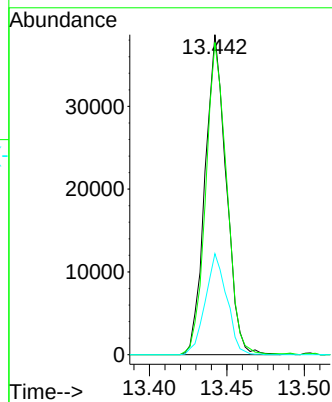
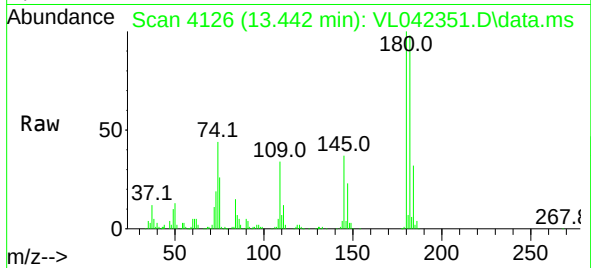
#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.074 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 76.8  | 115.2 |
| 184     | 32.0  | 24.6  | 36.8  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042352.D  
 Acq On : 17 Apr 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 120542   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 353137   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 321644   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 265161   | 10.032   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.300% |

| Target Compounds              |       |     |        |       | Qvalue |    |
|-------------------------------|-------|-----|--------|-------|--------|----|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 11036  | 0.518 | ppbv   | 92 |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 11304  | 0.557 | ppbv # | 84 |
| 4) Chloromethane              | 1.531 | 50  | 4534   | 0.538 | ppbv   | 97 |
| 5) Vinyl Chloride             | 1.580 | 62  | 4406   | 0.480 | ppbv   | 97 |
| 6) Bromomethane               | 1.667 | 94  | 2394   | 0.602 | ppbv   | 95 |
| 7) Chloroethane               | 1.703 | 64  | 1824   | 0.550 | ppbv # | 87 |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 9381   | 0.513 | ppbv   | 99 |
| 9) Propene                    | 1.483 | 41  | 5303   | 0.574 | ppbv   | 93 |
| 10) Heptane                   | 4.978 | 43  | 14728m | 0.593 | ppbv   |    |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 10150  | 0.501 | ppbv   | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 8371   | 0.506 | ppbv   | 93 |
| 13) Ethanol                   | 1.719 | 45  | 1656m  | 2.194 | ppbv   |    |
| 14) Bromoethene               | 1.780 | 108 | 3238   | 0.519 | ppbv # | 93 |
| 15) Acetone                   | 1.835 | 43  | 11859  | 0.601 | ppbv # | 74 |
| 16) 1,3-Butadiene             | 1.609 | 39  | 6120   | 0.660 | ppbv # | 82 |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 13640  | 0.558 | ppbv # | 85 |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 4430   | 0.556 | ppbv # | 87 |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 6327   | 0.577 | ppbv # | 39 |
| 20) Methylene Chloride        | 2.059 | 84  | 5273   | 0.682 | ppbv   | 93 |
| 21) Allyl Chloride            | 2.094 | 41  | 7692   | 0.565 | ppbv # | 81 |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 4908   | 0.557 | ppbv   | 92 |
| 23) Vinyl Acetate             | 2.460 | 43  | 3953   | 0.495 | ppbv # | 57 |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 8753   | 0.523 | ppbv # | 94 |
| 25) Ethyl Acetate             | 2.835 | 43  | 26686  | 0.548 | ppbv # | 93 |
| 26) Hexane                    | 2.823 | 57  | 11448  | 0.581 | ppbv   | 91 |
| 27) Carbon Disulfide          | 2.149 | 76  | 11472  | 0.544 | ppbv # | 1  |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 6833   | 0.530 | ppbv # | 32 |
| 29) Chloroform                | 2.848 | 83  | 14815  | 0.532 | ppbv   | 93 |
| 30) Cyclohexane               | 3.852 | 84  | 8572   | 0.541 | ppbv   | 94 |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 9571   | 0.511 | ppbv   | 96 |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 15413  | 0.516 | ppbv   | 97 |
| 34) 2-Butanone                | 2.560 | 43  | 15640  | 0.560 | ppbv   | 97 |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 14683  | 0.459 | ppbv   | 87 |
| 36) Benzene                   | 3.651 | 78  | 20233  | 0.531 | ppbv   | 97 |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 12194  | 0.533 | ppbv # | 95 |
| 38) Trichloroethene           | 4.551 | 130 | 7819   | 0.468 | ppbv # | 78 |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 7790m  | 0.548 | ppbv   |    |
| 40) 1,4-Dioxane               | 4.599 | 88  | 4637m  | 0.603 | ppbv   |    |
| 41) Tetrahydrofuran           | 3.062 | 42  | 9144m  | 0.567 | ppbv   |    |
| 42) Bromodichloromethane      | 4.489 | 83  | 16642  | 0.523 | ppbv # | 91 |
| 43) Methyl Methacrylate       | 4.881 | 69  | 9620m  | 0.563 | ppbv   |    |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 34170  | 0.519 | ppbv   | 91 |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 9073m  | 0.517 | ppbv   |    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042352.D  
 Acq On : 17 Apr 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

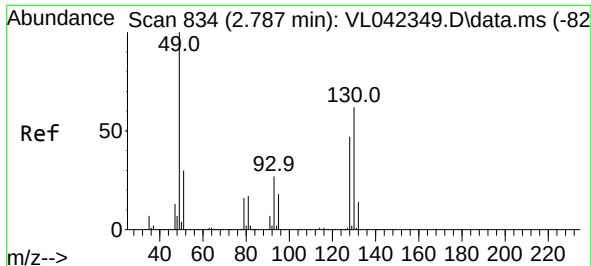
QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 10827m   | 0.505 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 7466m    | 0.516 | ppbv   |          |
| 48) Dibromochloromethane      | 7.386  | 129  | 13122    | 0.514 | ppbv   | 97       |
| 49) Bromoform                 | 9.477  | 173  | 10988    | 0.492 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 27206m   | 0.585 | ppbv   |          |
| 51) 2-Hexanone                | 7.441  | 43   | 23684    | 0.564 | ppbv   | 98       |
| 52) Tetrachloroethene         | 8.221  | 164  | 7412     | 0.503 | ppbv # | 88       |
| 53) Toluene                   | 6.927  | 91   | 24200    | 0.529 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 10282    | 0.499 | ppbv   | 84       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 9987     | 0.513 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.917  | 112  | 18149m   | 0.543 | ppbv   |          |
| 58) Ethyl Benzene             | 9.351  | 91   | 32624    | 0.512 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.532  | 91   | 54197m   | 1.053 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 27983    | 0.541 | ppbv   | 99       |
| 61) Styrene                   | 9.869  | 104  | 12736    | 0.516 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.539 | 105  | 40481    | 0.533 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 15920    | 0.474 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 10369    | 0.544 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 37294    | 0.535 | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.613 | 91   | 3878     | 0.506 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 52139    | 0.537 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 45574    | 0.541 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 48004    | 0.547 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 31709    | 0.533 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 33048    | 0.523 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 30464    | 0.546 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 37765    | 0.579 | ppbv # | 90       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 18003    | 0.531 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 18300    | 0.537 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 17446    | 0.530 | ppbv   | 95       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 18705    | 0.562 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 38521    | 0.494 | ppbv # | 92       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 21076    | 0.475 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 16504    | 0.493 | ppbv   | 97       |

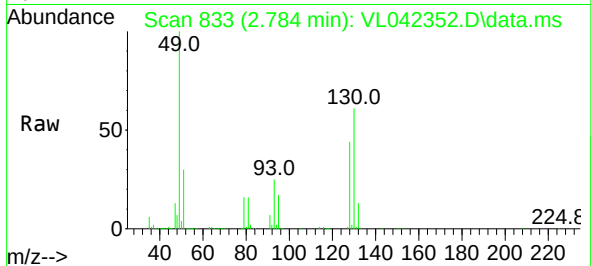
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

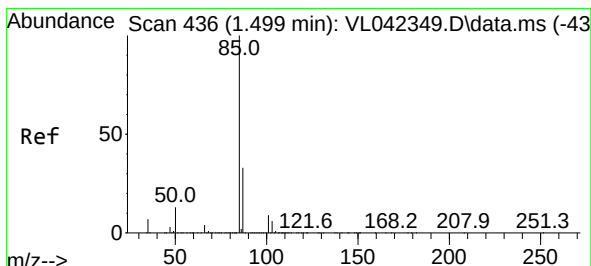
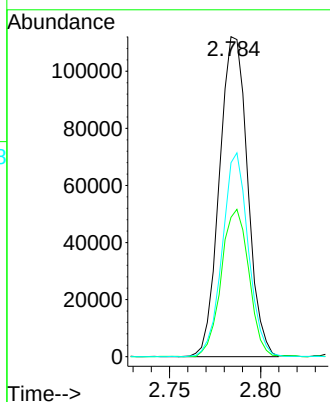
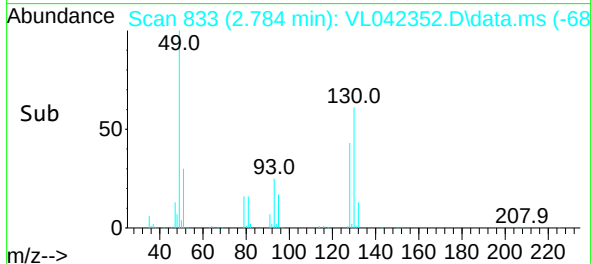
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



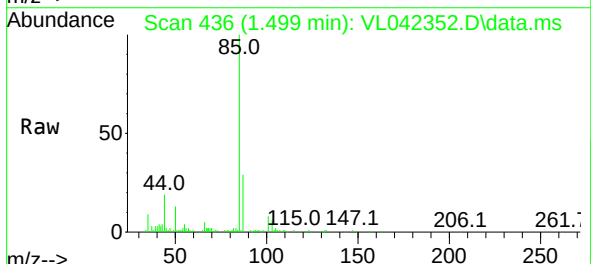
Tgt Ion: 49 Resp: 12054  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 59.0 29.3 88.0

Manual Integrations  
APPROVED

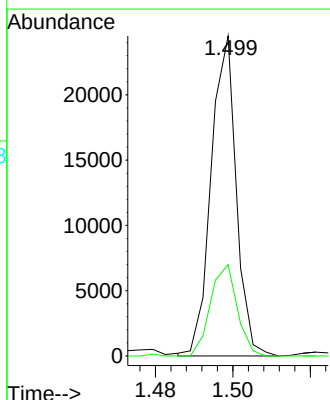
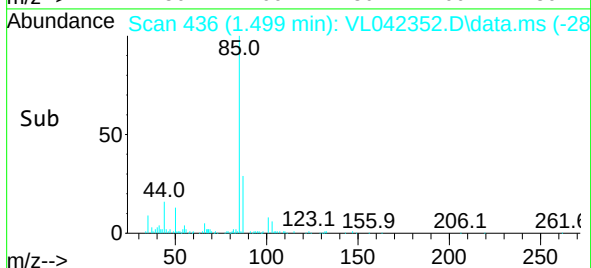
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

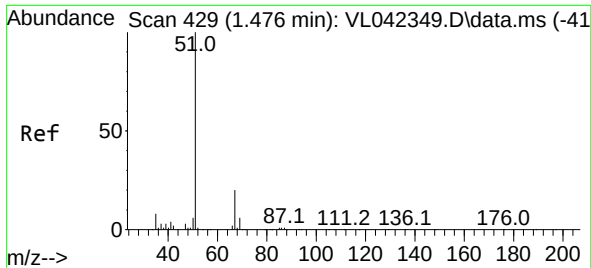


#2  
Dichlorodifluoromethane  
Concen: 0.518 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



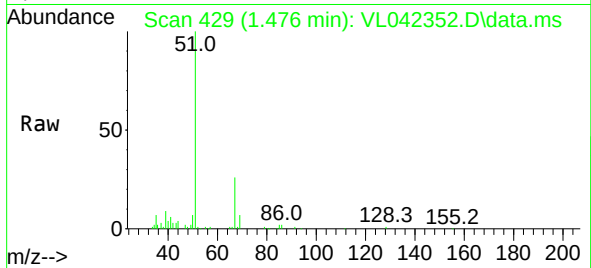
Tgt Ion: 85 Resp: 11036  
Ion Ratio Lower Upper  
85 100  
87 28.6 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 0.557 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

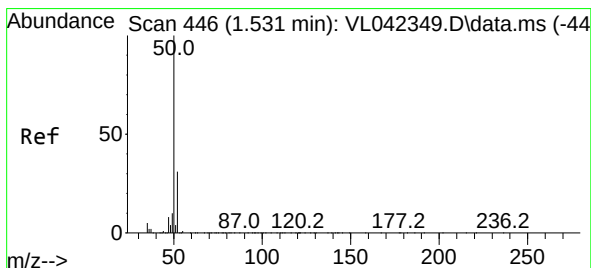
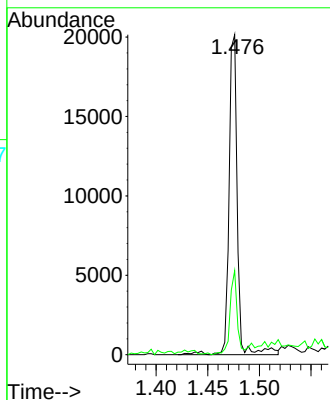
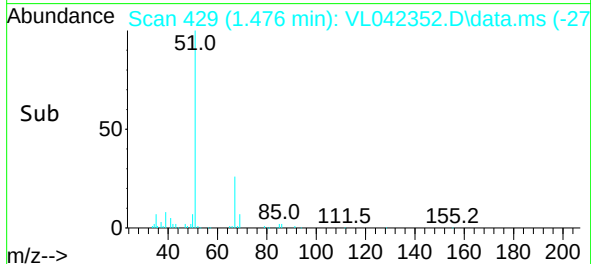
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



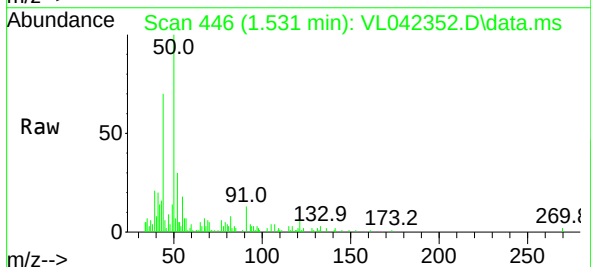
Tgt Ion: 51 Resp: 11304  
Ion Ratio Lower Upper  
51 100  
67 27.8 16.2 24.4

Manual Integrations  
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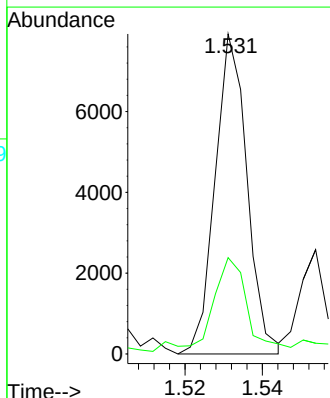
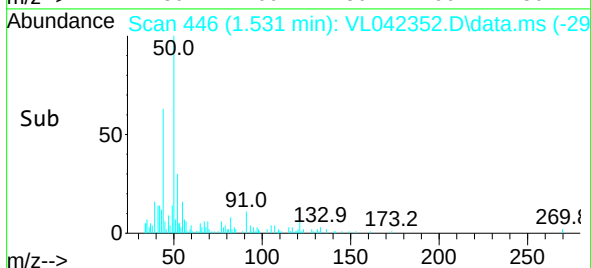
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

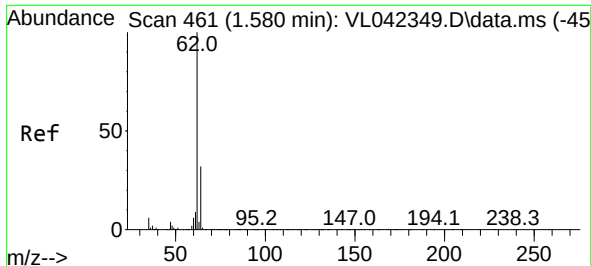


#4  
Chloromethane  
Concen: 0.538 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion: 50 Resp: 4534  
Ion Ratio Lower Upper  
50 100  
52 32.8 24.7 37.1





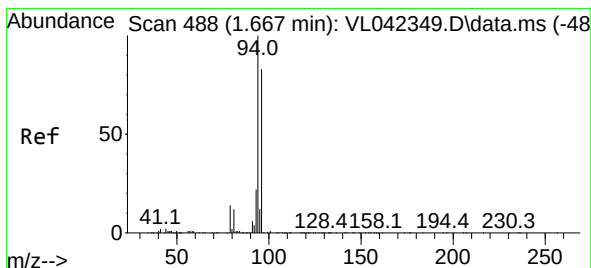
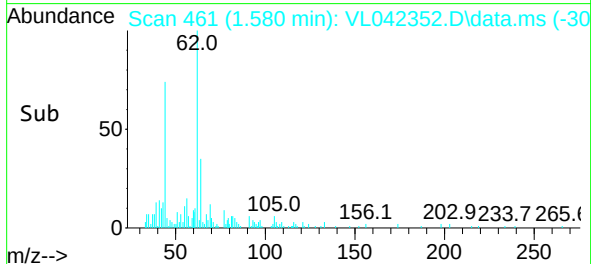
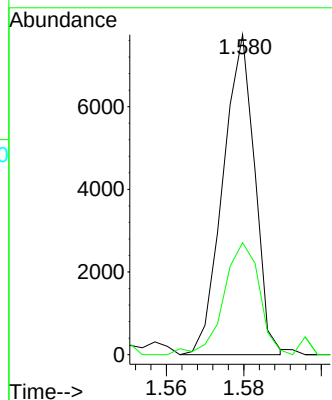
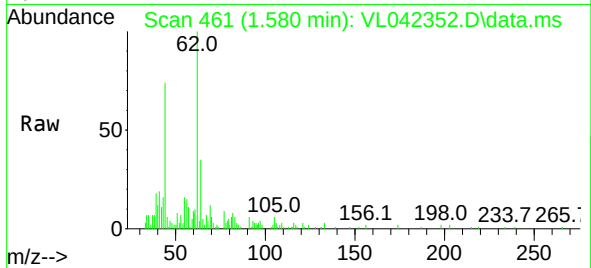
#5  
 Vinyl Chloride  
 Concen: 0.480 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 62 Resp: 4400  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 25.4 38.0

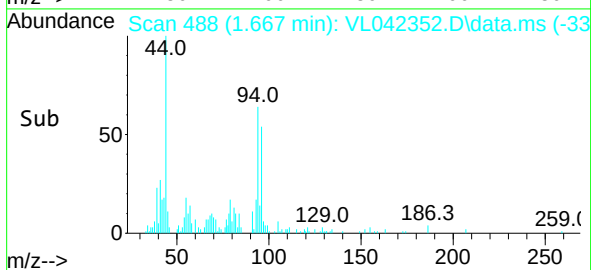
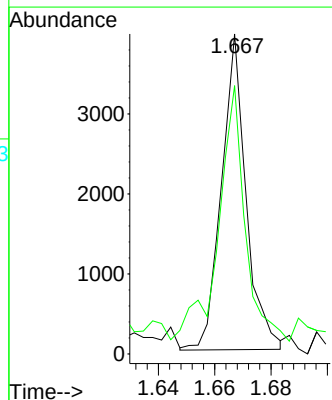
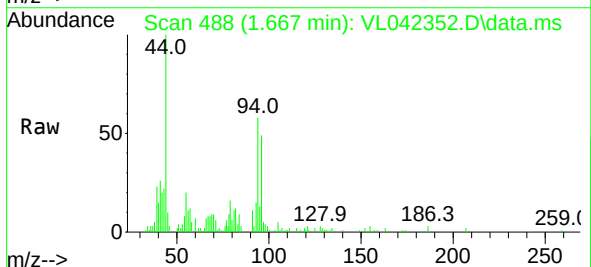
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

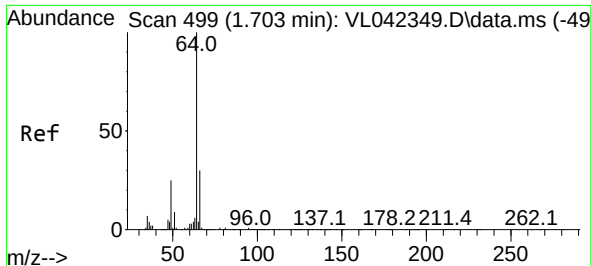


#6  
 Bromomethane  
 Concen: 0.602 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394  
 Ion Ratio Lower Upper  
 94 100  
 96 78.1 66.2 99.2

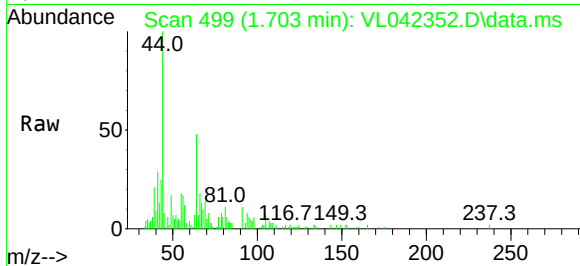






#7  
Chloroethane  
Concen: 0.550 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

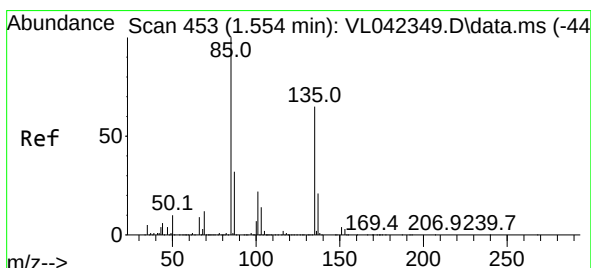
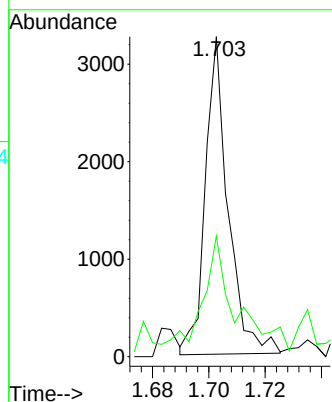
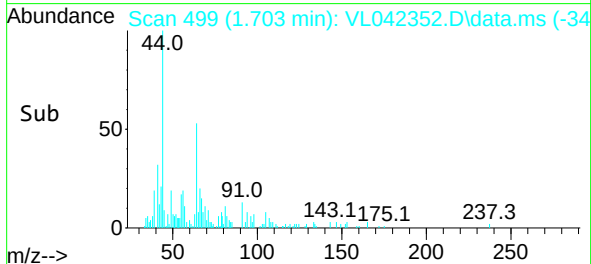
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



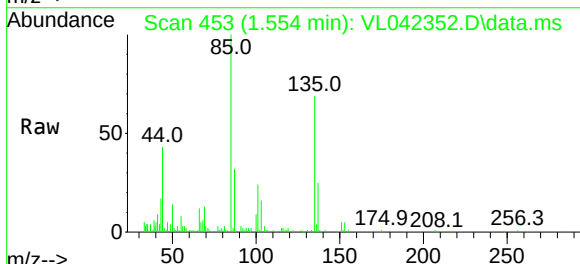
Tgt Ion: 64 Resp: 1824  
Ion Ratio Lower Upper  
64 100  
66 37.7 24.6 37.0

Manual Integrations  
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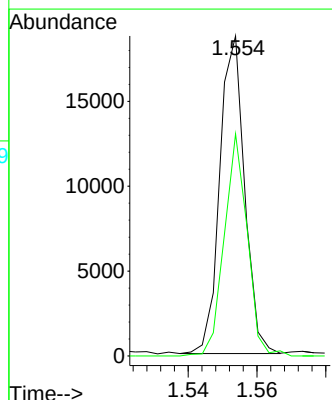
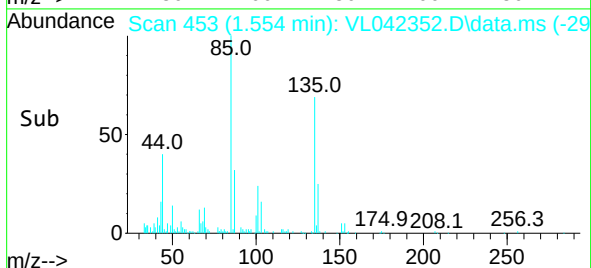
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

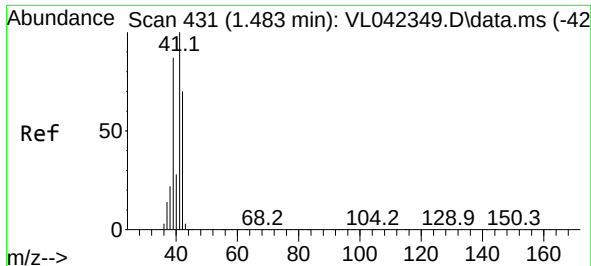


#8  
Dichlorotetrafluoroethane  
Concen: 0.513 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion: 85 Resp: 9381  
Ion Ratio Lower Upper  
85 100  
135 66.2 52.2 78.2





#9

Propene

Concen: 0.574 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 41 Resp: 530

Ion Ratio Lower Upper

41 100

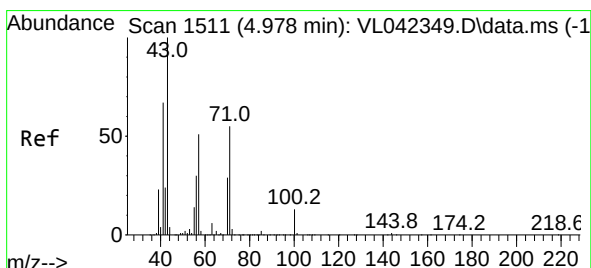
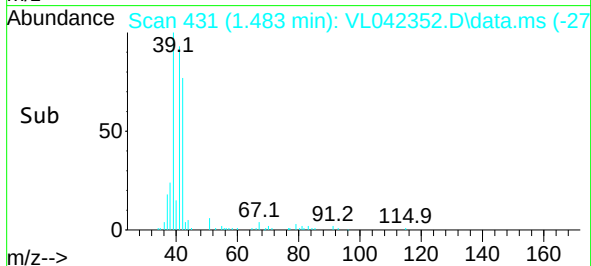
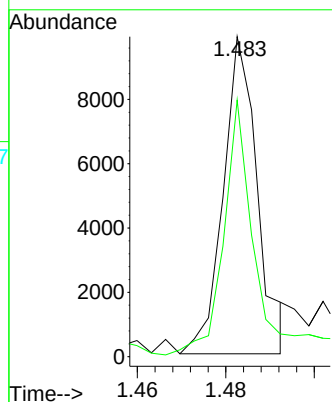
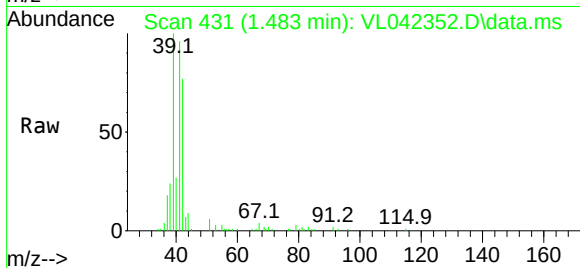
42 64.8 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 0.593 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042352.D

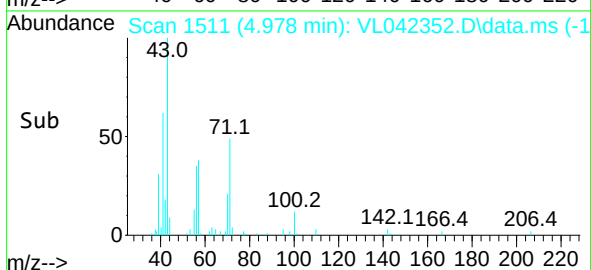
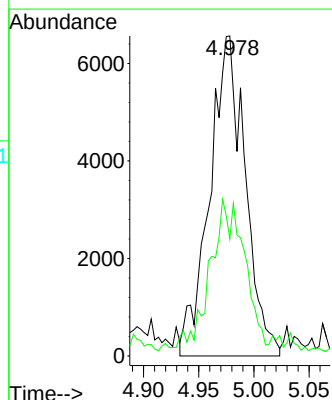
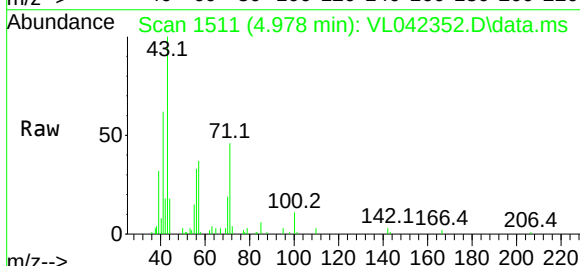
Acq: 17 Apr 2025 11:19

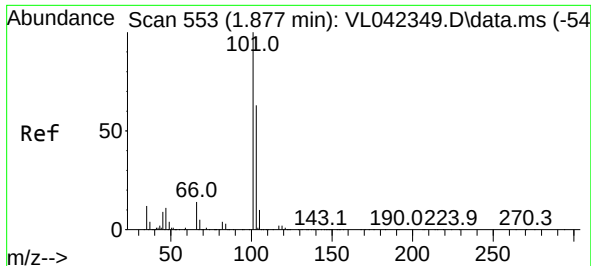
Tgt Ion: 43 Resp: 14728

Ion Ratio Lower Upper

43 100

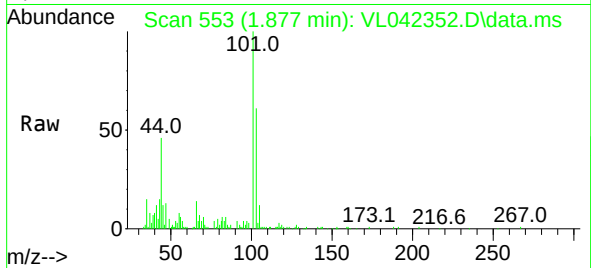
57 51.1 39.9 59.9





#11  
Trichlorofluoromethane  
Concen: 0.501 ppbv  
RT: 1.877 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

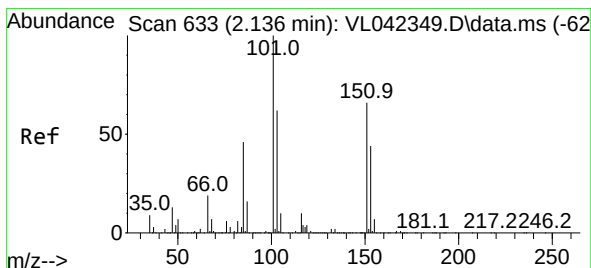
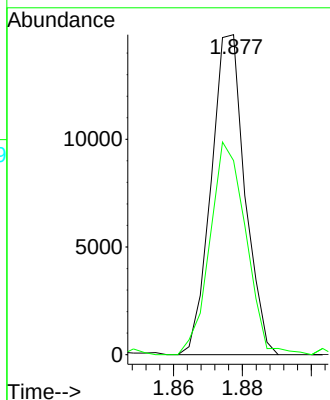
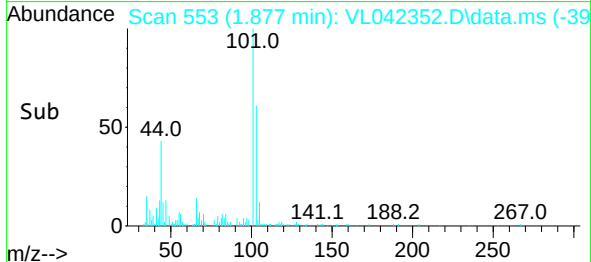
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



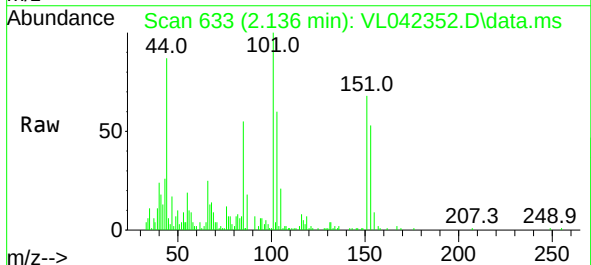
Tgt Ion:101 Resp: 10150  
Ion Ratio Lower Upper  
101 100  
103 60.6 50.1 75.1

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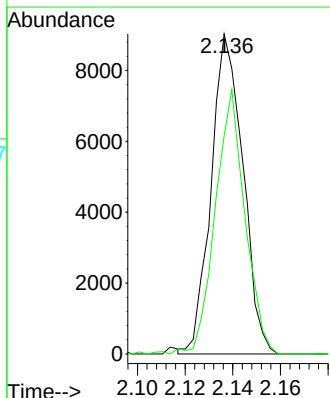
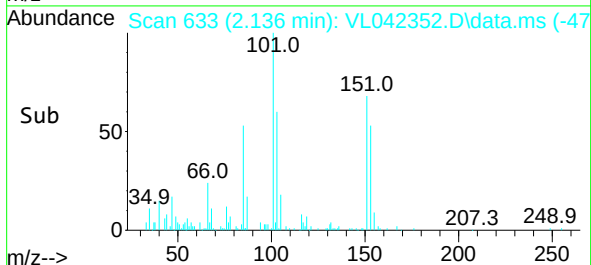
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

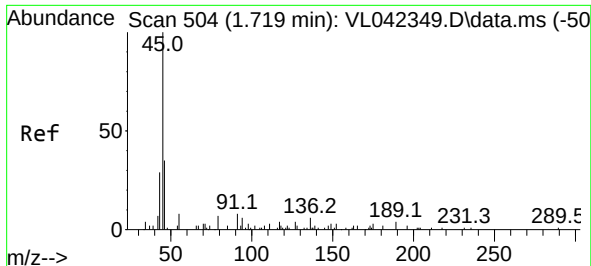


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.506 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



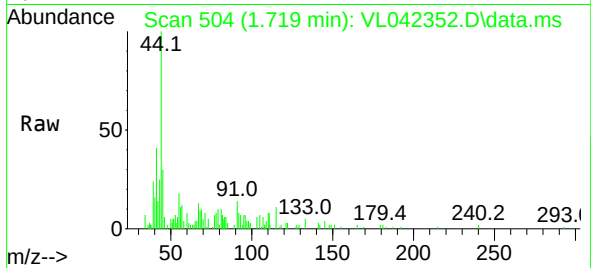
Tgt Ion:101 Resp: 8371  
Ion Ratio Lower Upper  
101 100  
151 77.4 57.0 85.6





#13  
Ethanol  
Concen: 2.194 ppbv m  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

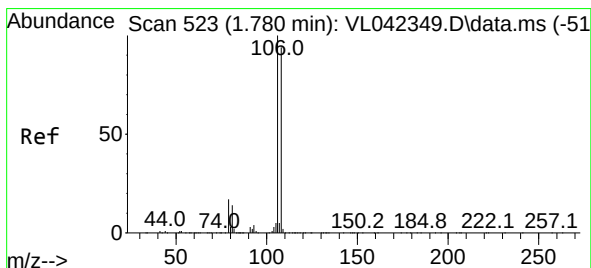
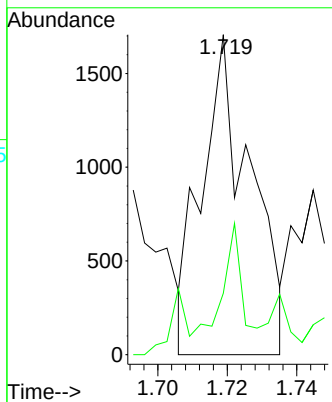
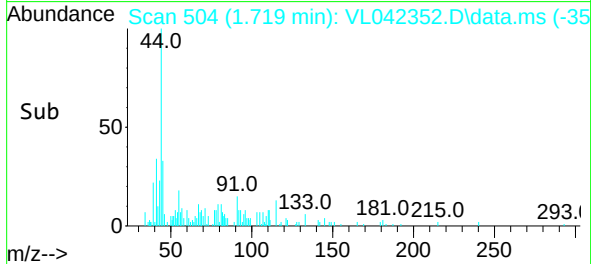
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



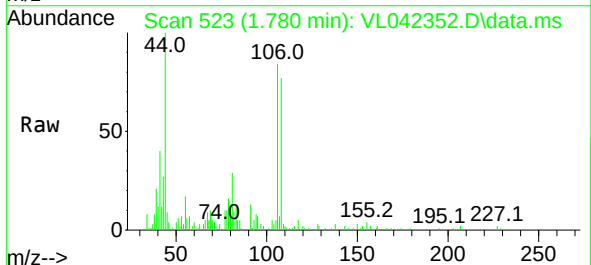
Tgt Ion: 45 Resp: 1650  
Ion Ratio Lower Upper  
45 100  
46 0.0 21.9 87.7

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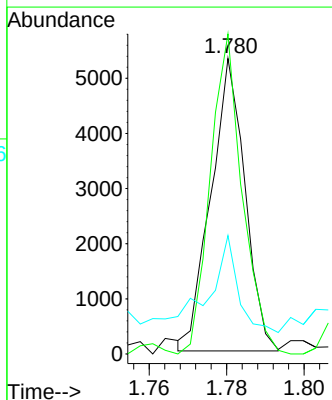
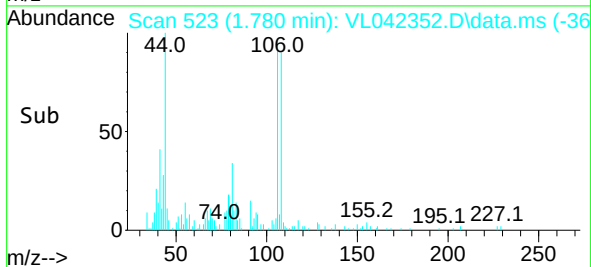
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

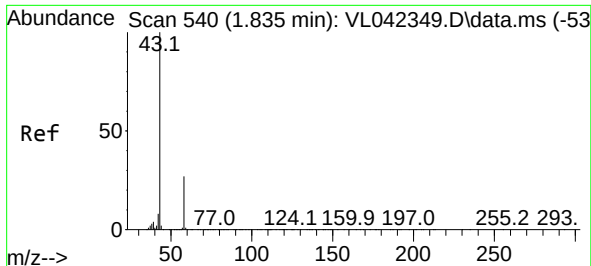


#14  
Bromoethene  
Concen: 0.519 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



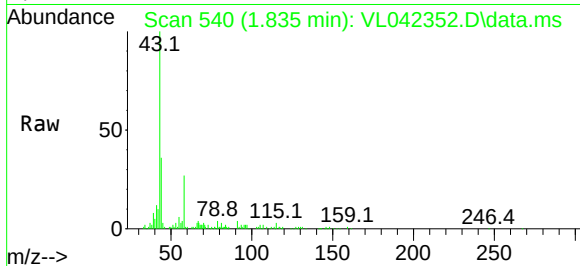
Tgt Ion:108 Resp: 3238  
Ion Ratio Lower Upper  
108 100  
106 110.3 85.9 128.9  
79 33.0 13.9 20.9





#15  
Acetone  
Concen: 0.601 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

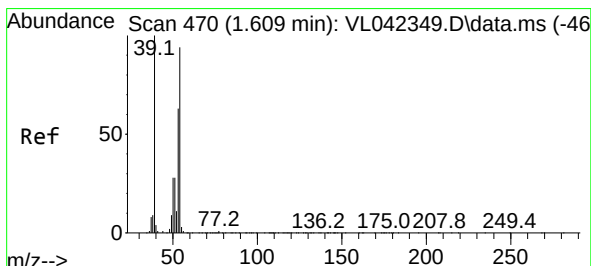
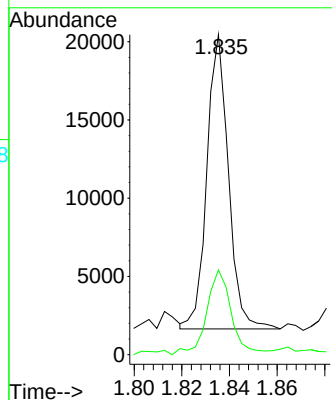
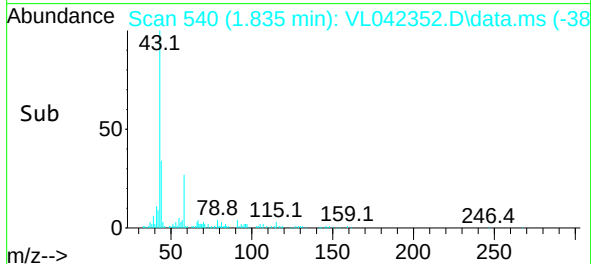
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



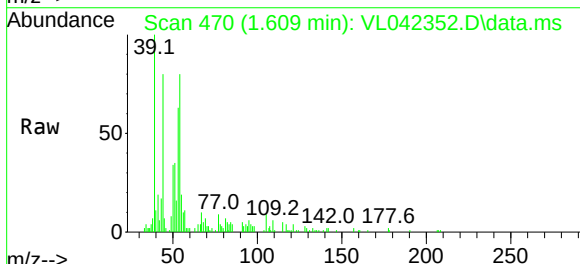
Tgt Ion: 43 Resp: 1185  
Ion Ratio Lower Upper  
43 100  
58 41.7 22.4 33.6

Manual Integrations  
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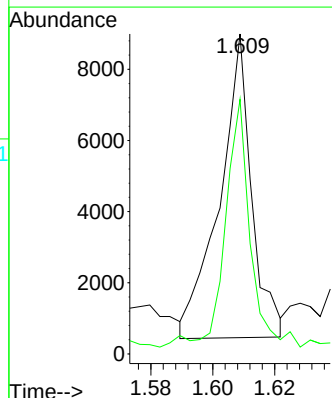
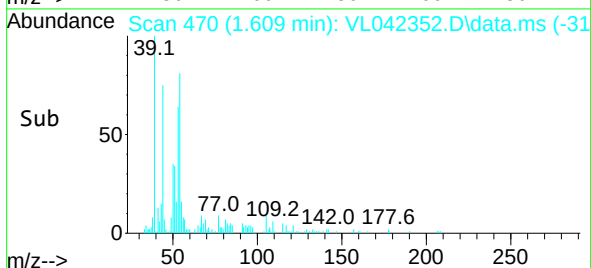
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

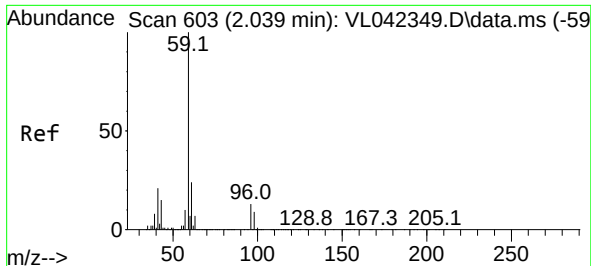


#16  
1,3-Butadiene  
Concen: 0.660 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion: 39 Resp: 6120  
Ion Ratio Lower Upper  
39 100  
54 64.7 64.9 97.3





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

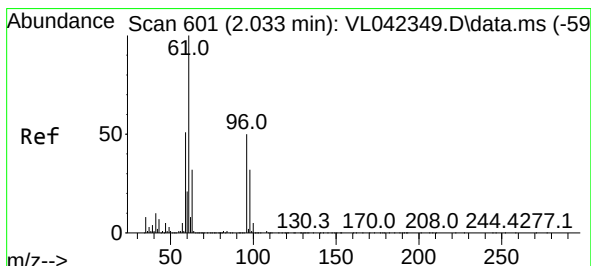
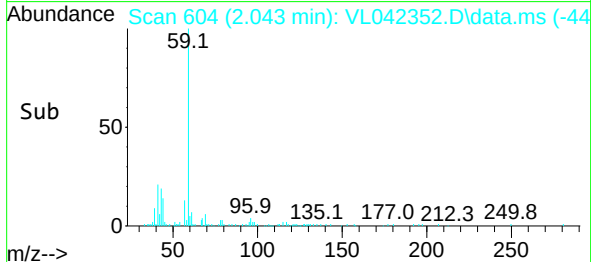
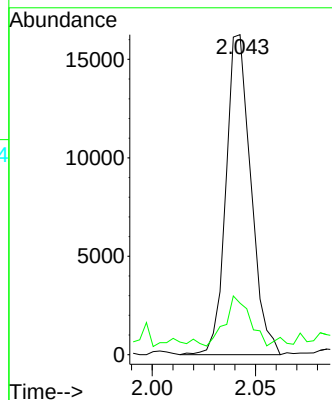
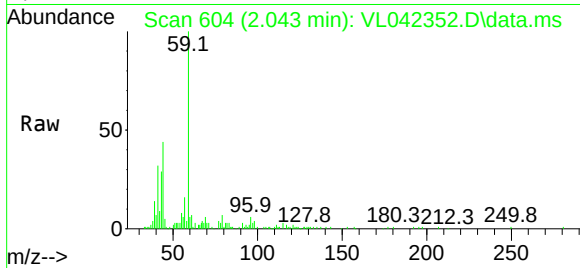
57 16.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 0.556 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

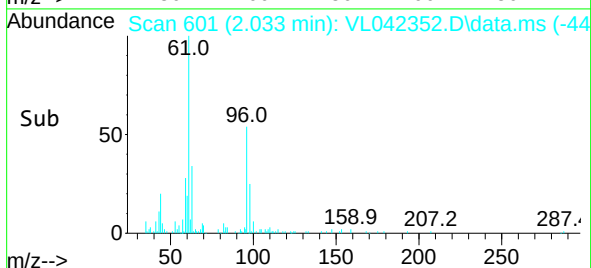
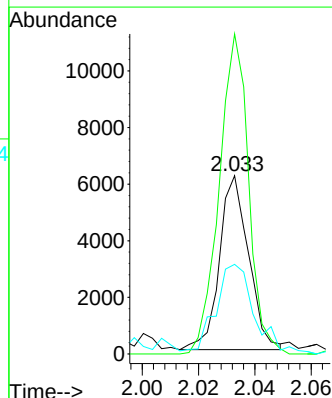
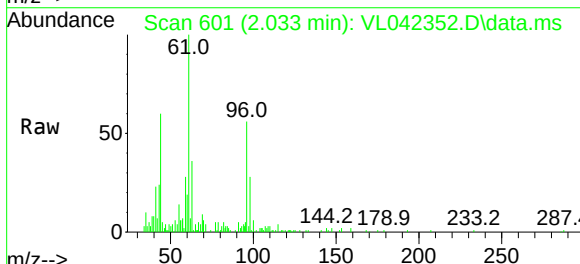
Tgt Ion: 96 Resp: 4430

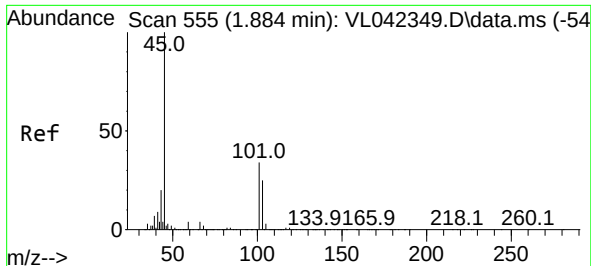
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

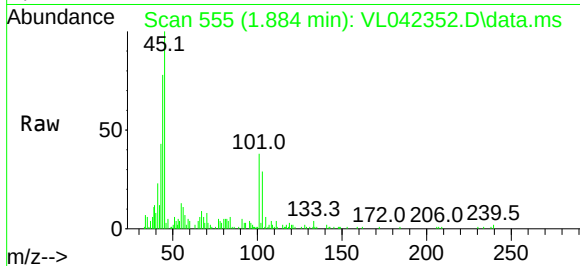
98 49.7 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 0.577 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

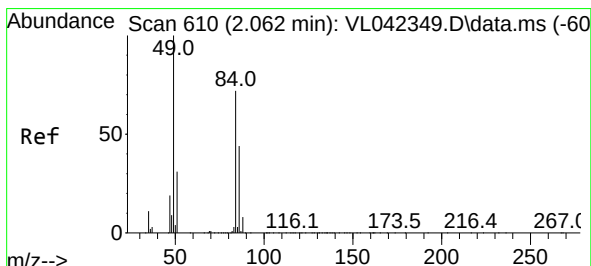
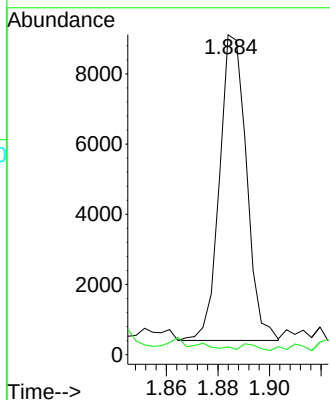
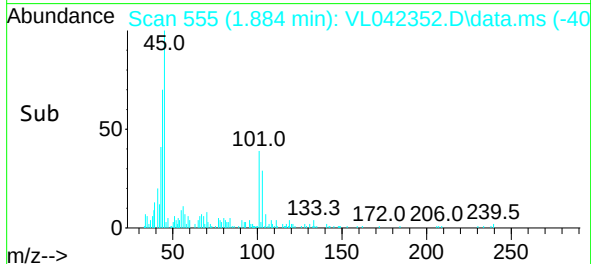
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



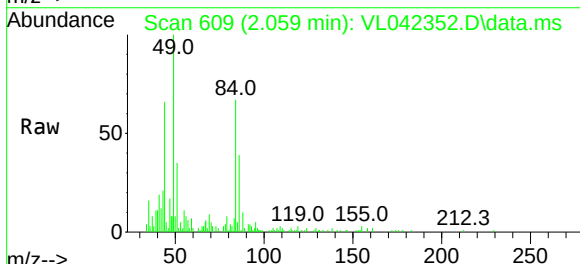
Tgt Ion: 45 Resp: 632  
Ion Ratio Lower Upper  
45 100  
58 3.8 34.5 51.7

Manual Integrations  
APPROVED

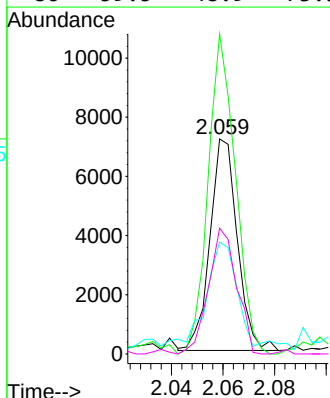
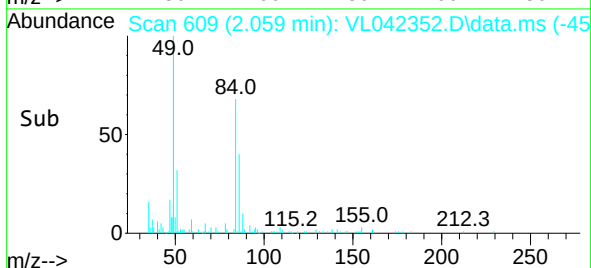
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

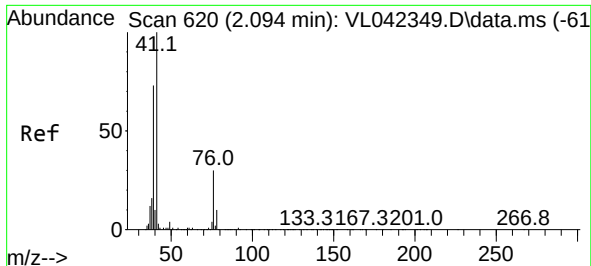


#20  
Methylene Chloride  
Concen: 0.682 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



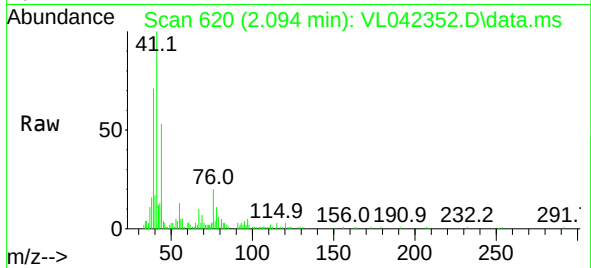
Tgt Ion: 84 Resp: 5273  
Ion Ratio Lower Upper  
84 100  
49 151.3 111.6 167.4  
51 48.1 35.1 52.7  
86 59.5 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 0.565 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

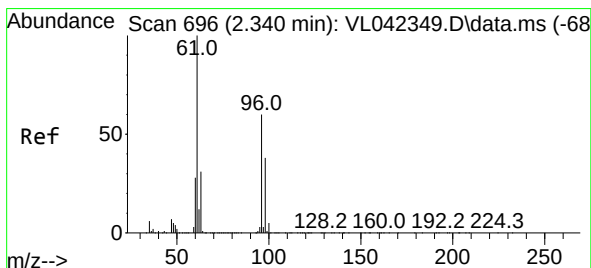
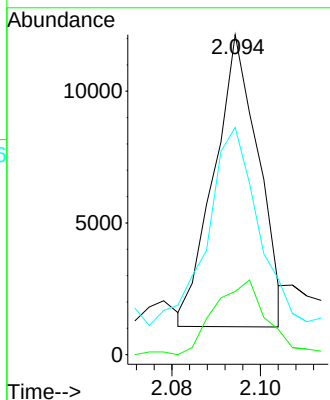
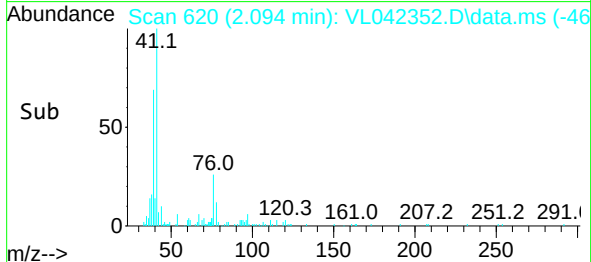
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



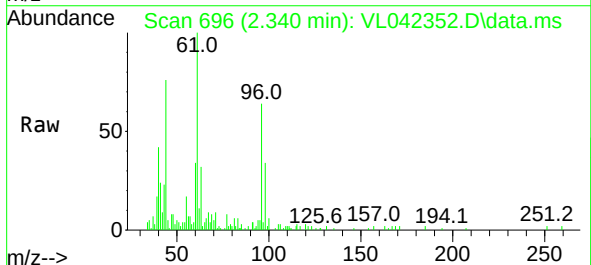
Tgt Ion: 41 Resp: 7692  
 Ion Ratio Lower Upper  
 41 100  
 76 31.1 24.8 37.2  
 39 98.8 60.6 90.8

Manual Integrations  
 APPROVED

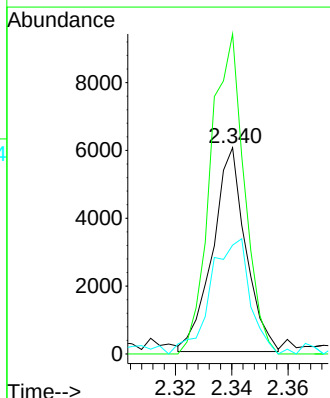
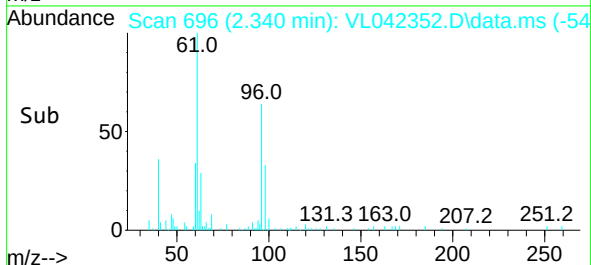
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



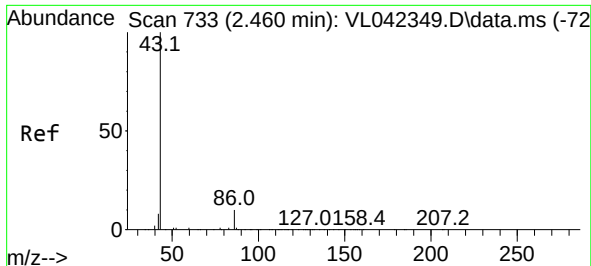
#22  
 trans-1,2-Dichloroethene  
 Concen: 0.557 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19



Tgt Ion: 96 Resp: 4908  
 Ion Ratio Lower Upper  
 96 100  
 61 158.7 133.7 200.5  
 98 54.0 50.3 75.5







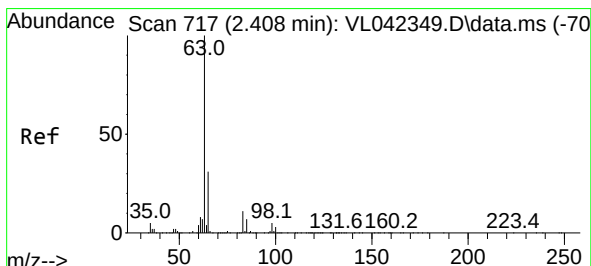
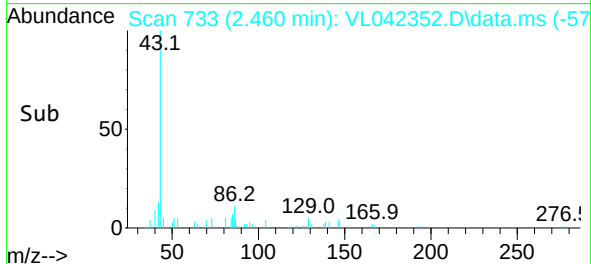
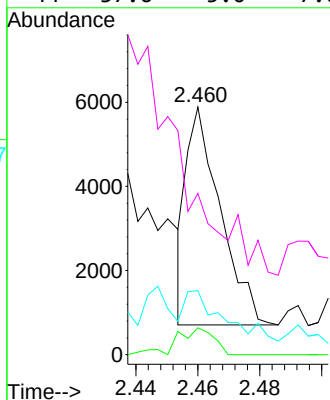
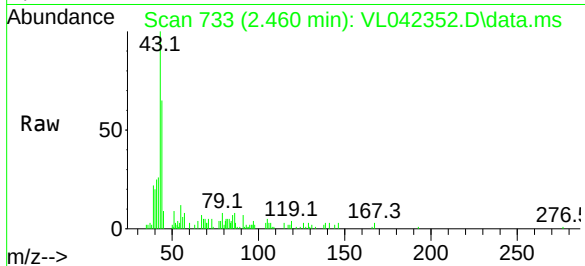
#23  
 Vinyl Acetate  
 Concen: 0.495 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion: 43 Resp: 395  
 Ion Ratio Lower Upper  
 43 100  
 86 12.4 6.5 9.7  
 42 23.2 7.8 11.8  
 44 37.6 5.0 7.6

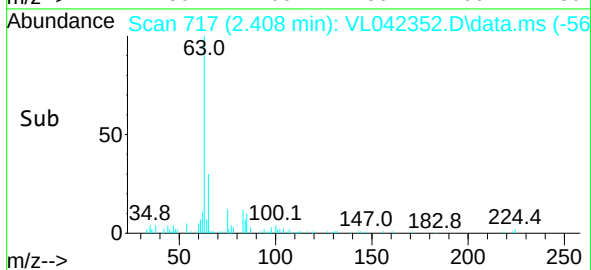
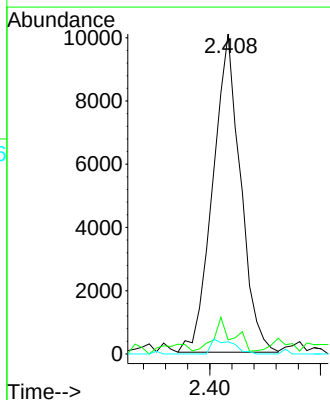
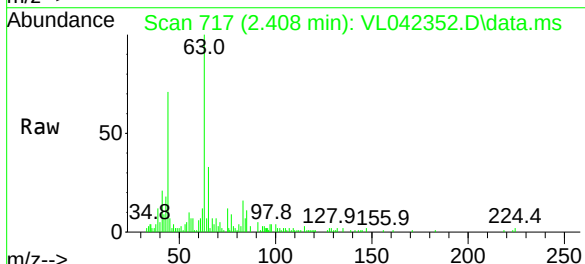
Manual Integrations  
 APPROVED

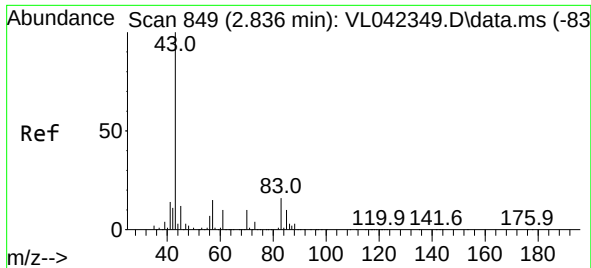
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#24  
 1,1-Dichloroethane  
 Concen: 0.523 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 63 Resp: 8753  
 Ion Ratio Lower Upper  
 63 100  
 98 1.4 2.3 6.8  
 100 3.8 1.6 4.8





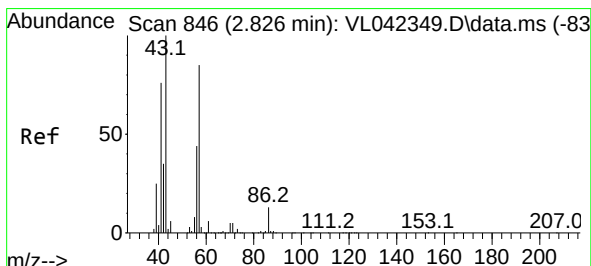
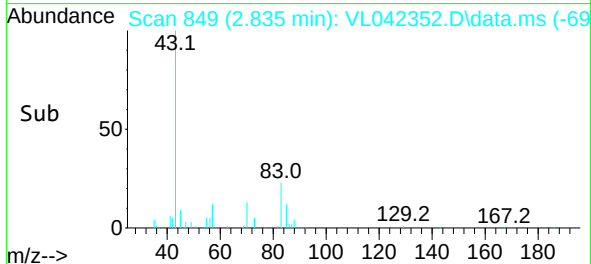
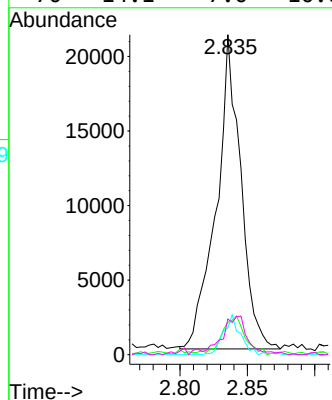
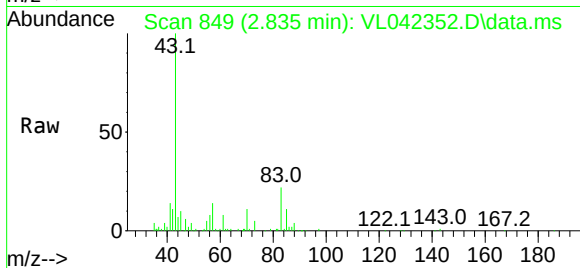
#25  
Ethyl Acetate  
Concen: 0.548 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 26680 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 13.3     | 8.3 12.5    |
| 61 9.0      | 7.3 10.9    |
| 70 14.1     | 7.0 10.6    |

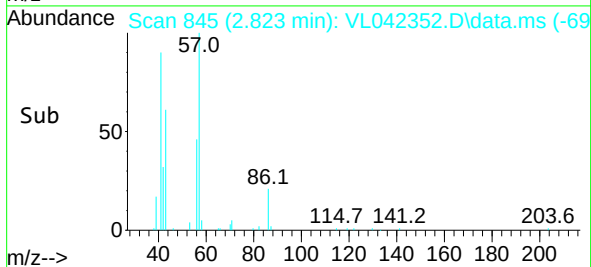
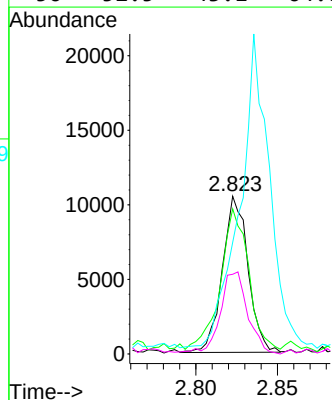
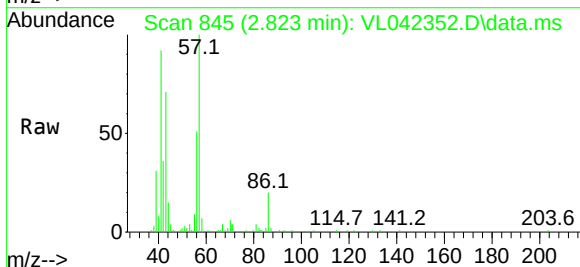
Manual Integrations  
APPROVED

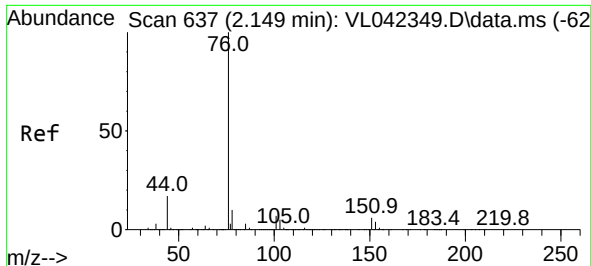
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#26  
Hexane  
Concen: 0.581 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 11448 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 103.5    | 77.9 116.9  |
| 43 240.0    | 208.4 312.6 |
| 56 52.5     | 43.1 64.7   |





#27

Carbon Disulfide

Concen: 0.544 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

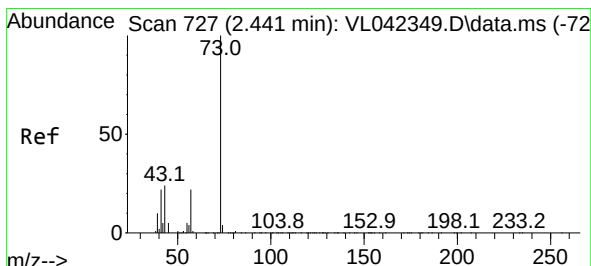
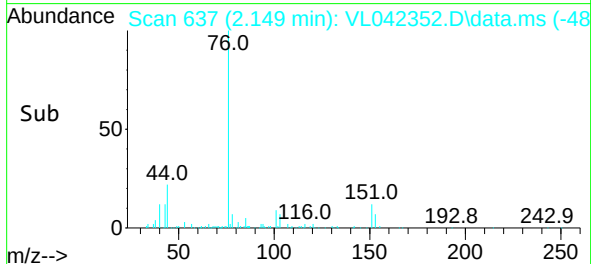
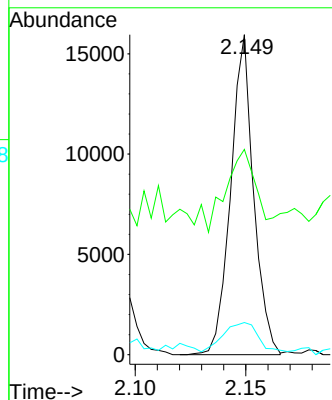
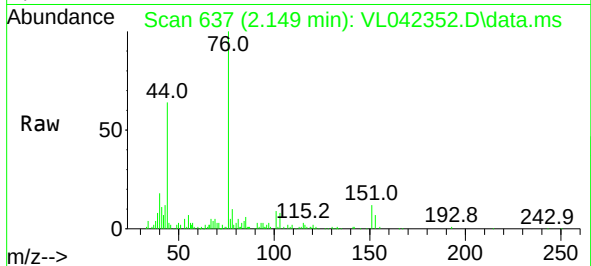
VSTDICC0.5

Tgt Ion: 76 Resp: 11472  
 Ion Ratio Lower Upper  
 76 100  
 44 123.7 15.5 23.3  
 78 18.8 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#28

Methyl tert-Butyl Ether

Concen: 0.530 ppbv

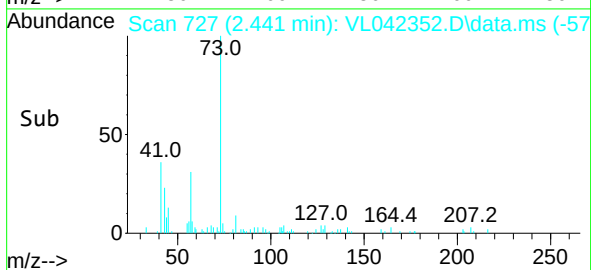
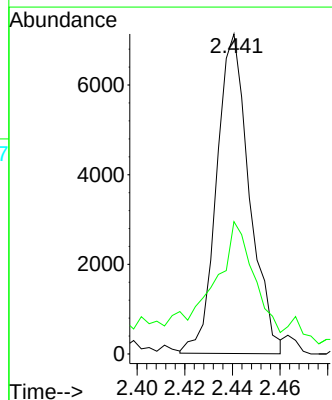
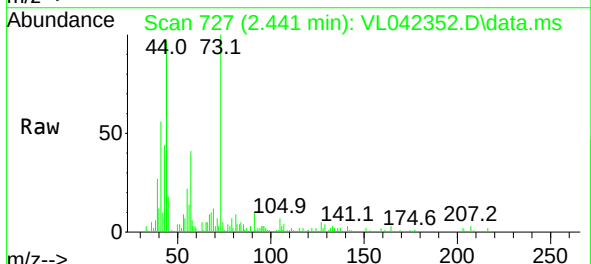
RT: 2.441 min Scan# 727

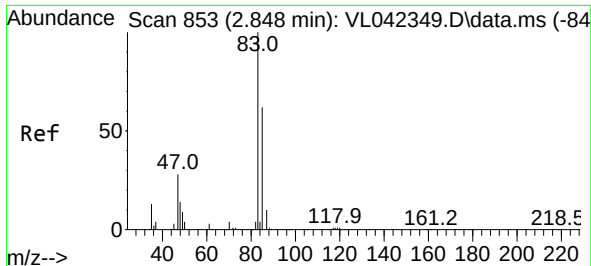
Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833  
 Ion Ratio Lower Upper  
 73 100  
 57 61.8 21.3 31.9





#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 1481

Ion Ratio Lower Upper

83 100

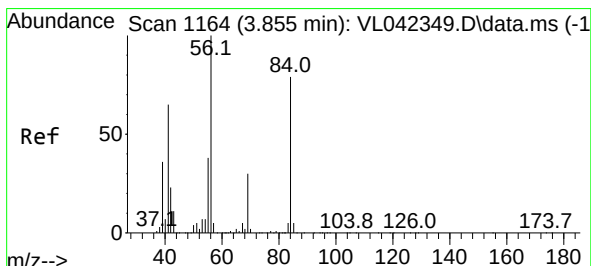
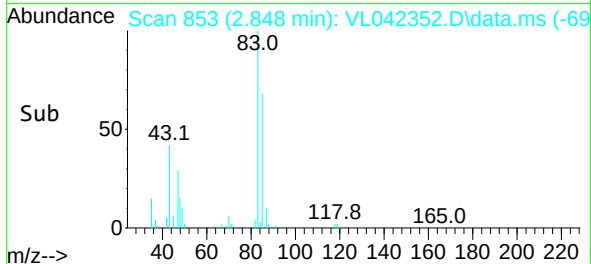
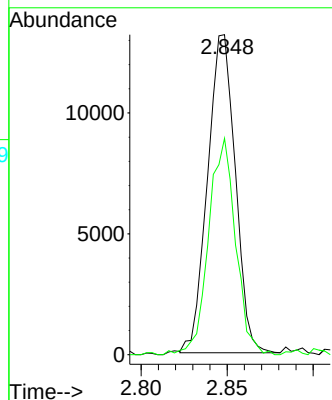
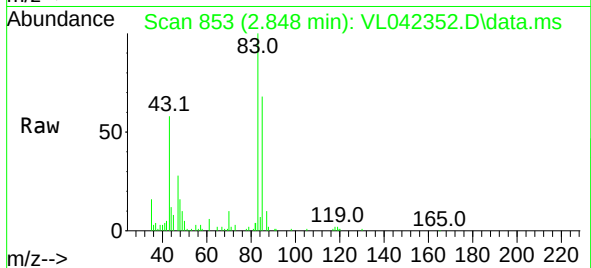
85 68.0 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 0.541 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

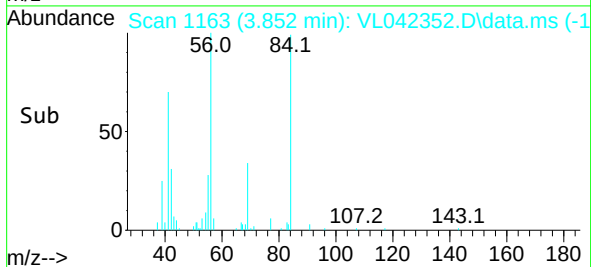
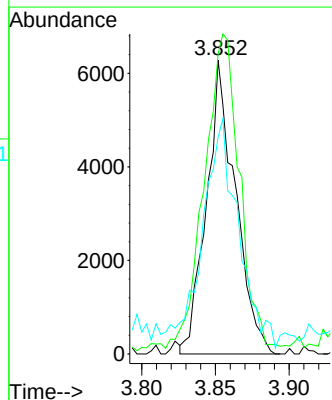
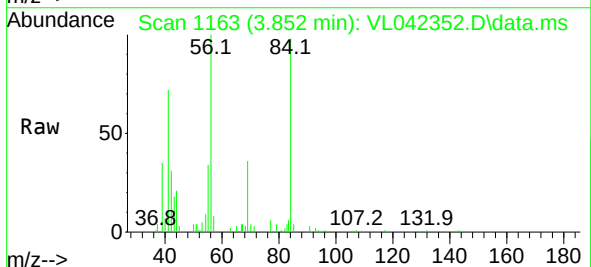
Tgt Ion: 84 Resp: 8572

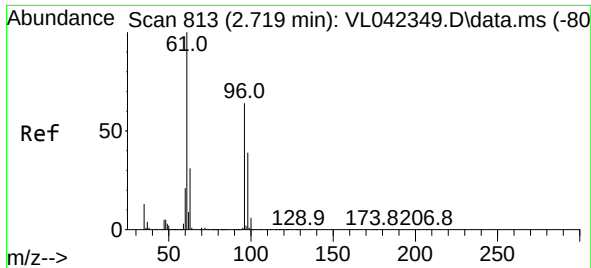
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

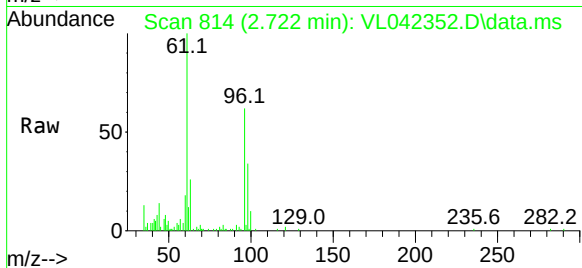
41 89.8 67.4 101.0





#31  
cis-1,2-Dichloroethene  
Concen: 0.511 ppbv  
RT: 2.722 min Scan# 813  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

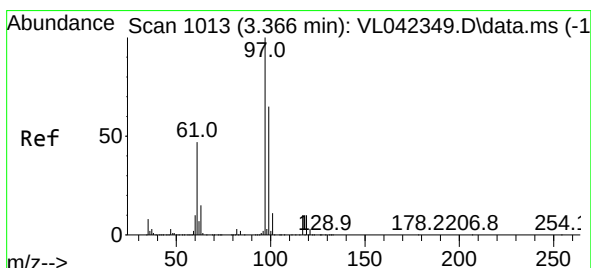
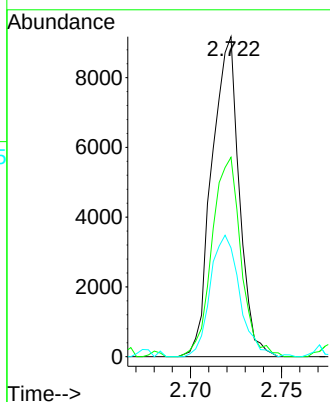
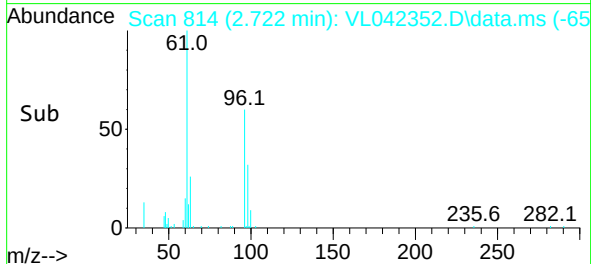
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



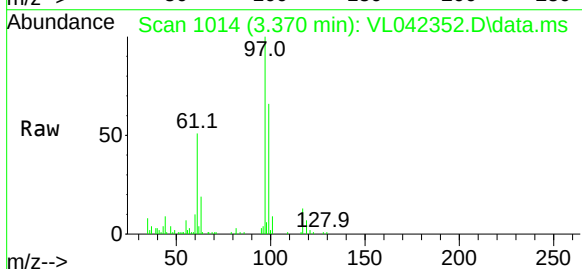
Tgt Ion: 61 Resp: 957  
Ion Ratio Lower Upper  
61 100  
96 62.3 50.8 76.2  
98 34.0 30.9 46.3

Manual Integrations  
APPROVED

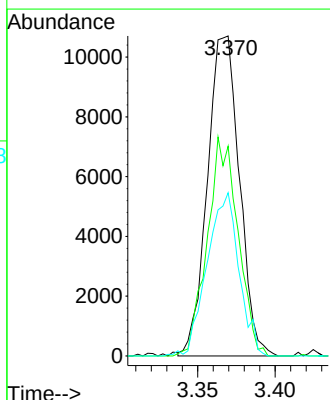
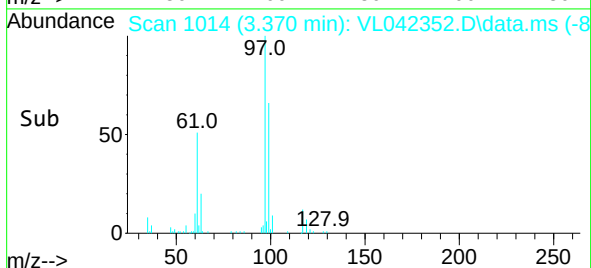
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

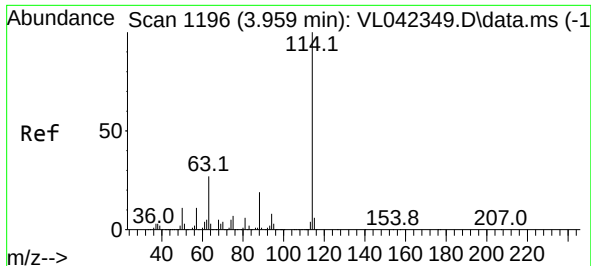


#32  
1,1,1-Trichloroethane  
Concen: 0.516 ppbv  
RT: 3.370 min Scan# 1014  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



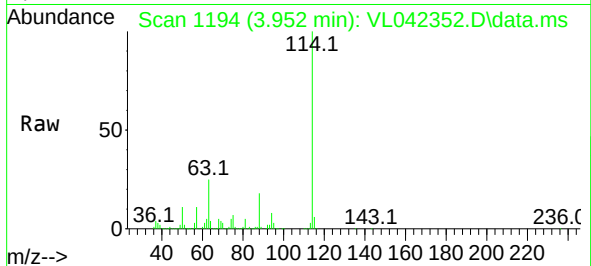
Tgt Ion: 97 Resp: 15413  
Ion Ratio Lower Upper  
97 100  
99 65.6 51.0 76.4  
61 50.8 38.8 58.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.952 min Scan# 1194  
Delta R.T. -0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

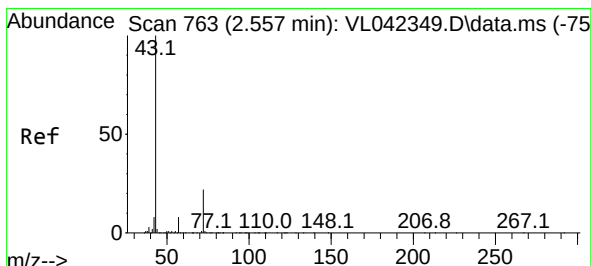
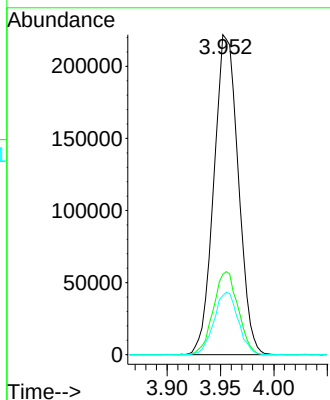
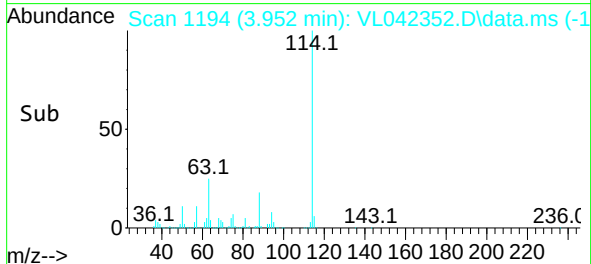
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



Tgt Ion: 114 Resp: 35313  
Ion Ratio Lower Upper  
114 100  
63 26.3 21.8 32.6  
88 19.4 15.5 23.3

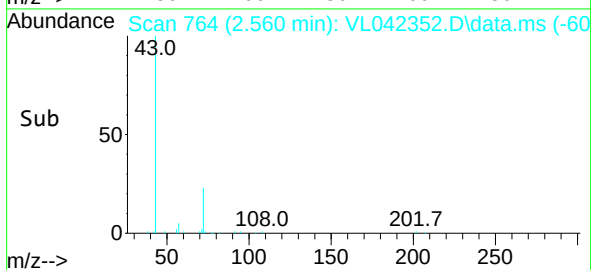
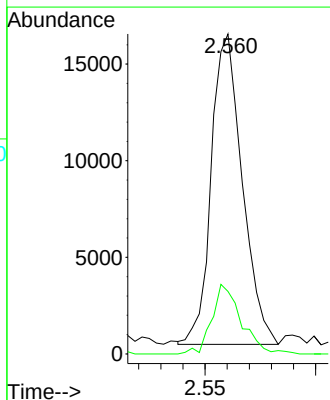
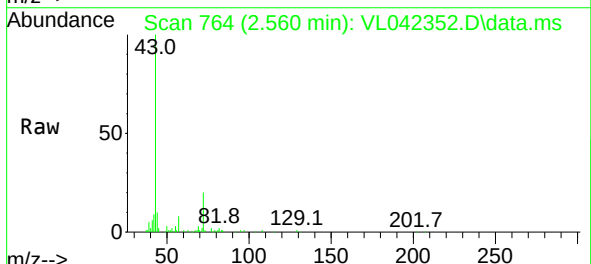
Manual Integrations  
APPROVED

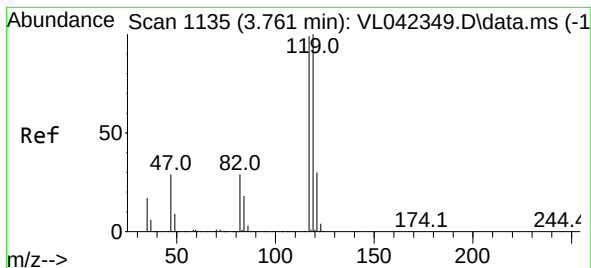
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#34  
2-Butanone  
Concen: 0.560 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640  
Ion Ratio Lower Upper  
43 100  
72 21.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.459 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

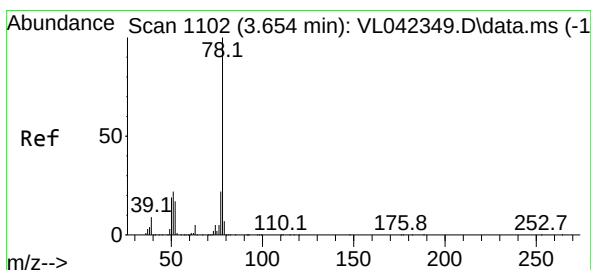
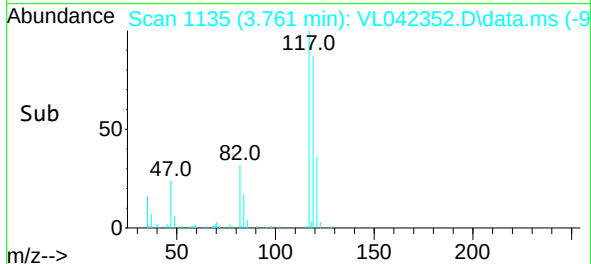
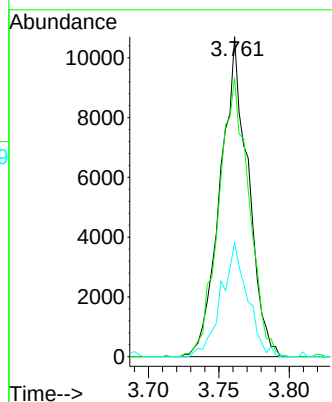
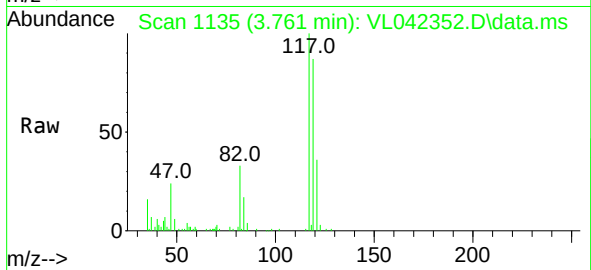
VSTDIC0.5

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:117 | Resp: | 1468       |
| Ion Ratio   | Lower | Upper      |
| 117         | 100   |            |
| 119         | 87.2  | 80.5 120.7 |
| 121         | 35.6  | 24.2 36.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.531 ppbv

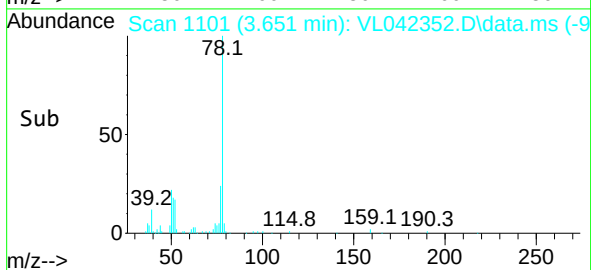
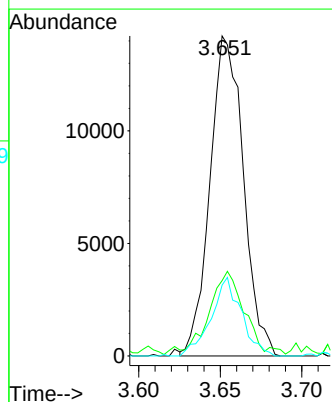
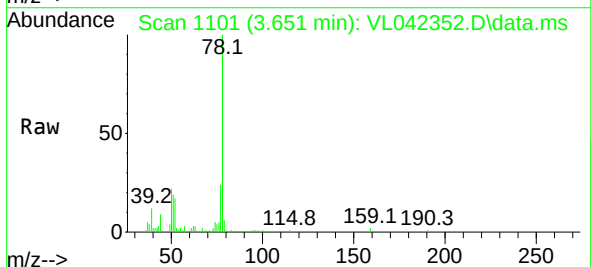
RT: 3.651 min Scan# 1101

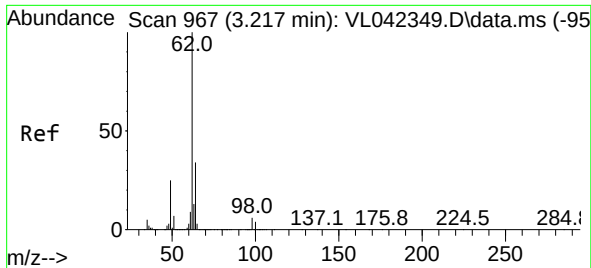
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 78 | Resp: | 20233     |
| Ion Ratio   | Lower | Upper     |
| 78          | 100   |           |
| 77          | 21.7  | 17.4 26.0 |
| 50          | 22.1  | 15.5 23.3 |





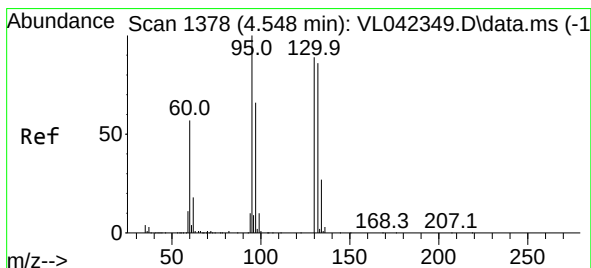
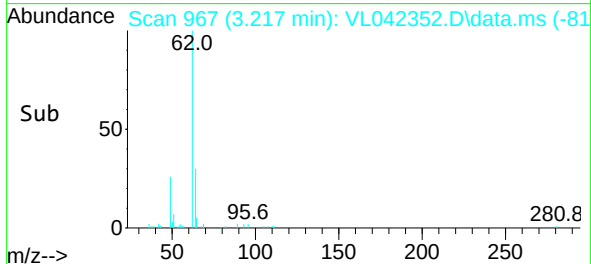
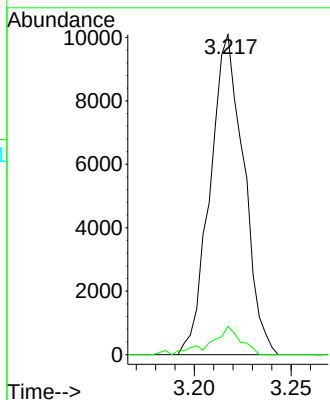
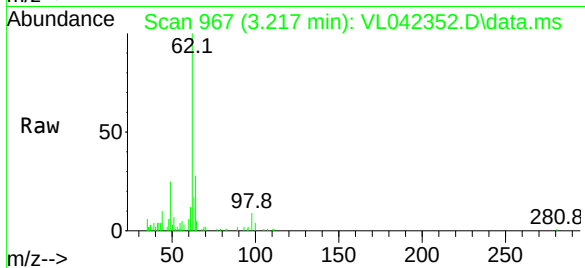
#37  
1,2-Dichloroethane  
Concen: 0.533 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 62 Resp: 12194  
Ion Ratio Lower Upper  
62 100  
98 8.1 5.1 7.7

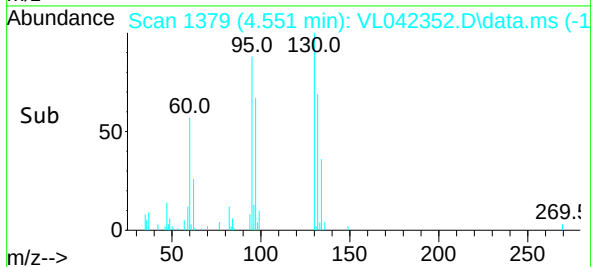
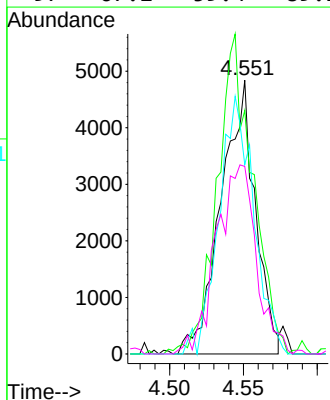
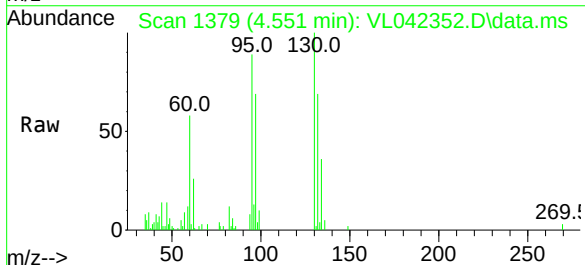
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

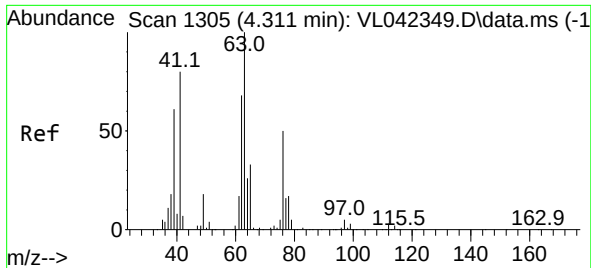


#38  
Trichloroethene  
Concen: 0.468 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819  
Ion Ratio Lower Upper  
130 100  
95 86.2 89.8 134.6#  
132 69.1 77.7 116.5#  
97 67.2 59.4 89.2







#39

1,2-Dichloropropane

Concen: 0.548 ppbv m

RT: 4.308 min Scan# 1304

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

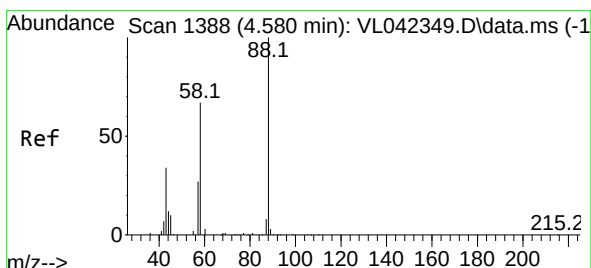
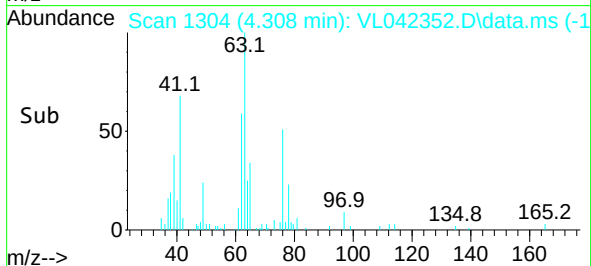
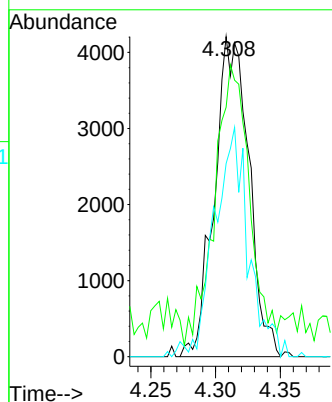
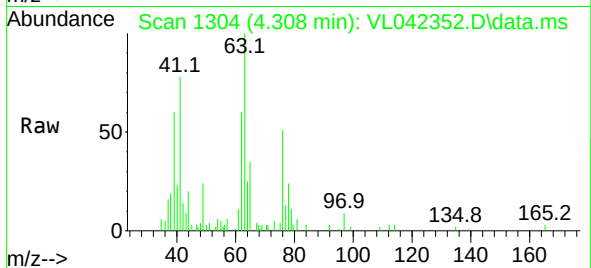
VSTDICC0.5

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 7790  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 78.0     | 64.2 96.2   |
| 62 60.4     | 54.3 81.5   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 0.603 ppbv m

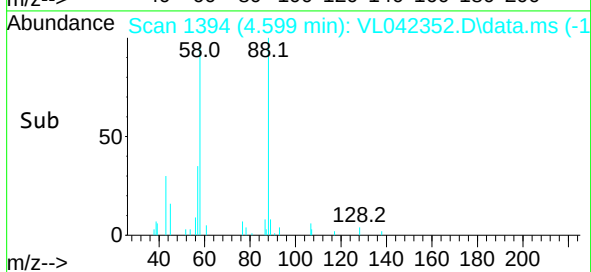
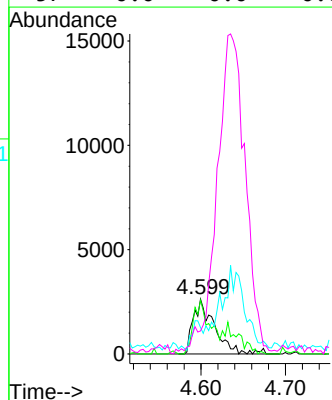
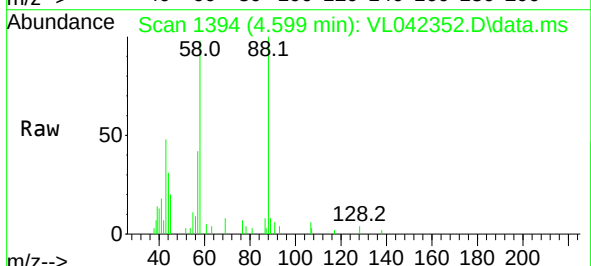
RT: 4.599 min Scan# 1394

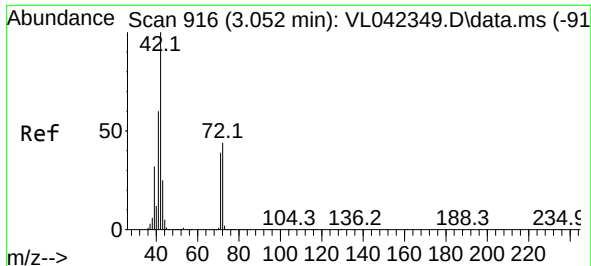
Delta R.T. 0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

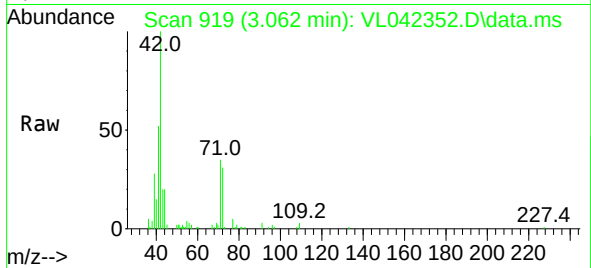
|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 4637  |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 58 118.1    | 61.4 92.0#  |
| 43 0.0      | 23.2 34.8#  |
| 57 0.0      | 0.0 0.0     |





#41  
Tetrahydrofuran  
Concen: 0.567 ppbv m  
RT: 3.062 min Scan# 916  
Delta R.T. 0.010 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

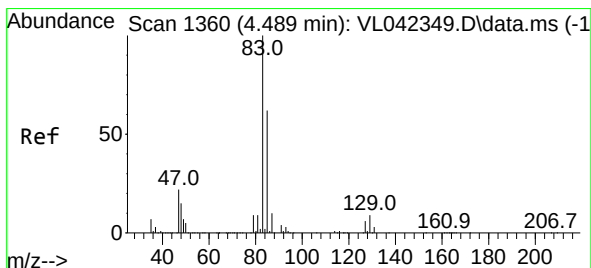
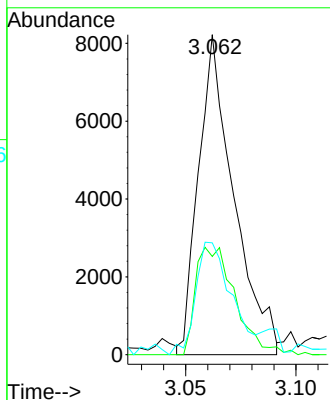
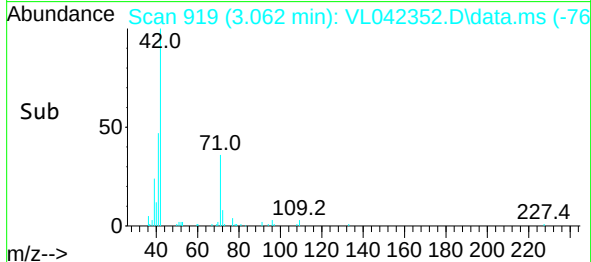
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



Tgt Ion: 42 Resp: 9144  
Ion Ratio Lower Upper  
42 100  
72 37.7 32.3 48.5  
71 43.1 31.4 47.2

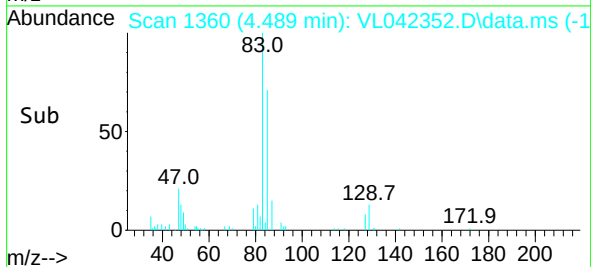
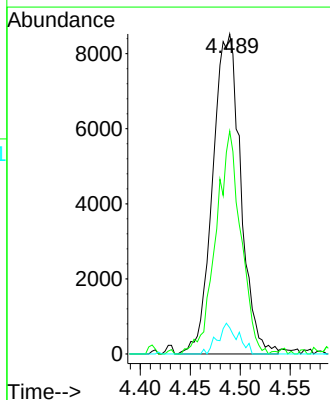
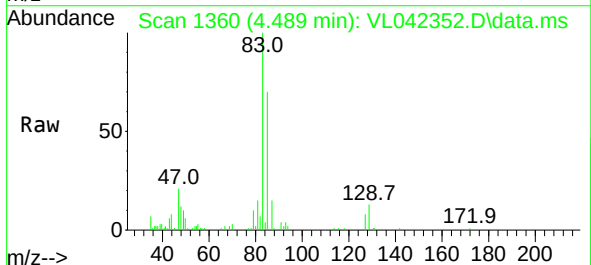
Manual Integrations  
APPROVED

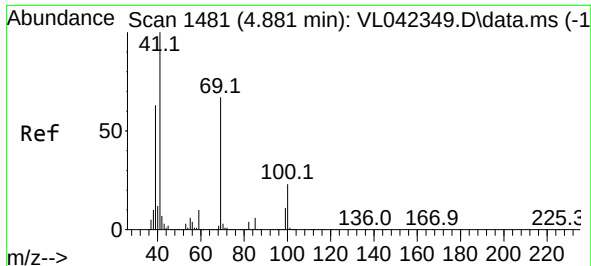
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#42  
Bromodichloromethane  
Concen: 0.523 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

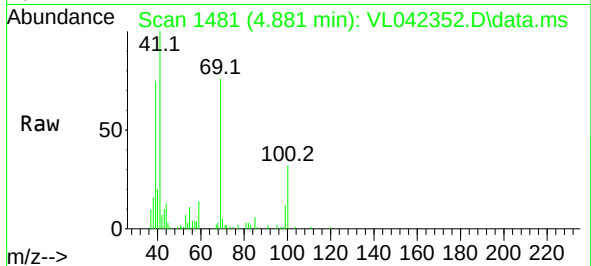
Tgt Ion: 83 Resp: 16642  
Ion Ratio Lower Upper  
83 100  
85 69.6 49.7 74.5  
127 8.2 5.1 7.7#





#43  
Methyl Methacrylate  
Concen: 0.563 ppbv m  
RT: 4.881 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

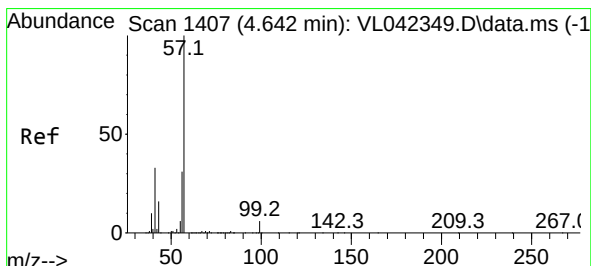
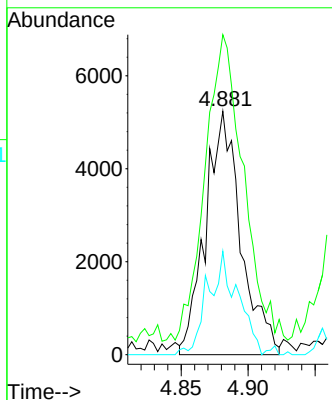
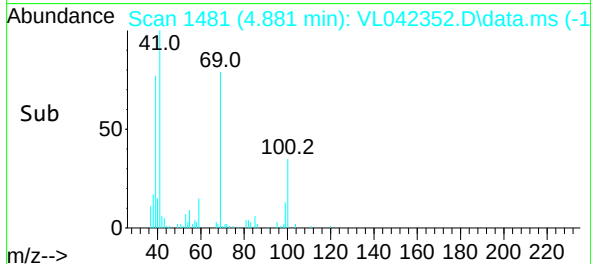
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



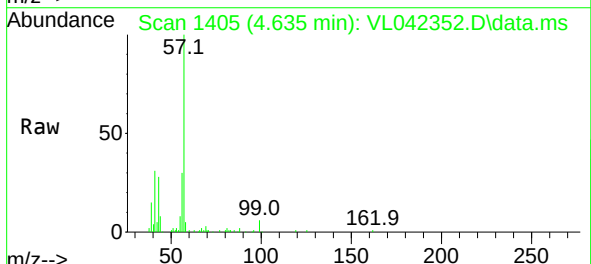
Tgt Ion: 69 Resp: 9620  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.6 177.8  
100 0.0 28.2 42.2

Manual Integrations  
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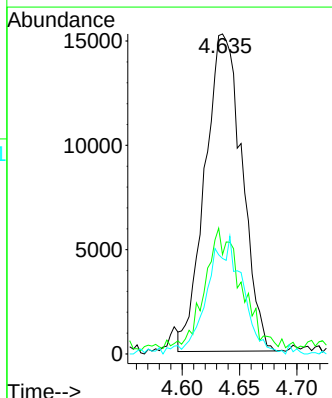
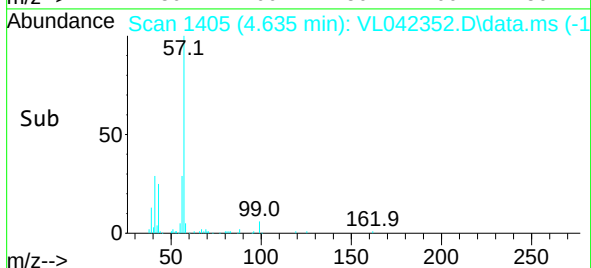
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

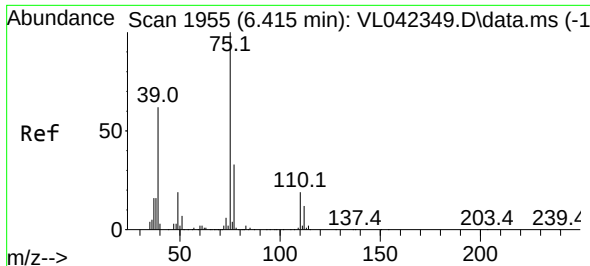


#44  
2,2,4-Trimethylpentane  
Concen: 0.519 ppbv  
RT: 4.635 min Scan# 1405  
Delta R.T. -0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



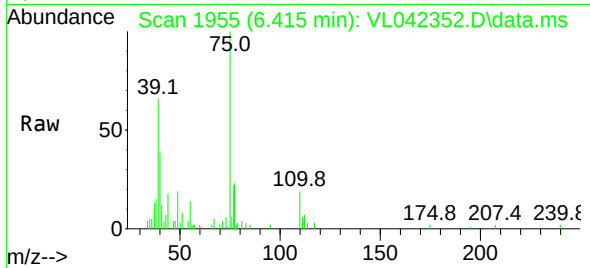
Tgt Ion: 57 Resp: 34170  
Ion Ratio Lower Upper  
57 100  
41 39.1 27.2 40.8  
56 37.1 25.7 38.5





#45  
t-1,3-Dichloropropene  
Concen: 0.517 ppbv m  
RT: 6.415 min Scan# 1955  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

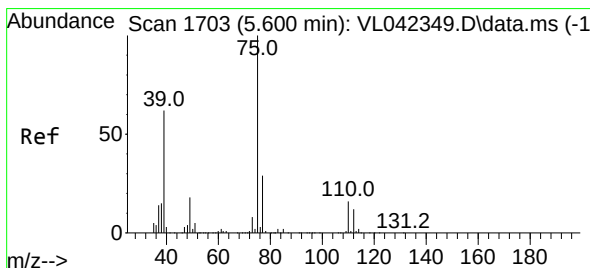
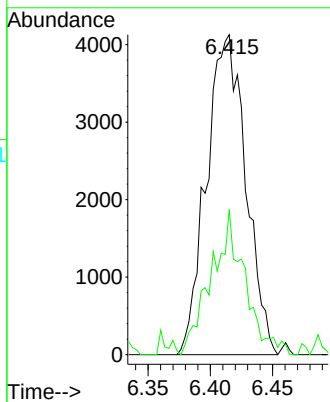
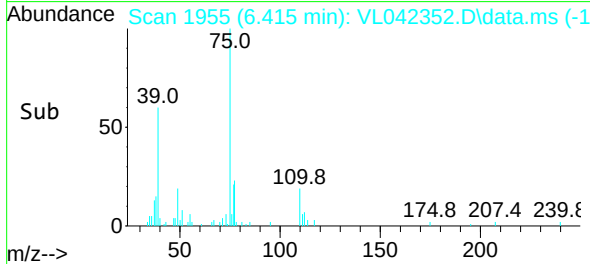
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 75 Resp: 907  
Ion Ratio Lower Upper  
75 100  
77 23.1 27.0 40.6

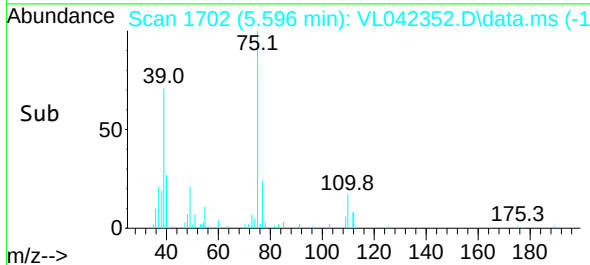
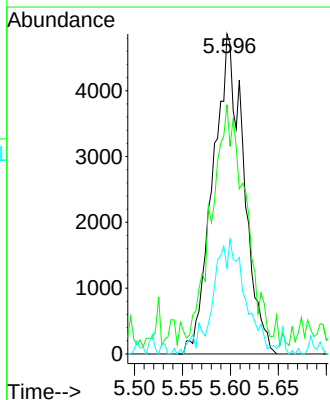
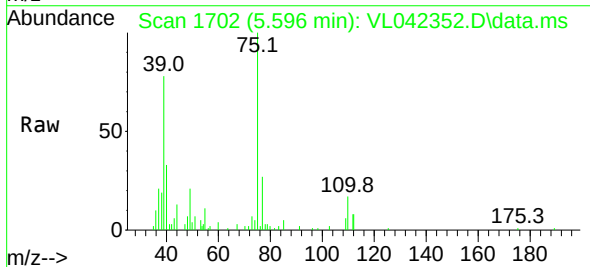
Manual Integrations  
APPROVED

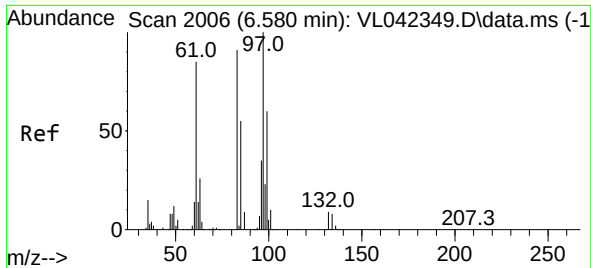
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#46  
cis-1,3-Dichloropropene  
Concen: 0.505 ppbv m  
RT: 5.596 min Scan# 1702  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 10827  
Ion Ratio Lower Upper  
75 100  
39 77.9 50.0 75.0#  
77 26.9 23.0 34.6





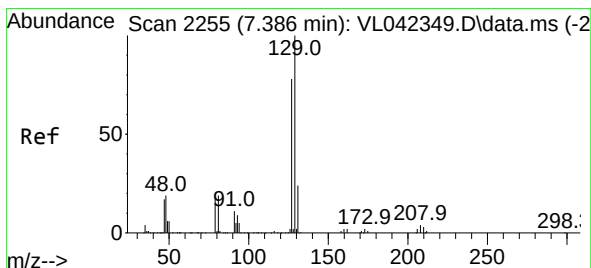
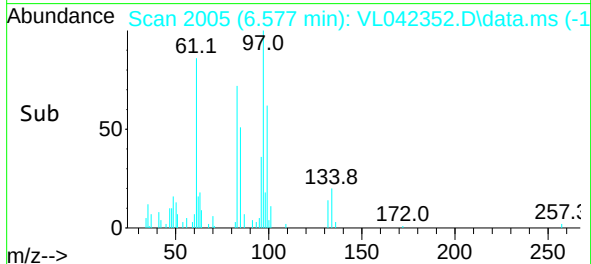
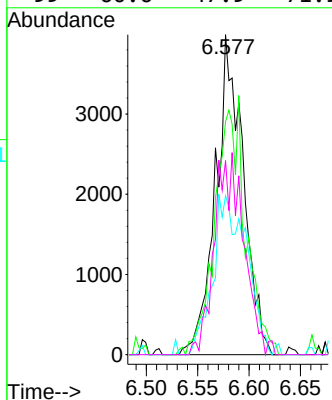
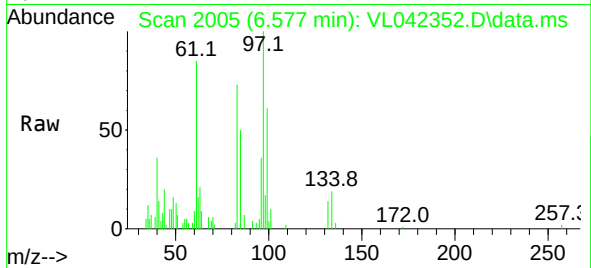
#47  
1,1,2-Trichloroethane  
Concen: 0.516 ppbv m  
RT: 6.577 min Scan# 2005  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 97 Resp: 7460  
Ion Ratio Lower Upper  
97 100  
83 72.9 72.8 109.2  
85 49.6 44.2 66.4  
99 60.6 47.9 71.9

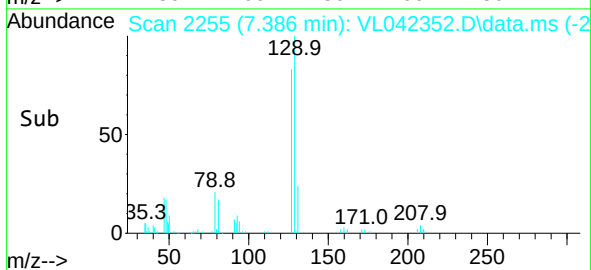
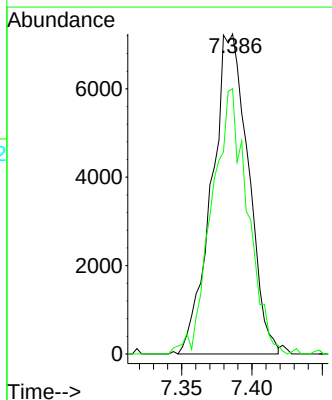
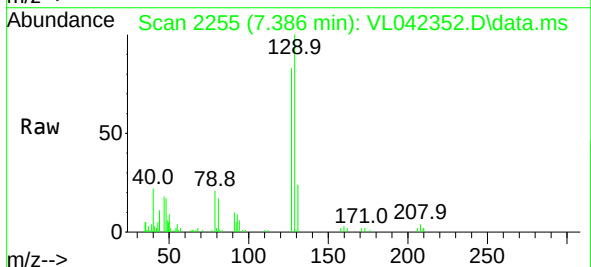
Manual Integrations  
APPROVED

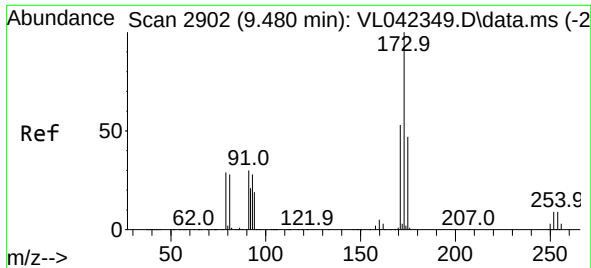
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#48  
Dibromochloromethane  
Concen: 0.514 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:129 Resp: 13122  
Ion Ratio Lower Upper  
129 100  
127 80.9 39.1 117.3





#49

Bromoform

Concen: 0.492 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

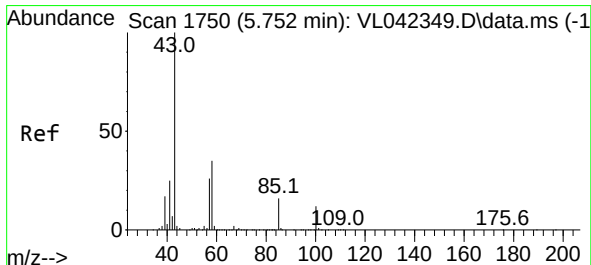
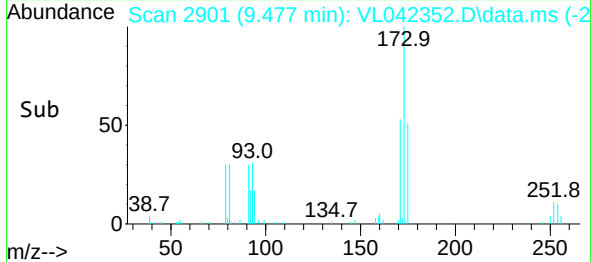
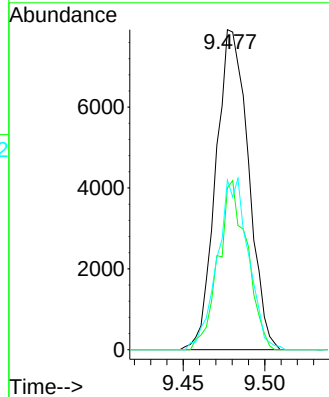
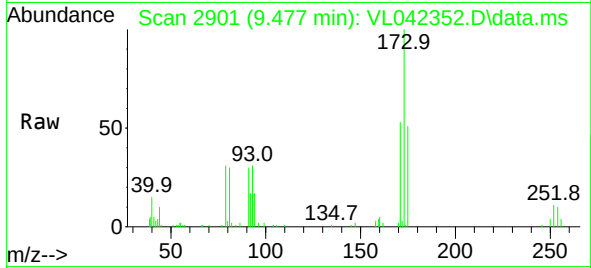
VSTDICC0.5

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:173 | Resp: | 1098      |
| Ion Ratio   | Lower | Upper     |
| 173         | 100   |           |
| 175         | 46.8  | 38.2 57.2 |
| 171         | 51.2  | 40.9 61.3 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 0.585 ppbv m

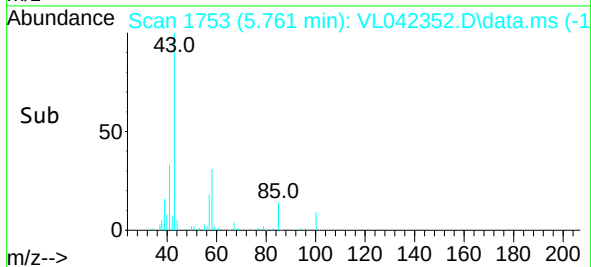
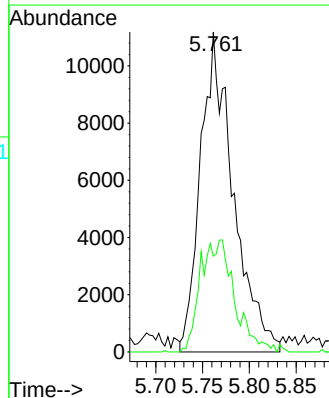
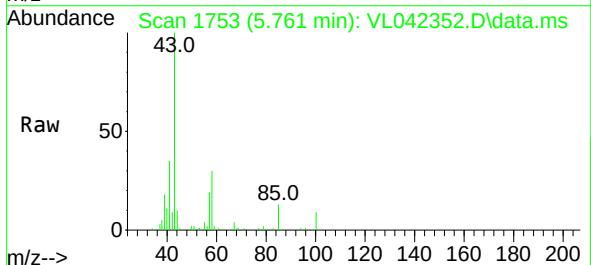
RT: 5.761 min Scan# 1753

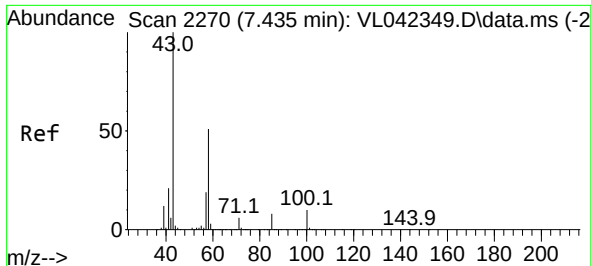
Delta R.T. 0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 43 | Resp: | 27206      |
| Ion Ratio   | Lower | Upper      |
| 43          | 100   |            |
| 58          | 0.0   | 28.6 43.0# |





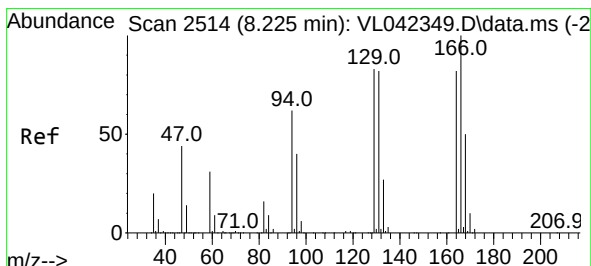
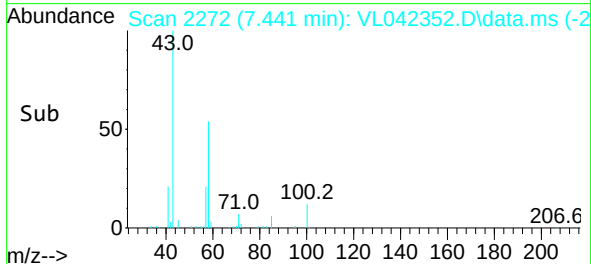
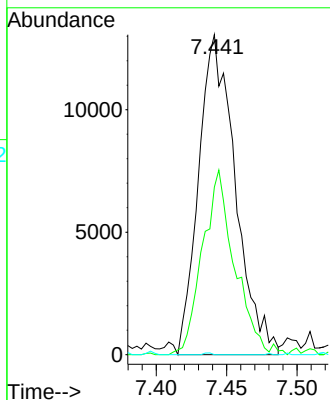
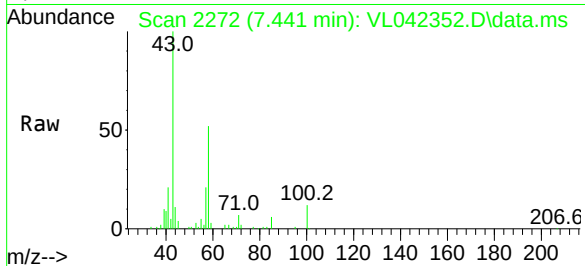
#51  
2-Hexanone  
Concen: 0.564 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 43 Resp: 23684  
Ion Ratio Lower Upper  
43 100  
58 51.7 40.2 60.4  
98 0.1 0.1 0.1

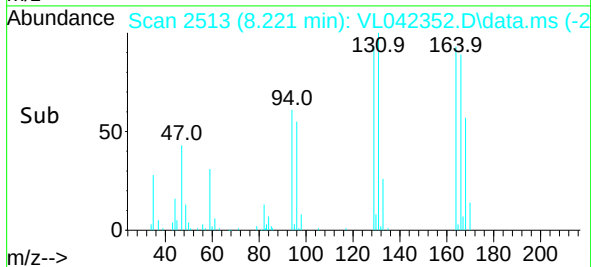
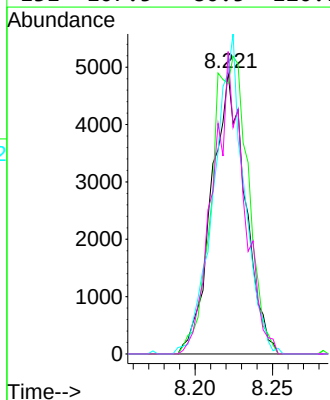
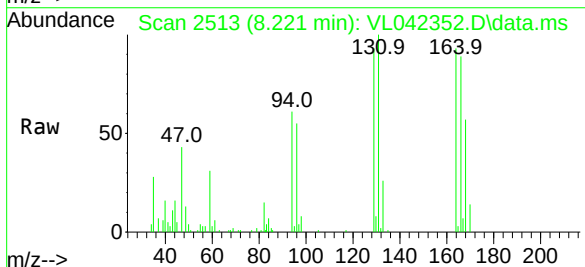
Manual Integrations  
APPROVED

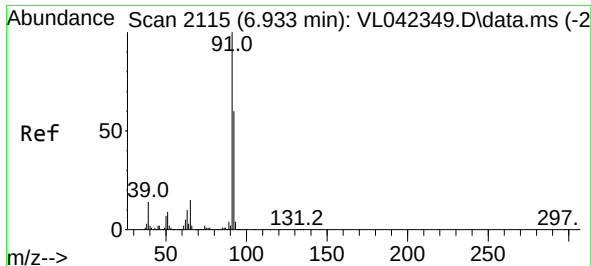
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#52  
Tetrachloroethene  
Concen: 0.503 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412  
Ion Ratio Lower Upper  
164 100  
166 96.1 98.2 147.2#  
129 97.8 81.8 122.8  
131 107.5 80.5 120.7





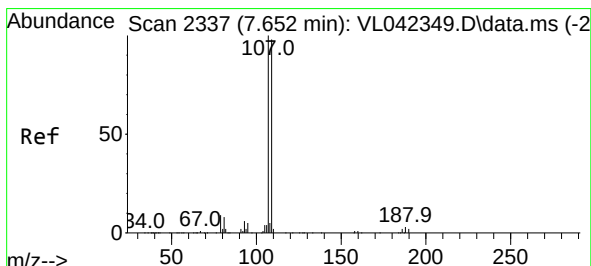
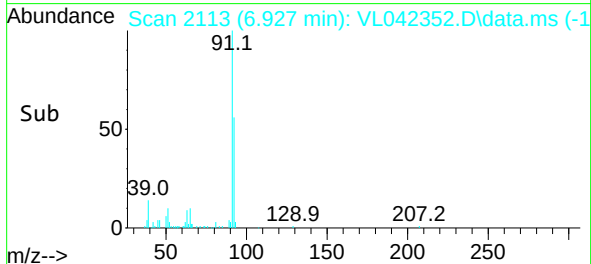
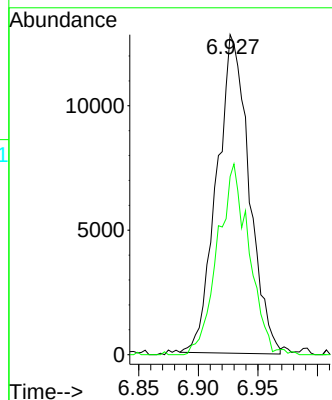
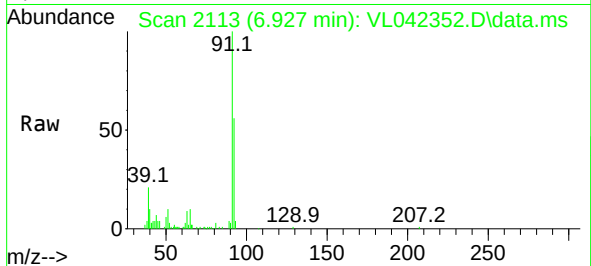
#53  
Toluene  
Concen: 0.529 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 91 Resp: 24200  
Ion Ratio Lower Upper  
91 100  
92 58.4 48.2 72.4

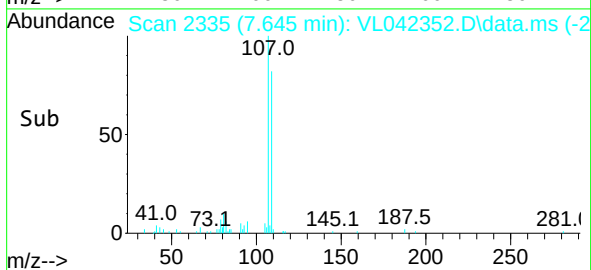
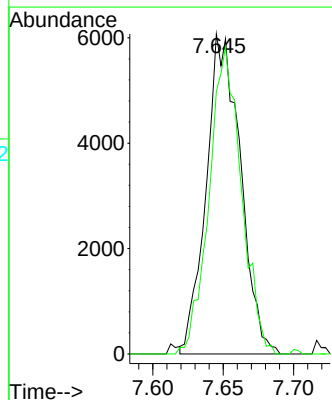
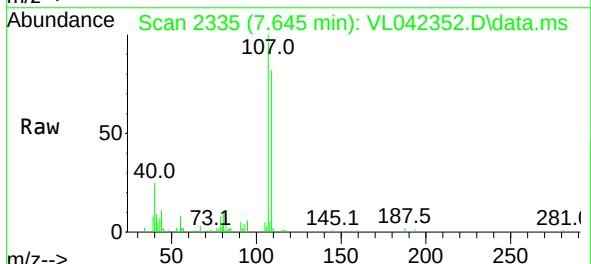
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

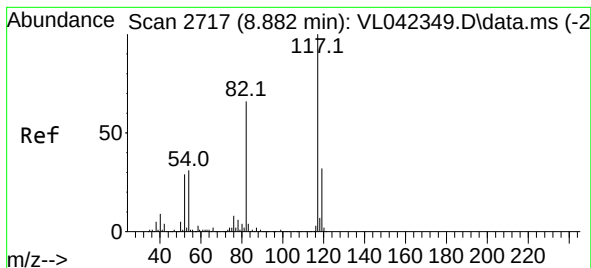


#54  
1,2-Dibromoethane  
Concen: 0.499 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282  
Ion Ratio Lower Upper  
107 100  
109 82.1 78.2 117.4







#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

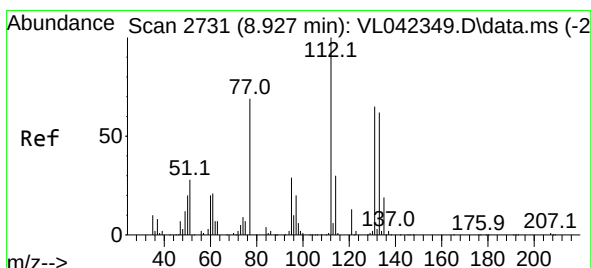
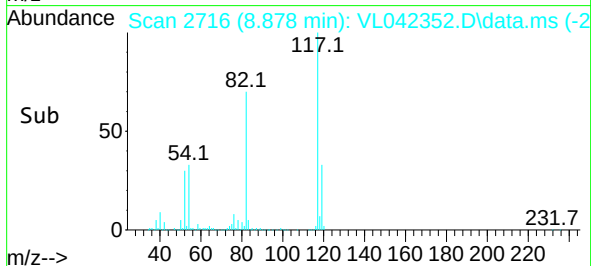
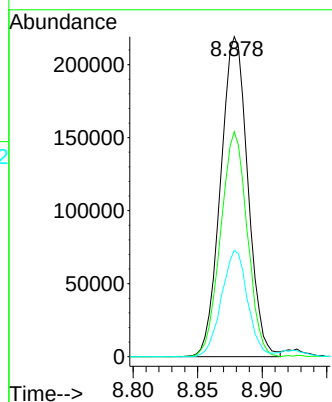
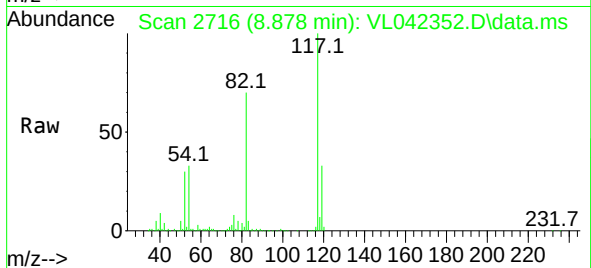
VSTDIC0.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 321644 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 69.0  | 57.8  | 86.6   |
| 119       | 33.8  | 25.2  | 37.8   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.513 ppbv

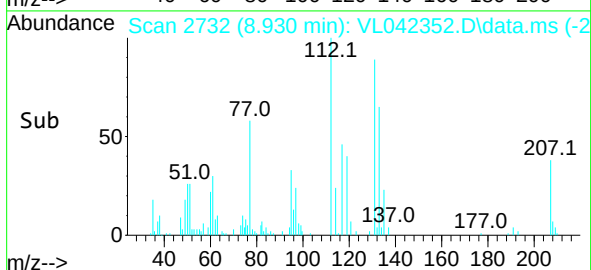
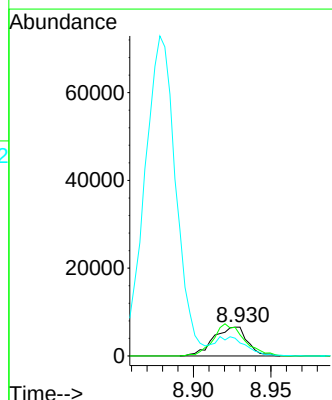
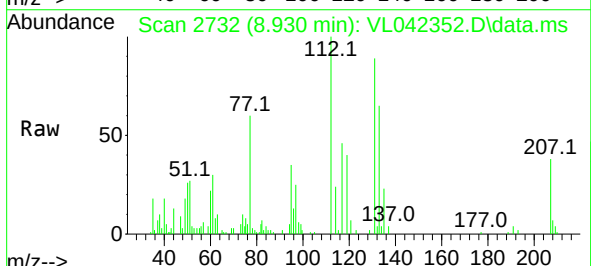
RT: 8.930 min Scan# 2732

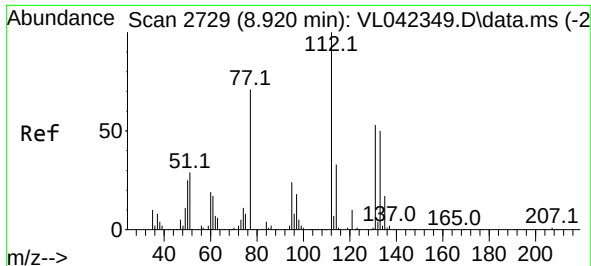
Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

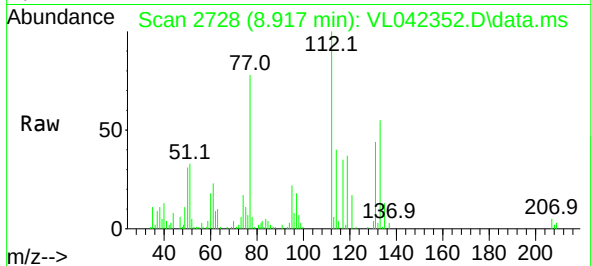
|           |        |       |       |
|-----------|--------|-------|-------|
| Tgt Ion:  | 131    | Resp: | 9987  |
| Ion Ratio | Lower  | Upper |       |
| 131       | 100    |       |       |
| 133       | 102.0  | 78.3  | 117.5 |
| 119       | 1087.9 | 48.7  | 73.1# |





#57  
Chlorobenzene  
Concen: 0.543 ppbv m  
RT: 8.917 min Scan# 2728  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

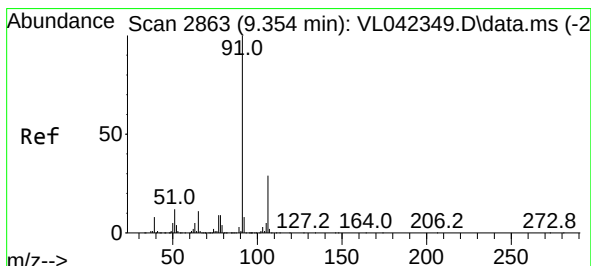
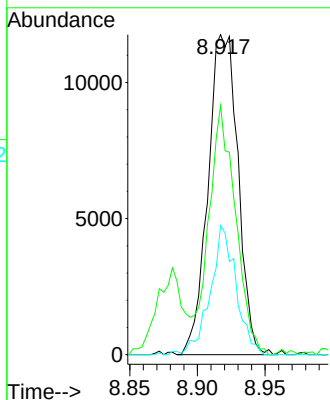
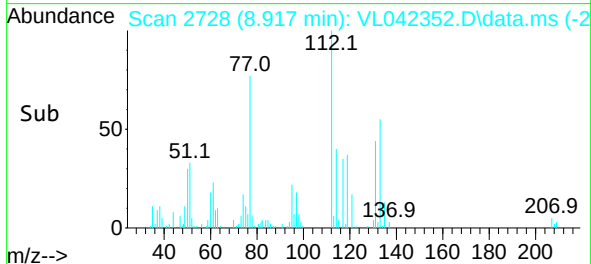
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



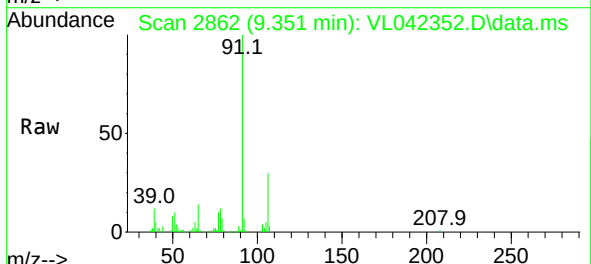
Tgt Ion: 112 Resp: 18149  
Ion Ratio Lower Upper  
112 100  
77 77.8 57.8 86.6  
114 40.4 29.3 35.9

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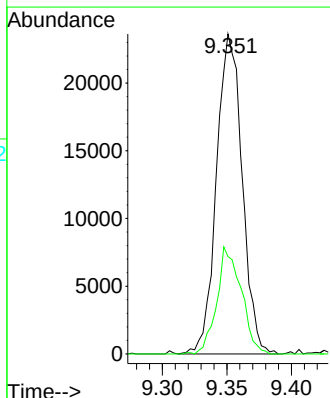
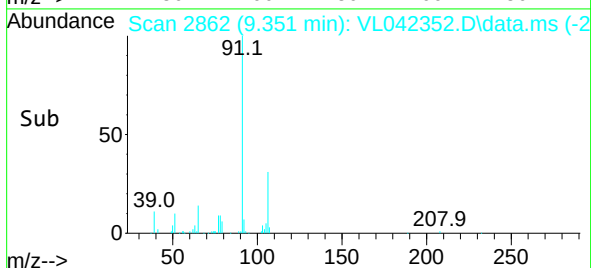
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

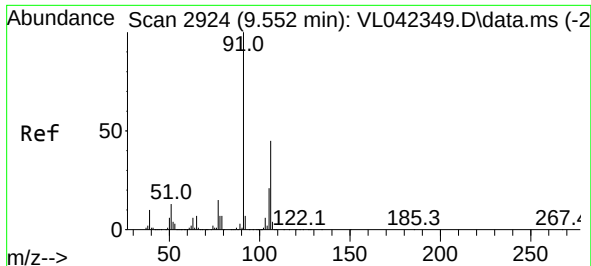


#58  
Ethyl Benzene  
Concen: 0.512 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion: 91 Resp: 32624  
Ion Ratio Lower Upper  
91 100  
106 30.5 23.0 34.4





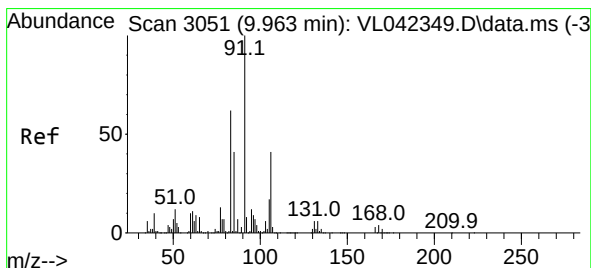
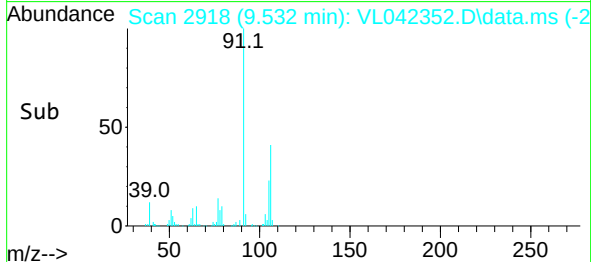
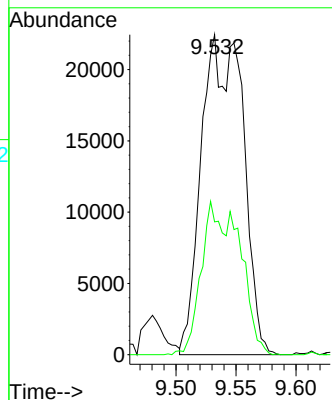
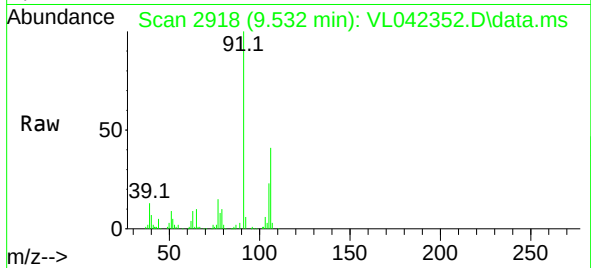
#59  
m/p-Xylene  
Concen: 1.053 ppbv m  
RT: 9.532 min Scan# 2918  
Delta R.T. -0.019 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 5419  
Ion Ratio Lower Upper  
91 100  
106 0.0 35.4 53.2

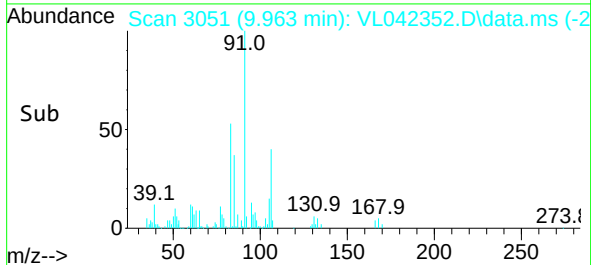
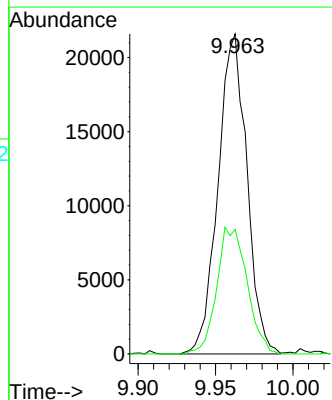
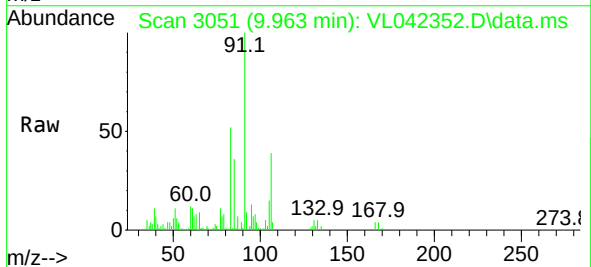
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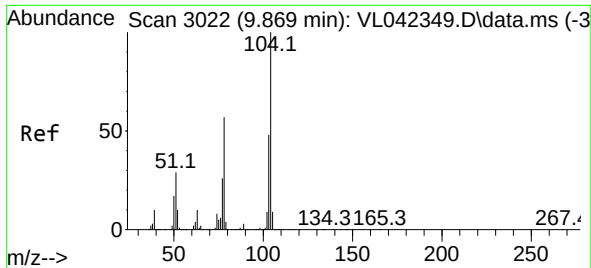
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#60  
o-Xylene  
Concen: 0.541 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983  
Ion Ratio Lower Upper  
91 100  
106 41.6 21.1 63.4





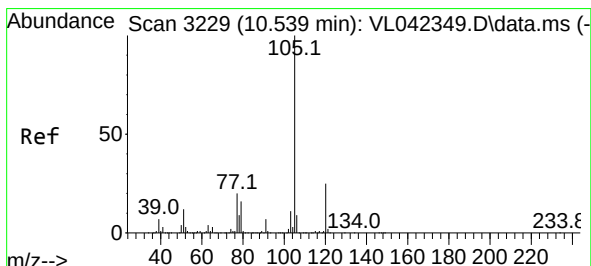
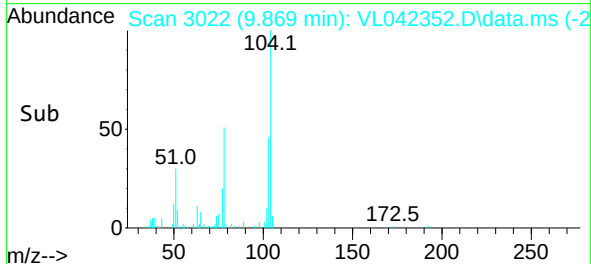
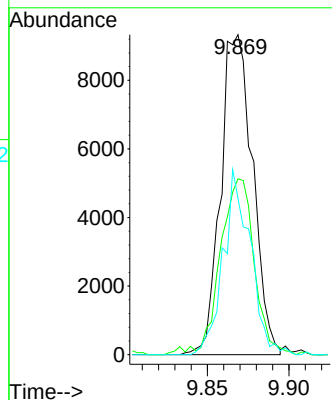
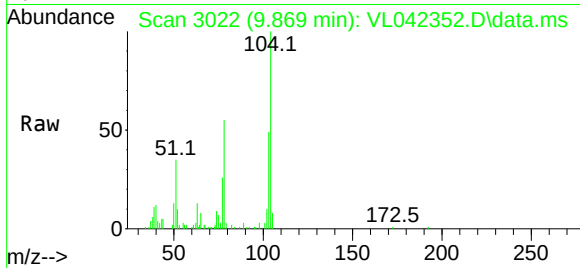
#61  
Styrene  
Concen: 0.516 ppbv  
RT: 9.869 min Scan# 3022  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:104 Resp: 12730  
Ion Ratio Lower Upper  
104 100  
78 58.6 44.6 66.8  
103 49.2 37.4 56.0

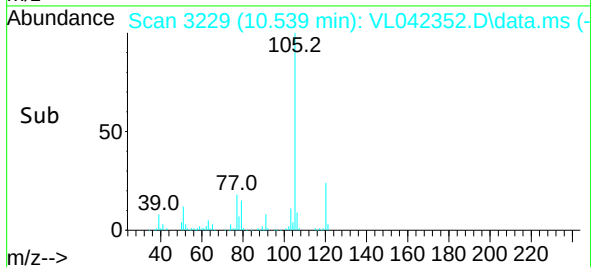
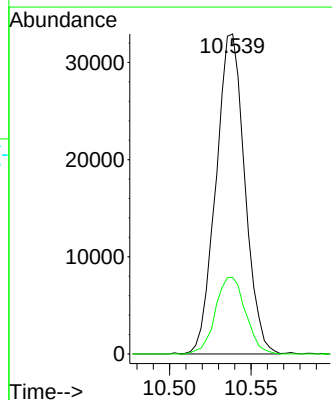
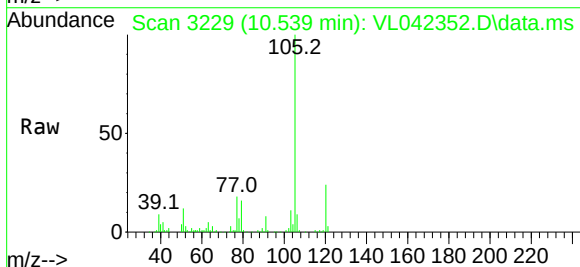
Manual Integrations  
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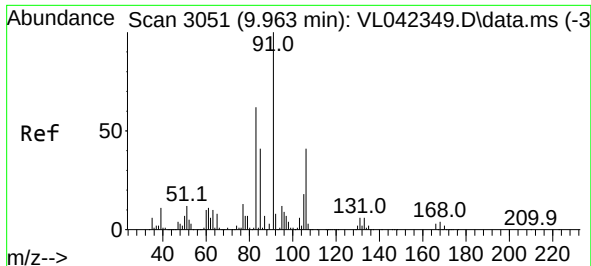
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#62  
Isopropylbenzene  
Concen: 0.533 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

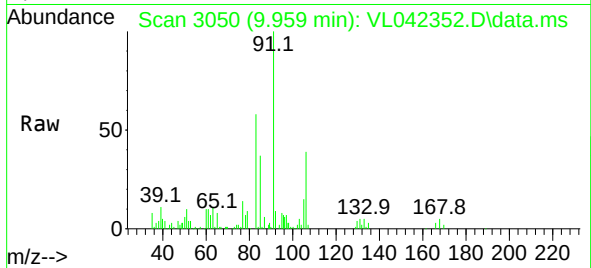
Tgt Ion:105 Resp: 40481  
Ion Ratio Lower Upper  
105 100  
120 24.9 19.8 29.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.474 ppbv  
RT: 9.959 min Scan# 3051  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

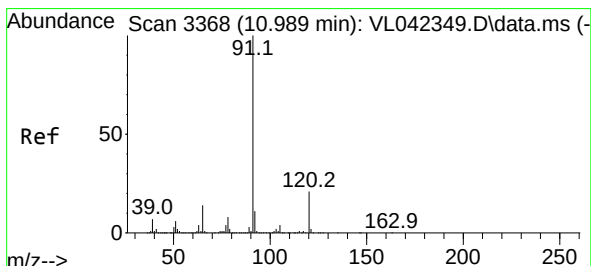
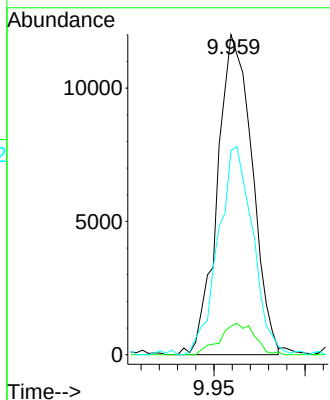
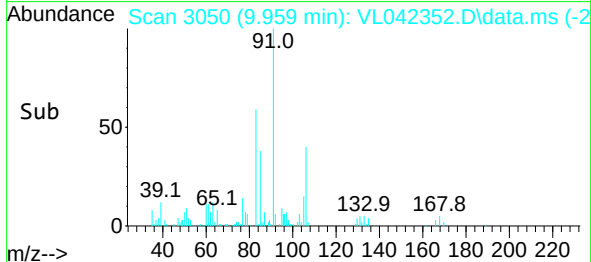
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



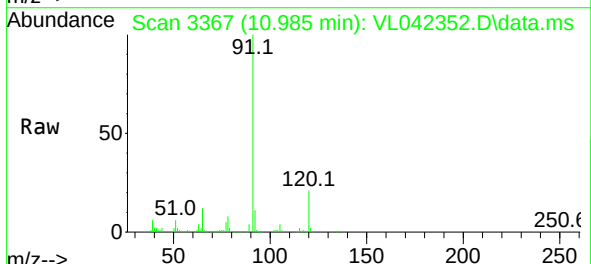
Tgt Ion: 83 Resp: 15920  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.5 13.7  
85 65.6 32.4 97.0

Manual Integrations  
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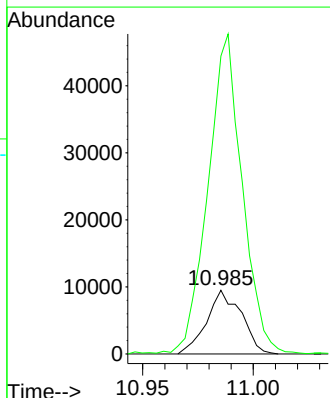
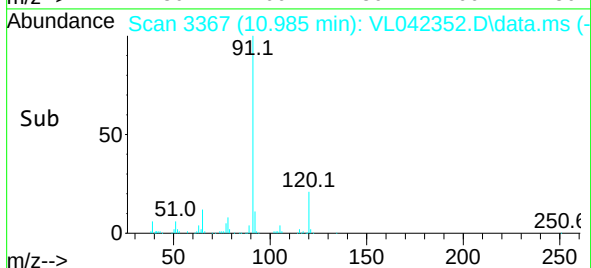
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

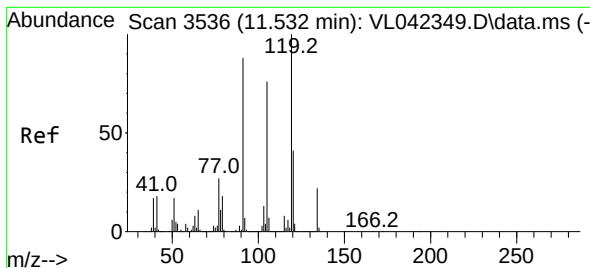


#64  
n-propylbenzene  
Concen: 0.544 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion:120 Resp: 10369  
Ion Ratio Lower Upper  
120 100  
91 499.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

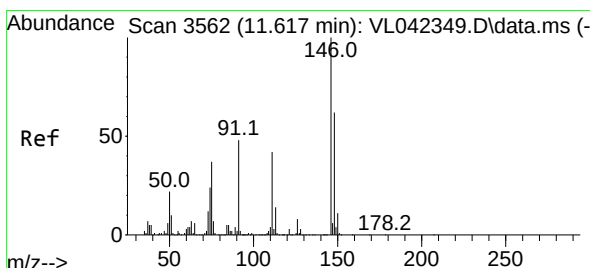
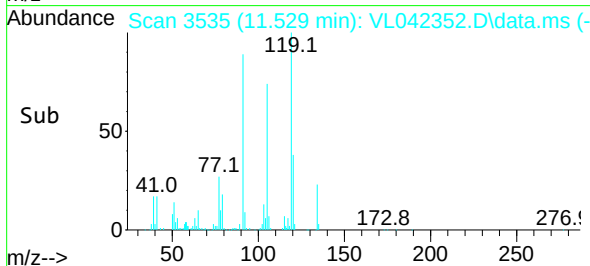
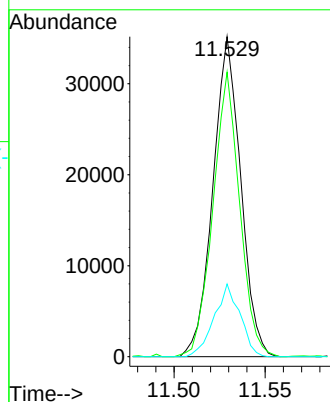
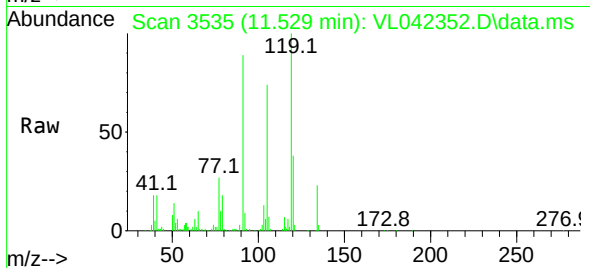
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 37294 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 85.8  | 74.6  | 111.8 |
| 134      | 21.1  | 18.8  | 28.2  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#66

Benzyl Chloride

Concen: 0.506 ppbv

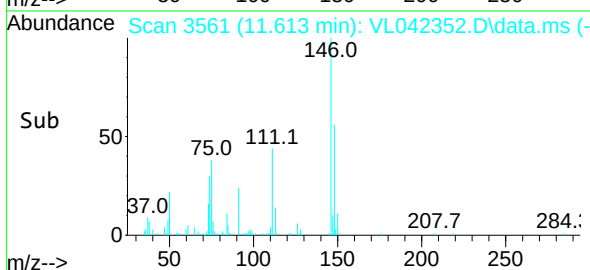
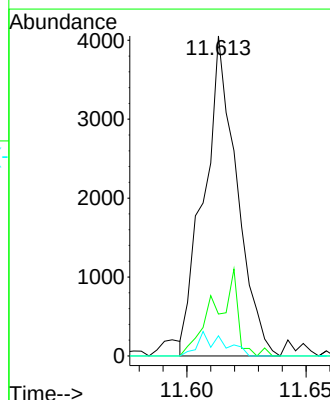
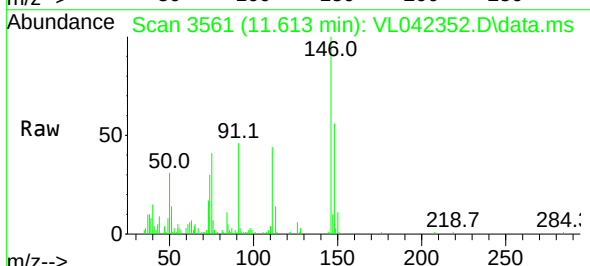
RT: 11.613 min Scan# 3561

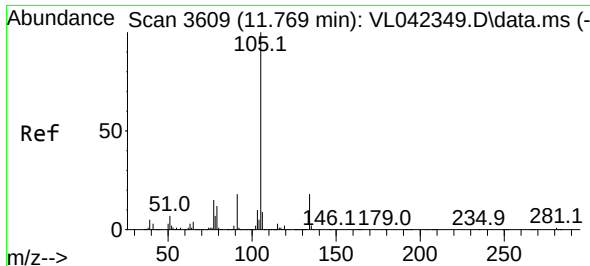
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 3878  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 19.8  | 11.8  | 17.6# |
| 128      | 5.8   | 4.5   | 6.7   |





#67

sec-Butylbenzene

Concen: 0.537 ppbv

RT: 11.765 min Scan# 3609

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 52139

Ion Ratio Lower Upper

105 100

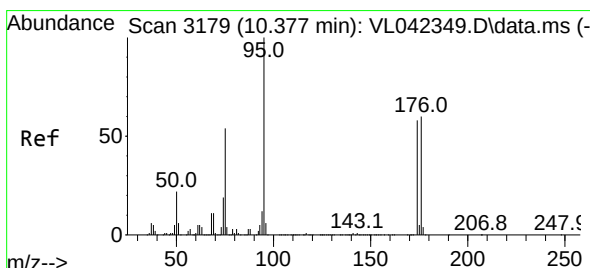
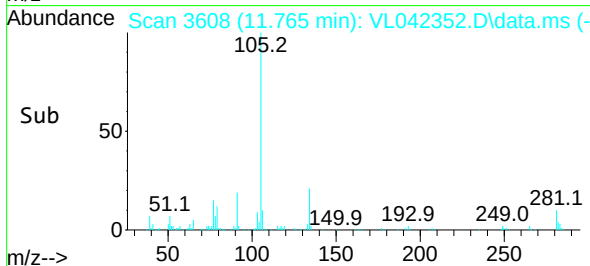
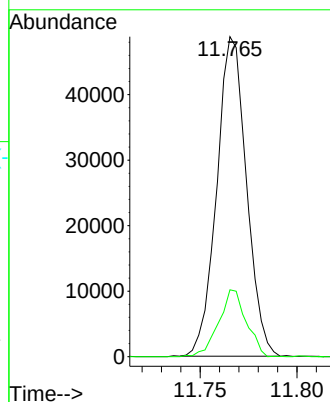
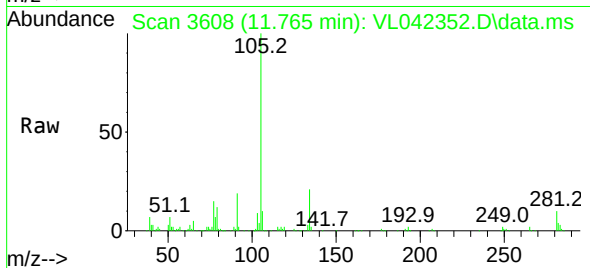
134 19.5 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.032 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

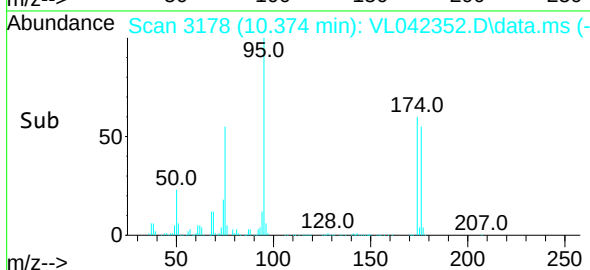
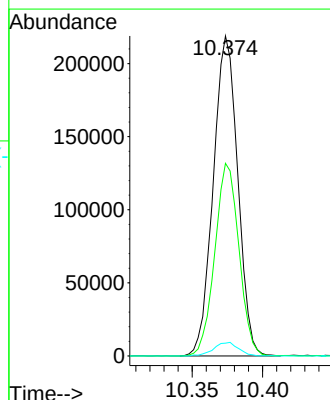
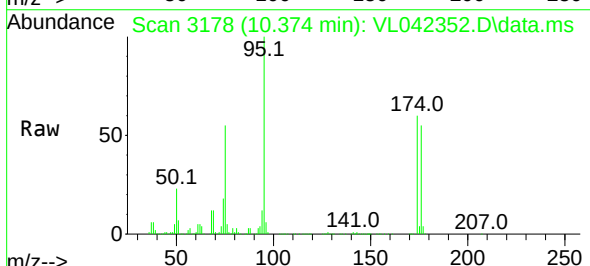
Tgt Ion: 95 Resp: 265161

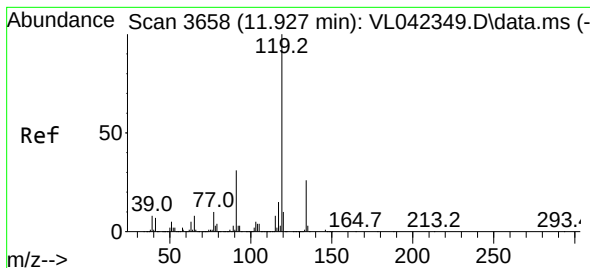
Ion Ratio Lower Upper

95 100

174 59.4 48.5 72.7

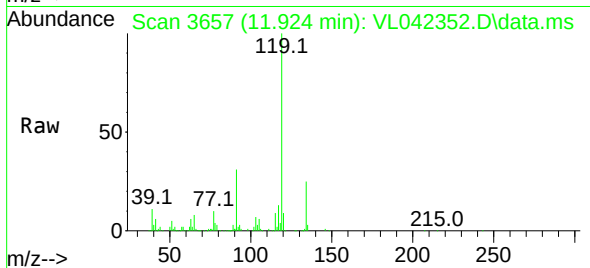
175 4.3 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 0.541 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

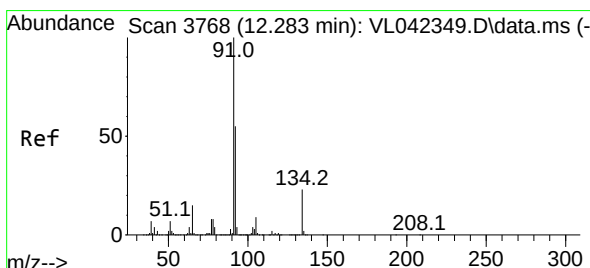
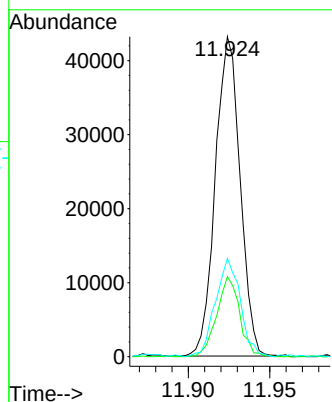
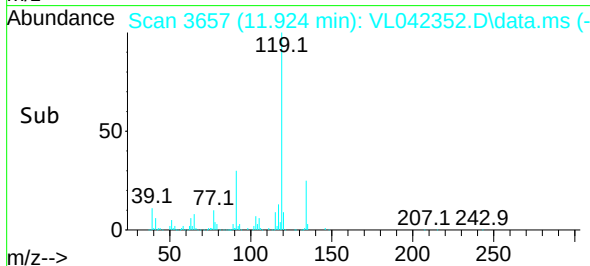
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



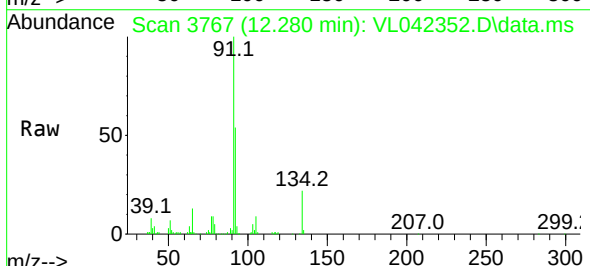
Tgt Ion:119 Resp: 45574  
Ion Ratio Lower Upper  
119 100  
134 23.3 20.0 30.0  
91 31.4 24.4 36.6

Manual Integrations  
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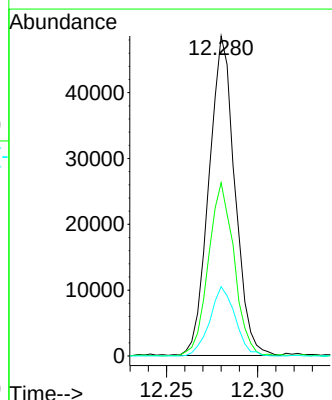
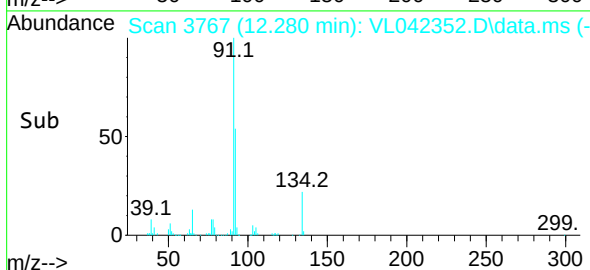
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



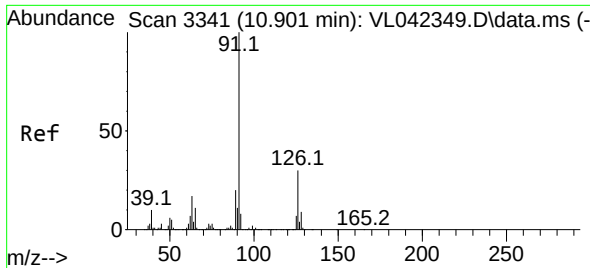
#70  
n-Butylbenzene  
Concen: 0.547 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion: 91 Resp: 48004  
Ion Ratio Lower Upper  
91 100  
92 54.7 44.2 66.4  
134 21.4 18.2 27.4







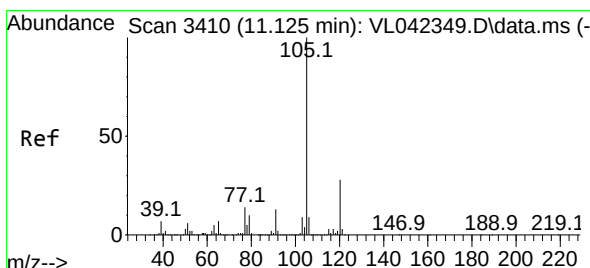
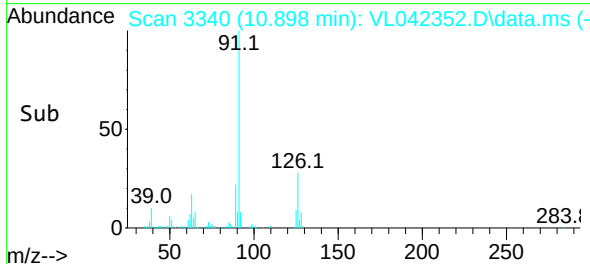
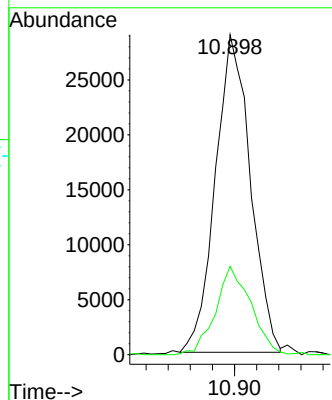
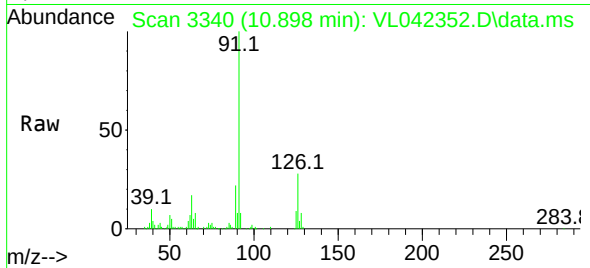
#71  
2-Chlorotoluene  
Concen: 0.533 ppbv  
RT: 10.898 min Scan# 3170  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion: 91 Resp: 3170  
Ion Ratio Lower Upper  
91 100  
126 28.3 11.4 45.4

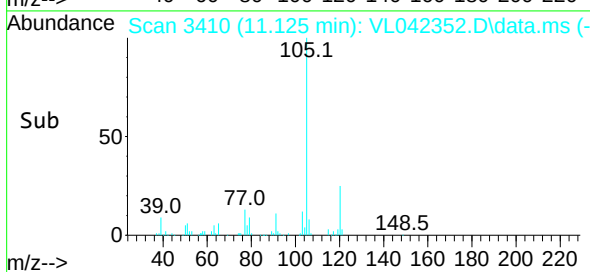
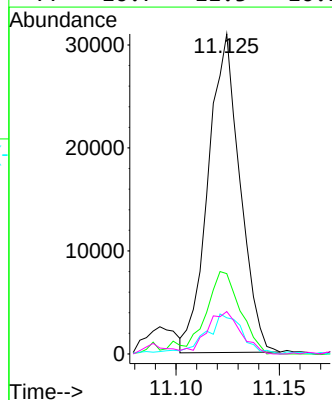
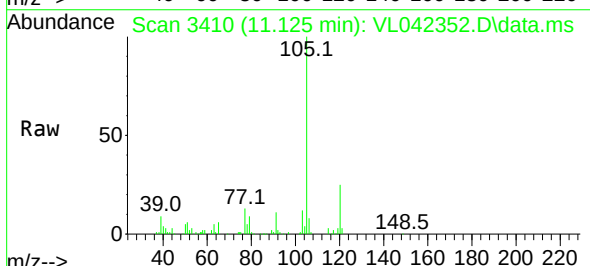
Manual Integrations  
APPROVED

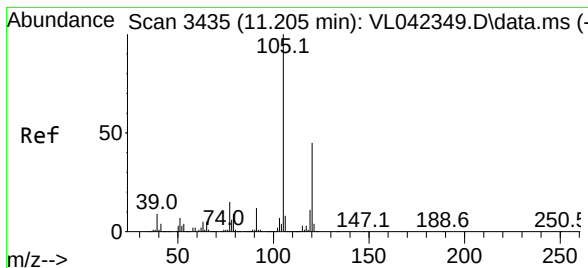
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#72  
4-Ethyltoluene  
Concen: 0.523 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048  
Ion Ratio Lower Upper  
105 100  
120 30.5 23.2 34.8  
91 15.7 10.4 15.6#  
77 16.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.546 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

Tgt Ion:105 Resp: 3046

Ion Ratio Lower Upper

105 100

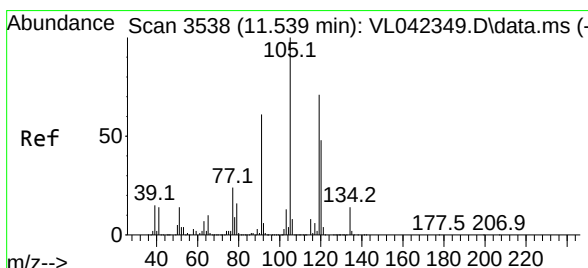
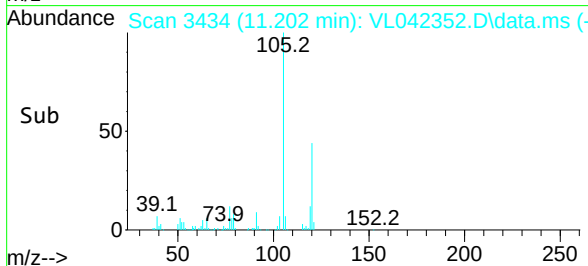
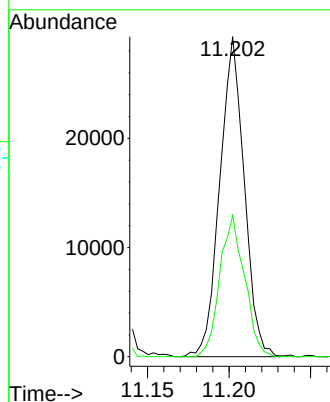
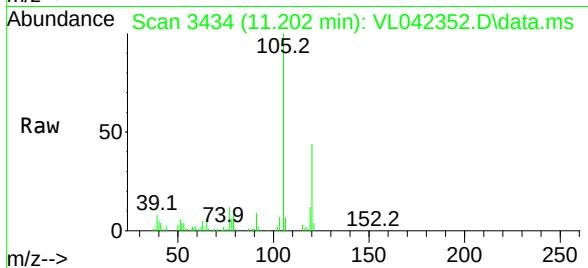
120 44.1 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.579 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

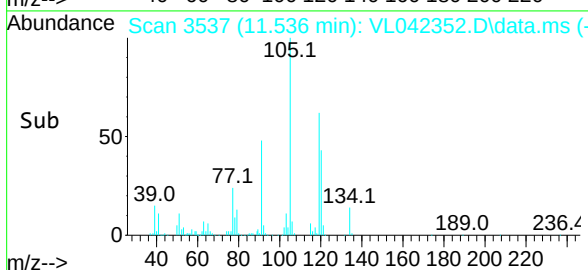
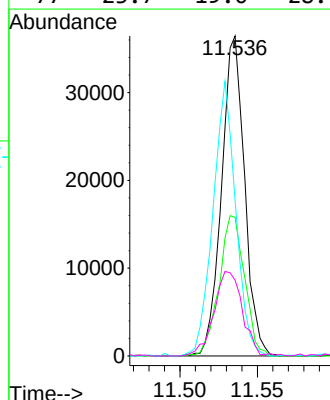
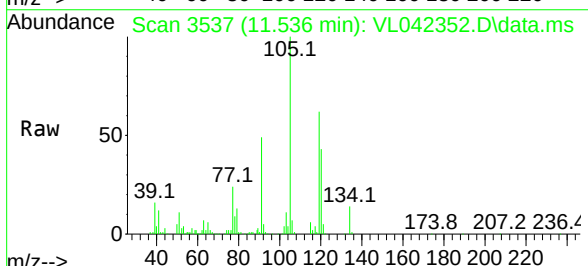
Ion Ratio Lower Upper

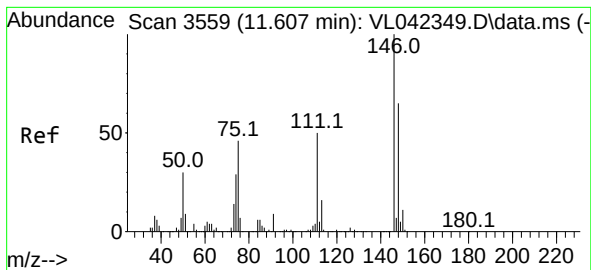
105 100

120 43.3 38.1 57.1

91 48.7 48.8 73.2#

77 23.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 0.531 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

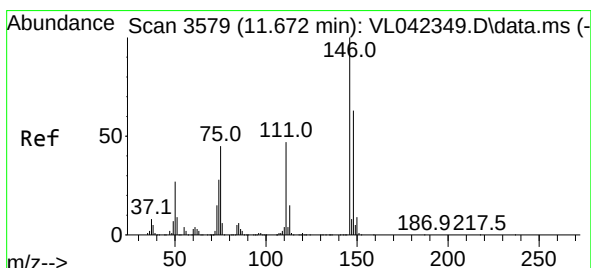
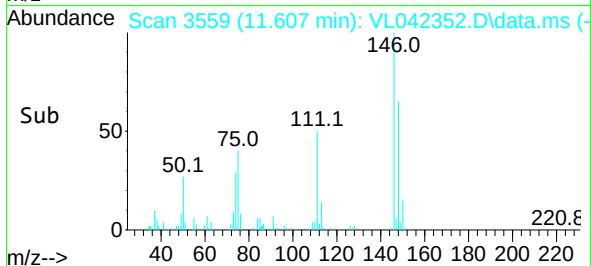
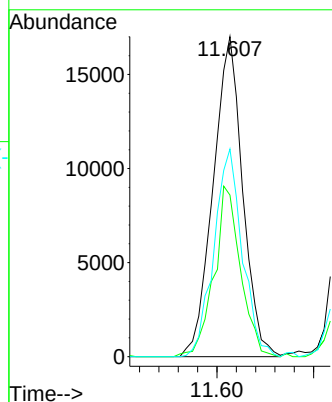
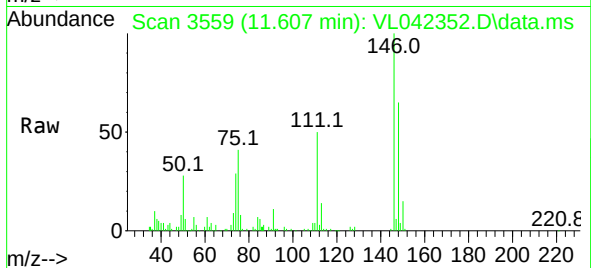
VSTDIC0.5

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 1800 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 47.9  | 24.3  | 72.8 |
| 148       | 62.9  | 31.6  | 94.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 0.537 ppbv

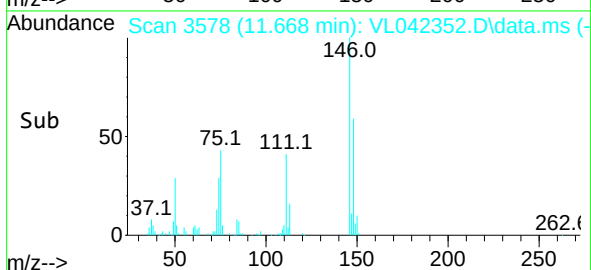
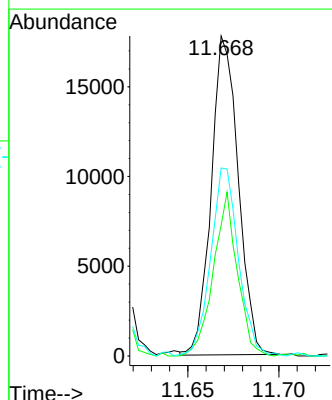
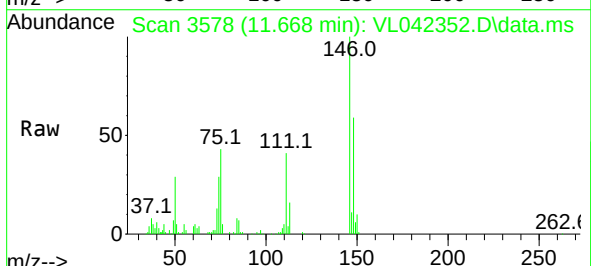
RT: 11.668 min Scan# 3578

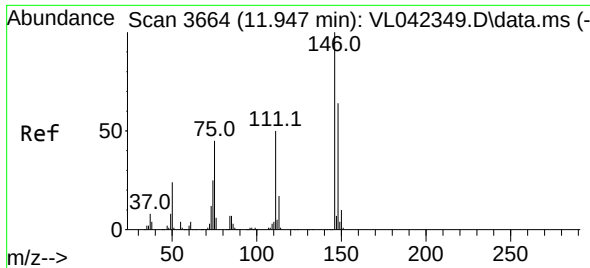
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

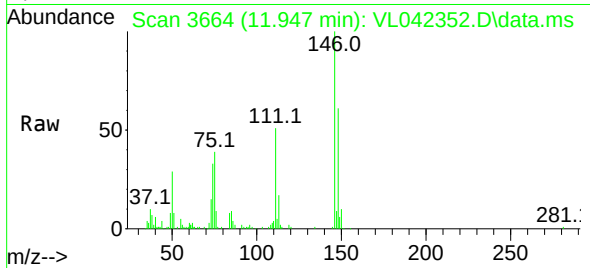
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 18300 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 45.9  | 24.2  | 72.6  |
| 148       | 61.2  | 32.1  | 96.5  |





#77  
1,2-Dichlorobenzene  
Concen: 0.530 ppbv  
RT: 11.947 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

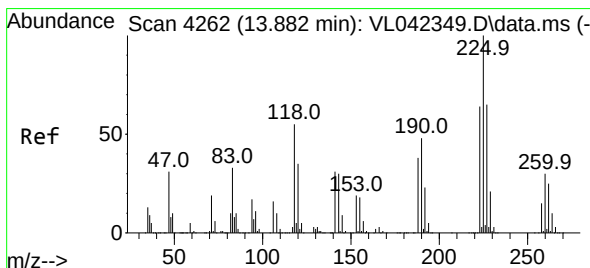
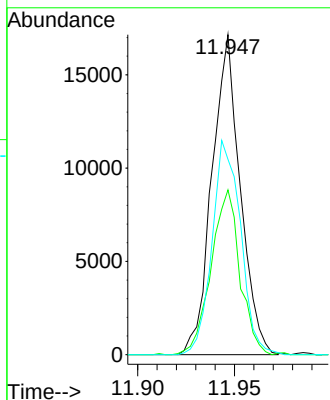
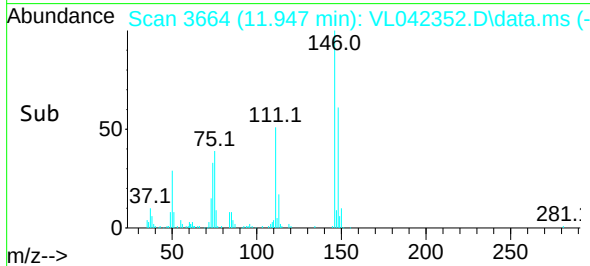
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5



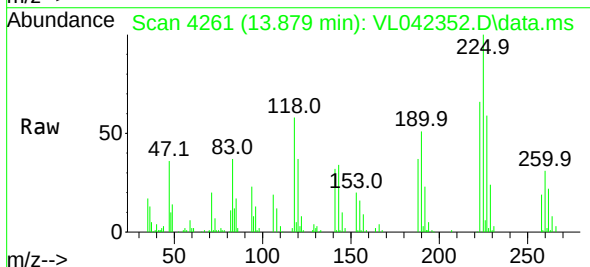
Tgt Ion:146 Resp: 17440  
Ion Ratio Lower Upper  
146 100  
111 52.6 25.3 75.9  
148 67.5 31.5 94.5

Manual Integrations  
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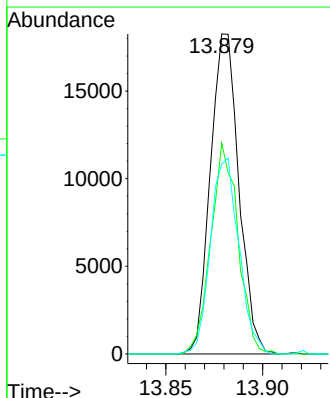
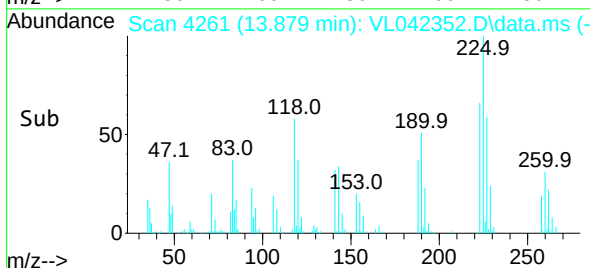
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

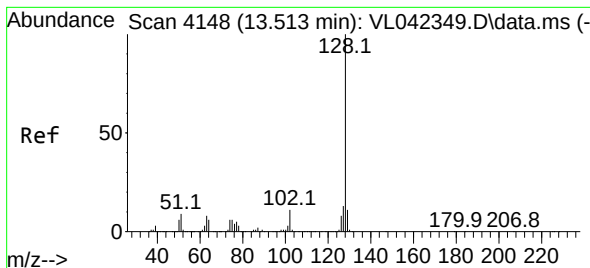


#78  
Hexachloro-1,3-Butadiene  
Concen: 0.562 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19



Tgt Ion:225 Resp: 18705  
Ion Ratio Lower Upper  
225 100  
223 62.8 50.3 75.5  
227 61.1 51.5 77.3





#79

Naphthalene

Concen: 0.494 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

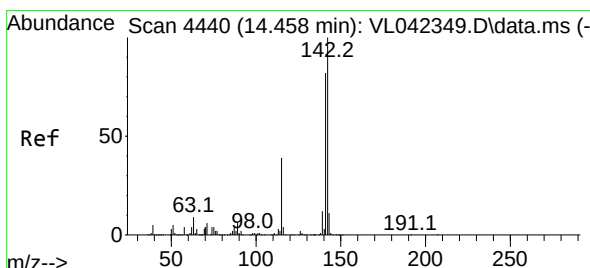
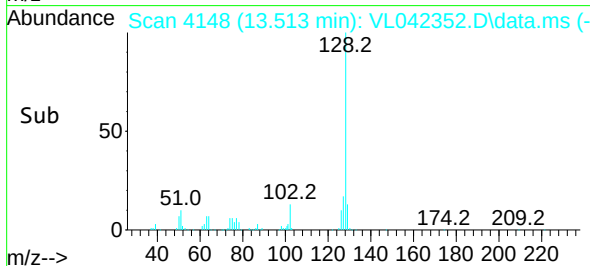
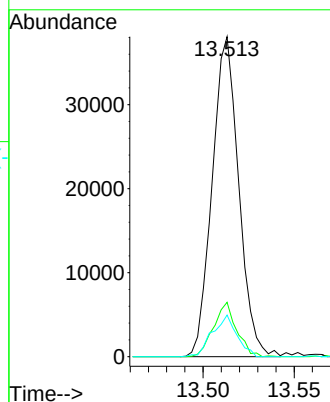
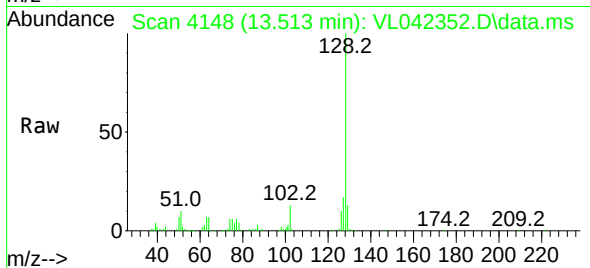
VSTDIC0.5

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 3852 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 17.0  | 10.6  | 15.8 |
| 129       | 13.0  | 8.6   | 12.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#80

Naphthalene,2-methyl-

Concen: 0.475 ppbv

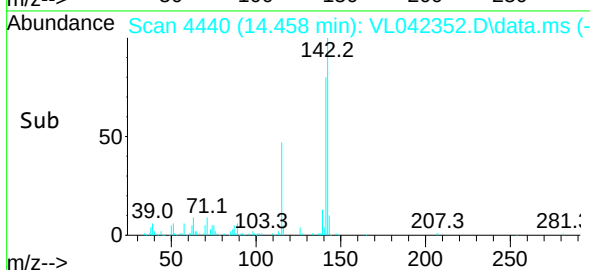
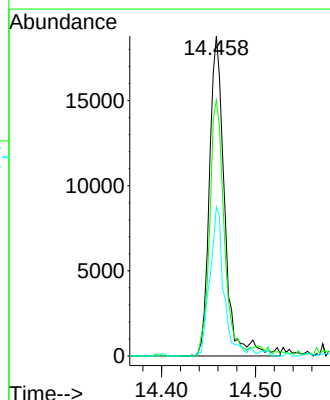
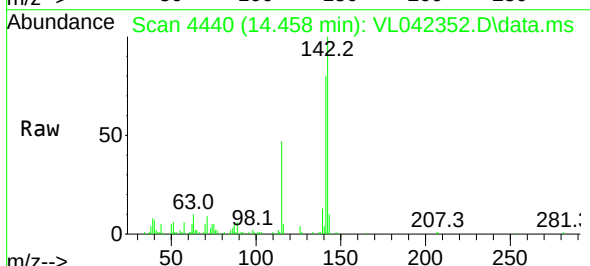
RT: 14.458 min Scan# 4440

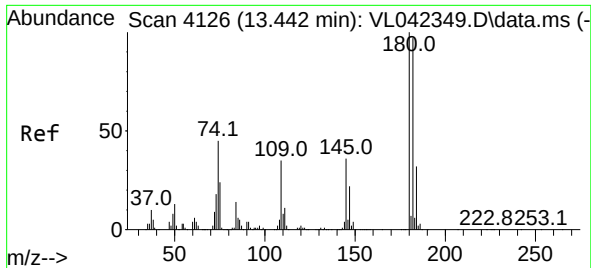
Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 21076 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 79.2  | 66.8  | 100.2 |
| 115       | 44.1  | 33.4  | 50.2  |





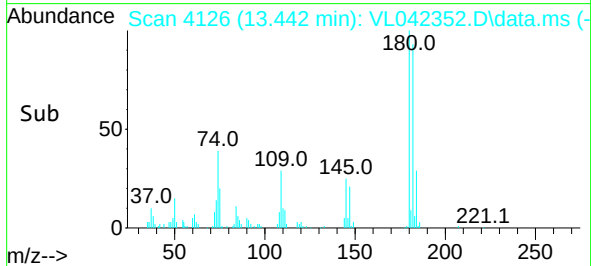
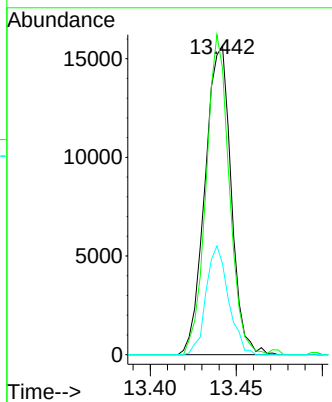
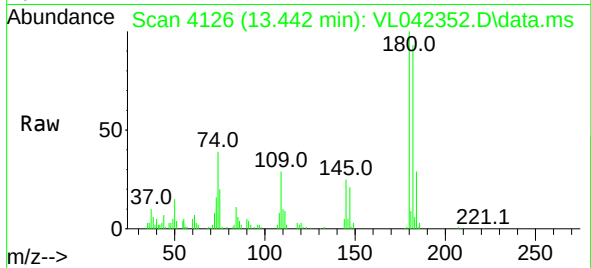
#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.493 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion:180 Resp: 16504  
 Ion Ratio Lower Upper  
 180 100  
 182 92.4 76.8 115.2  
 184 30.2 24.6 36.8

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042353.D  
 Acq On : 17 Apr 2025 11:50  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.791  | 49    | 119461   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 350484   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 315004   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.381 | 95    | 256417   | 9.906    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 1088     | 0.120    | ppbv # | 74       |
| 32) 1,1,1-Trichloroethane     | 3.367  | 97    | 3393m    | 0.115    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 3204     | 0.101    | ppbv # | 94       |
| 38) Trichloroethene           | 4.551  | 130   | 1771m    | 0.107    | ppbv   |          |
| 52) Tetrachloroethene         | 8.222  | 164   | 1583m    | 0.108    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.662  | 107   | 2177m    | 0.106    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 3706m    | 0.113    | ppbv   |          |
| 79) Naphthalene               | 13.517 | 128   | 7664     | 0.100    | ppbv # | 92       |
| -----                         |        |       |          |          |        |          |

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

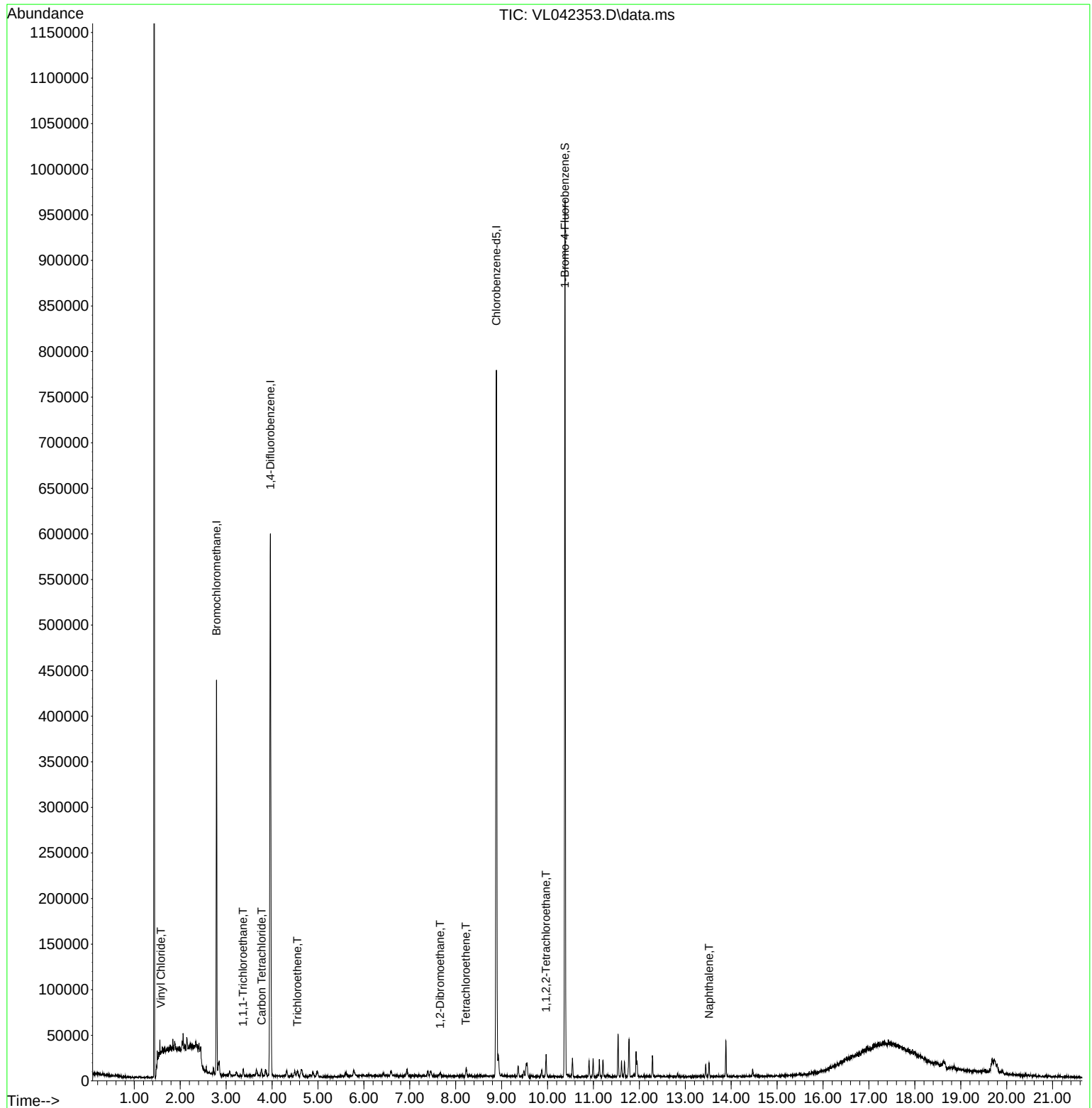
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Data File : VL042353.D  
Acq On : 17 Apr 2025 11:50  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

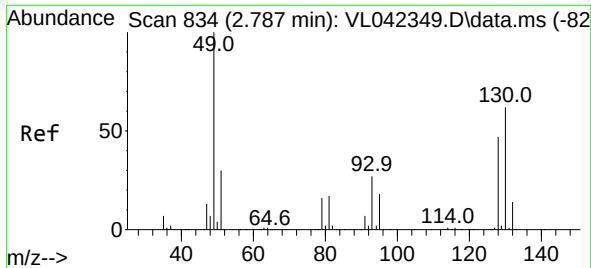
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration

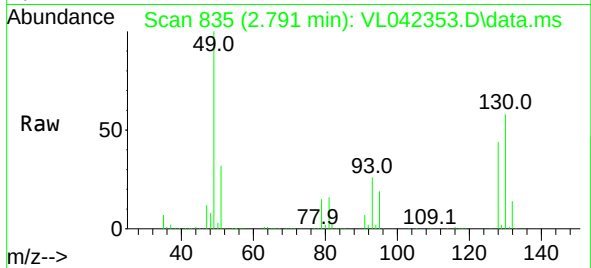






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 834  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

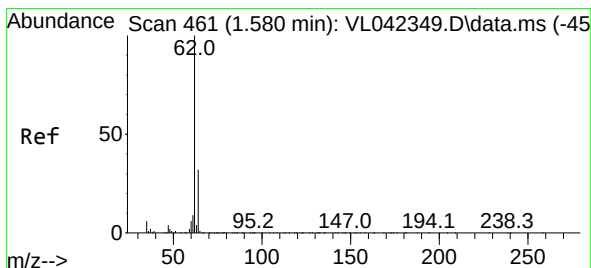
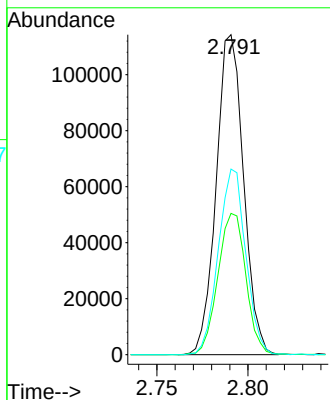
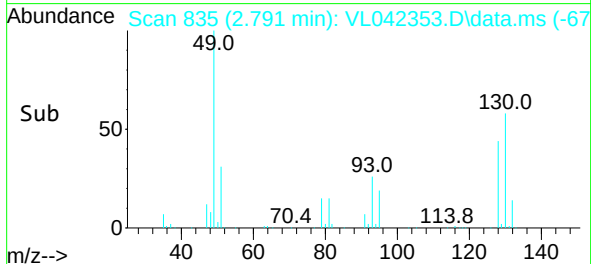
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1



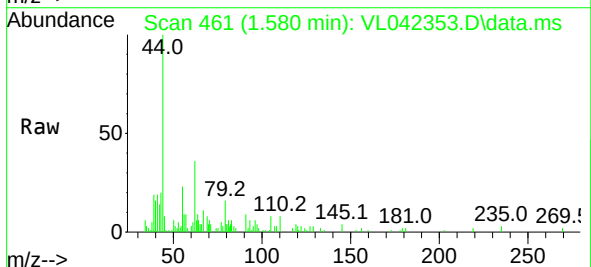
Tgt Ion: 49 Resp: 11946  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 58.3 29.3 88.0

Manual Integrations  
APPROVED

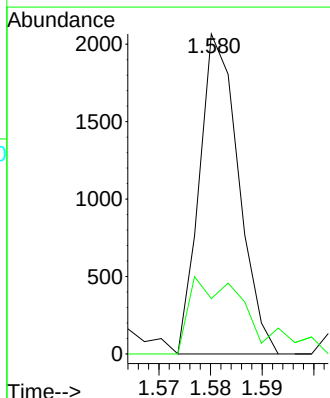
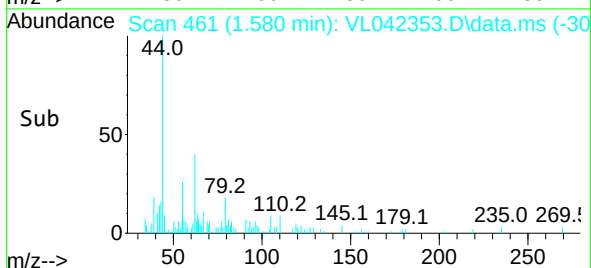
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

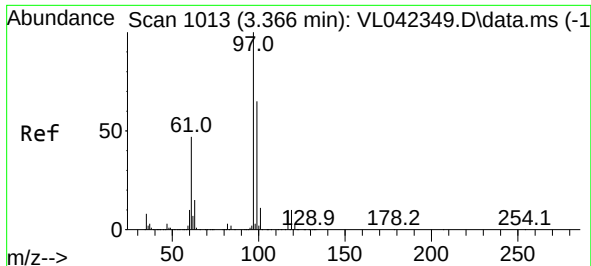


#5  
Vinyl Chloride  
Concen: 0.120 ppbv  
RT: 1.580 min Scan# 461  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50



Tgt Ion: 62 Resp: 1088  
Ion Ratio Lower Upper  
62 100  
64 17.3 25.4 38.0#





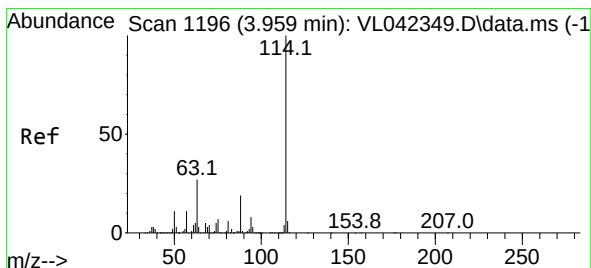
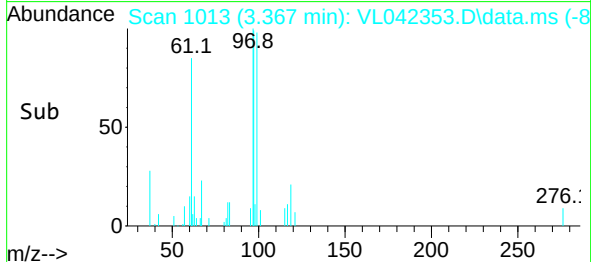
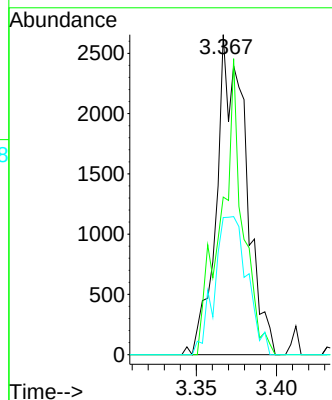
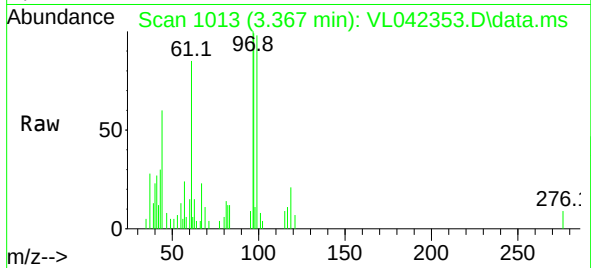
#32  
1,1,1-Trichloroethane  
Concen: 0.115 ppbv m  
RT: 3.367 min Scan# 1013  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 97 Resp: 339  
Ion Ratio Lower Upper  
97 100  
99 68.2 51.0 76.4  
61 47.9 38.8 58.2

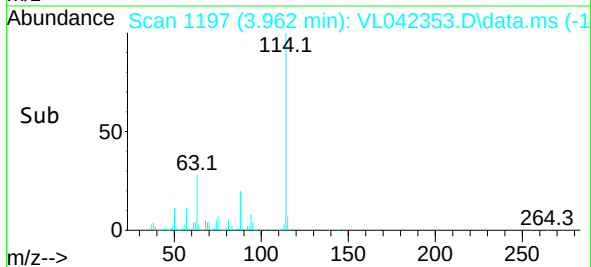
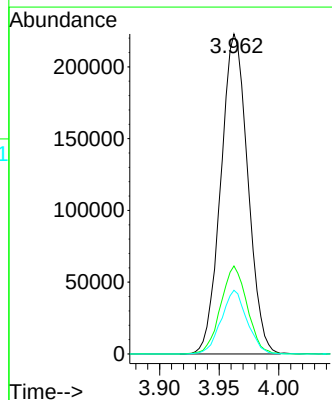
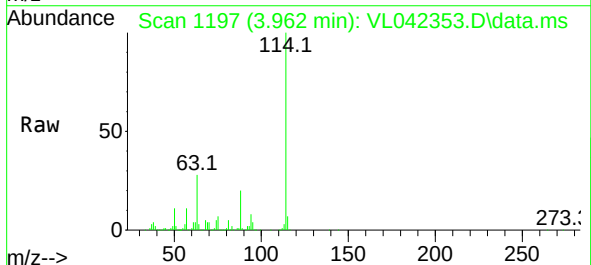
Manual Integrations  
APPROVED

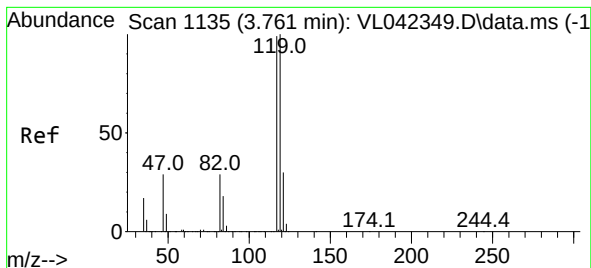
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:114 Resp: 350484  
Ion Ratio Lower Upper  
114 100  
63 26.9 21.8 32.6  
88 19.1 15.5 23.3





#35

Carbon Tetrachloride

Concen: 0.101 ppbv

RT: 3.771 min Scan# 1135

Delta R.T. 0.010 min

Lab File: VL042353.D

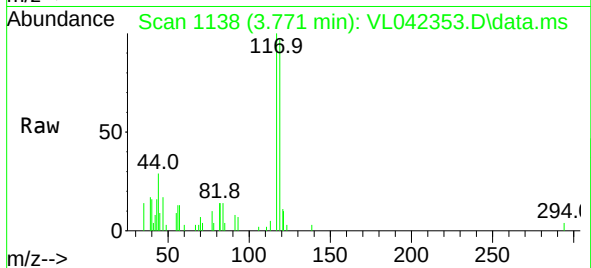
Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.1



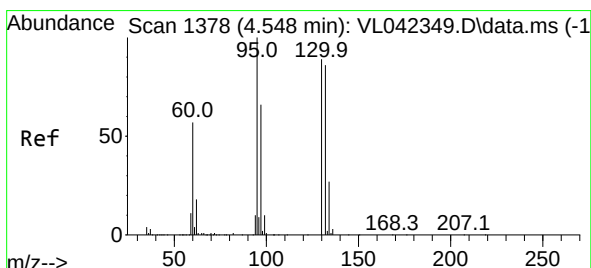
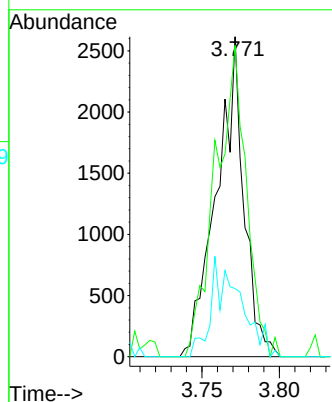
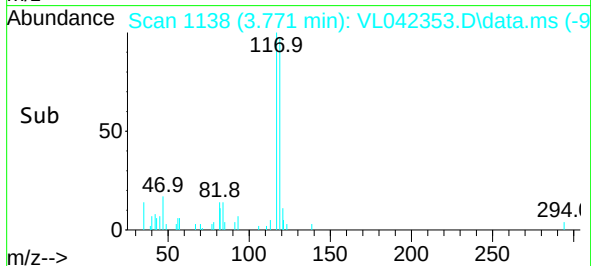
Tgt Ion:117 Resp: 3204

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 97.3  | 80.5  | 120.7 |
| 121 | 21.3  | 24.2  | 36.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.107 ppbv m

RT: 4.551 min Scan# 1379

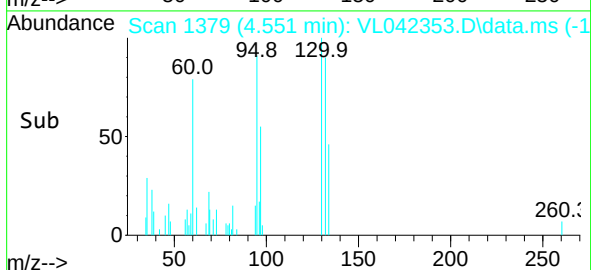
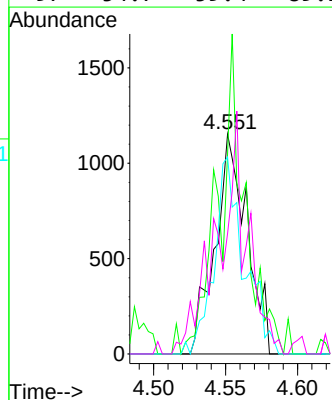
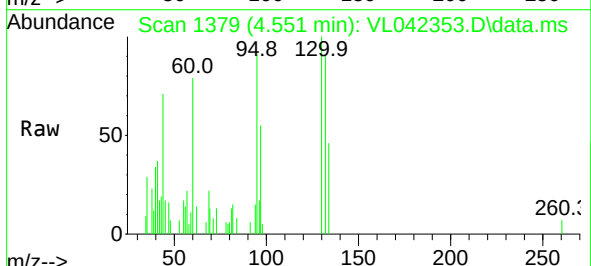
Delta R.T. 0.004 min

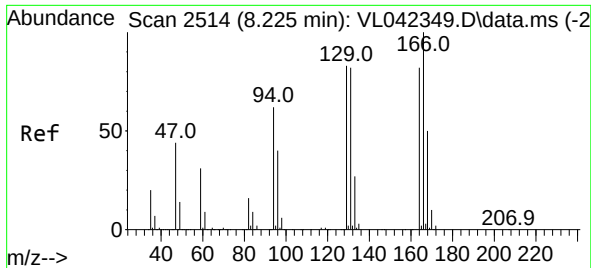
Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion:130 Resp: 1771

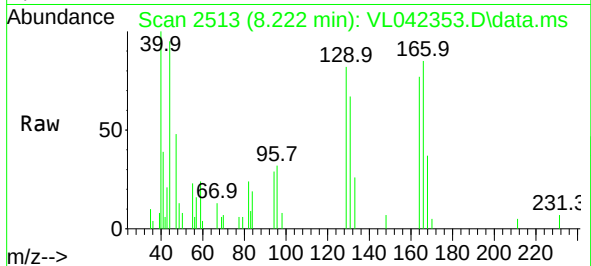
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 90.9  | 89.8  | 134.6 |
| 132 | 89.6  | 77.7  | 116.5 |
| 97  | 54.7  | 59.4  | 89.2  |





#52  
Tetrachloroethene  
Concen: 0.108 ppbv m  
RT: 8.222 min Scan# 2158  
Delta R.T. -0.003 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

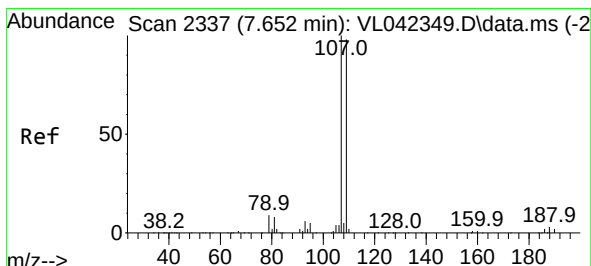
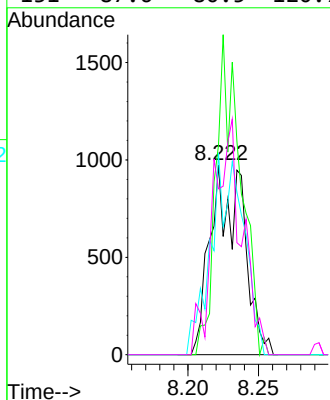
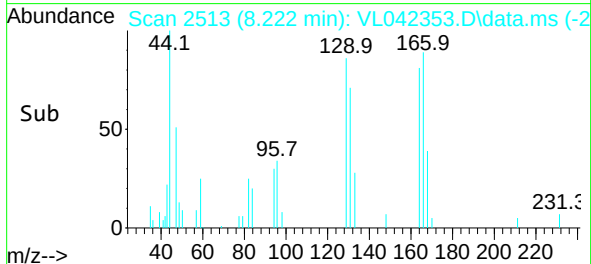
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC0.1



Tgt Ion:164 Resp: 158  
Ion Ratio Lower Upper  
164 100  
166 110.6 98.2 147.2  
129 106.5 81.8 122.8  
131 87.6 80.5 120.7

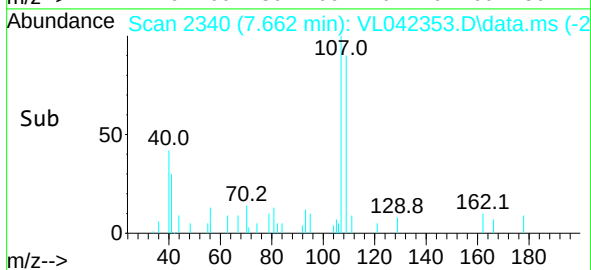
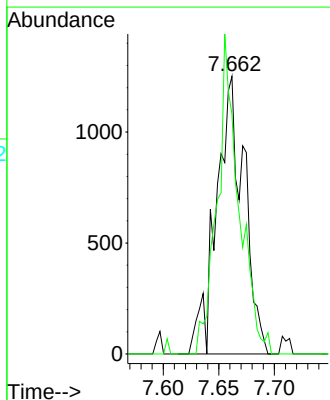
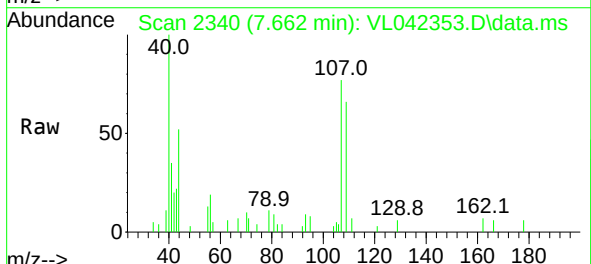
Manual Integrations  
APPROVED

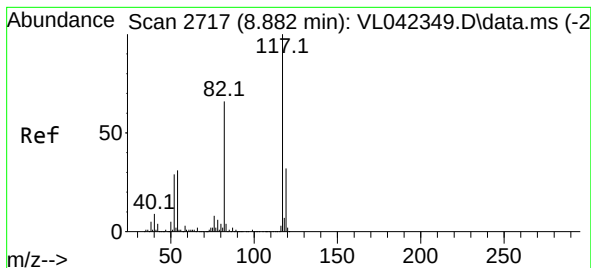
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#54  
1,2-Dibromoethane  
Concen: 0.106 ppbv m  
RT: 7.662 min Scan# 2340  
Delta R.T. 0.010 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 2177  
Ion Ratio Lower Upper  
107 100  
109 86.3 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_L

ClientSampleId :

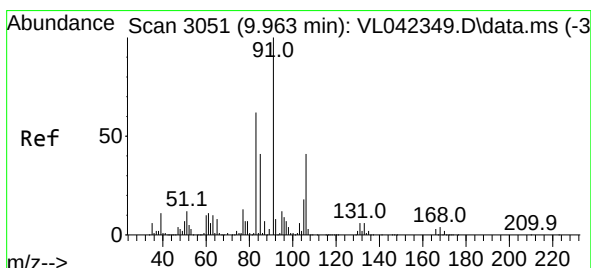
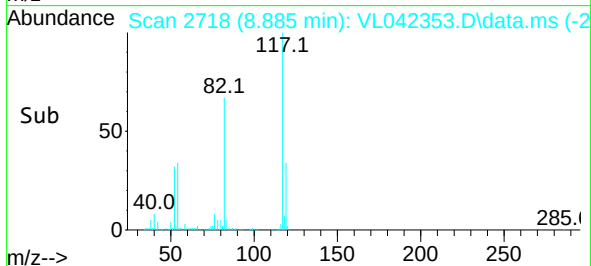
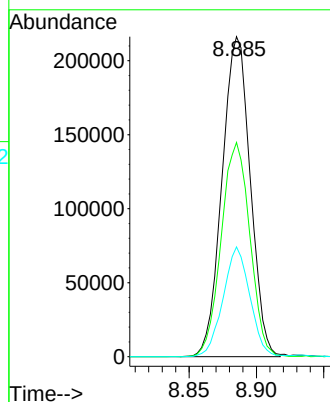
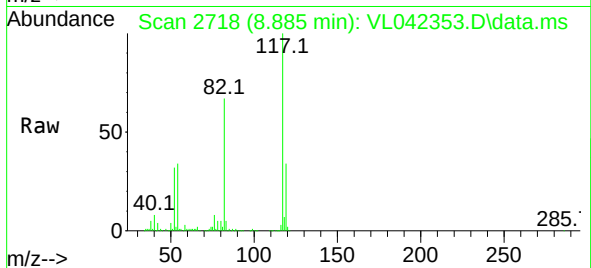
VSTDIC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 31500 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 68.1  | 57.8  | 86.6  |
| 119      | 33.0  | 25.2  | 37.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.113 ppbv m

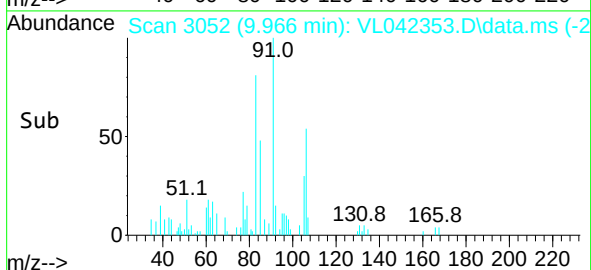
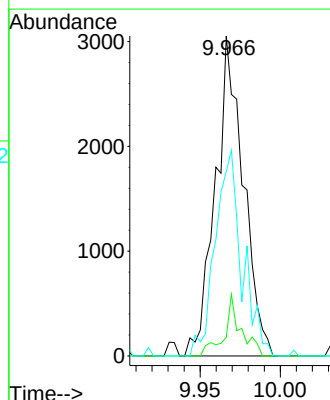
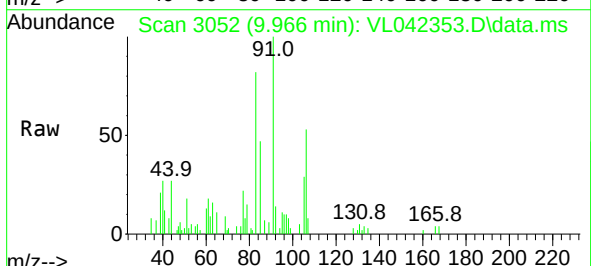
RT: 9.966 min Scan# 3052

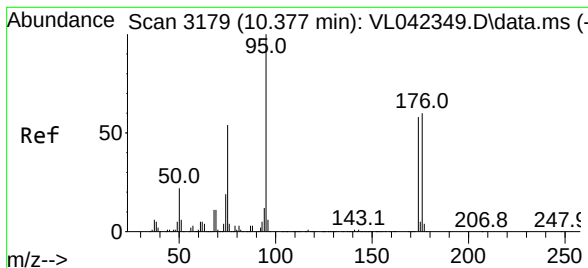
Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

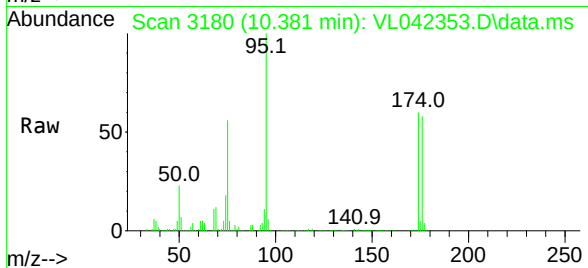
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 3706  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 11.2  | 4.5   | 13.7  |
| 85       | 61.7  | 32.4  | 97.0  |





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.906 ppbv  
RT: 10.381 min Scan# 3179  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

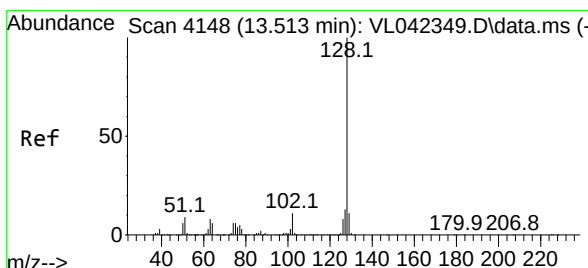
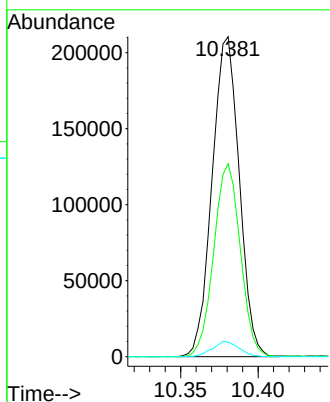
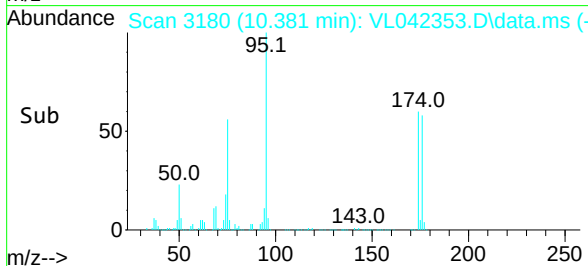
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1



Tgt Ion: 95 Resp: 25641  
Ion Ratio Lower Upper  
95 100  
174 59.3 48.5 72.7  
175 4.7 3.7 5.5

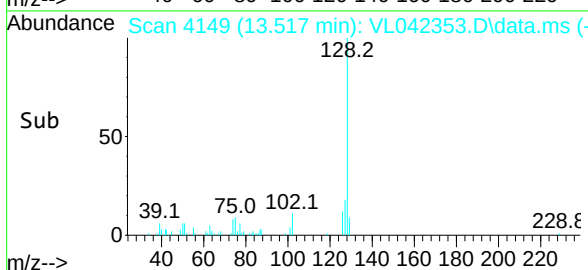
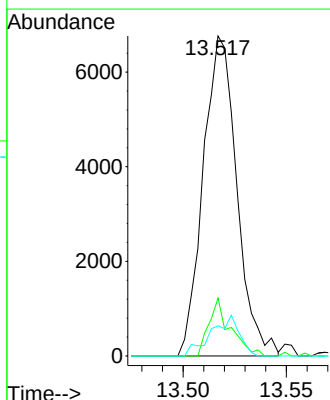
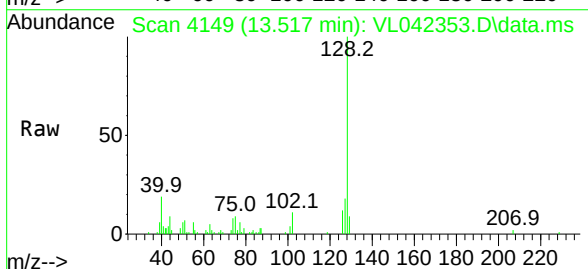
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#79  
Naphthalene  
Concen: 0.100 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:128 Resp: 7664  
Ion Ratio Lower Upper  
128 100  
127 18.1 10.6 15.8#  
129 9.4 8.6 12.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042354.D  
 Acq On : 17 Apr 2025 12:22  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 120042   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 349264   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 312999   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 256230   | 9.962    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 361      | 0.040    | ppbv   | # 76     |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 1120m    | 0.038    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 1382m    | 0.044    | ppbv   |          |
| 38) Trichloroethene           | 4.538  | 130   | 674m     | 0.041    | ppbv   |          |
| 52) Tetrachloroethene         | 8.228  | 164   | 569m     | 0.039    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83    | 1321m    | 0.040    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

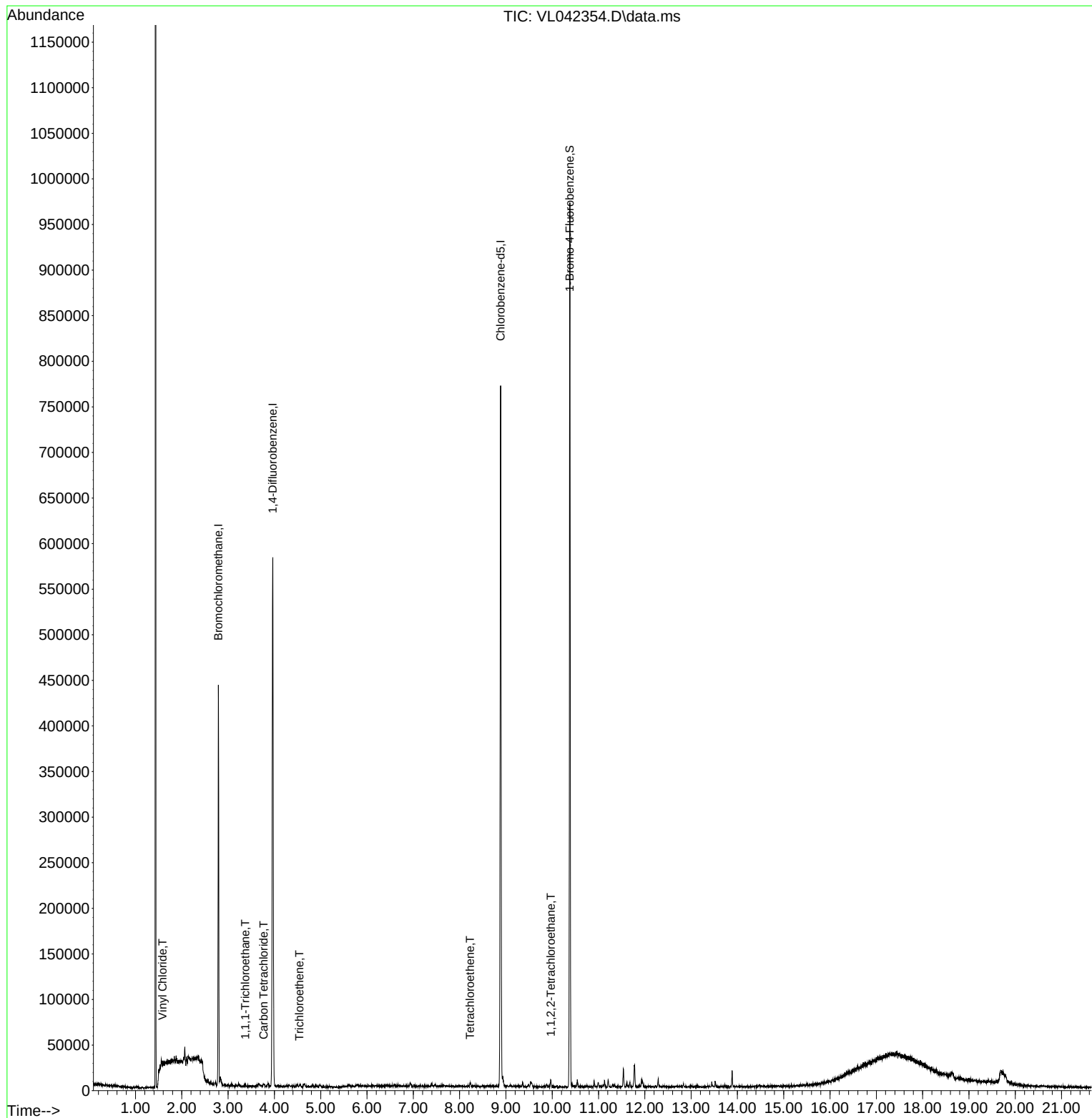
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042354.D  
Acq On : 17 Apr 2025 12:22  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

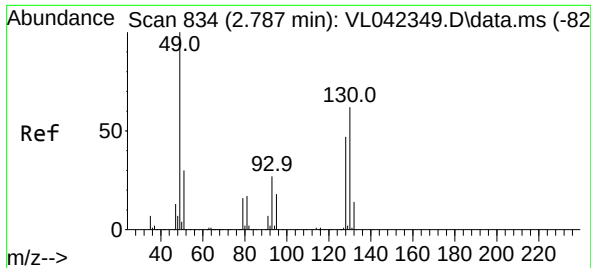
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration

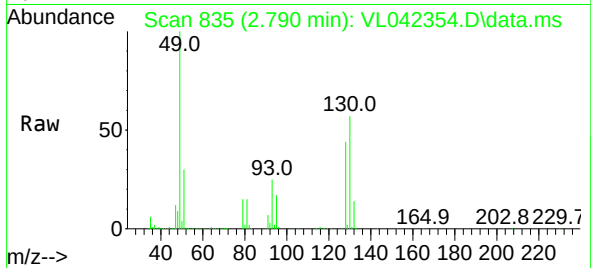






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

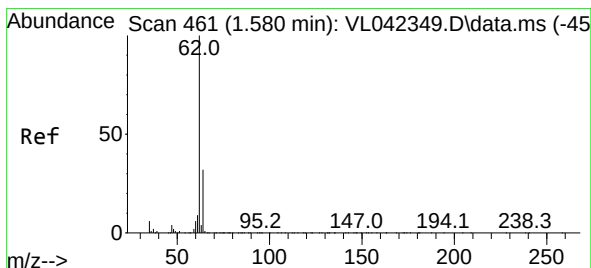
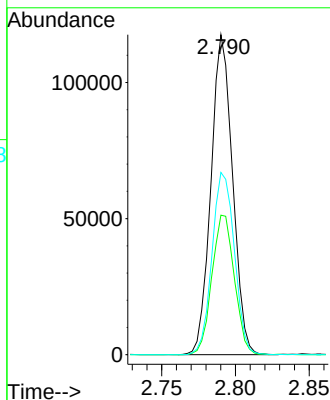
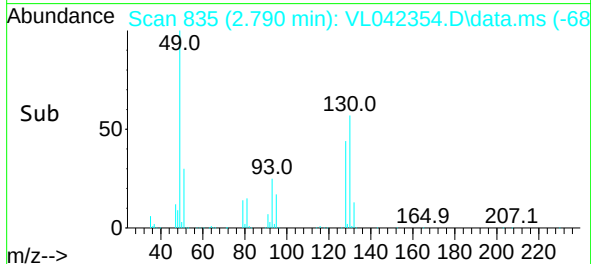
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion: 49 Resp: 12004  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 59.0 29.3 88.0

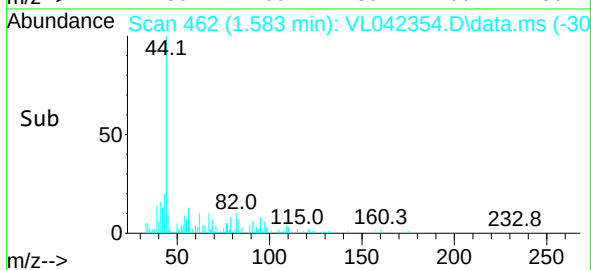
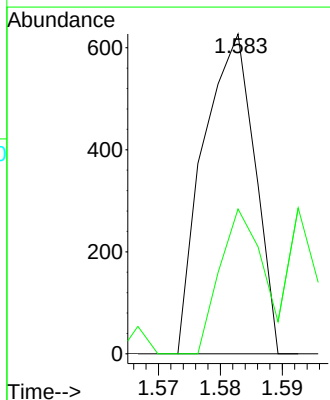
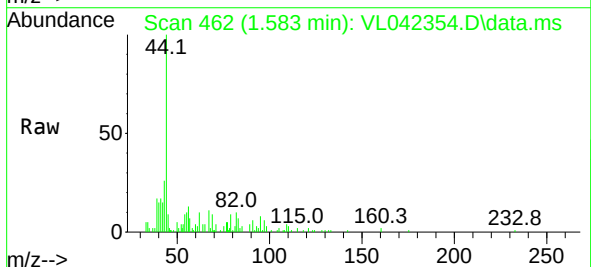
Manual Integrations  
APPROVED

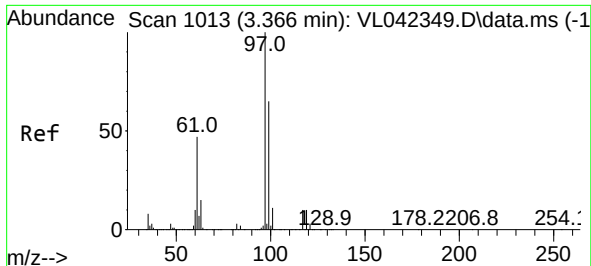
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#5  
Vinyl Chloride  
Concen: 0.040 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

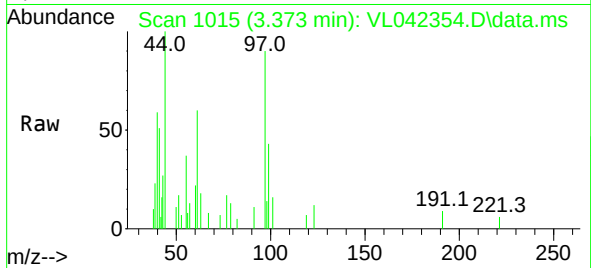
Tgt Ion: 62 Resp: 361  
Ion Ratio Lower Upper  
62 100  
64 45.3 25.4 38.0#





#32  
1,1,1-Trichloroethane  
Concen: 0.038 ppbv m  
RT: 3.373 min Scan# 1015  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

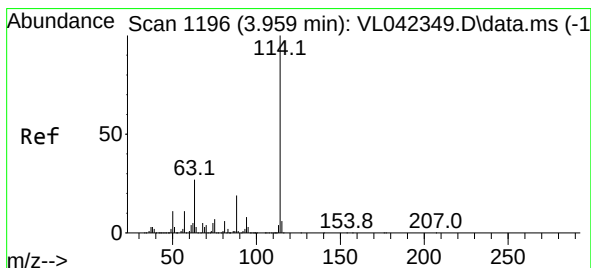
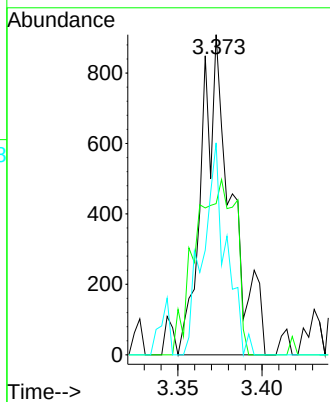
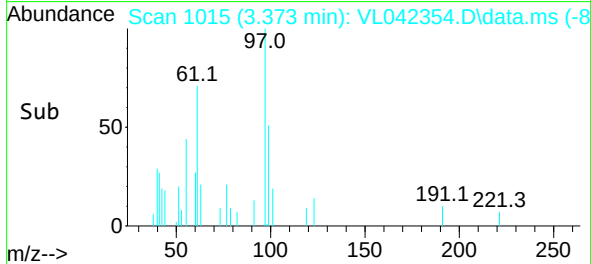
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



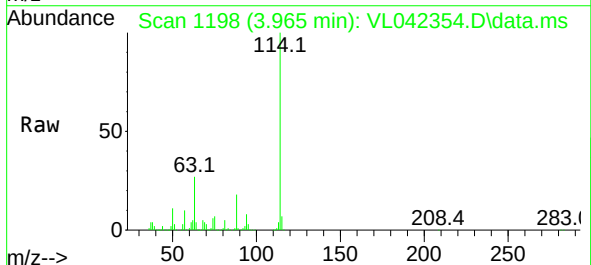
Tgt Ion: 97 Resp: 1120  
Ion Ratio Lower Upper  
97 100  
99 74.4 51.0 76.4  
61 56.9 38.8 58.2

Manual Integrations  
APPROVED

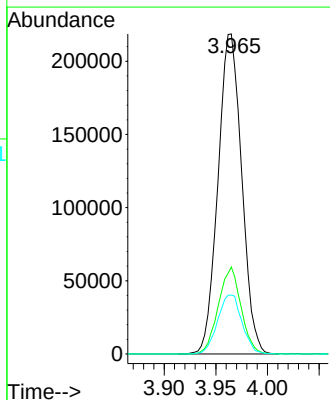
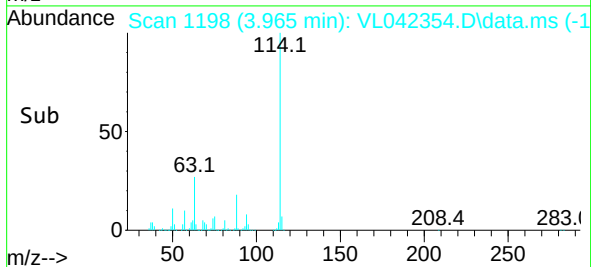
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

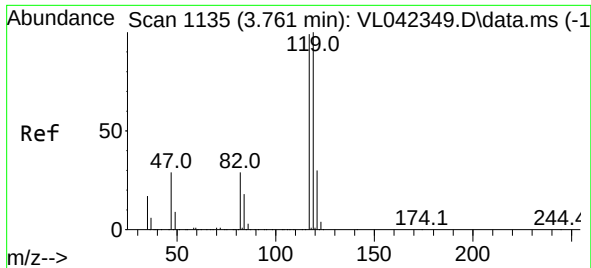


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22



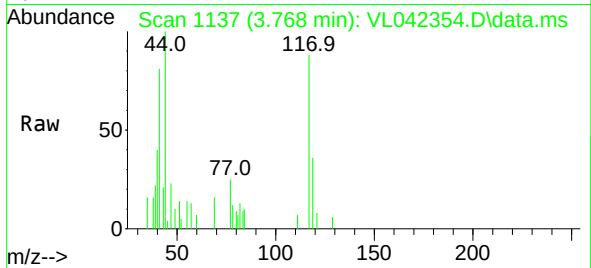
Tgt Ion:114 Resp: 349264  
Ion Ratio Lower Upper  
114 100  
63 26.0 21.8 32.6  
88 19.0 15.5 23.3





#35  
Carbon Tetrachloride  
Concen: 0.044 ppbv m  
RT: 3.768 min Scan# 1135  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

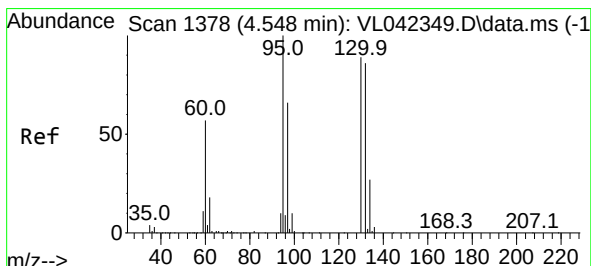
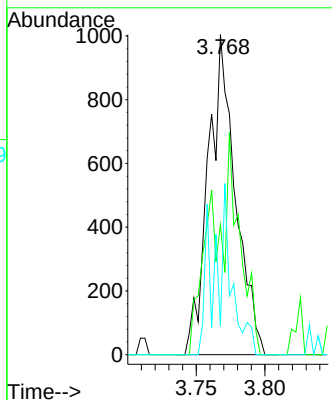
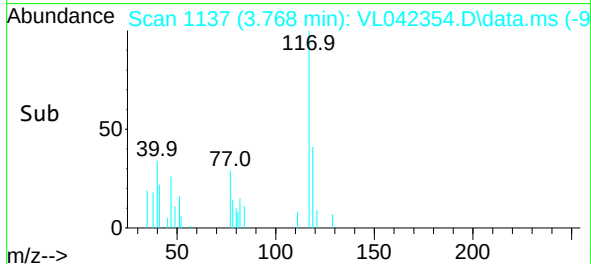
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion:117 Resp: 1382  
Ion Ratio Lower Upper  
117 100  
119 40.6 80.5 120.7  
121 9.0 24.2 36.2

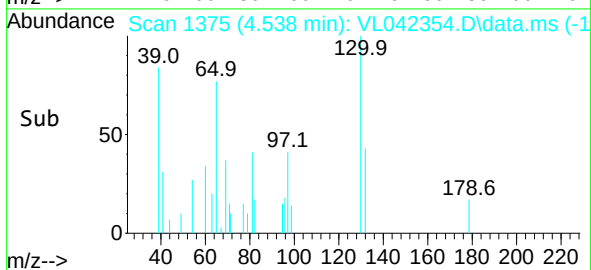
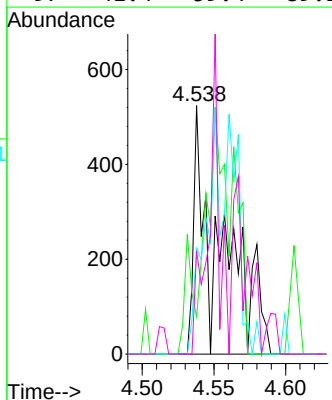
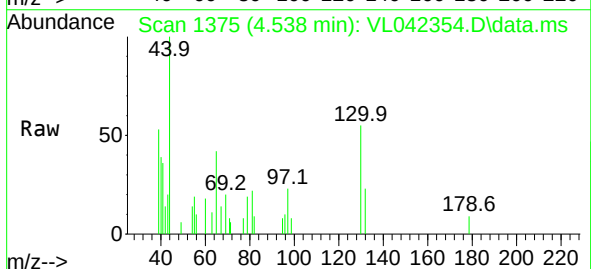
Manual Integrations  
APPROVED

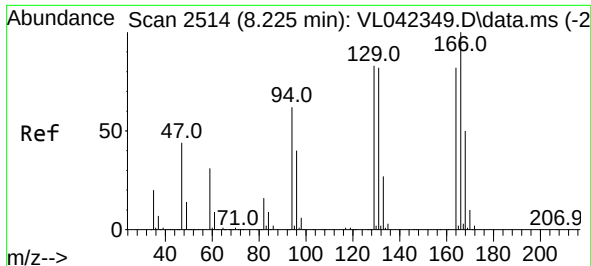
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#38  
Trichloroethene  
Concen: 0.041 ppbv m  
RT: 4.538 min Scan# 1375  
Delta R.T. -0.010 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

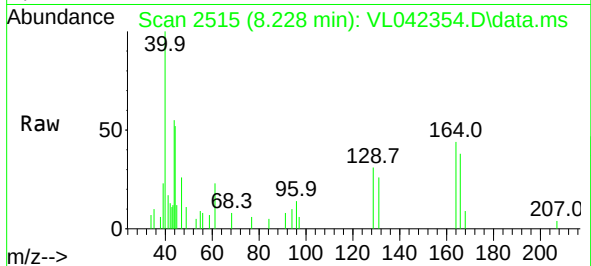
Tgt Ion:130 Resp: 674  
Ion Ratio Lower Upper  
130 100  
95 15.1 89.8 134.6#  
132 42.6 77.7 116.5#  
97 41.4 59.4 89.2#





#52  
Tetrachloroethene  
Concen: 0.039 ppbv m  
RT: 8.228 min Scan# 2514  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

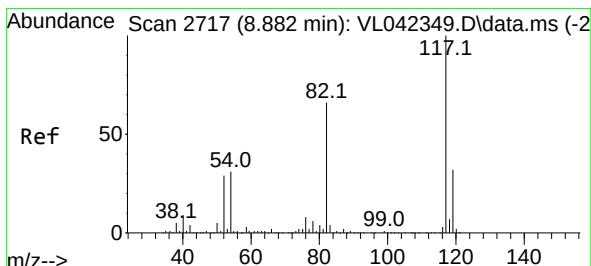
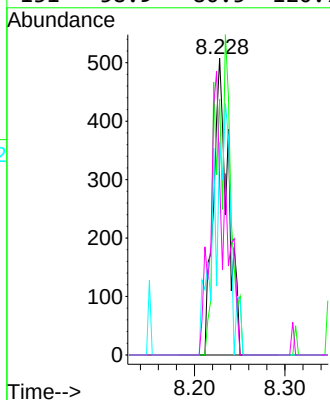
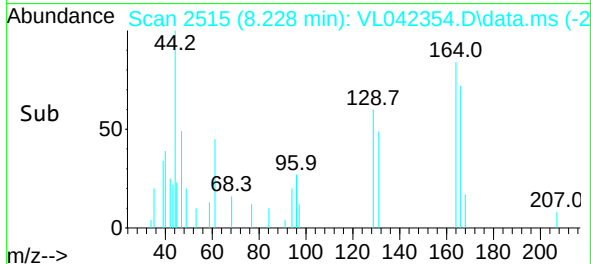
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion:164 Resp: 569  
Ion Ratio Lower Upper  
164 100  
166 86.2 98.2 147.2  
129 71.7 81.8 122.8  
131 58.9 80.5 120.7

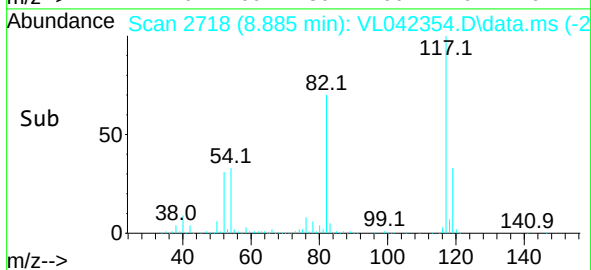
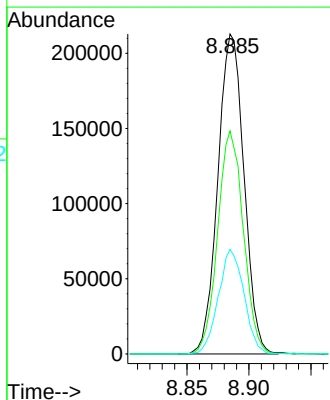
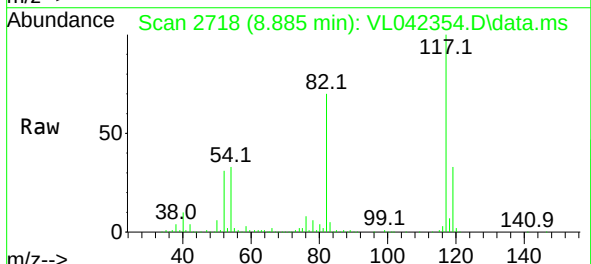
Manual Integrations  
APPROVED

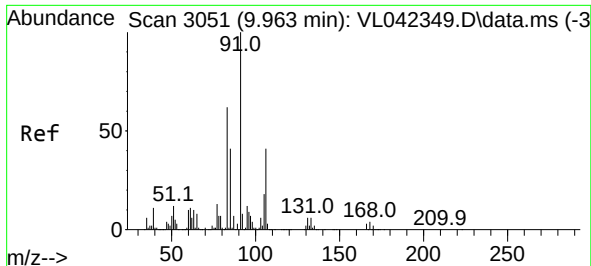
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

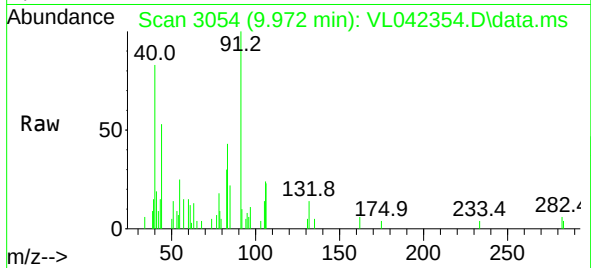
Tgt Ion:117 Resp: 312999  
Ion Ratio Lower Upper  
117 100  
82 68.5 57.8 86.6  
119 32.2 25.2 37.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.040 ppbv m  
RT: 9.972 min Scan# 3051  
Delta R.T. 0.010 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

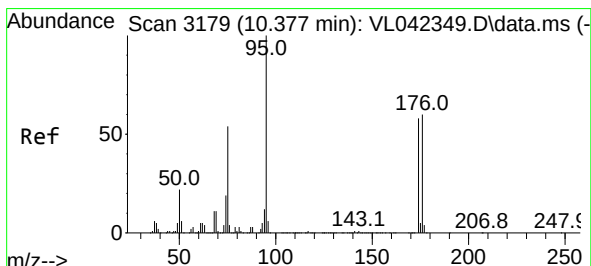
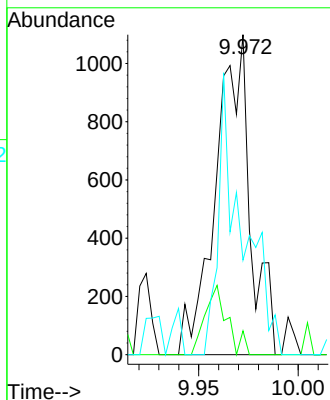
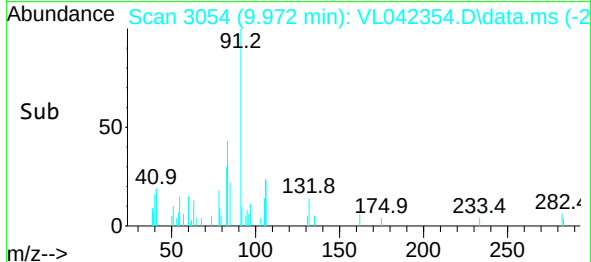
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion: 83 Resp: 132  
Ion Ratio Lower Upper  
83 100  
131 13.9 4.5 13.7  
85 61.4 32.4 97.0

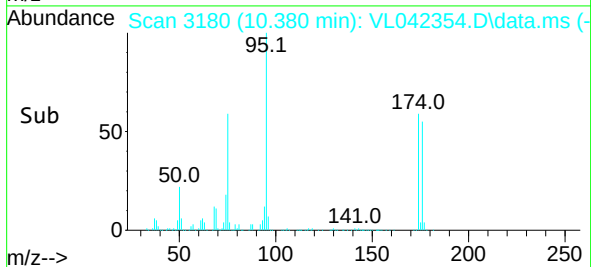
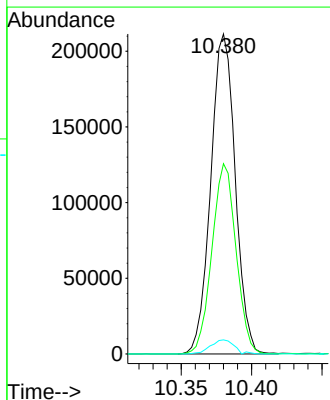
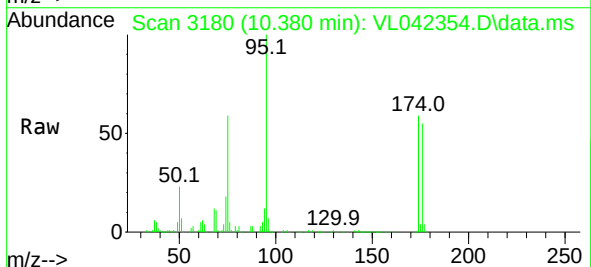
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.962 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230  
Ion Ratio Lower Upper  
95 100  
174 58.6 48.5 72.7  
175 4.3 3.7 5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042355.D  
 Acq On : 17 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 116071   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 332080   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 308463   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 254437 10.038 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 292784 | 14.277 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 280042 | 14.341 | ppbv   | 98     |
| 4) Chloromethane              | 1.532 | 50  | 115775 | 14.266 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 112650 | 12.752 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 52805  | 13.800 | ppbv   | 88     |
| 7) Chloroethane               | 1.703 | 64  | 44347  | 13.881 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 255029 | 14.484 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 123102 | 13.842 | ppbv   | 95     |
| 10) Heptane                   | 4.979 | 43  | 336134 | 14.047 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.875 | 101 | 278059 | 14.258 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 230366 | 14.447 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 6324   | 8.702  | ppbv   | 76     |
| 14) Bromoethene               | 1.781 | 108 | 84851  | 14.117 | ppbv   | 99     |
| 15) Acetone                   | 1.833 | 43  | 229086 | 12.056 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 117997 | 13.224 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 320605 | 13.615 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 107666 | 14.045 | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 139004 | 13.169 | ppbv   | 94     |
| 20) Methylene Chloride        | 2.059 | 84  | 91093  | 12.241 | ppbv   | 90     |
| 21) Allyl Chloride            | 2.095 | 41  | 187995 | 14.329 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 118492 | 13.970 | ppbv   | 94     |
| 23) Vinyl Acetate             | 2.460 | 43  | 106135 | 13.799 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 235466 | 14.615 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.836 | 43  | 663644 | 14.166 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 260975 | 13.765 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.150 | 76  | 299098 | 14.734 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.438 | 73  | 174855 | 14.076 | ppbv   | 95     |
| 29) Chloroform                | 2.849 | 83  | 385686 | 14.393 | ppbv   | 99     |
| 30) Cyclohexane               | 3.855 | 84  | 217375 | 14.238 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 264972 | 14.700 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.367 | 97  | 412537 | 14.357 | ppbv   | 99     |
| 34) 2-Butanone                | 2.558 | 43  | 367315 | 13.986 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.762 | 117 | 409916 | 13.639 | ppbv   | 94     |
| 36) Benzene                   | 3.655 | 78  | 522156 | 14.578 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 319517 | 14.863 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 208508 | 13.278 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 189697 | 14.201 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.580 | 88  | 92114  | 12.733 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.053 | 42  | 214949 | 14.166 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.490 | 83  | 442735 | 14.798 | ppbv   | 95     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 219757 | 13.670 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 893529 | 14.425 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 244470 | 14.810 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042355.D  
 Acq On : 17 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

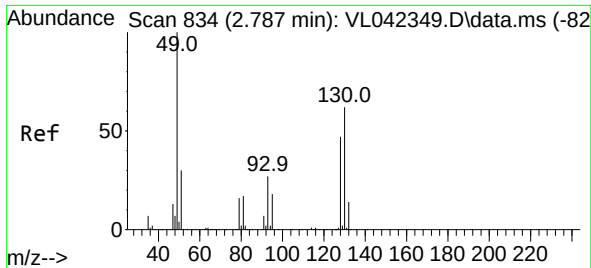
Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 300145   | 14.878 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 6.581  | 97   | 198874   | 14.615 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.390  | 129  | 362887   | 15.105 | ppbv   | 98       |
| 49) Bromoform                 | 9.484  | 173  | 312282   | 14.865 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.749  | 43   | 563658   | 12.889 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 467001   | 11.834 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.225  | 164  | 180631   | 13.046 | ppbv   | 97       |
| 53) Toluene                   | 6.933  | 91   | 619420   | 14.411 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 280071   | 14.442 | ppbv   | 92       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 268626   | 14.389 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.921  | 112  | 454017   | 14.151 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.354  | 91   | 874424   | 14.308 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 1388086m | 28.109 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 689246   | 13.902 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 339508   | 14.347 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 1018968  | 13.999 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 412898   | 12.816 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 260812   | 14.255 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 899720   | 13.449 | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.617 | 91   | 96016    | 13.061 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1253263  | 13.468 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 1081850  | 13.382 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 1117042  | 13.266 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 806728   | 14.131 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 848077   | 13.992 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 726558   | 13.578 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 785772   | 12.572 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 444086   | 13.670 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 450662   | 13.802 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 427372   | 13.529 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 404441   | 12.679 | ppbv   | 100      |
| 79) Naphthalene               | 13.514 | 128  | 944085   | 12.632 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 540339   | 12.686 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 429982   | 13.398 | ppbv   | 98       |

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







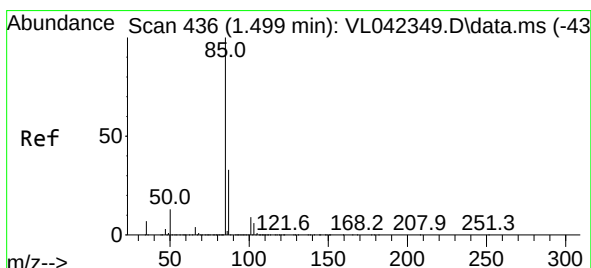
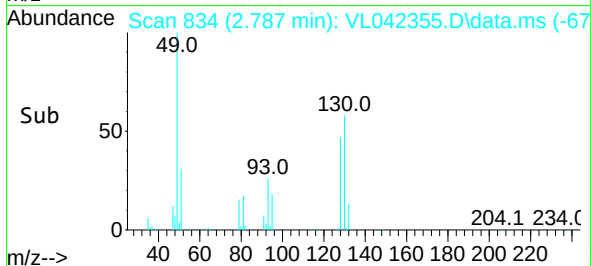
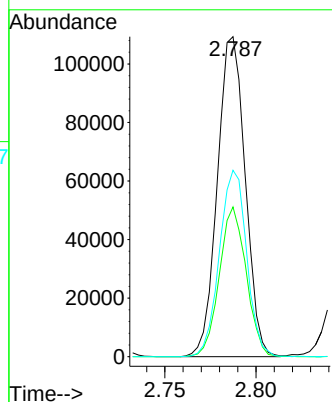
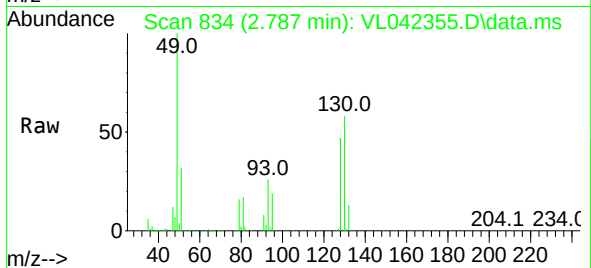
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 49 Resp: 11607  
Ion Ratio Lower Upper  
49 100  
128 45.1 22.8 68.4  
130 57.1 29.3 88.0

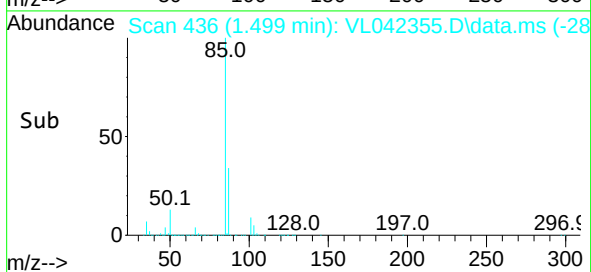
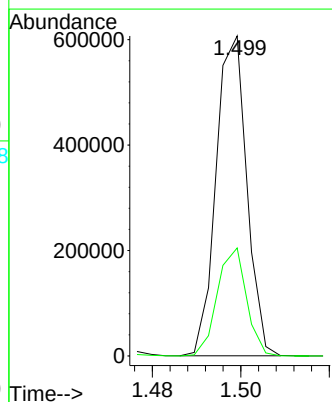
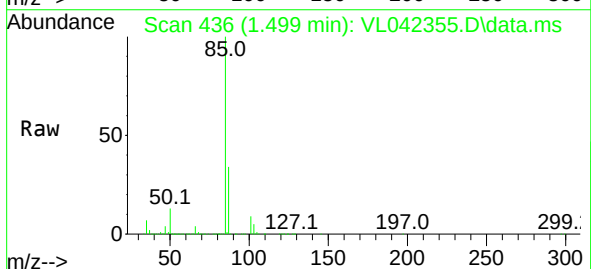
Manual Integrations  
APPROVED

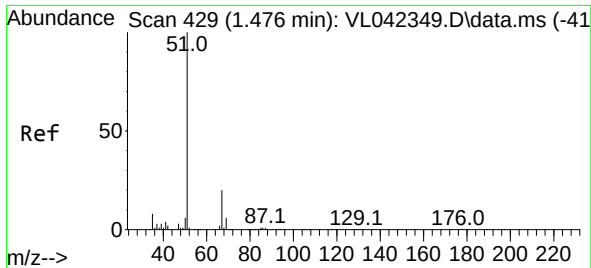
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#2  
Dichlorodifluoromethane  
Concen: 14.277 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

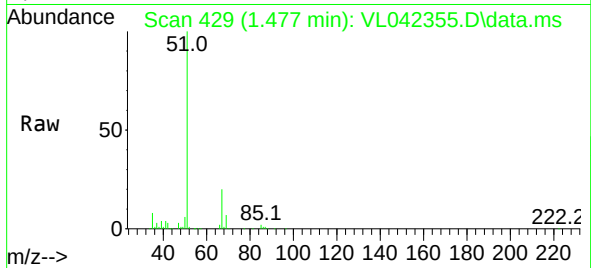
Tgt Ion: 85 Resp: 292784  
Ion Ratio Lower Upper  
85 100  
87 33.8 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 14.341 ppbv  
RT: 1.477 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

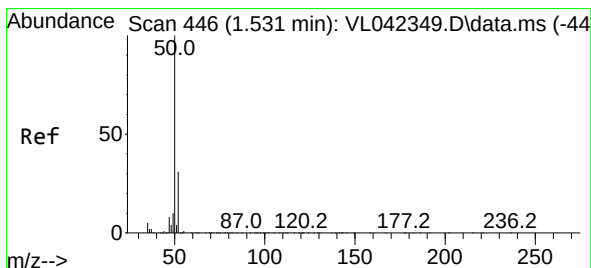
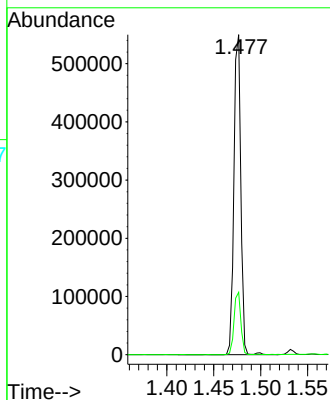
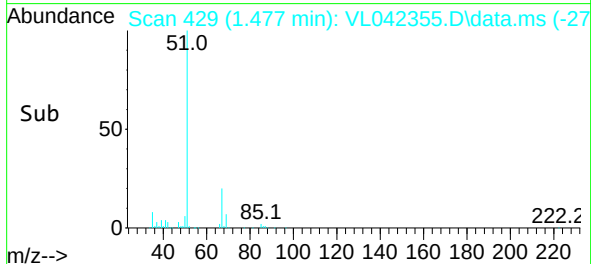
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



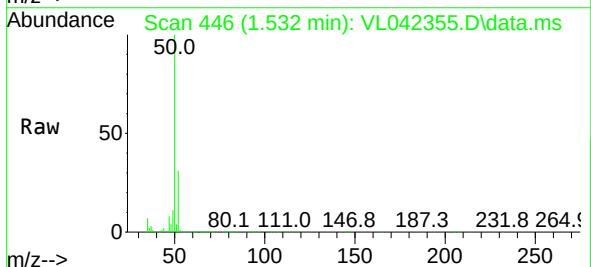
Tgt Ion: 51 Resp: 28004  
Ion Ratio Lower Upper  
51 100  
67 19.5 16.2 24.4

Manual Integrations  
APPROVED

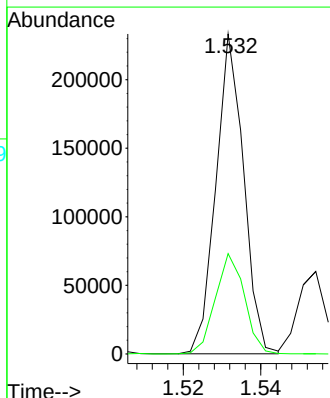
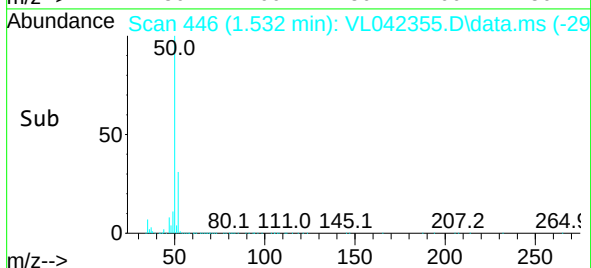
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

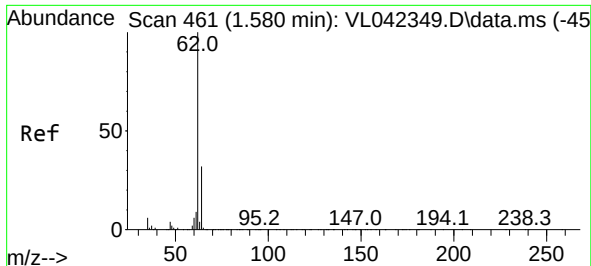


#4  
Chloromethane  
Concen: 14.266 ppbv  
RT: 1.532 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion: 50 Resp: 115775  
Ion Ratio Lower Upper  
50 100  
52 31.3 24.7 37.1





#5  
 Vinyl Chloride  
 Concen: 12.752 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

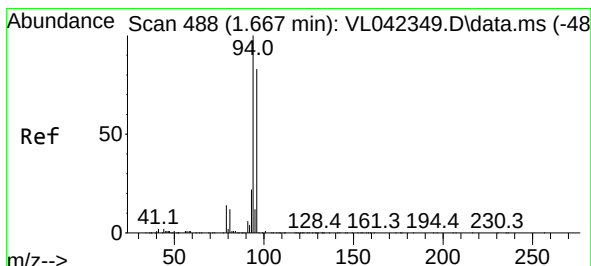
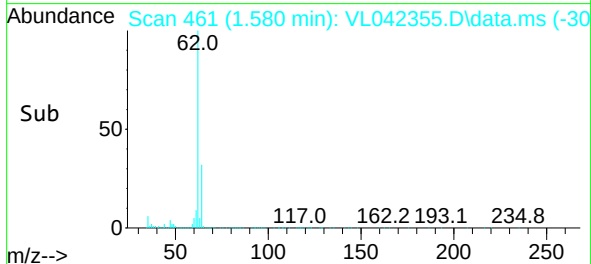
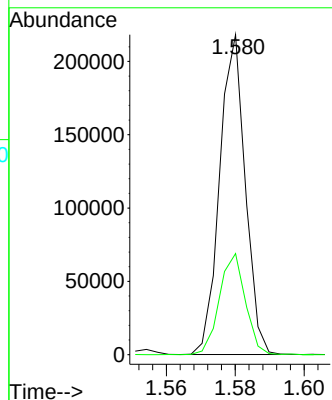
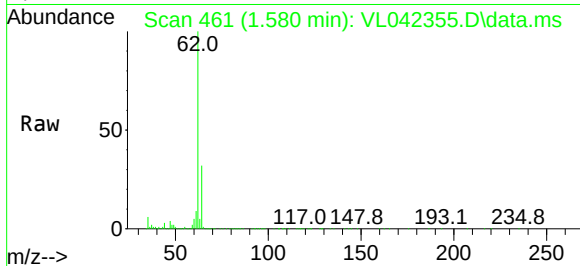
ClientSampleId :

VSTDICC015

Tgt Ion: 62 Resp: 112650  
 Ion Ratio Lower Upper  
 62 100  
 64 31.6 25.4 38.0

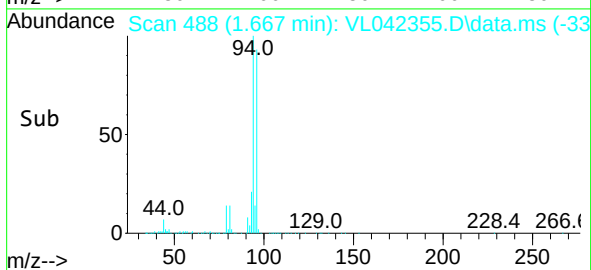
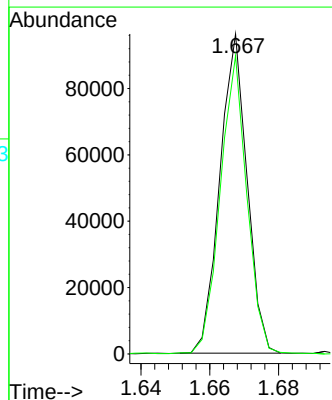
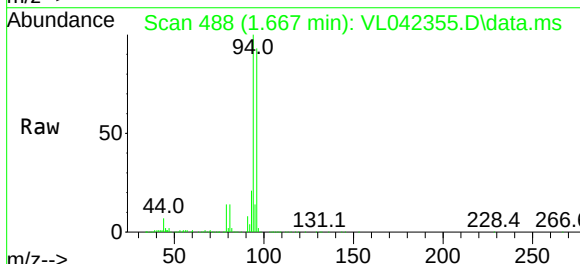
Manual Integrations  
 APPROVED

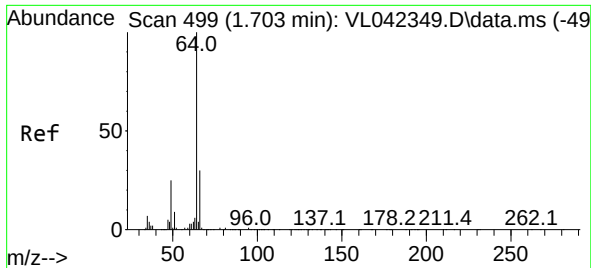
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#6  
 Bromomethane  
 Concen: 13.800 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

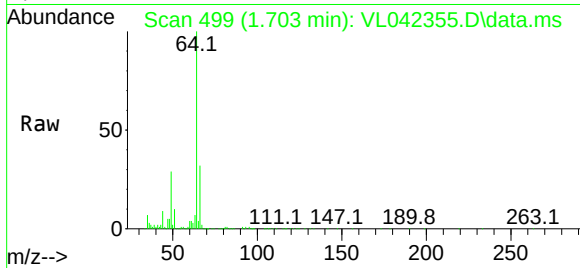
Tgt Ion: 94 Resp: 52805  
 Ion Ratio Lower Upper  
 94 100  
 96 93.1 66.2 99.2





#7  
Chloroethane  
Concen: 13.881 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

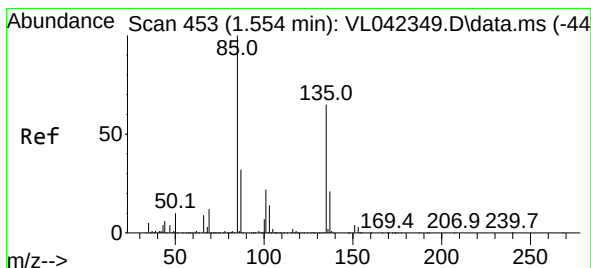
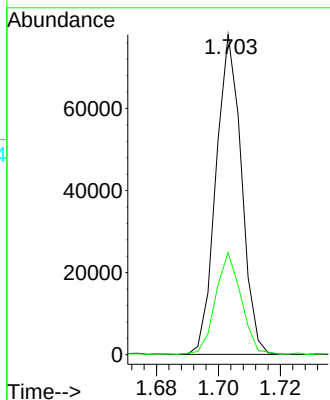
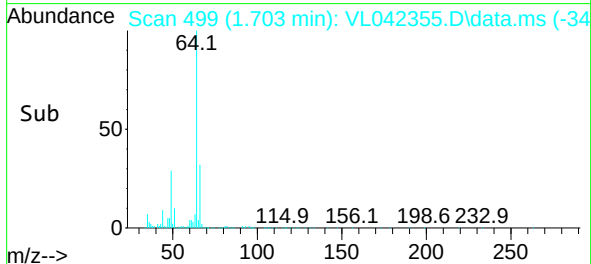
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



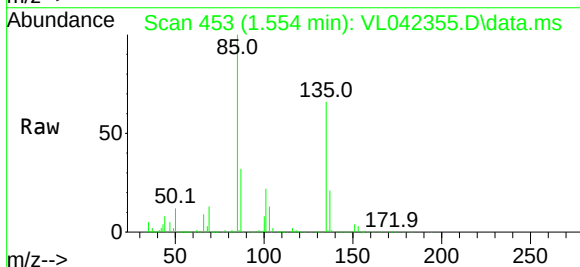
Tgt Ion: 64 Resp: 4434  
Ion Ratio Lower Upper  
64 100  
66 31.9 24.6 37.0

Manual Integrations  
APPROVED

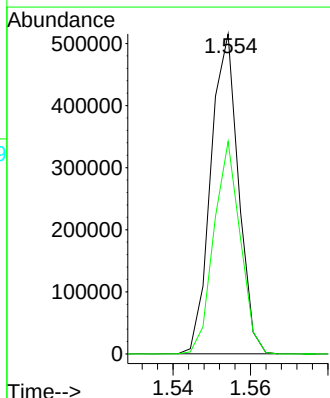
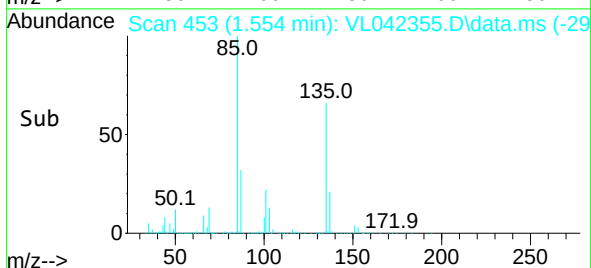
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

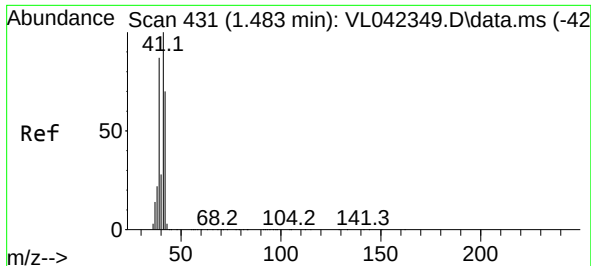


#8  
Dichlorotetrafluoroethane  
Concen: 14.484 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion: 85 Resp: 255029  
Ion Ratio Lower Upper  
85 100  
135 63.6 52.2 78.2





#9

Propene

Concen: 13.842 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 12310

Ion Ratio Lower Upper

41 100

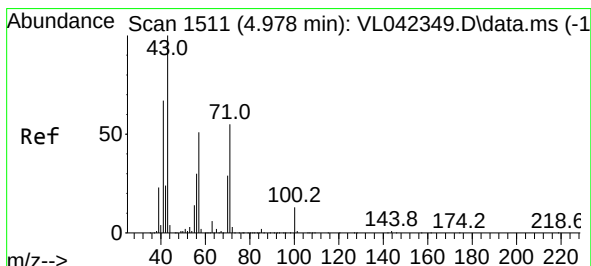
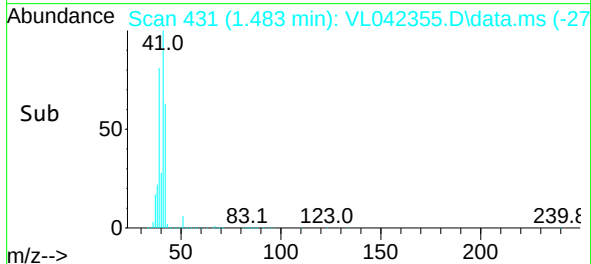
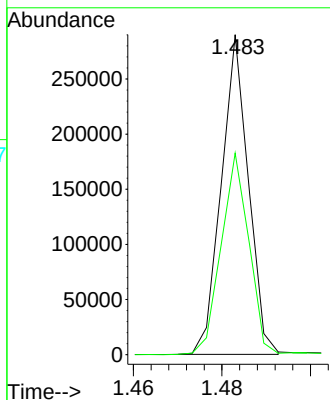
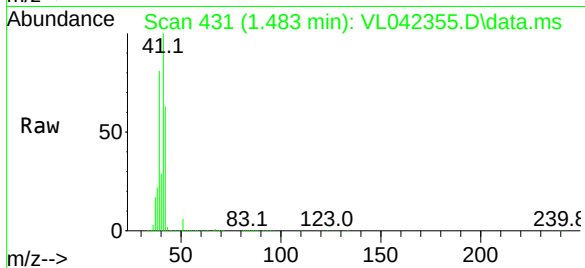
42 66.0 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 14.047 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042355.D

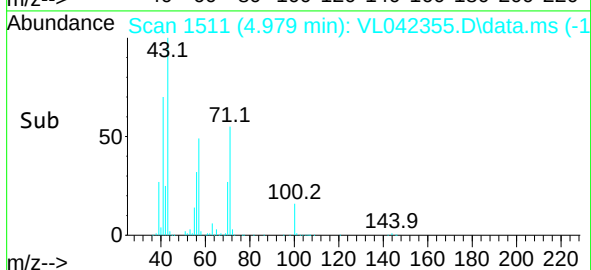
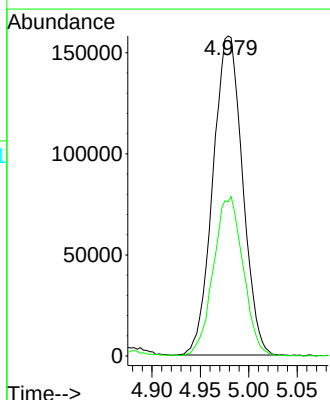
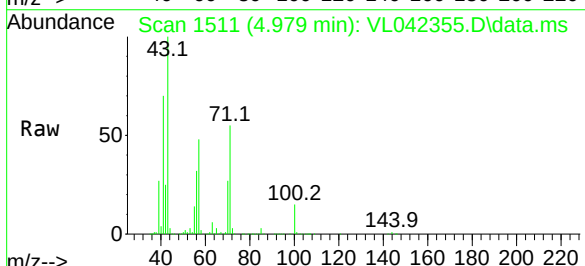
Acq: 17 Apr 2025 12:54

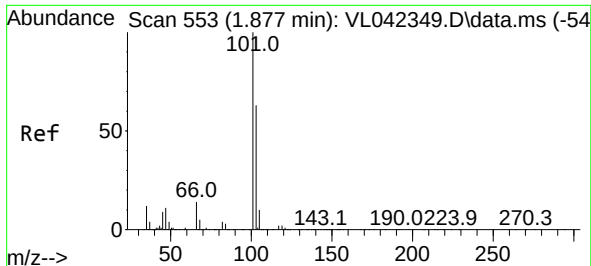
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

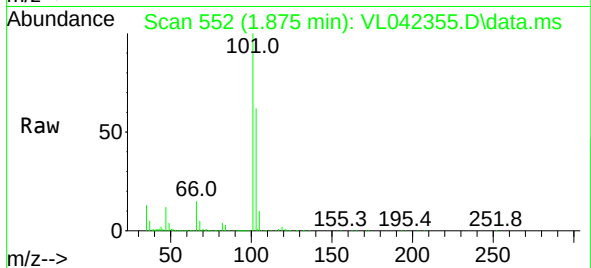
57 50.0 39.9 59.9





#11  
Trichlorofluoromethane  
Concen: 14.258 ppbv  
RT: 1.875 min Scan# 511  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

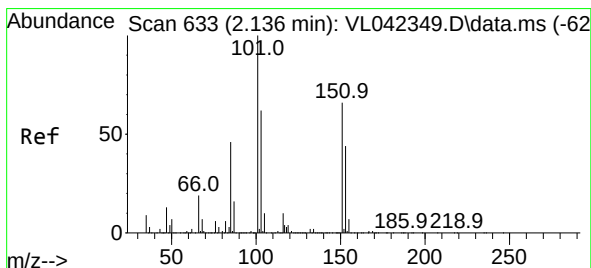
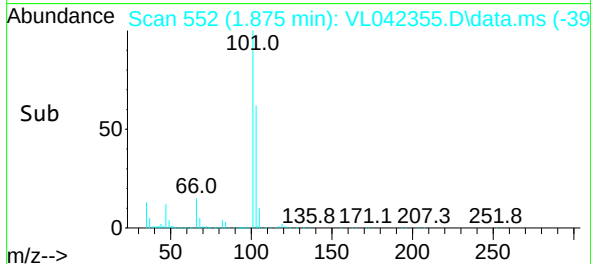
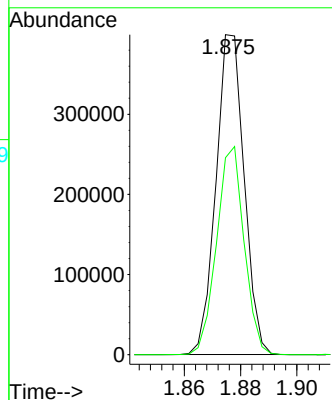
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion:101 Resp: 278059  
Ion Ratio Lower Upper  
101 100  
103 61.6 50.1 75.1

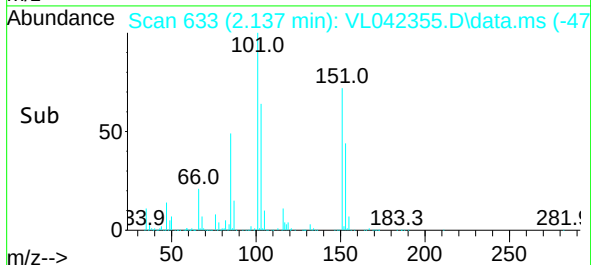
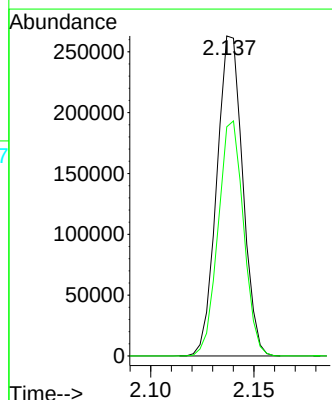
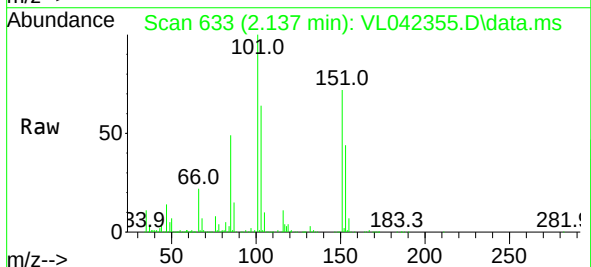
Manual Integrations  
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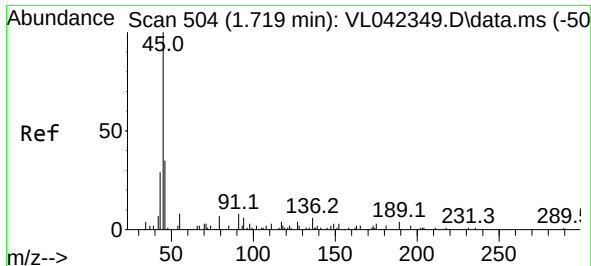
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 14.447 ppbv  
RT: 2.137 min Scan# 633  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

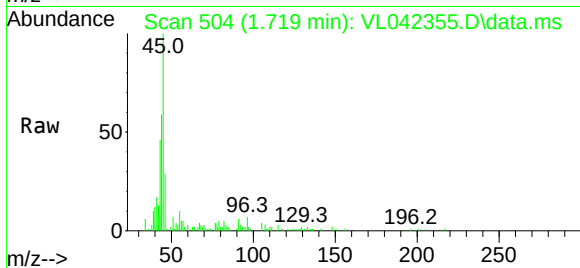
Tgt Ion:101 Resp: 230366  
Ion Ratio Lower Upper  
101 100  
151 71.8 57.0 85.6





#13  
Ethanol  
Concen: 8.702 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

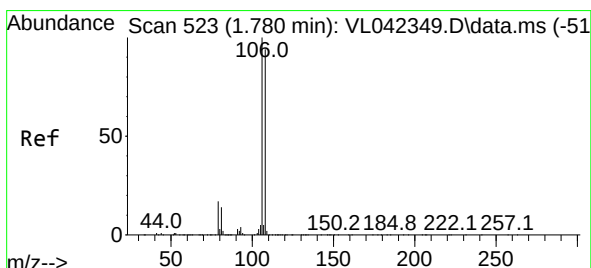
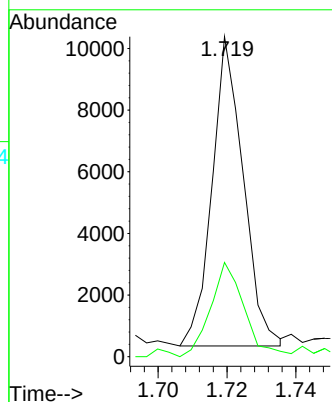
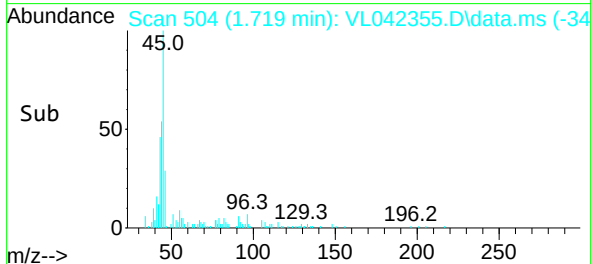
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



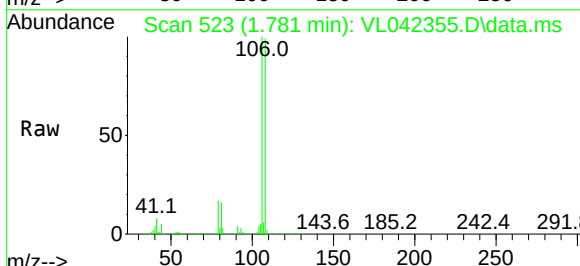
Tgt Ion: 45 Resp: 6324  
Ion Ratio Lower Upper  
45 100  
46 37.6 21.9 87.7

Manual Integrations  
APPROVED

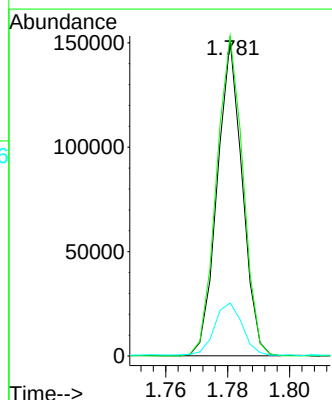
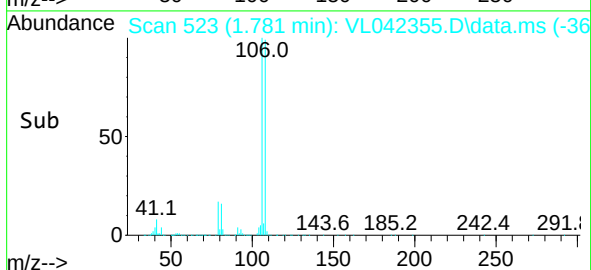
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

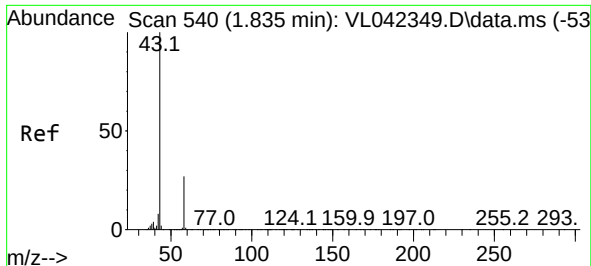


#14  
Bromoethene  
Concen: 14.117 ppbv  
RT: 1.781 min Scan# 523  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



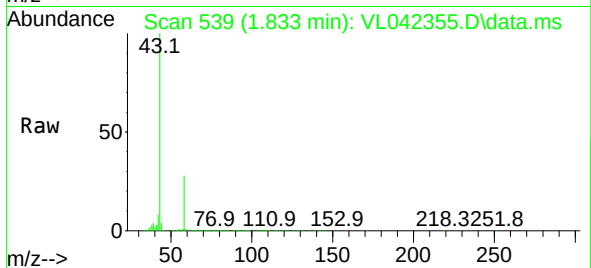
Tgt Ion:108 Resp: 84851  
Ion Ratio Lower Upper  
108 100  
106 107.5 85.9 128.9  
79 19.3 13.9 20.9





#15  
Acetone  
Concen: 12.056 ppbv  
RT: 1.833 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

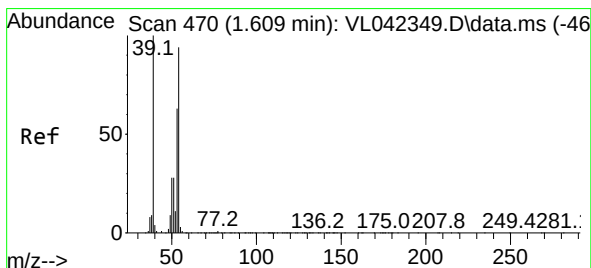
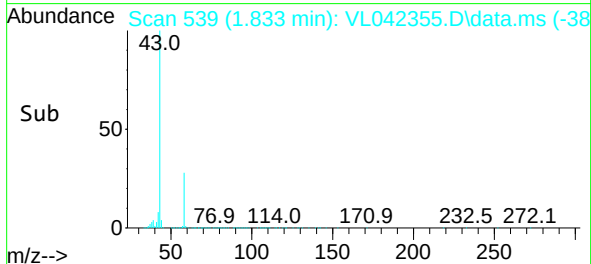
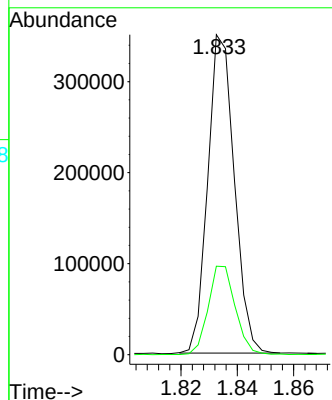
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 43 Resp: 229080  
Ion Ratio Lower Upper  
43 100  
58 28.4 22.4 33.6

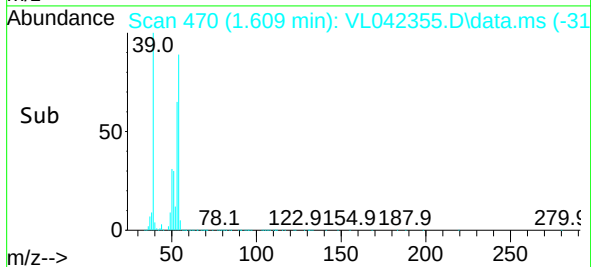
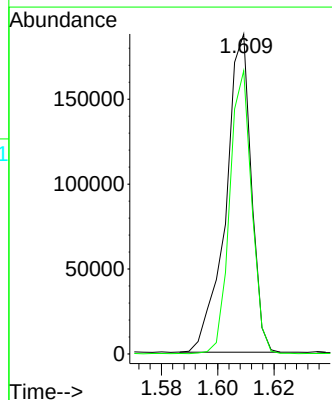
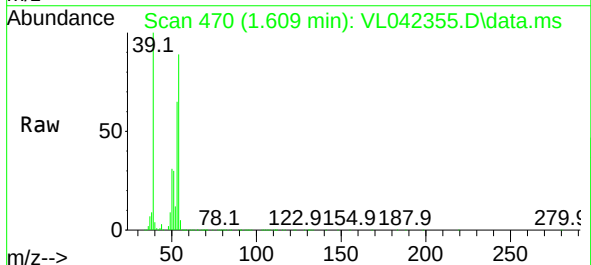
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

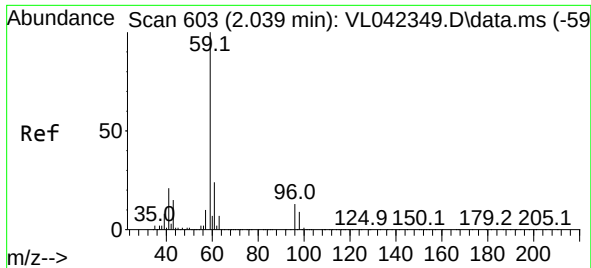


#16  
1,3-Butadiene  
Concen: 13.224 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997  
Ion Ratio Lower Upper  
39 100  
54 77.2 64.9 97.3

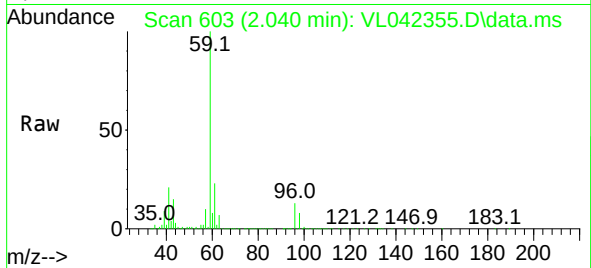






#17  
tert-Butyl alcohol  
Concen: 13.615 ppbv  
RT: 2.040 min Scan# 603  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

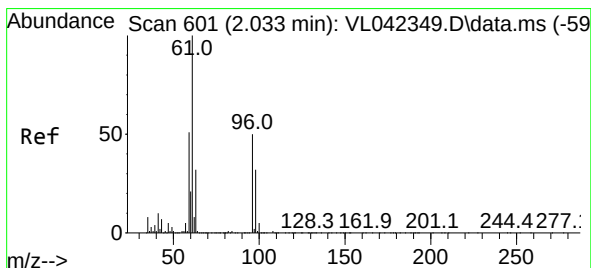
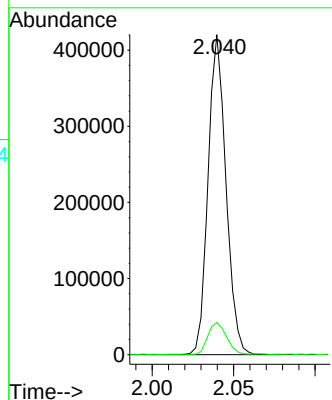
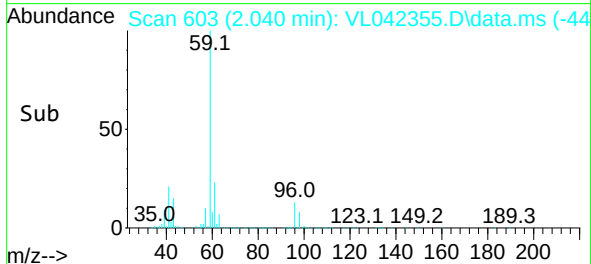
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



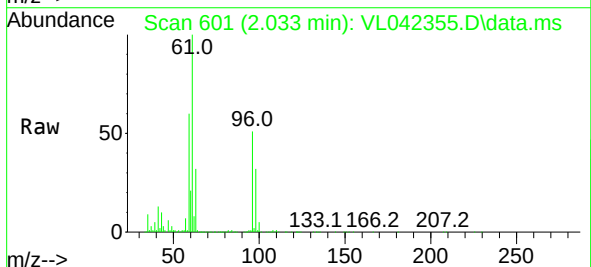
Tgt Ion: 59 Resp: 320609  
Ion Ratio Lower Upper  
59 100  
57 10.6 8.7 13.1

Manual Integrations  
APPROVED

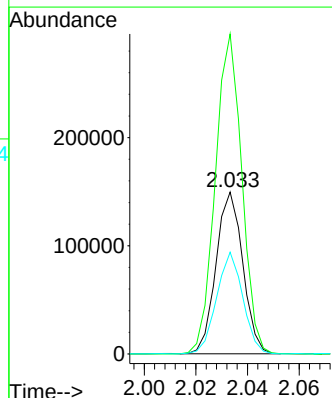
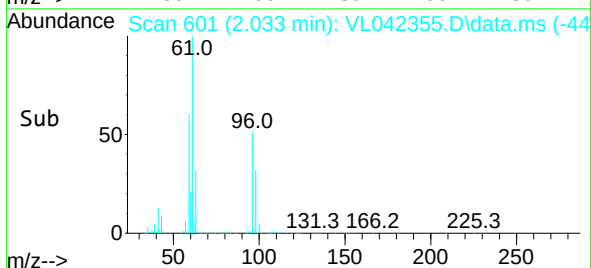
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

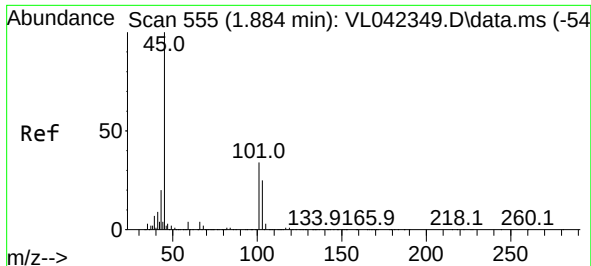


#18  
1,1-Dichloroethene  
Concen: 14.045 ppbv  
RT: 2.033 min Scan# 601  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



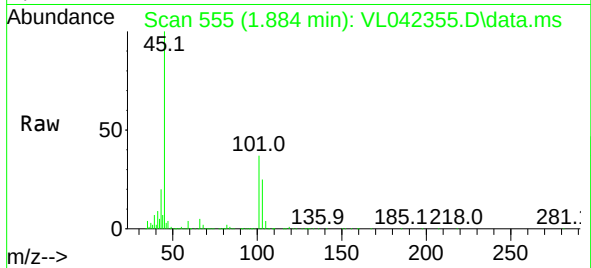
Tgt Ion: 96 Resp: 107666  
Ion Ratio Lower Upper  
96 100  
61 197.8 160.2 240.2  
98 62.9 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 13.169 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

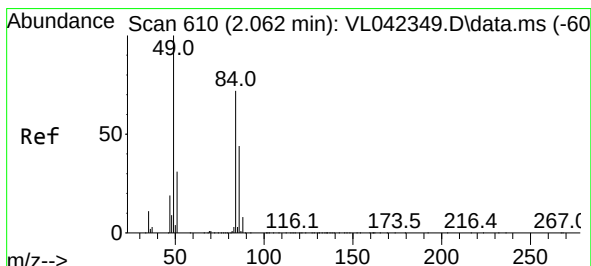
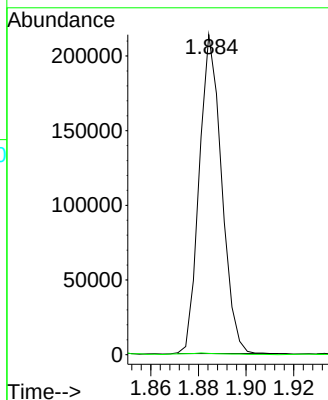
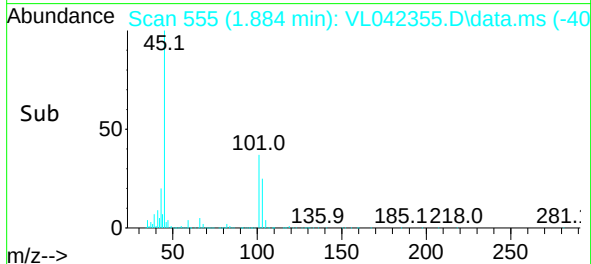
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



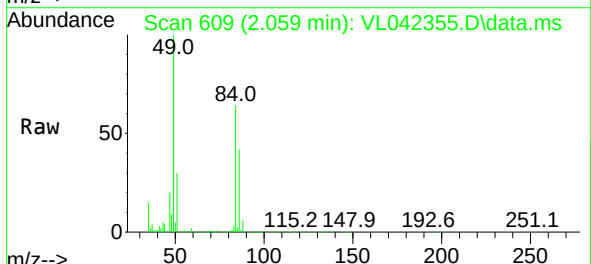
Tgt Ion: 45 Resp: 139004  
Ion Ratio Lower Upper  
45 100  
58 46.9 34.5 51.7

Manual Integrations  
APPROVED

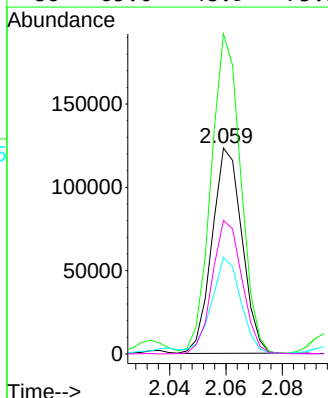
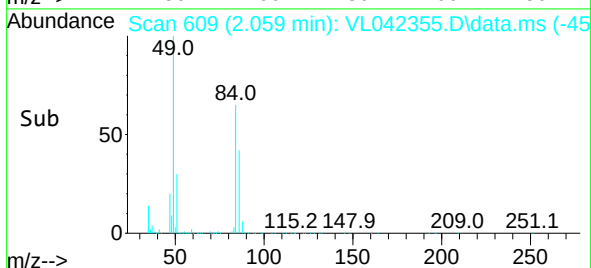
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

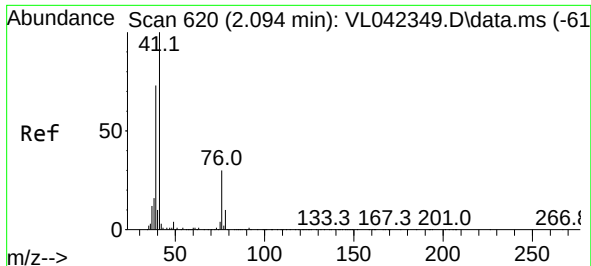


#20  
Methylene Chloride  
Concen: 12.241 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



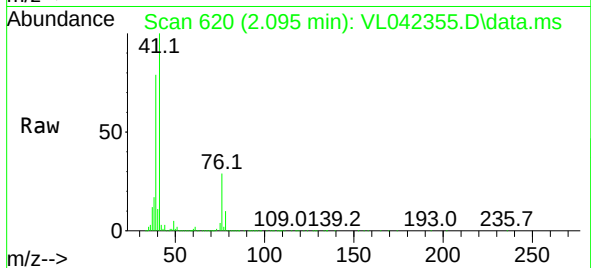
Tgt Ion: 84 Resp: 91093  
Ion Ratio Lower Upper  
84 100  
49 155.7 111.6 167.4  
51 46.8 35.1 52.7  
86 65.0 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 14.329 ppbv  
 RT: 2.095 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

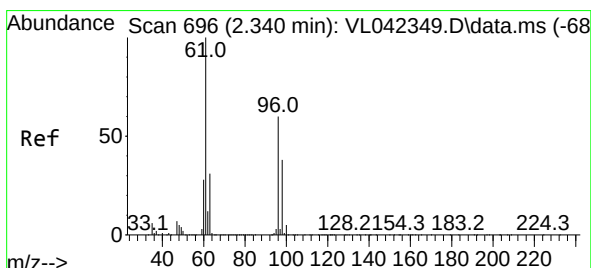
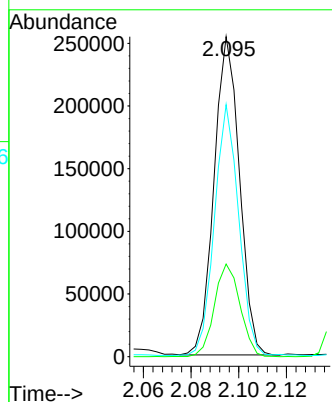
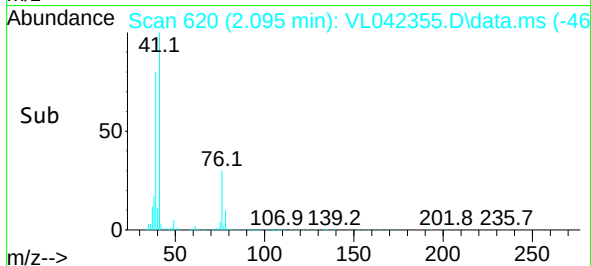
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion: 41 Resp: 18799  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 24.8 37.2  
 39 75.2 60.6 90.8

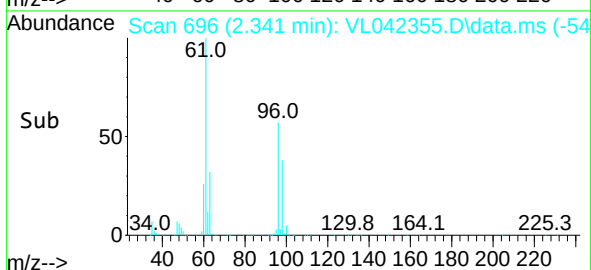
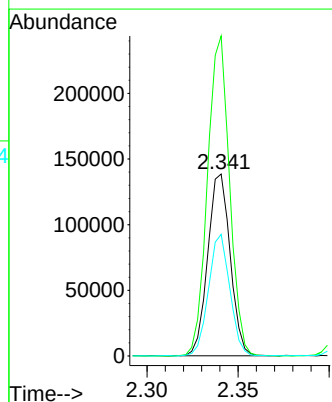
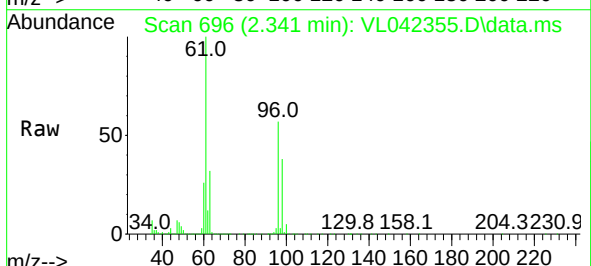
Manual Integrations  
 APPROVED

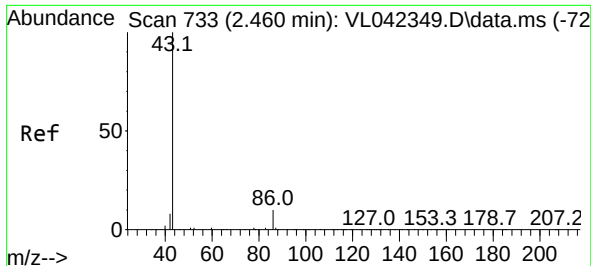
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 13.970 ppbv  
 RT: 2.341 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

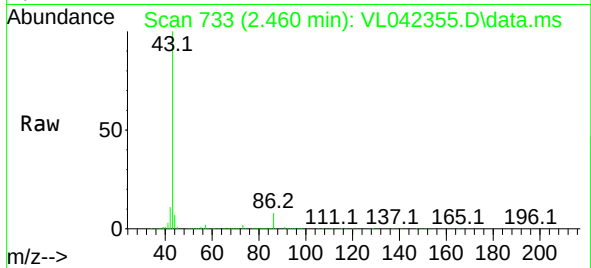
Tgt Ion: 96 Resp: 118492  
 Ion Ratio Lower Upper  
 96 100  
 61 176.1 133.7 200.5  
 98 66.8 50.3 75.5





#23  
 Vinyl Acetate  
 Concen: 13.799 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

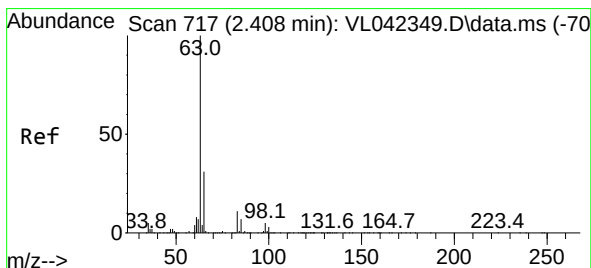
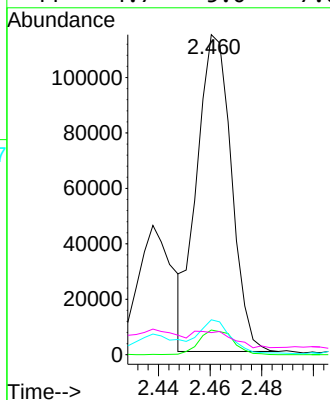
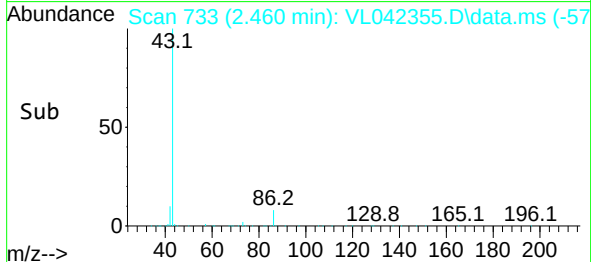
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion: 43 Resp: 106135  
 Ion Ratio Lower Upper  
 43 100  
 86 7.8 6.5 9.7  
 42 10.4 7.8 11.8  
 44 4.7 5.0 7.6#

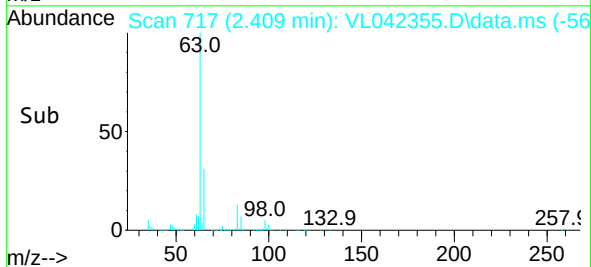
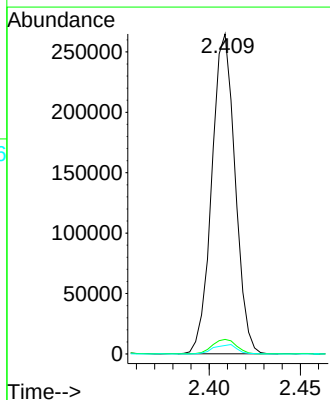
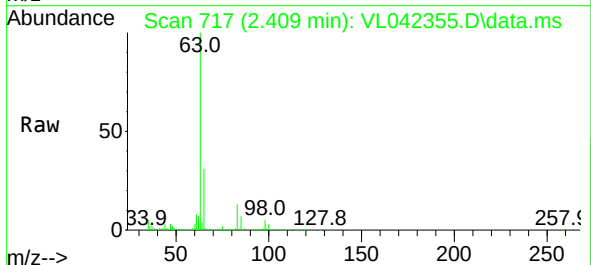
Manual Integrations  
 APPROVED

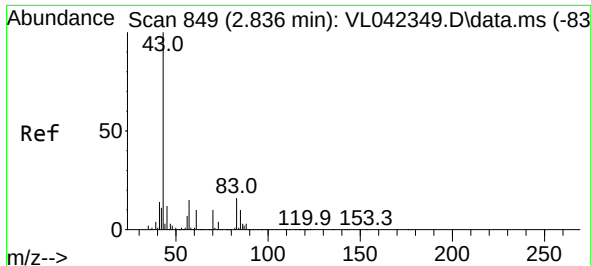
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#24  
 1,1-Dichloroethane  
 Concen: 14.615 ppbv  
 RT: 2.409 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

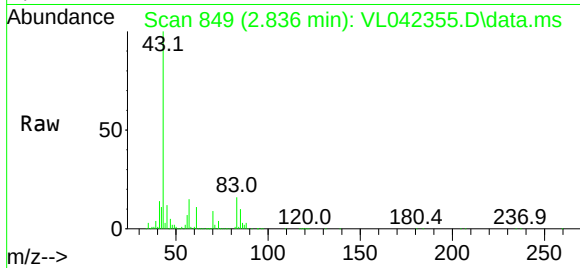
Tgt Ion: 63 Resp: 235466  
 Ion Ratio Lower Upper  
 63 100  
 98 4.5 2.3 6.8  
 100 2.6 1.6 4.8





#25  
Ethyl Acetate  
Concen: 14.166 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

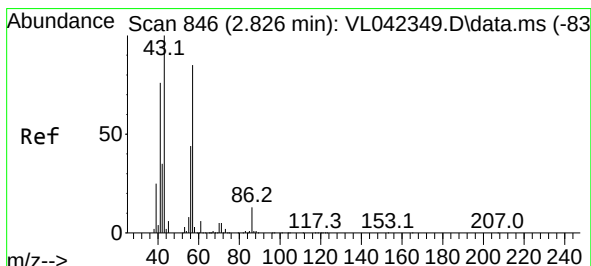
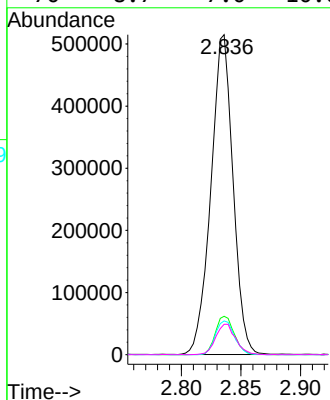
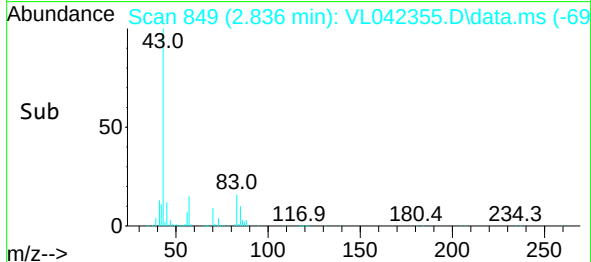
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



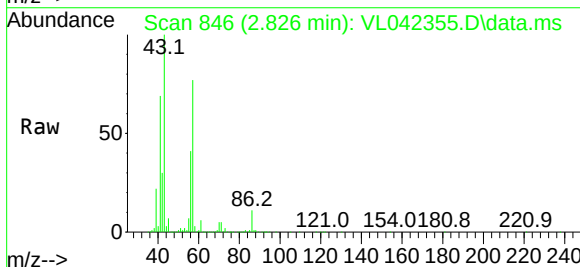
Tgt Ion: 43 Resp: 663644  
Ion Ratio Lower Upper  
43 100  
45 10.4 8.3 12.5  
61 9.2 7.3 10.9  
70 8.7 7.0 10.6

Manual Integrations  
APPROVED

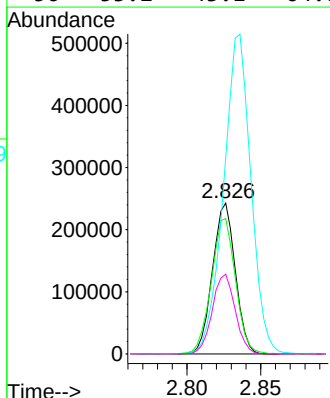
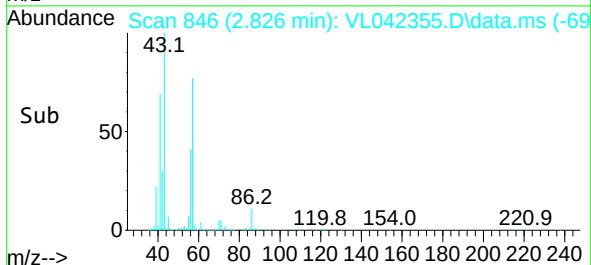
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

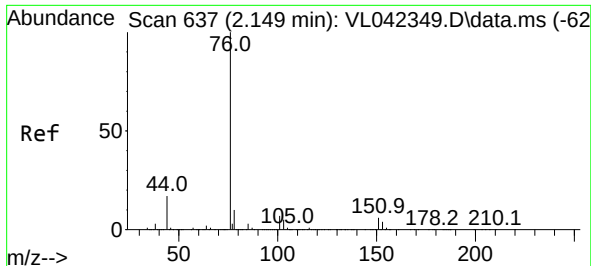


#26  
Hexane  
Concen: 13.765 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



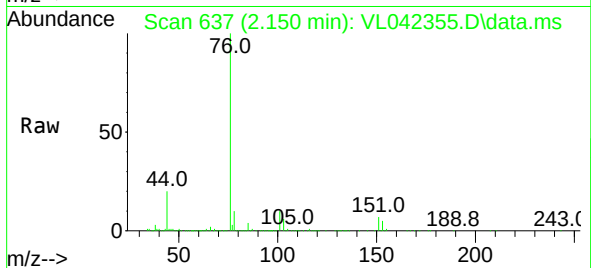
Tgt Ion: 57 Resp: 260975  
Ion Ratio Lower Upper  
57 100  
41 95.3 77.9 116.9  
43 254.5 208.4 312.6  
56 53.2 43.1 64.7





#27  
Carbon Disulfide  
Concen: 14.734 ppbv  
RT: 2.150 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

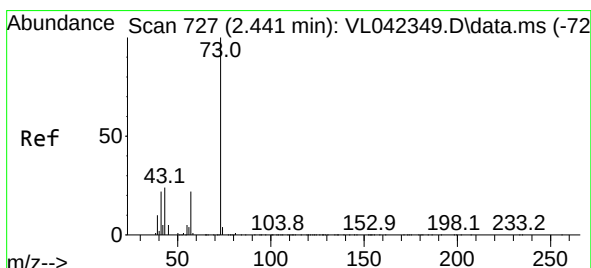
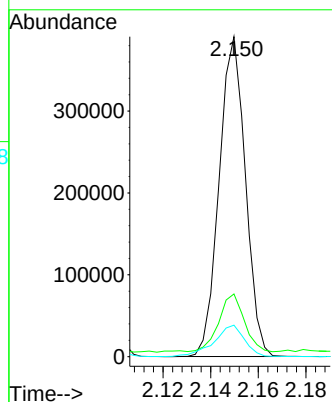
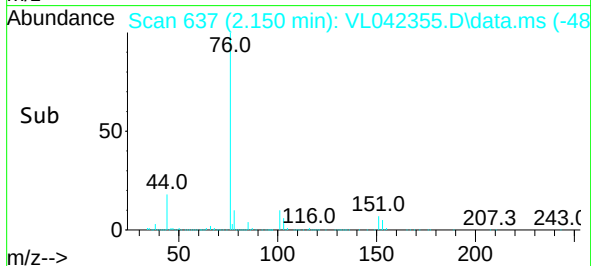
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



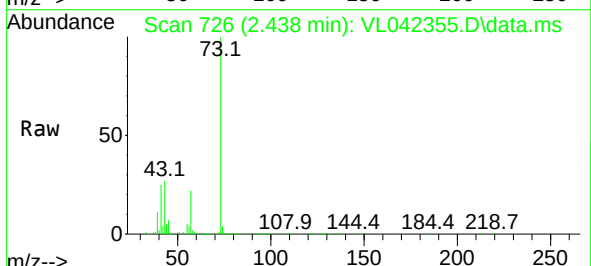
Tgt Ion: 76 Resp: 299098  
Ion Ratio Lower Upper  
76 100  
44 17.3 15.5 23.3  
78 11.4 9.3 13.9

Manual Integrations  
APPROVED

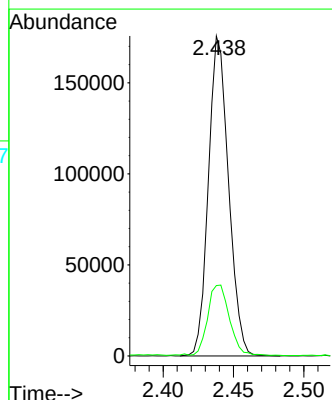
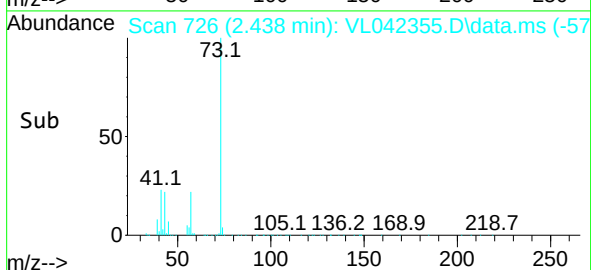
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

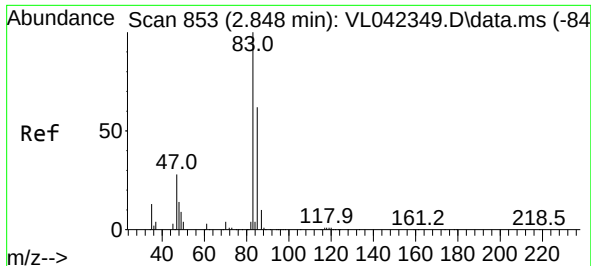


#28  
Methyl tert-Butyl Ether  
Concen: 14.076 ppbv  
RT: 2.438 min Scan# 726  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



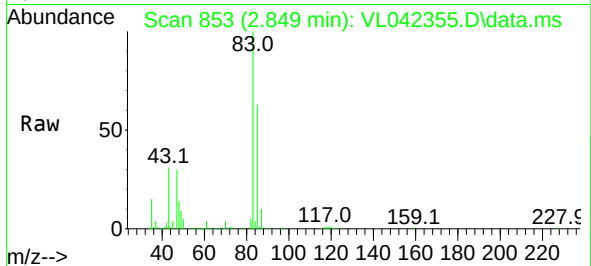
Tgt Ion: 73 Resp: 174855  
Ion Ratio Lower Upper  
73 100  
57 24.3 21.3 31.9





#29  
Chloroform  
Concen: 14.393 ppbv  
RT: 2.849 min Scan# 853  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

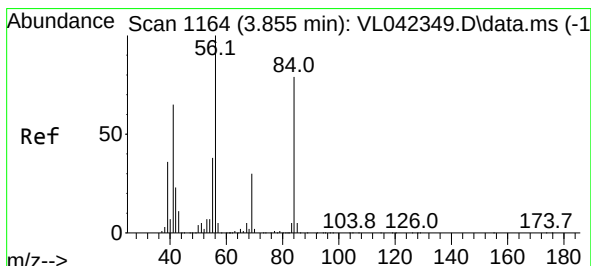
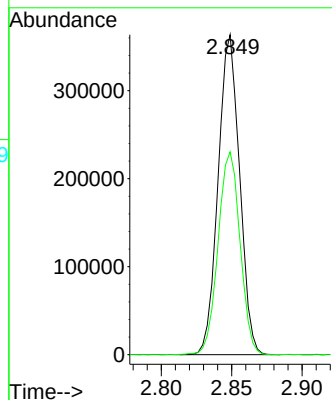
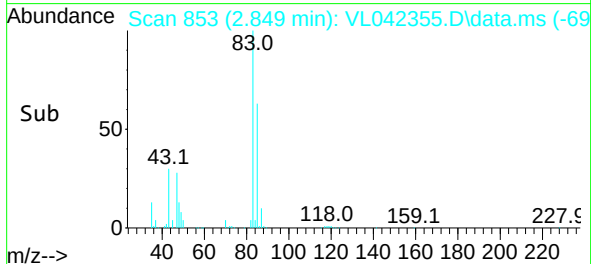
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



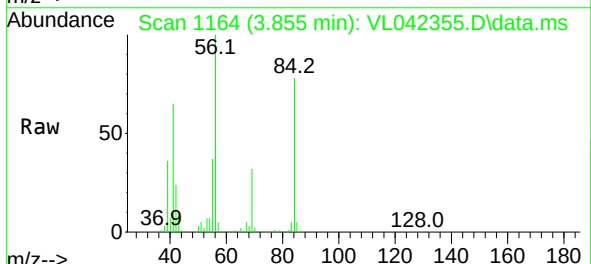
Tgt Ion: 83 Resp: 385680  
Ion Ratio Lower Upper  
83 100  
85 63.4 50.0 75.0

Manual Integrations  
APPROVED

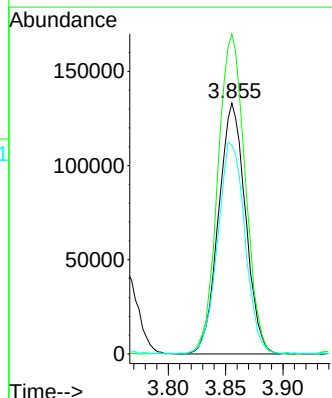
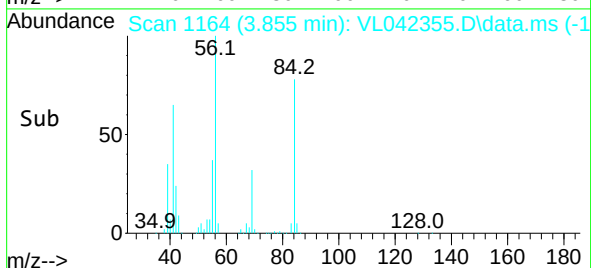
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

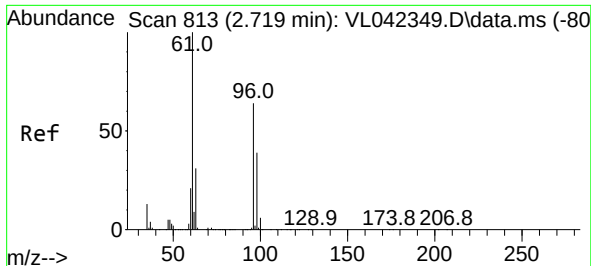


#30  
Cyclohexane  
Concen: 14.238 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion: 84 Resp: 217375  
Ion Ratio Lower Upper  
84 100  
56 129.4 101.0 151.4  
41 85.3 67.4 101.0





#31

cis-1,2-Dichloroethene

Concen: 14.700 ppbv

RT: 2.719 min Scan# 813

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

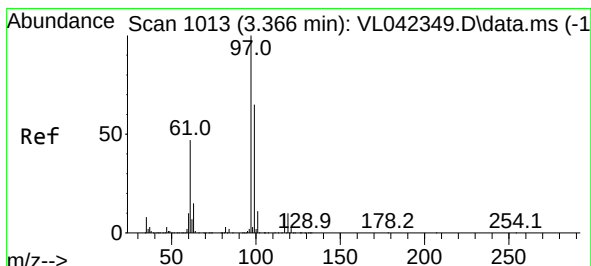
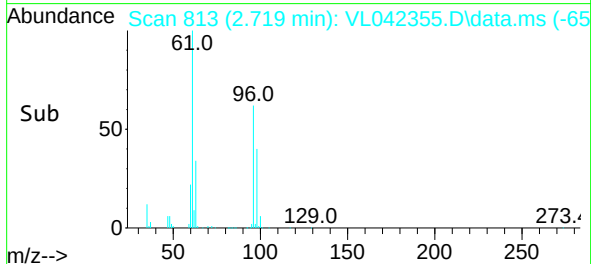
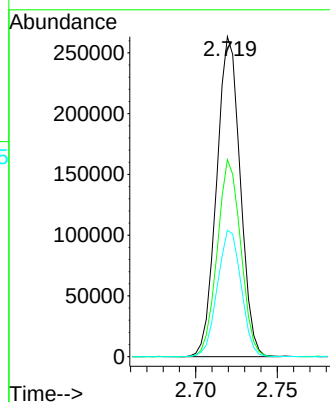
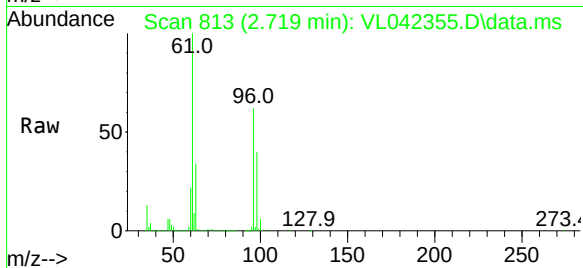
Tgt Ion: 61 Resp: 264972

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 61.6  | 50.8  | 76.2  |
| 98  | 39.5  | 30.9  | 46.3  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#32

1,1,1-Trichloroethane

Concen: 14.357 ppbv

RT: 3.367 min Scan# 1013

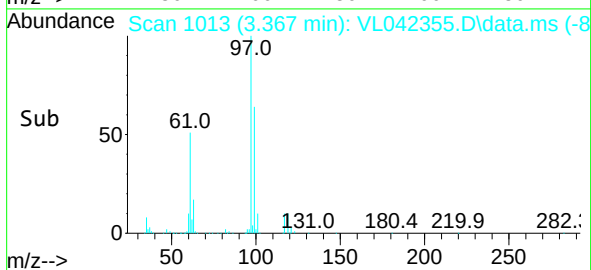
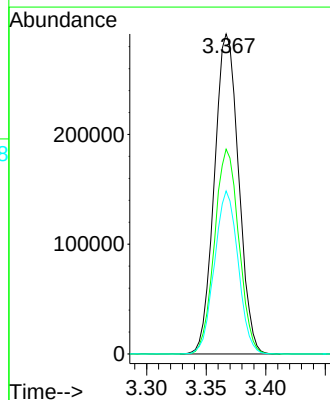
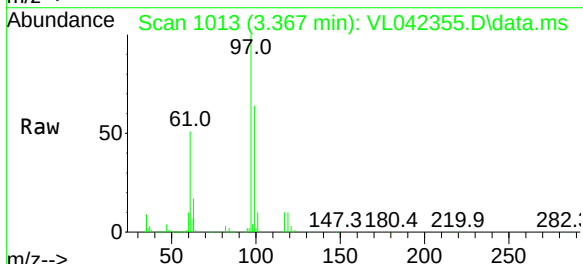
Delta R.T. 0.000 min

Lab File: VL042355.D

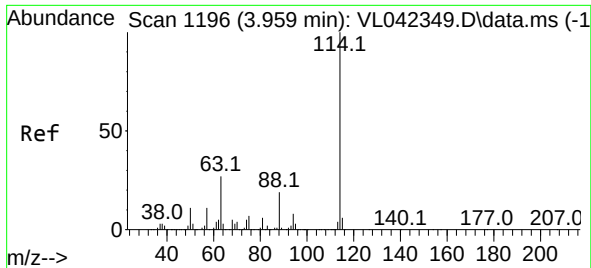
Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.1  | 51.0  | 76.4  |
| 61  | 49.8  | 38.8  | 58.2  |

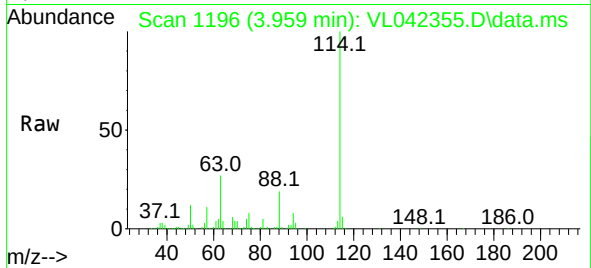






#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

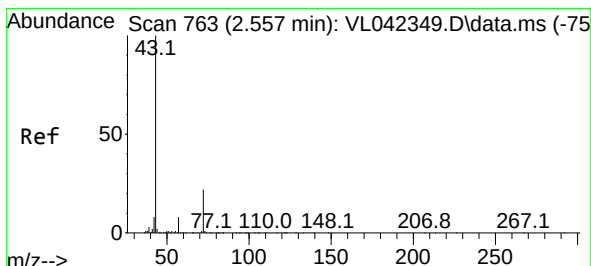
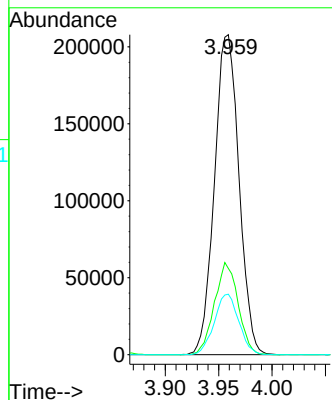
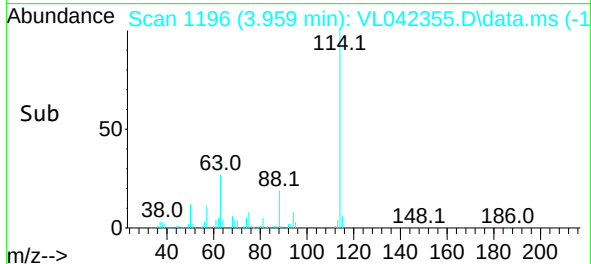
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion:114 Resp: 332080  
Ion Ratio Lower Upper  
114 100  
63 27.7 21.8 32.6  
88 18.9 15.5 23.3

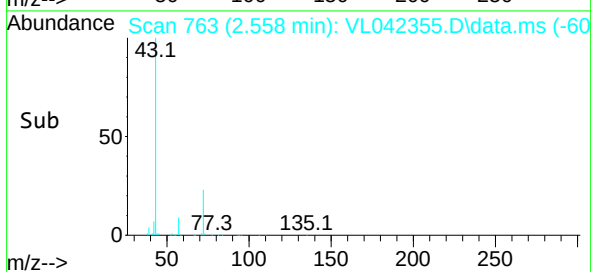
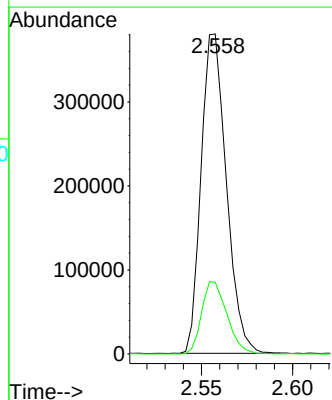
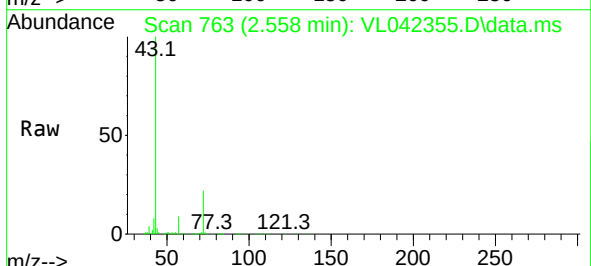
Manual Integrations  
APPROVED

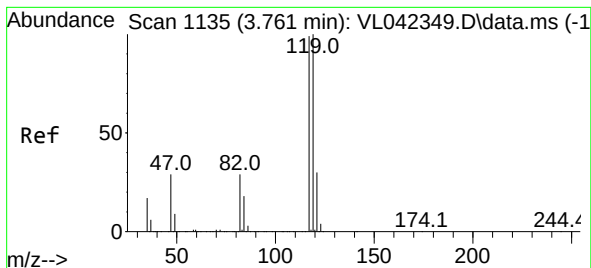
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#34  
2-Butanone  
Concen: 13.986 ppbv  
RT: 2.558 min Scan# 763  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315  
Ion Ratio Lower Upper  
43 100  
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 13.639 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042355.D

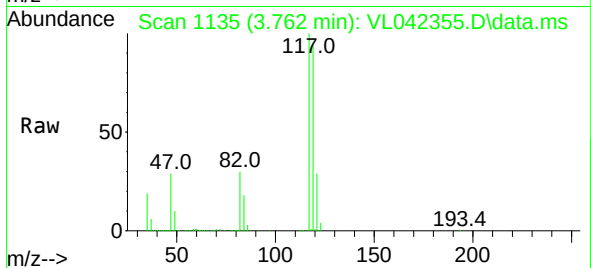
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015



Tgt Ion: 117 Resp: 409910

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

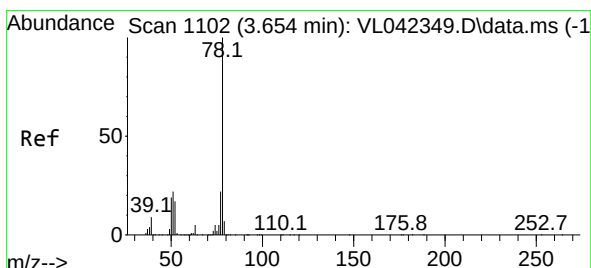
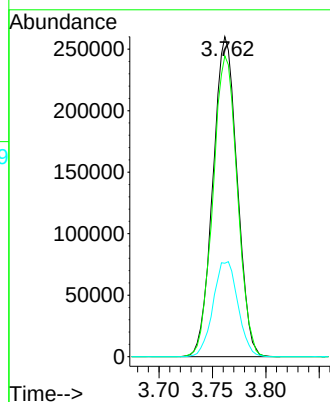
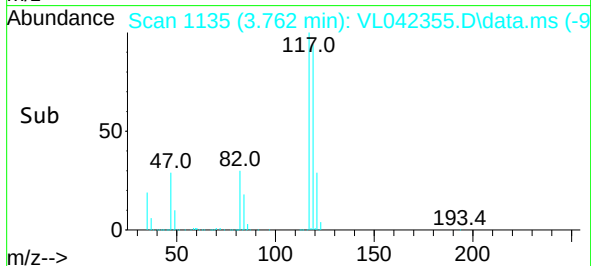
121 29.2 24.2 36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 14.578 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

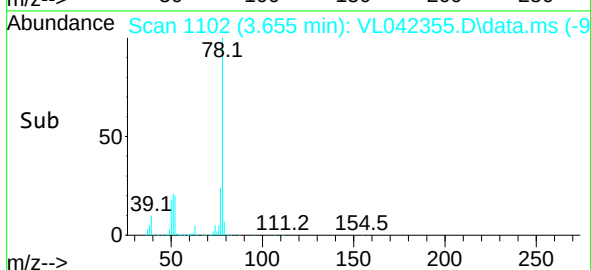
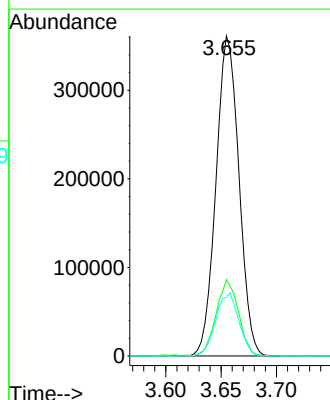
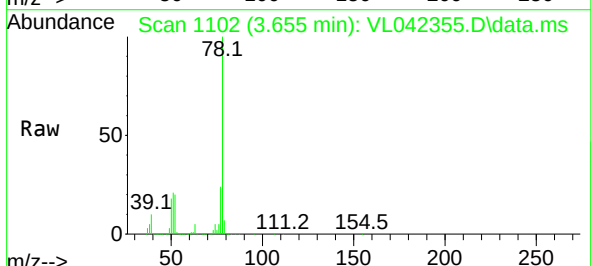
Tgt Ion: 78 Resp: 522156

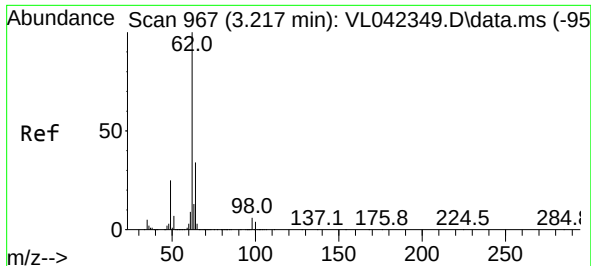
Ion Ratio Lower Upper

78 100

77 23.8 17.4 26.0

50 18.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 14.863 ppbv

RT: 3.218 min Scan# 967

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 31951

Ion Ratio Lower Upper

62 100

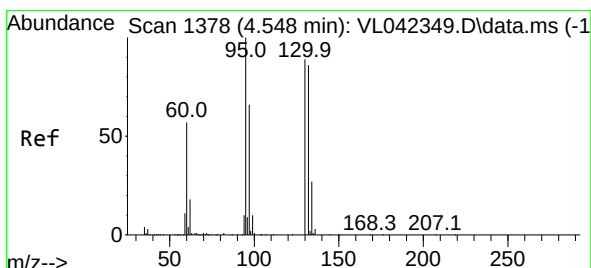
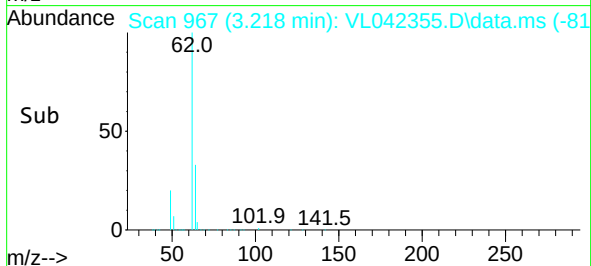
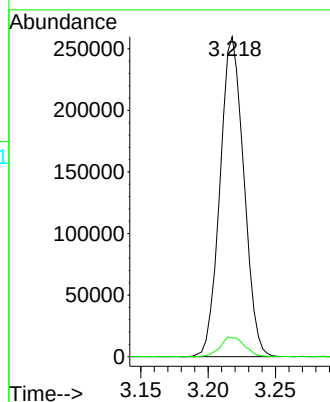
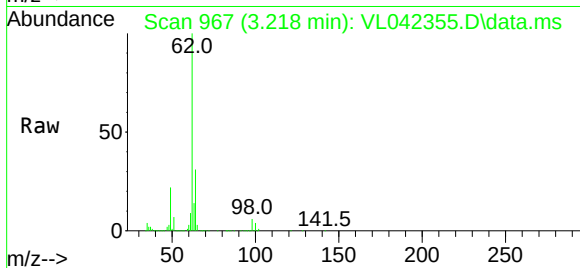
98 6.3 5.1 7.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

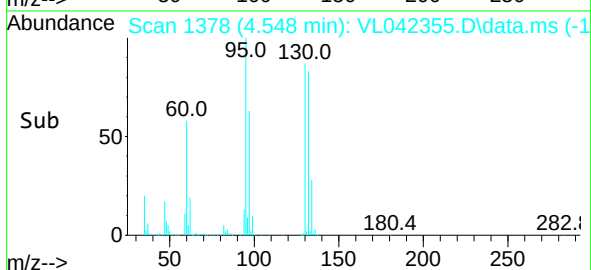
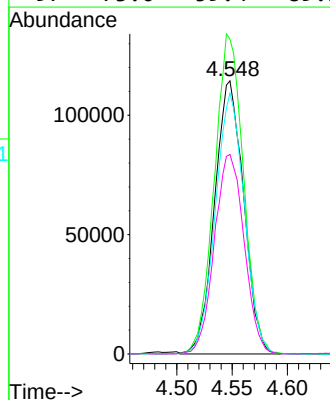
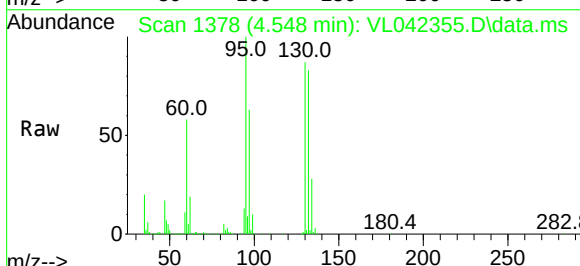
Ion Ratio Lower Upper

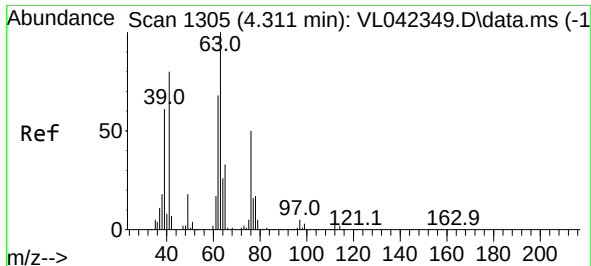
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

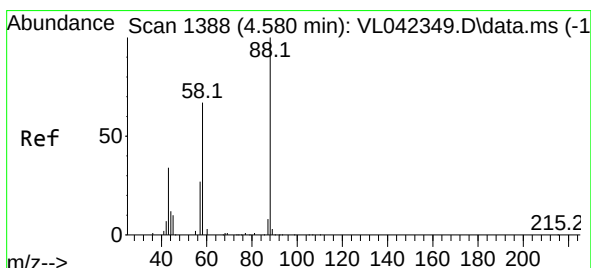
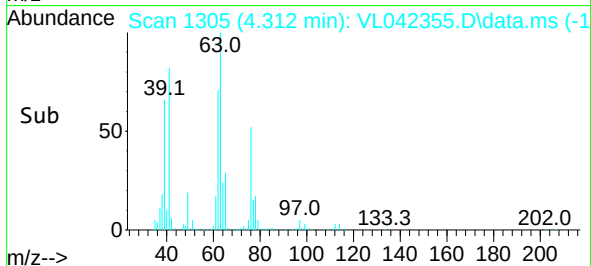
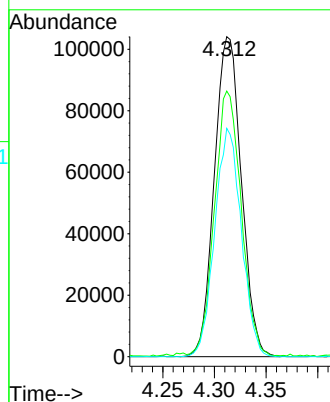
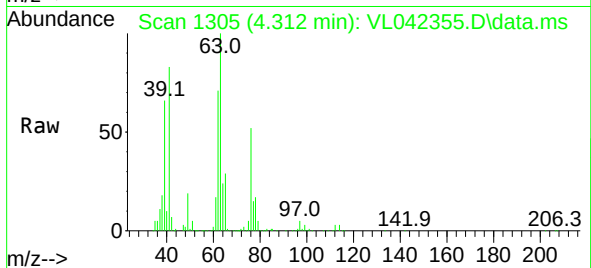
VSTDIC015

|             |                |
|-------------|----------------|
| Tgt Ion: 63 | Resp: 18969    |
| Ion Ratio   | Lower Upper    |
| 63          | 100            |
| 41          | 82.7 64.2 96.2 |
| 62          | 71.4 54.3 81.5 |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 12.733 ppbv

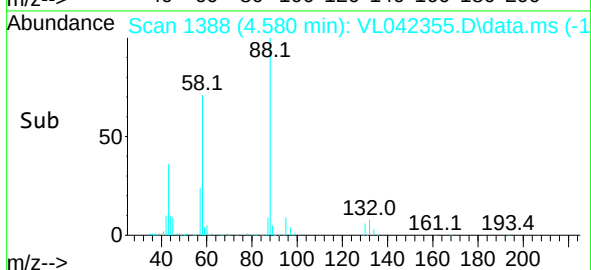
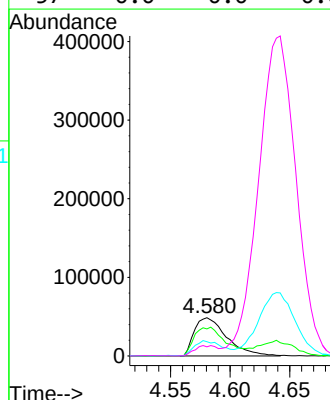
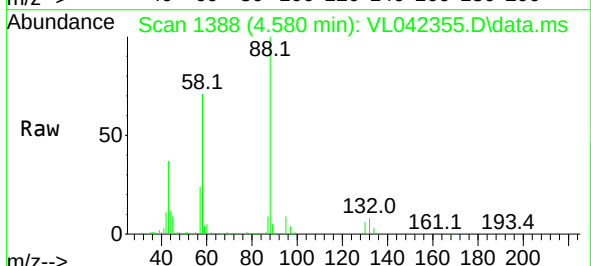
RT: 4.580 min Scan# 1388

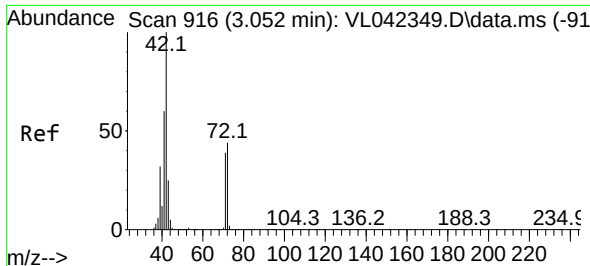
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

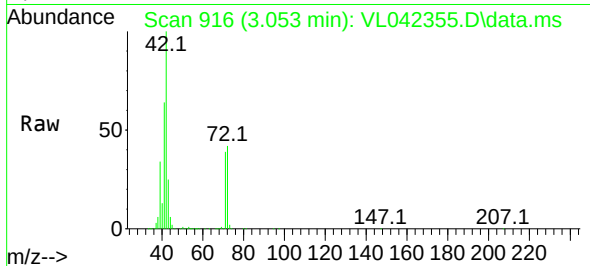
|             |                |
|-------------|----------------|
| Tgt Ion: 88 | Resp: 92114    |
| Ion Ratio   | Lower Upper    |
| 88          | 100            |
| 58          | 75.2 61.4 92.0 |
| 43          | 36.8 23.2 34.8 |
| 57          | 0.0 0.0 0.0    |





#41  
Tetrahydrofuran  
Concen: 14.166 ppbv  
RT: 3.053 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

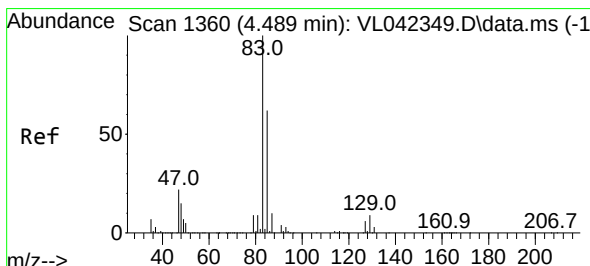
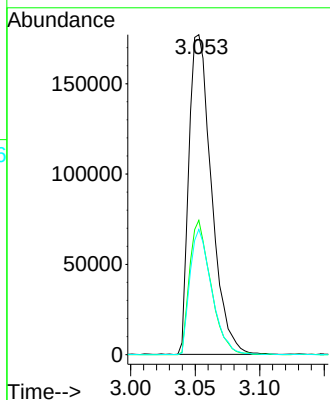
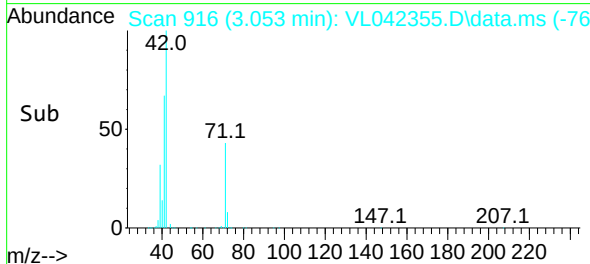
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 42 Resp: 214949  
Ion Ratio Lower Upper  
42 100  
72 39.7 32.3 48.5  
71 37.9 31.4 47.2

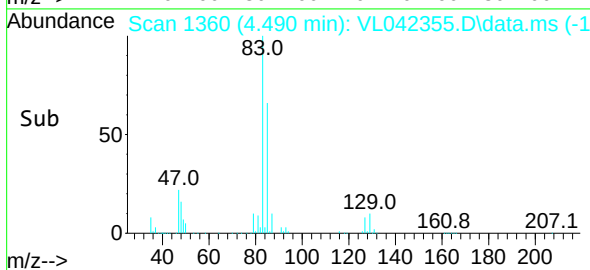
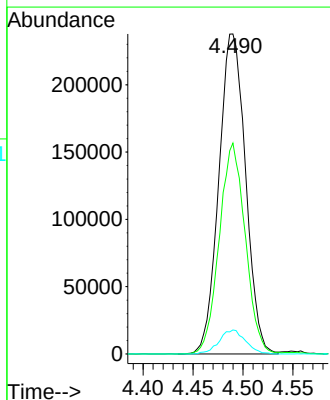
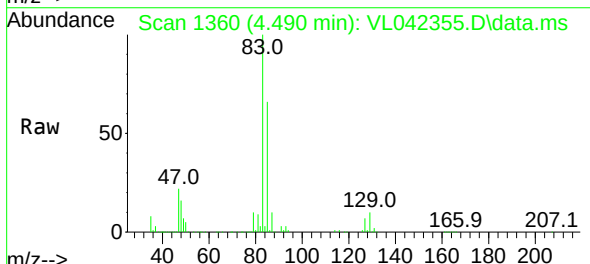
Manual Integrations  
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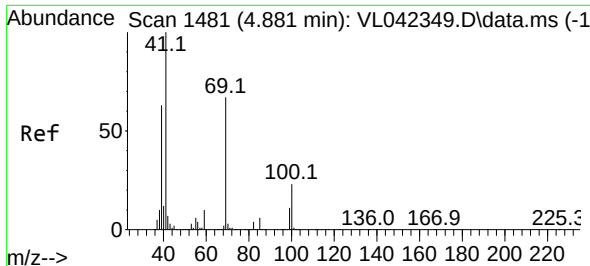
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#42  
Bromodichloromethane  
Concen: 14.798 ppbv  
RT: 4.490 min Scan# 1360  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

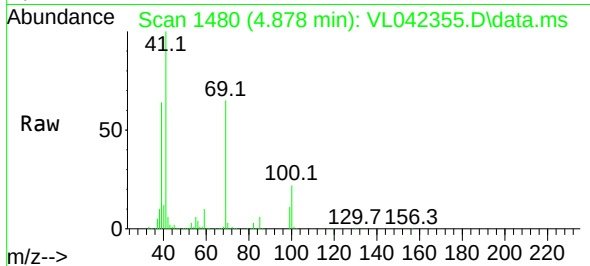
Tgt Ion: 83 Resp: 442735  
Ion Ratio Lower Upper  
83 100  
85 65.9 49.7 74.5  
127 7.5 5.1 7.7





#43  
Methyl Methacrylate  
Concen: 13.670 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

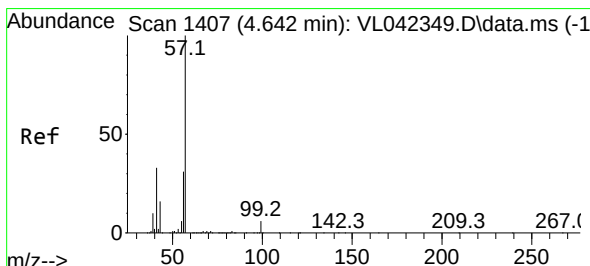
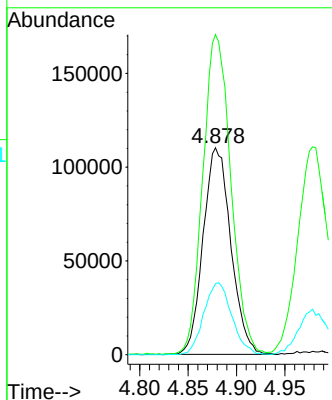
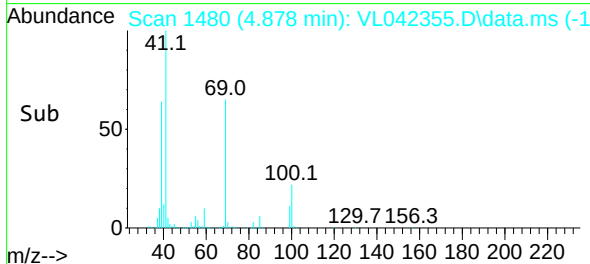
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



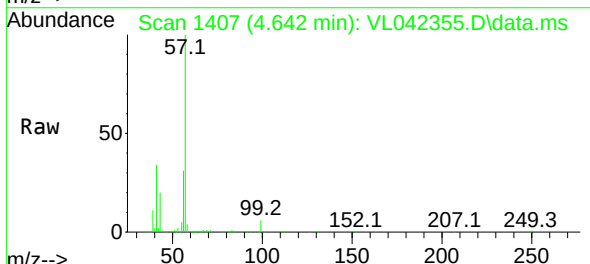
Tgt Ion: 69 Resp: 21975  
Ion Ratio Lower Upper  
69 100  
41 156.6 118.6 177.8  
100 35.2 28.2 42.2

Manual Integrations  
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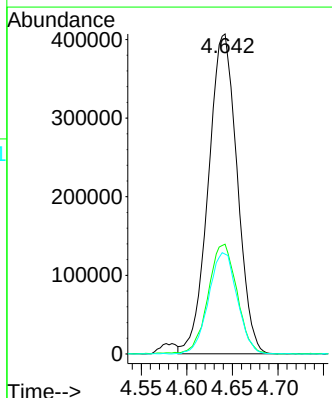
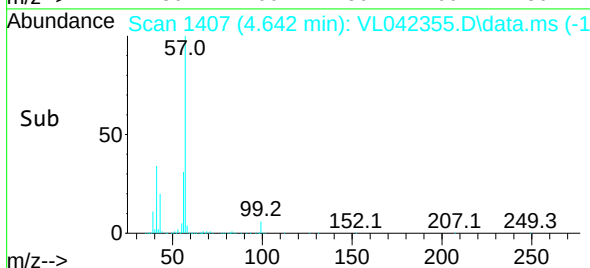
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

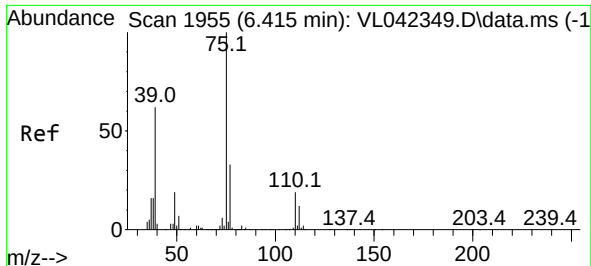


#44  
2,2,4-Trimethylpentane  
Concen: 14.425 ppbv  
RT: 4.642 min Scan# 1407  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



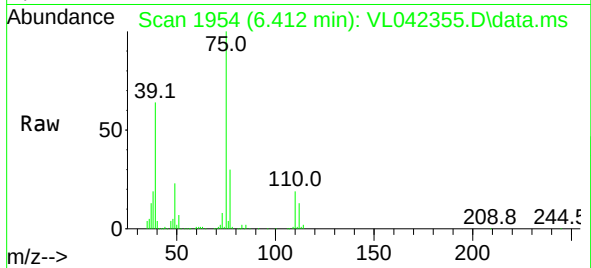
Tgt Ion: 57 Resp: 893529  
Ion Ratio Lower Upper  
57 100  
41 34.4 27.2 40.8  
56 31.6 25.7 38.5





#45  
 t-1,3-Dichloropropene  
 Concen: 14.810 ppbv  
 RT: 6.412 min Scan# 1954  
 Delta R.T. -0.003 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

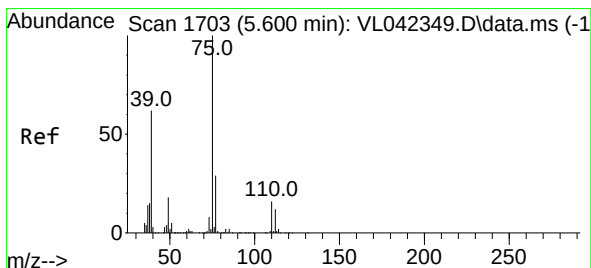
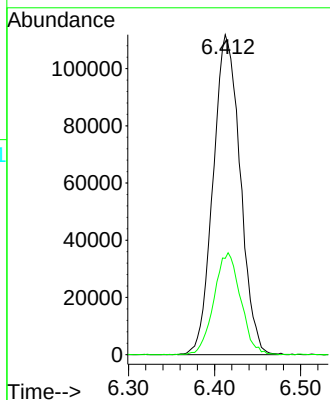
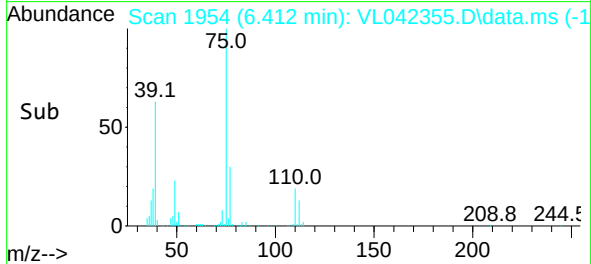
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion: 75 Resp: 244470  
 Ion Ratio Lower Upper  
 75 100  
 77 30.1 27.0 40.6

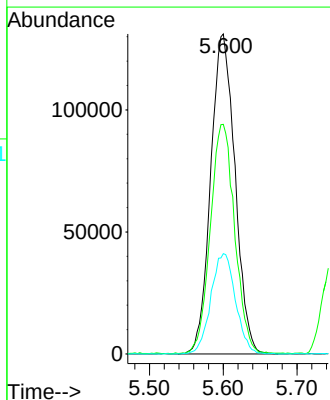
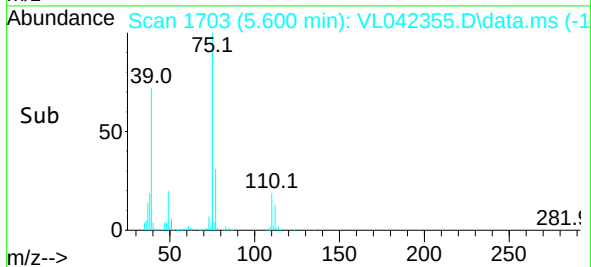
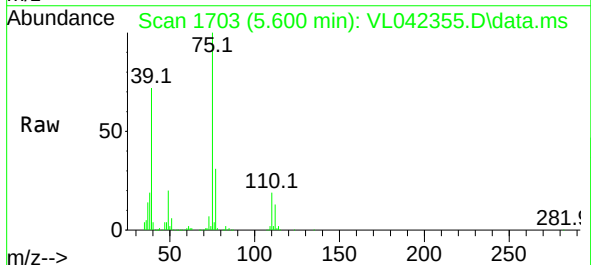
Manual Integrations  
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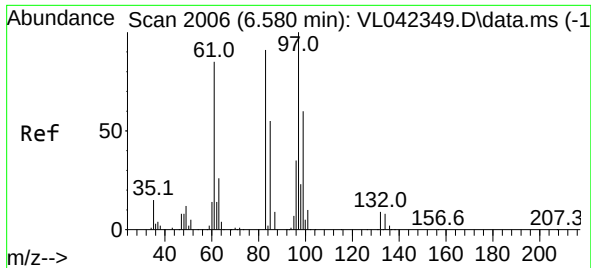
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 14.878 ppbv  
 RT: 5.600 min Scan# 1703  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145  
 Ion Ratio Lower Upper  
 75 100  
 39 71.6 50.0 75.0  
 77 31.3 23.0 34.6





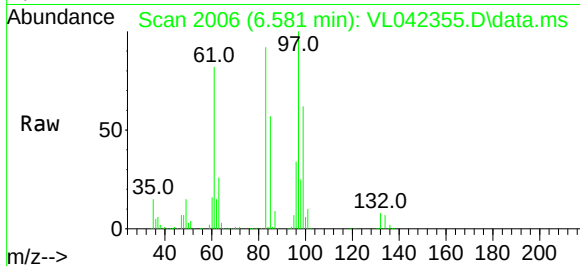
#47  
1,1,2-Trichloroethane  
Concen: 14.615 ppbv  
RT: 6.581 min Scan# 2006  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

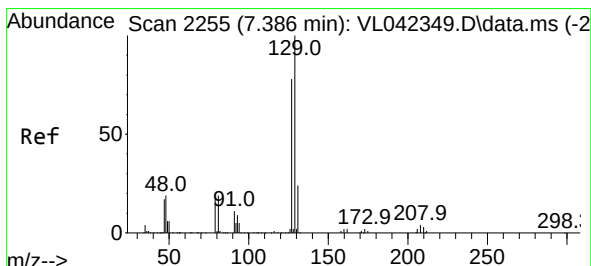
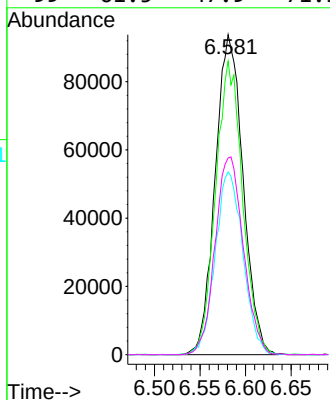
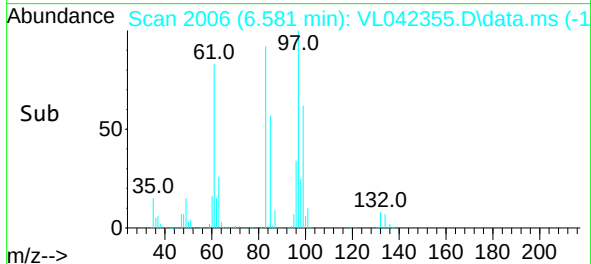


Tgt Ion: 97 Resp: 198874  
Ion Ratio Lower Upper  
97 100  
83 91.7 72.8 109.2  
85 57.0 44.2 66.4  
99 61.5 47.9 71.9

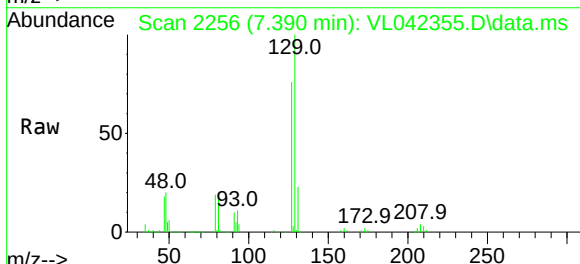
Manual Integrations

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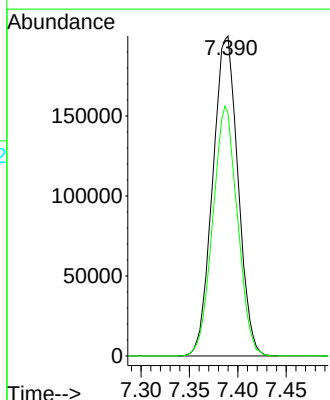
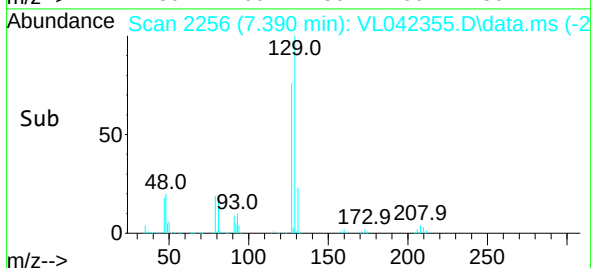
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



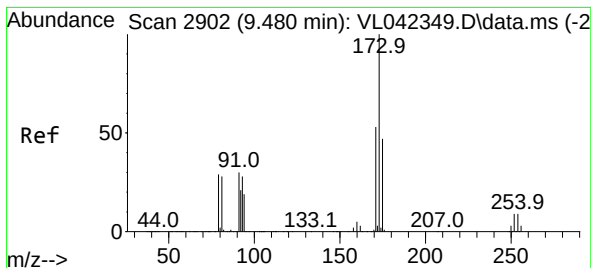
#48  
Dibromochloromethane  
Concen: 15.105 ppbv  
RT: 7.390 min Scan# 2256  
Delta R.T. 0.004 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion:129 Resp: 362887  
Ion Ratio Lower Upper  
129 100  
127 76.3 39.1 117.3







#49

Bromoform

Concen: 14.865 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.004 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 31228

Ion Ratio Lower Upper

173 100

175 47.3 38.2 57.2

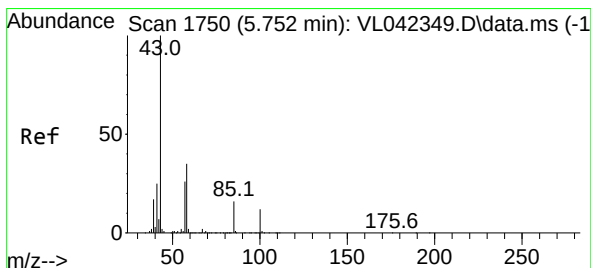
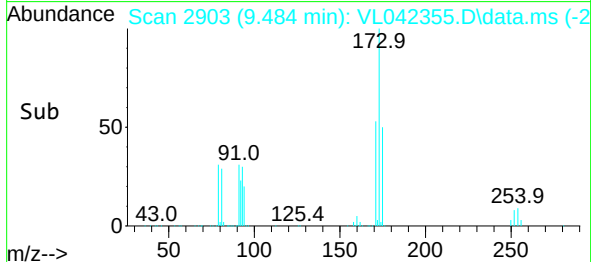
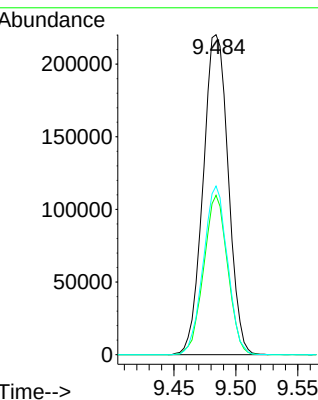
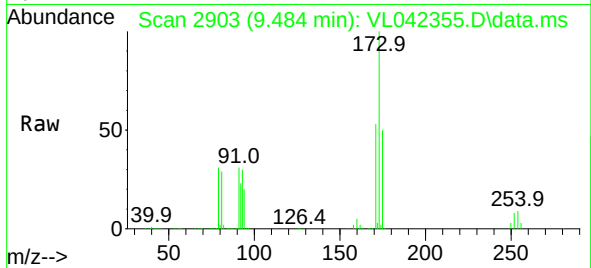
171 50.6 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 12.889 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.003 min

Lab File: VL042355.D

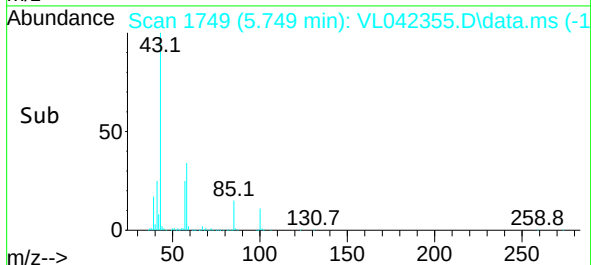
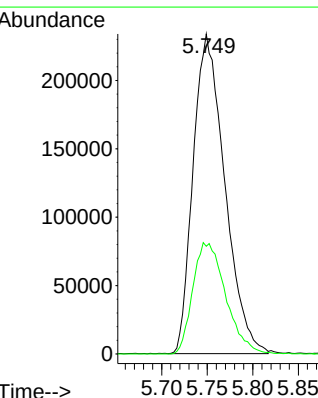
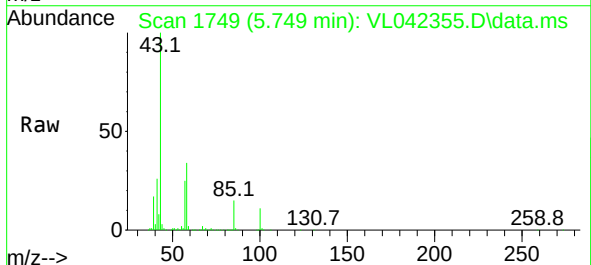
Acq: 17 Apr 2025 12:54

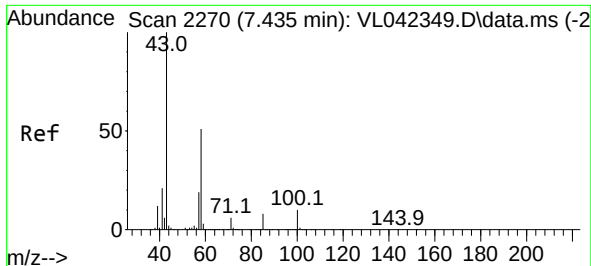
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

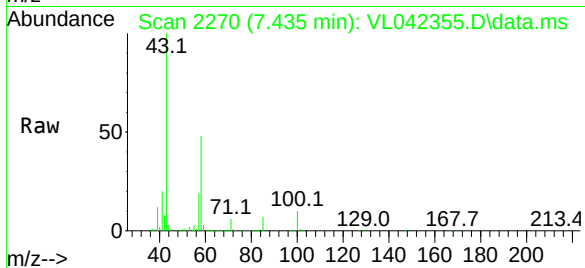
58 36.3 28.6 43.0





#51  
2-Hexanone  
Concen: 11.834 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

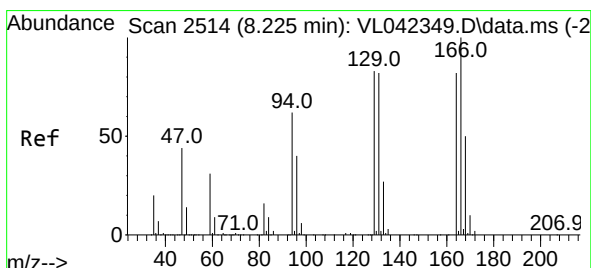
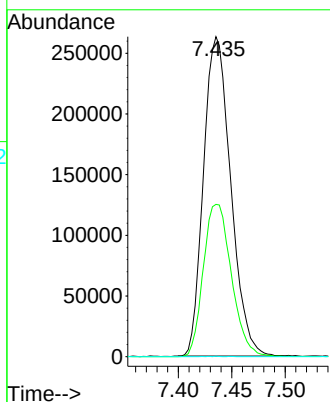
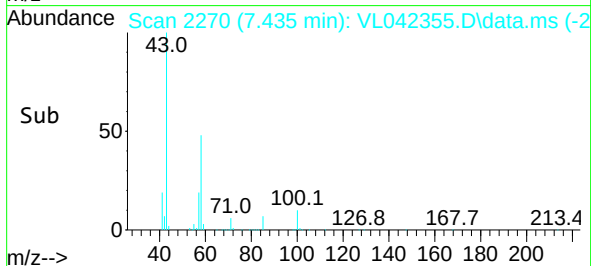
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



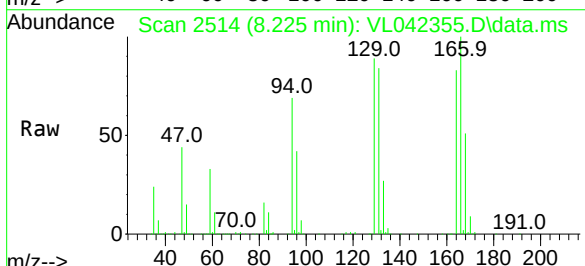
Tgt Ion: 43 Resp: 46700  
Ion Ratio Lower Upper  
43 100  
58 49.2 40.2 60.4  
98 0.0 0.1 0.1

Manual Integrations  
APPROVED

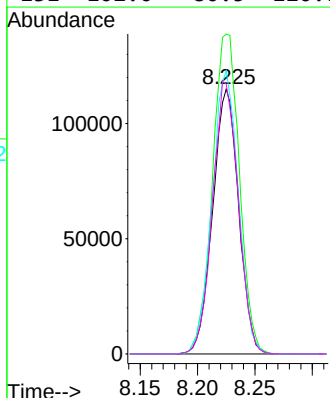
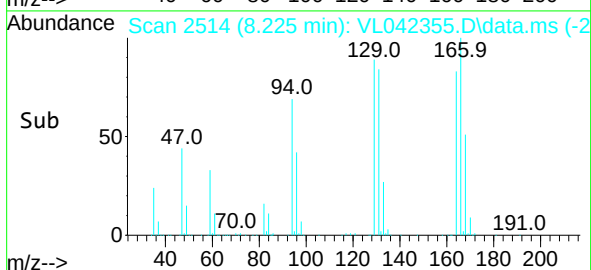
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

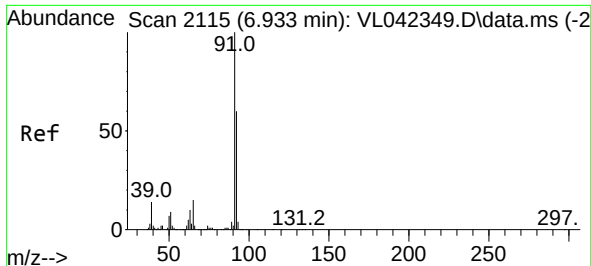


#52  
Tetrachloroethene  
Concen: 13.046 ppbv  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



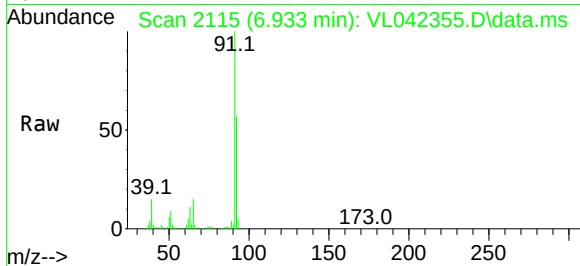
Tgt Ion:164 Resp: 180631  
Ion Ratio Lower Upper  
164 100  
166 120.8 98.2 147.2  
129 107.0 81.8 122.8  
131 102.0 80.5 120.7





#53  
Toluene  
Concen: 14.411 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

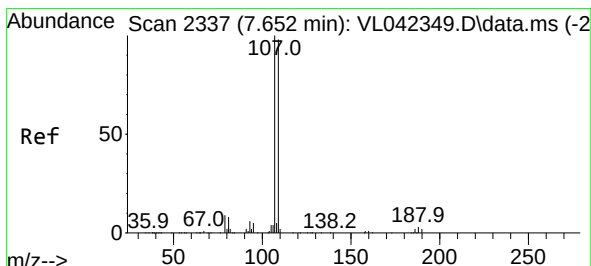
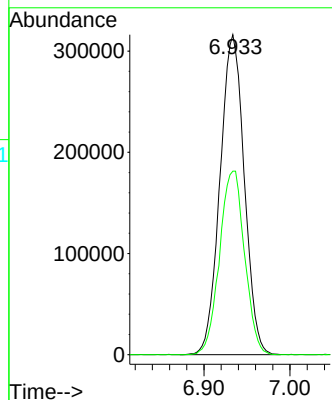
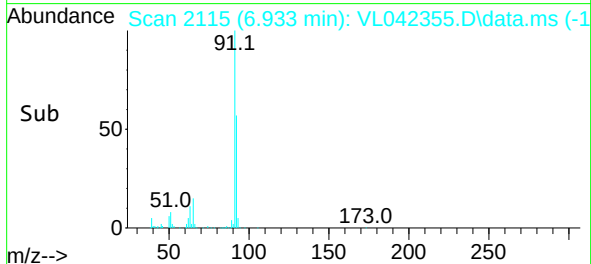
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



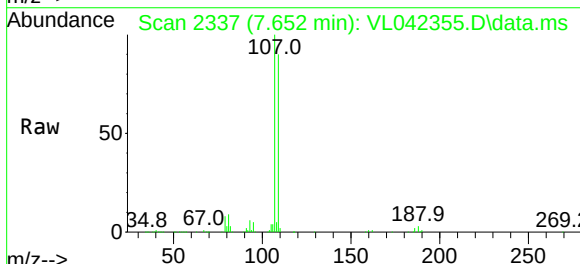
Tgt Ion: 91 Resp: 619420  
Ion Ratio Lower Upper  
91 100  
92 59.3 48.2 72.4

Manual Integrations  
APPROVED

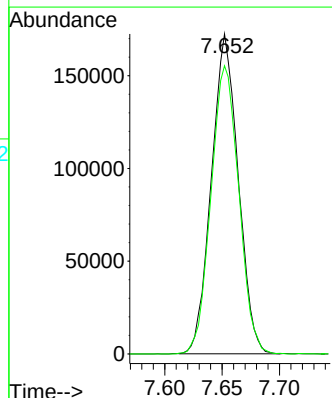
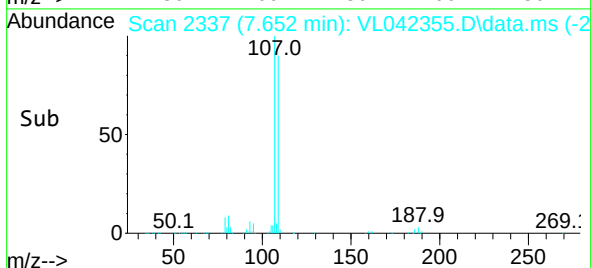
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

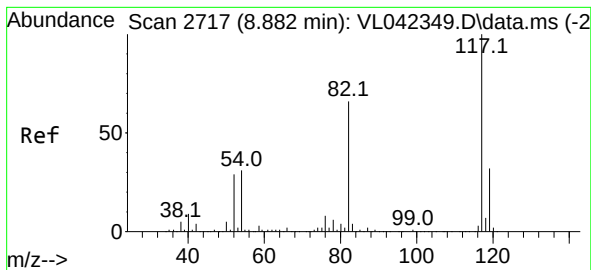


#54  
1,2-Dibromoethane  
Concen: 14.442 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion:107 Resp: 280071  
Ion Ratio Lower Upper  
107 100  
109 89.9 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

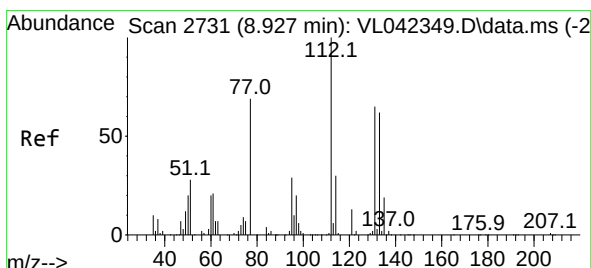
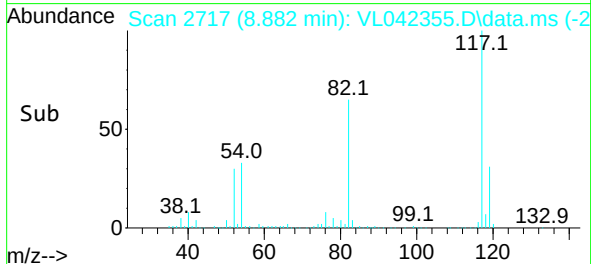
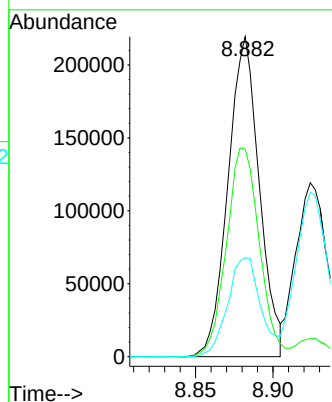
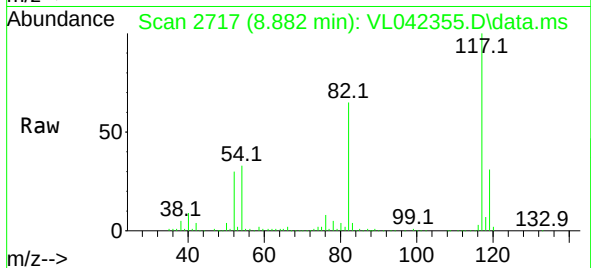
VSTDICC015

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 30846 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 74.2  | 57.8  | 86.6  |
| 119       | 31.4  | 25.2  | 37.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 14.389 ppbv

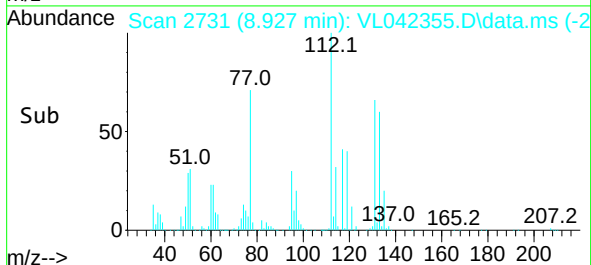
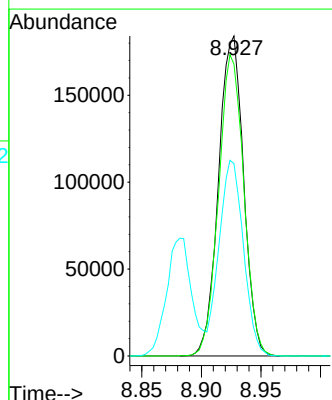
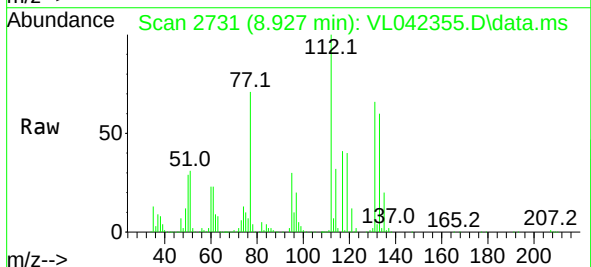
RT: 8.927 min Scan# 2731

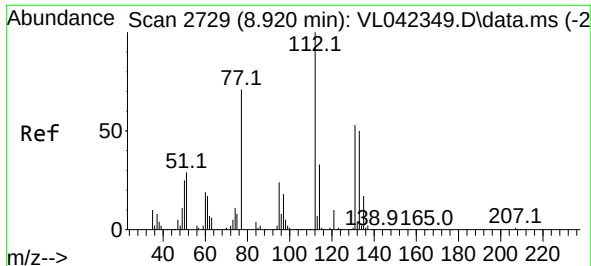
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

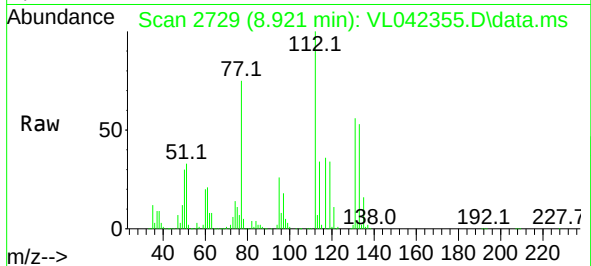
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 131   | Resp: | 268626 |
| Ion Ratio | Lower | Upper |        |
| 131       | 100   |       |        |
| 133       | 94.6  | 78.3  | 117.5  |
| 119       | 59.4  | 48.7  | 73.1   |





#57  
Chlorobenzene  
Concen: 14.151 ppbv  
RT: 8.921 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

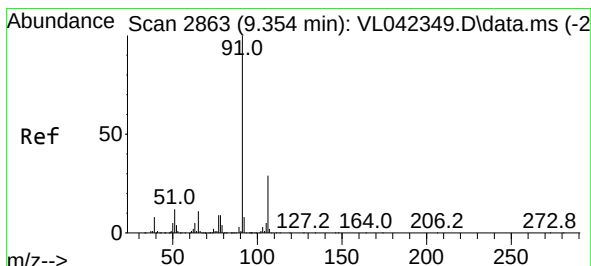
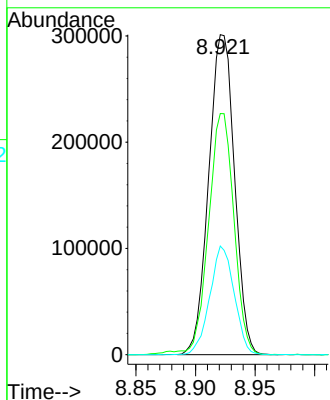
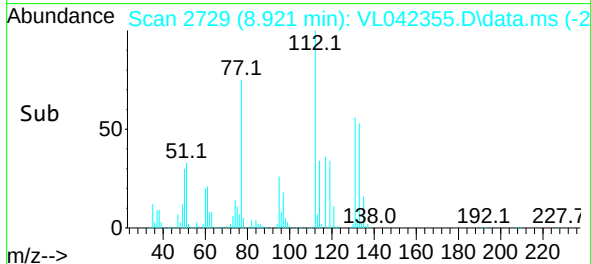
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



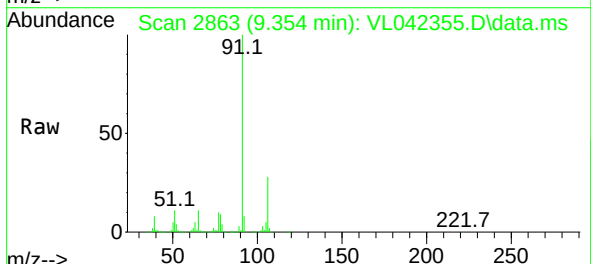
Tgt Ion: 112 Resp: 45401  
Ion Ratio Lower Upper  
112 100  
77 75.3 57.8 86.6  
114 33.9 29.3 35.9

Manual Integrations  
APPROVED

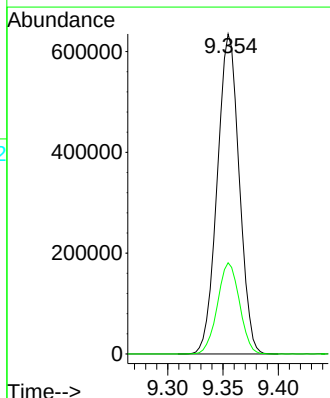
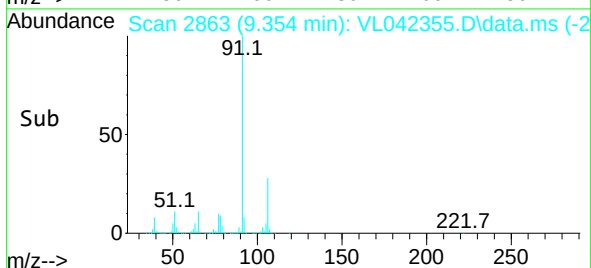
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

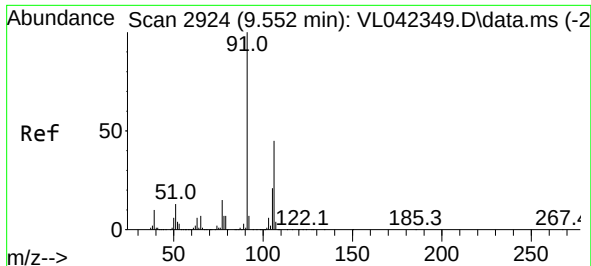


#58  
Ethyl Benzene  
Concen: 14.308 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion: 91 Resp: 874424  
Ion Ratio Lower Upper  
91 100  
106 28.5 23.0 34.4





#59

m/p-Xylene

Concen: 28.109 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 138808

Ion Ratio Lower Upper

91 100

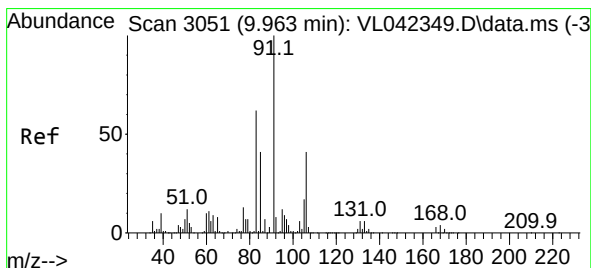
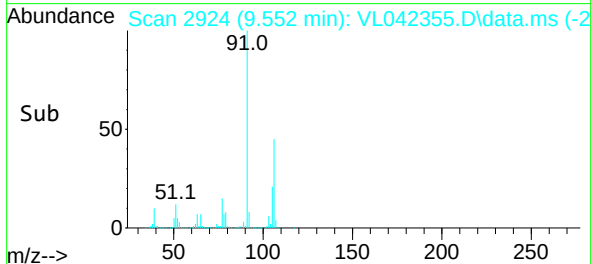
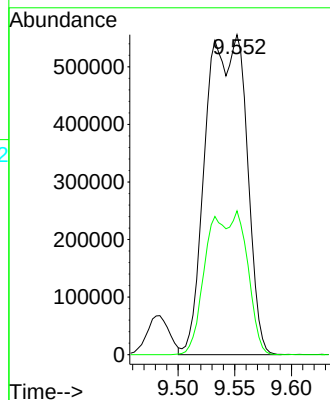
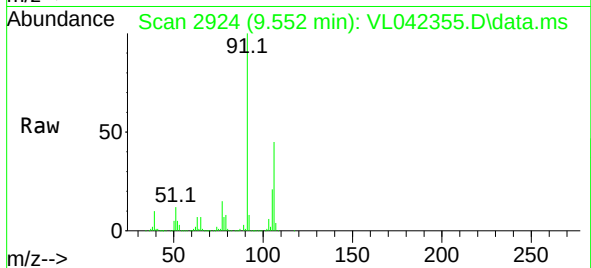
106 44.5 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 13.902 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042355.D

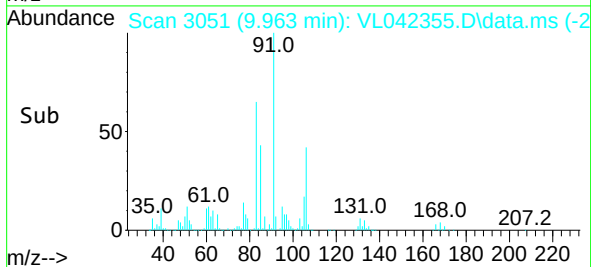
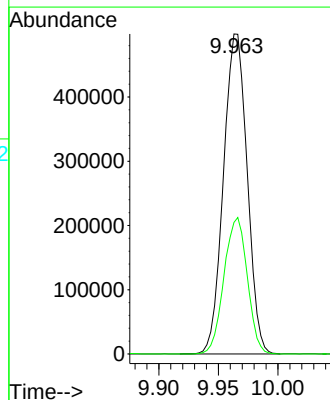
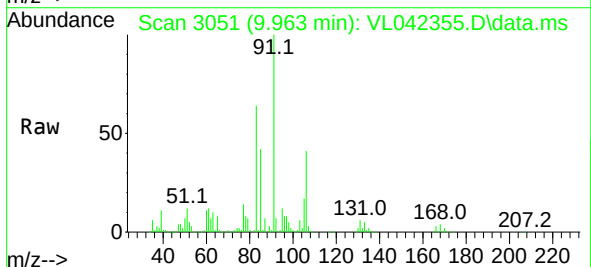
Acq: 17 Apr 2025 12:54

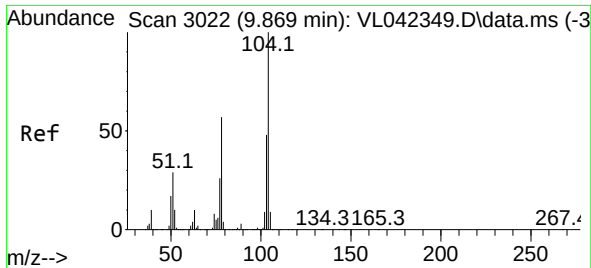
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4





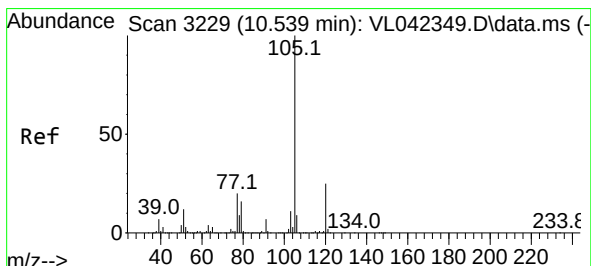
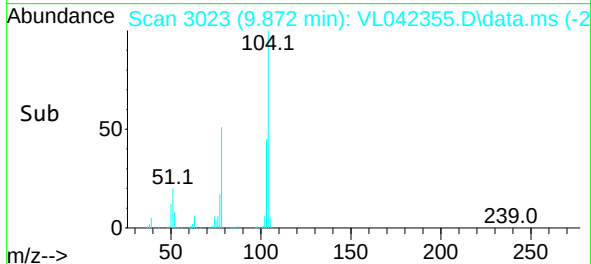
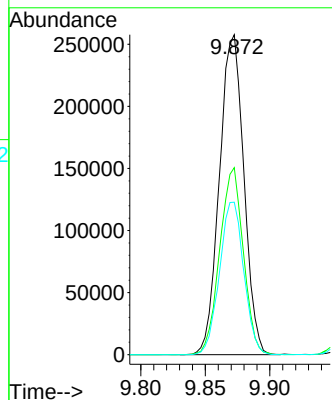
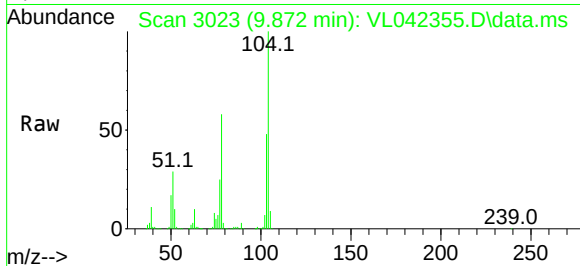
#61  
Styrene  
Concen: 14.347 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.004 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:104 Resp: 339508  
Ion Ratio Lower Upper  
104 100  
78 56.4 44.6 66.8  
103 47.3 37.4 56.0

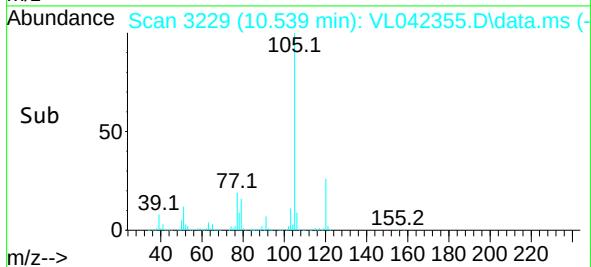
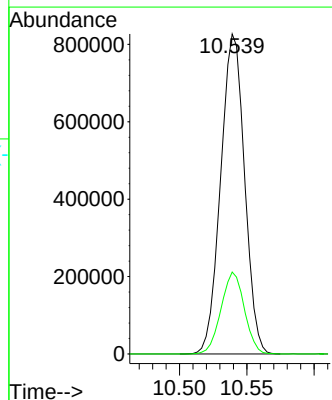
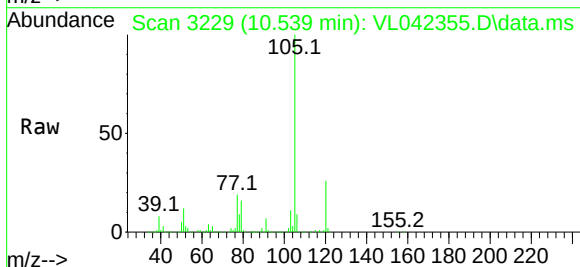
Manual Integrations  
APPROVED

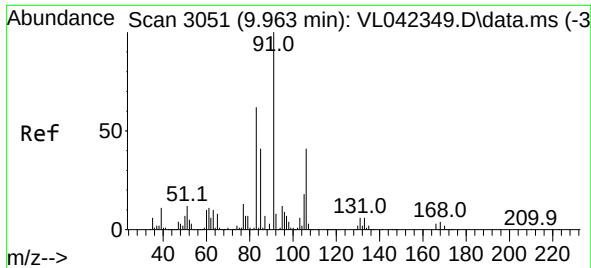
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#62  
Isopropylbenzene  
Concen: 13.999 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

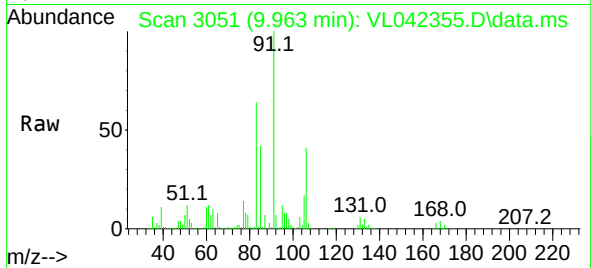
Tgt Ion:105 Resp: 1018968  
Ion Ratio Lower Upper  
105 100  
120 25.0 19.8 29.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.816 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

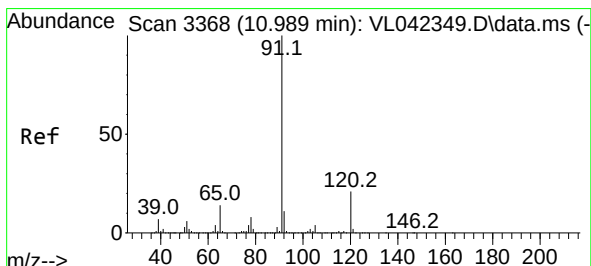
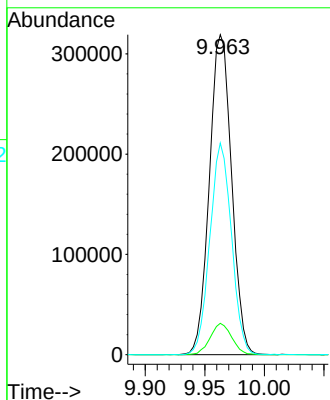
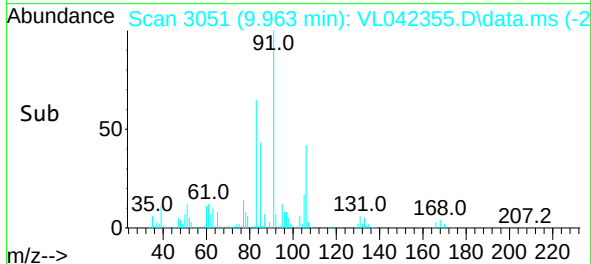
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



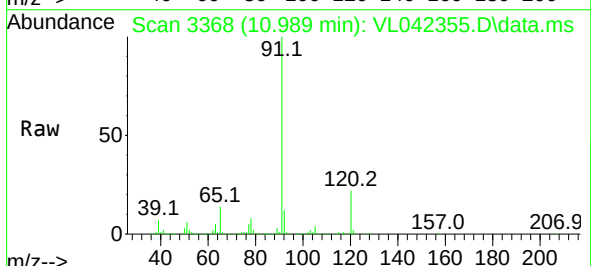
Tgt Ion: 83 Resp: 412898  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.5 13.7  
85 64.5 32.4 97.0

Manual Integrations  
APPROVED

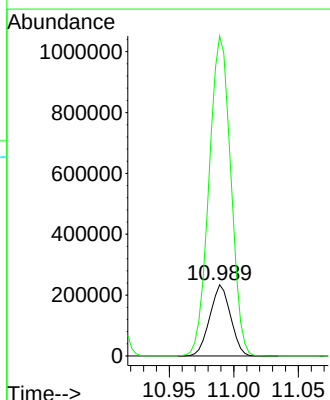
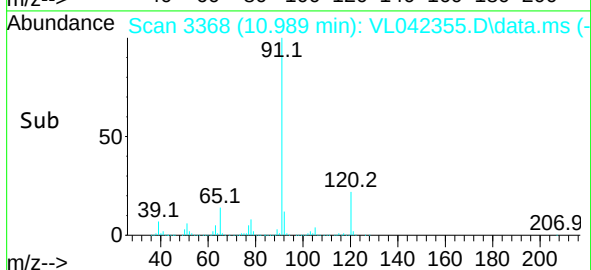
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



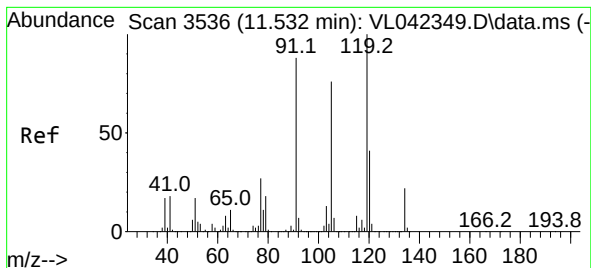
#64  
n-propylbenzene  
Concen: 14.255 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion:120 Resp: 260812  
Ion Ratio Lower Upper  
120 100  
91 473.2 392.4 588.6

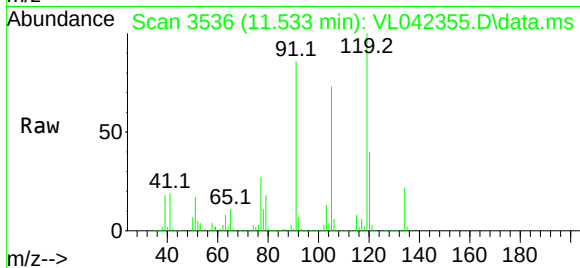






#65  
tert-Butylbenzene  
Concen: 13.449 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

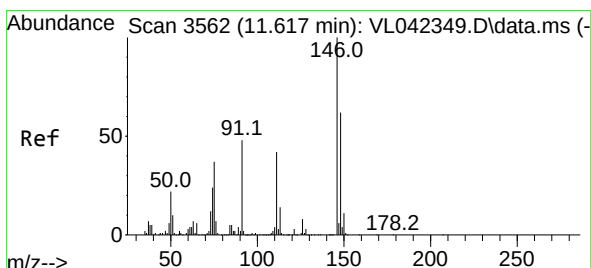
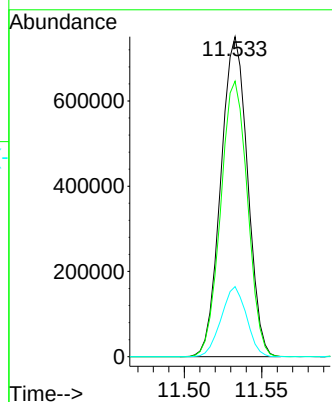
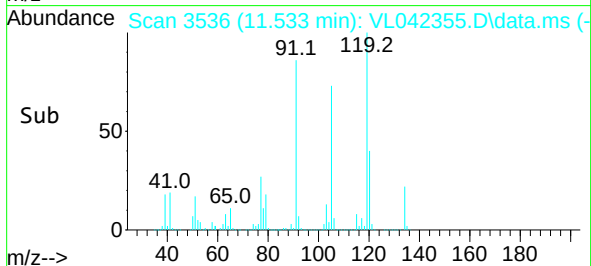
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015



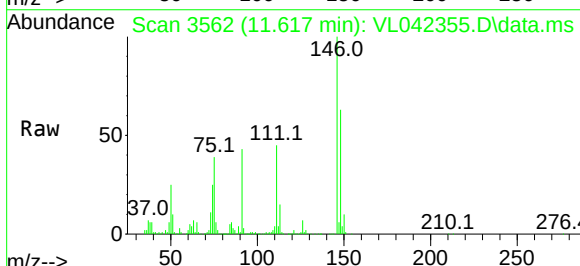
Tgt Ion: 119 Resp: 899720  
Ion Ratio Lower Upper  
119 100  
91 86.2 74.6 111.8  
134 20.8 18.8 28.2

Manual Integrations  
APPROVED

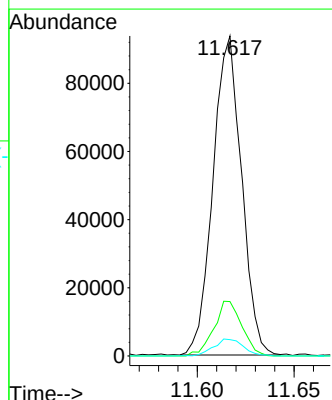
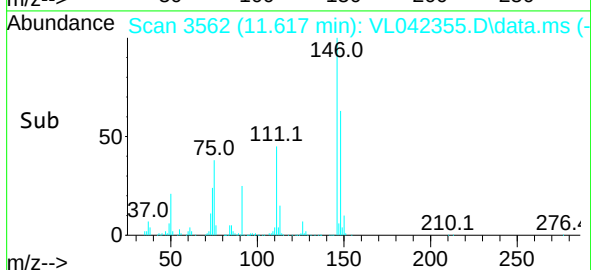
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

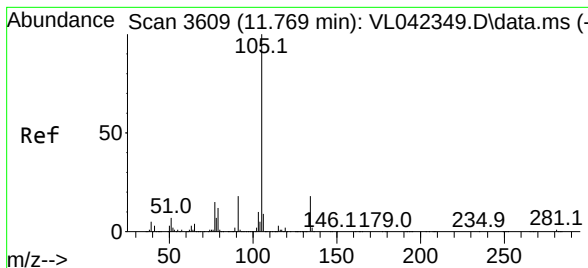


#66  
Benzyl Chloride  
Concen: 13.061 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



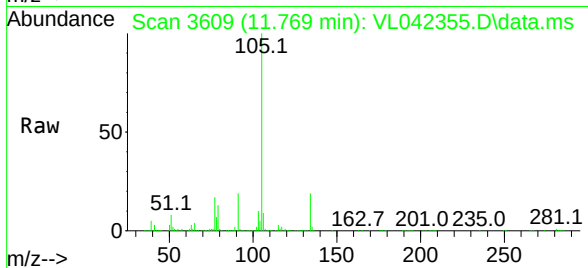
Tgt Ion: 91 Resp: 96016  
Ion Ratio Lower Upper  
91 100  
126 16.8 11.8 17.6  
128 5.5 4.5 6.7





#67  
 sec-Butylbenzene  
 Concen: 13.468 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

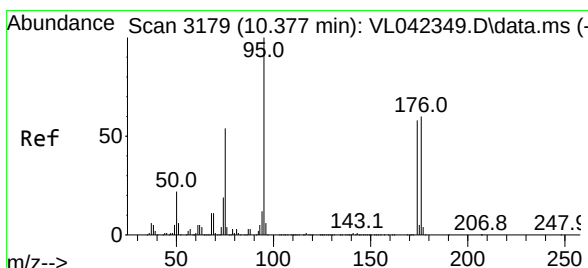
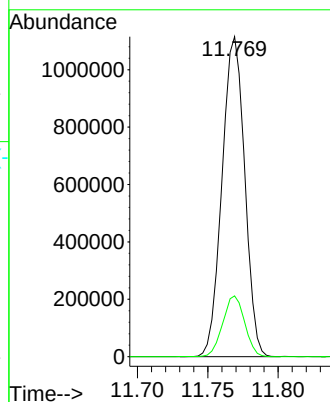
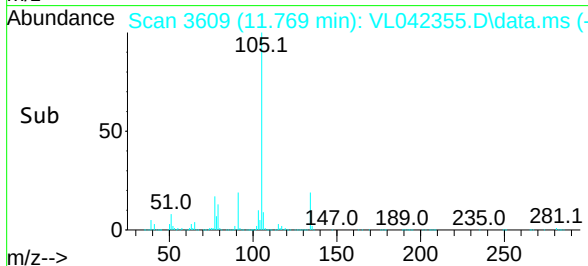
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion:105 Resp: 125326  
 Ion Ratio Lower Upper  
 105 100  
 134 18.4 14.6 21.8

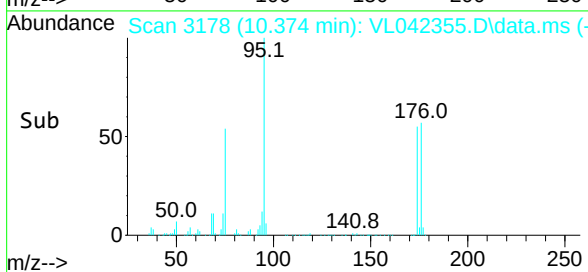
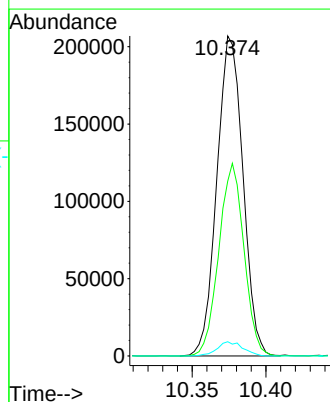
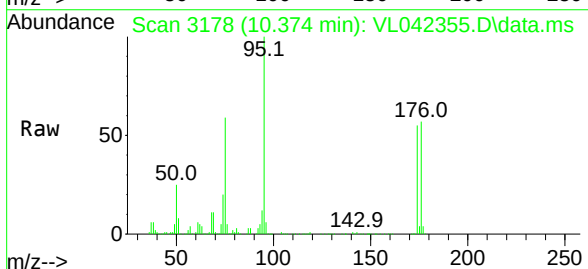
### Manual Integrations APPROVED

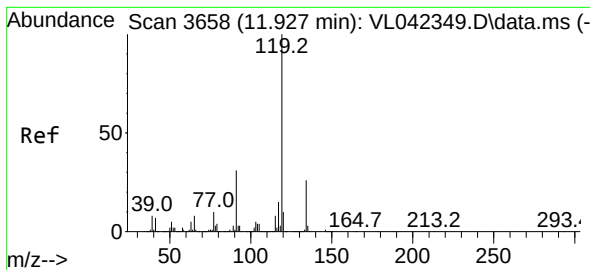
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.038 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. -0.003 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

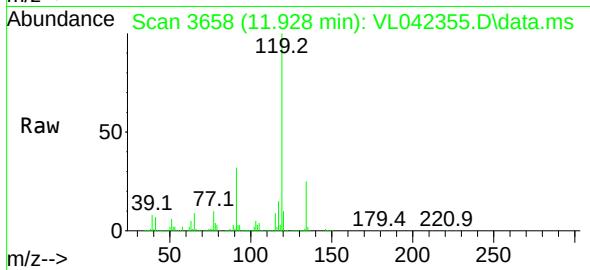
Tgt Ion: 95 Resp: 254437  
 Ion Ratio Lower Upper  
 95 100  
 174 58.1 48.5 72.7  
 175 4.4 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 13.382 ppbv  
RT: 11.928 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

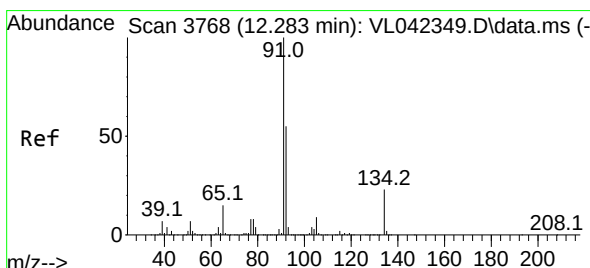
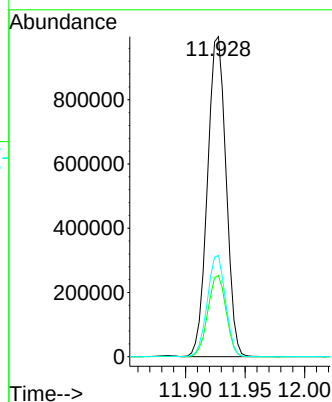
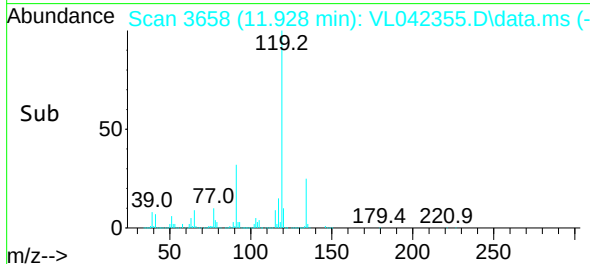
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



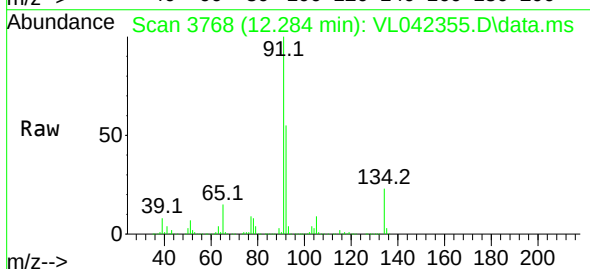
Tgt Ion:119 Resp: 1081850  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.0 30.0  
91 31.1 24.4 36.6

Manual Integrations  
APPROVED

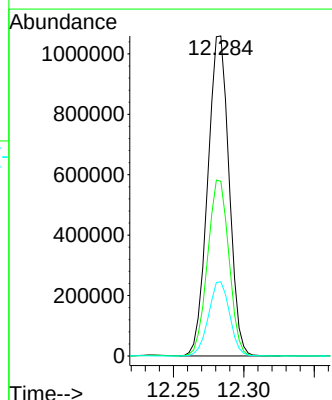
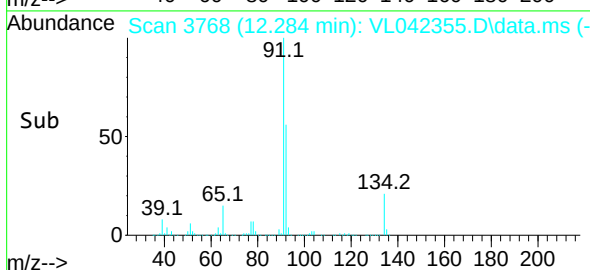
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

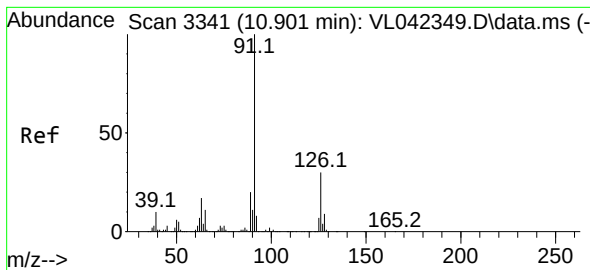


#70  
n-Butylbenzene  
Concen: 13.266 ppbv  
RT: 12.284 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion: 91 Resp: 1117042  
Ion Ratio Lower Upper  
91 100  
92 55.3 44.2 66.4  
134 23.0 18.2 27.4





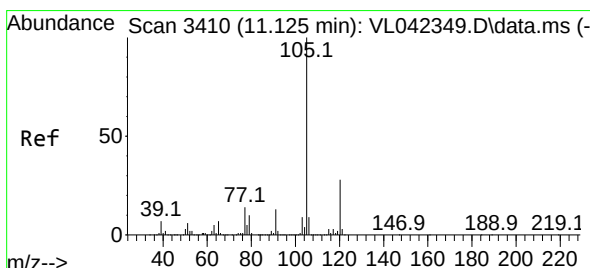
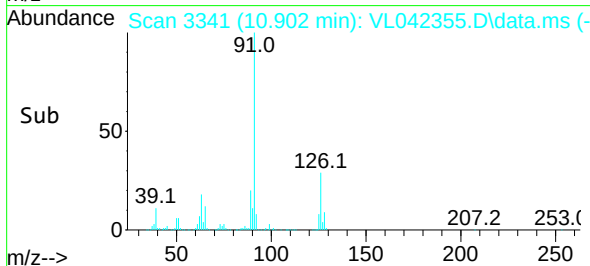
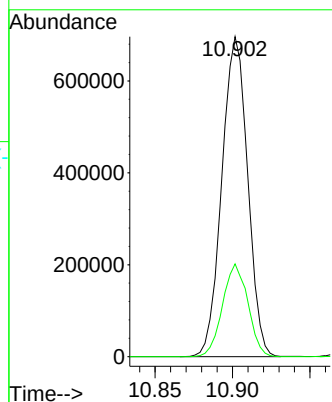
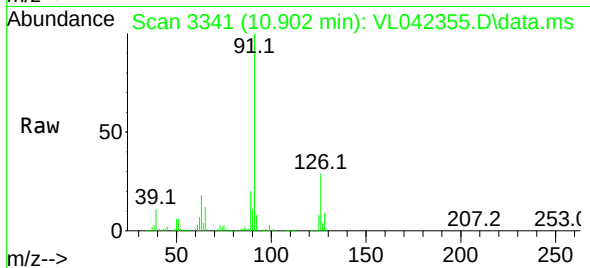
#71  
2-Chlorotoluene  
Concen: 14.131 ppbv  
RT: 10.902 min Scan# 3341  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 91 Resp: 806728  
Ion Ratio Lower Upper  
91 100  
126 28.4 11.4 45.4

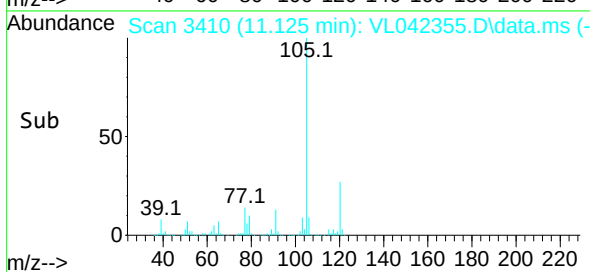
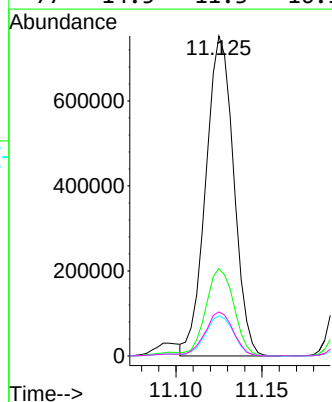
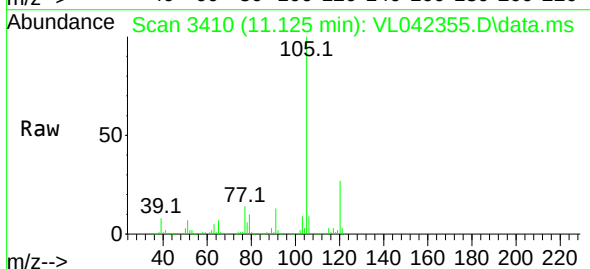
Manual Integrations  
APPROVED

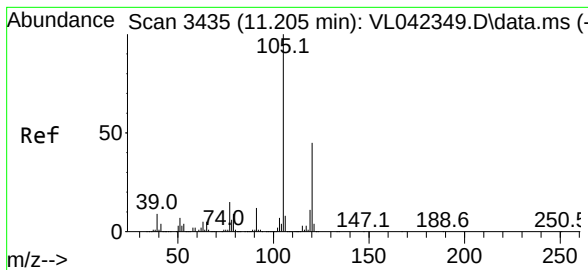
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#72  
4-Ethyltoluene  
Concen: 13.992 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

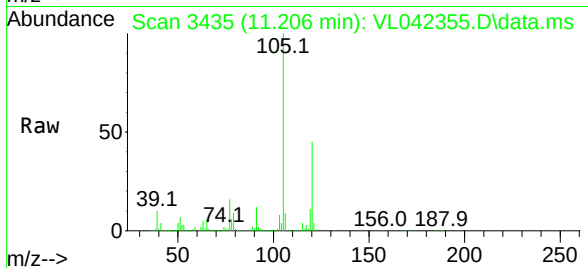
Tgt Ion:105 Resp: 848077  
Ion Ratio Lower Upper  
105 100  
120 28.7 23.2 34.8  
91 13.5 10.4 15.6  
77 14.5 11.3 16.9





#73  
1,3,5-Trimethylbenzene  
Concen: 13.578 ppbv  
RT: 11.206 min Scan# 3435  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

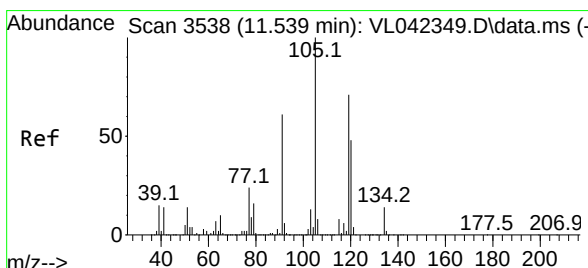
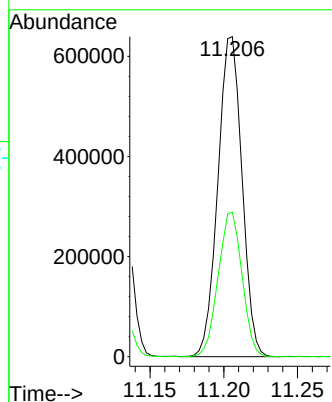
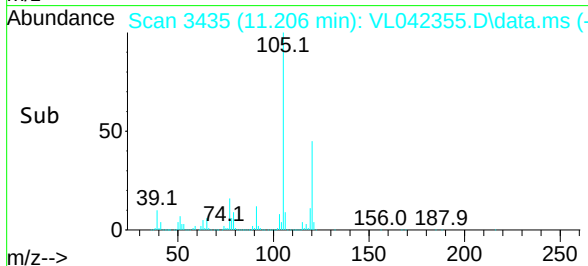
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



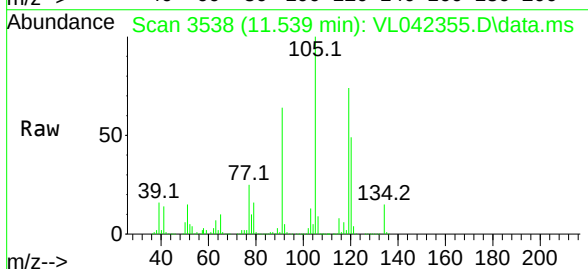
Tgt Ion:105 Resp: 726558  
Ion Ratio Lower Upper  
105 100  
120 45.1 35.6 53.4

Manual Integrations  
APPROVED

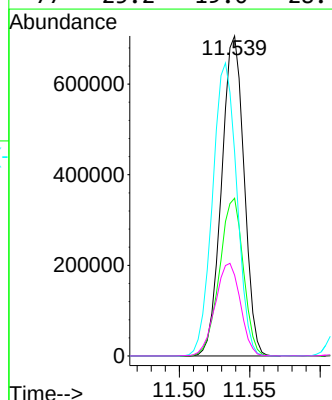
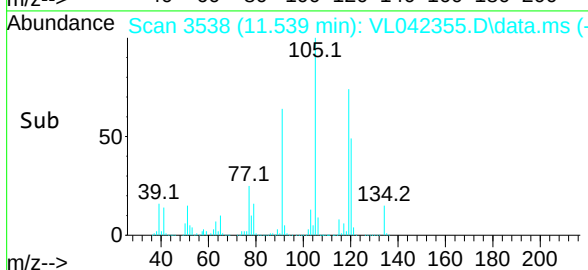
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

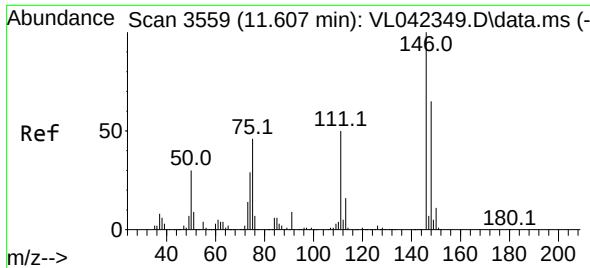


#74  
1,2,4-Trimethylbenzene  
Concen: 12.572 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion:105 Resp: 785772  
Ion Ratio Lower Upper  
105 100  
120 49.3 38.1 57.1  
91 63.7 48.8 73.2  
77 25.2 19.0 28.4





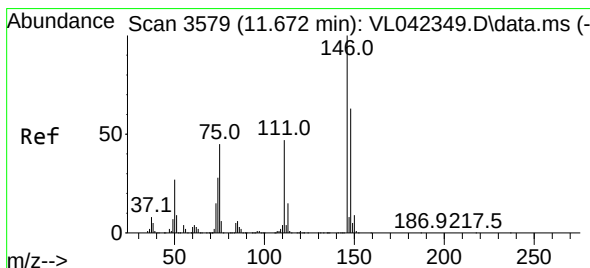
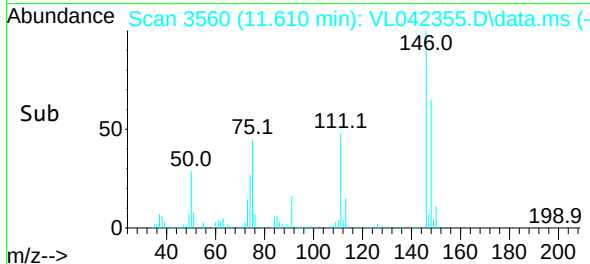
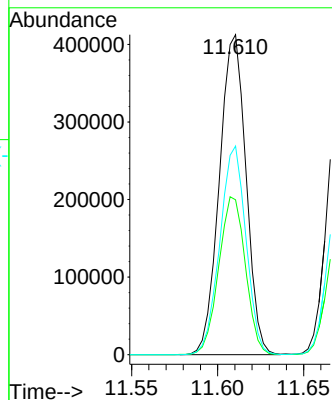
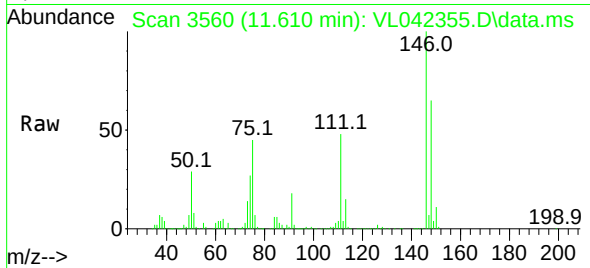
#75  
1,3-Dichlorobenzene  
Concen: 13.670 ppbv  
RT: 11.610 min Scan# 3559  
Delta R.T. 0.004 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion:146 Resp: 444086  
Ion Ratio Lower Upper  
146 100  
111 49.6 24.3 72.8  
148 63.9 31.6 94.8

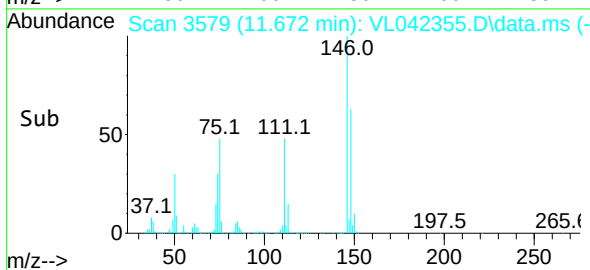
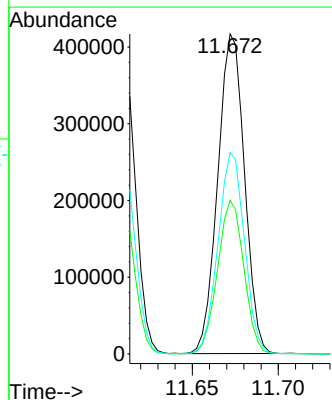
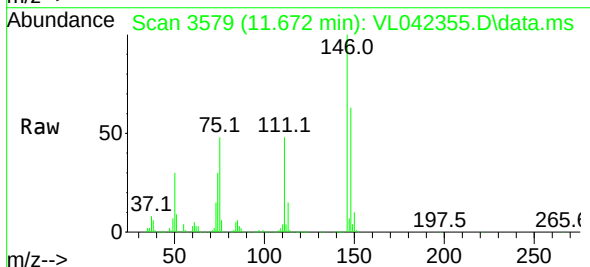
Manual Integrations  
APPROVED

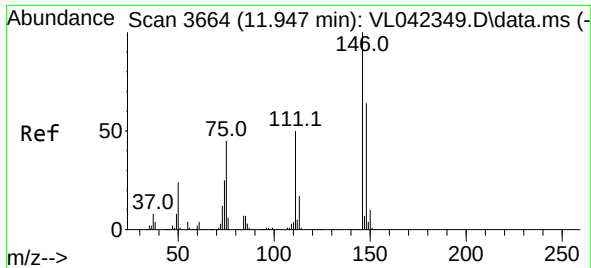
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#76  
1,4-Dichlorobenzene  
Concen: 13.802 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

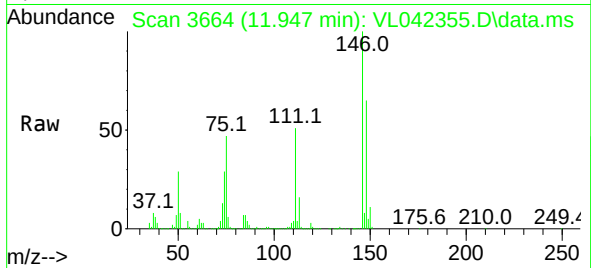
Tgt Ion:146 Resp: 450662  
Ion Ratio Lower Upper  
146 100  
111 47.4 24.2 72.6  
148 62.6 32.1 96.5





#77  
1,2-Dichlorobenzene  
Concen: 13.529 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

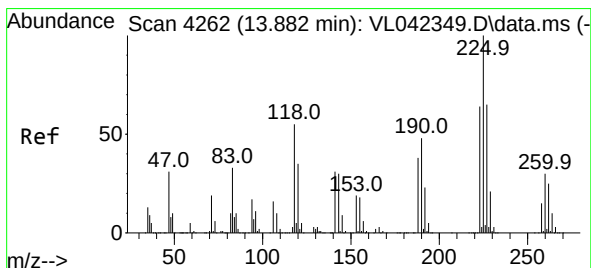
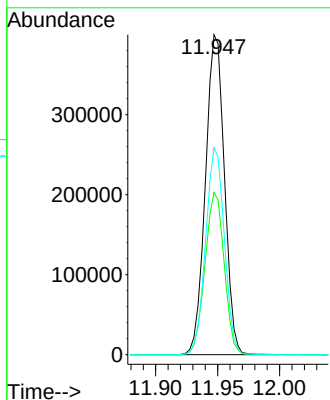
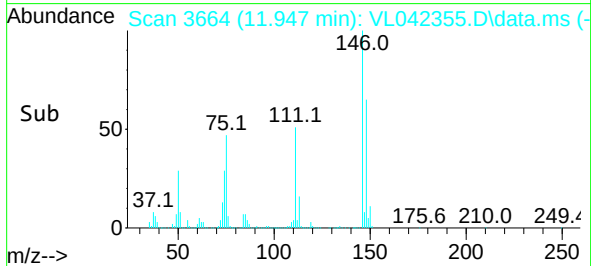
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



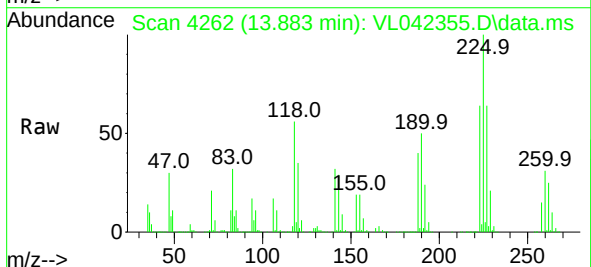
Tgt Ion:146 Resp: 427372  
Ion Ratio Lower Upper  
146 100  
111 51.3 25.3 75.9  
148 63.8 31.5 94.5

Manual Integrations  
APPROVED

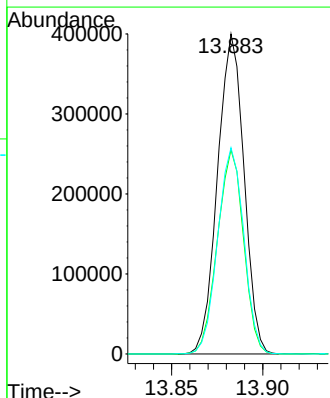
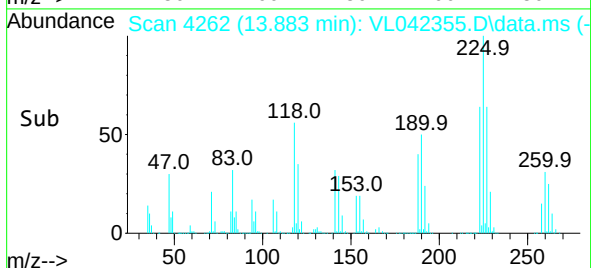
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

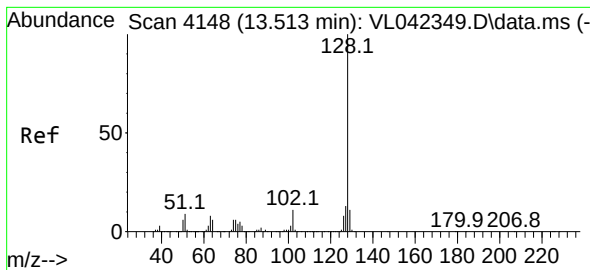


#78  
Hexachloro-1,3-Butadiene  
Concen: 12.679 ppbv  
RT: 13.883 min Scan# 4262  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



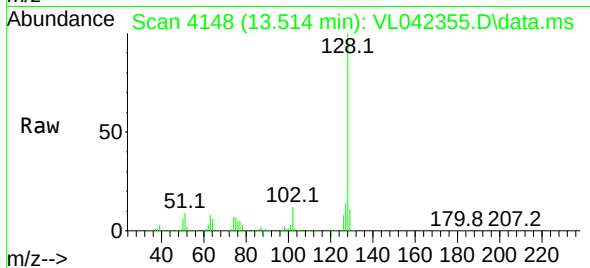
Tgt Ion:225 Resp: 404441  
Ion Ratio Lower Upper  
225 100  
223 62.8 50.3 75.5  
227 63.8 51.5 77.3





#79  
Naphthalene  
Concen: 12.632 ppbv  
RT: 13.514 min Scan# 4148  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

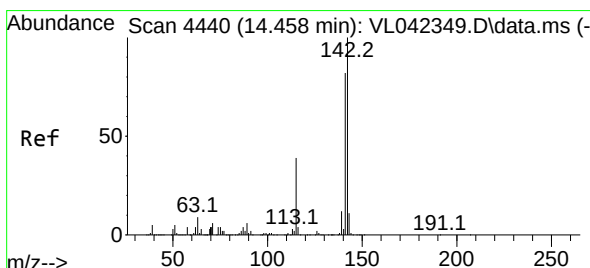
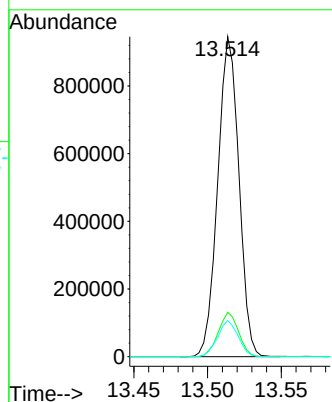
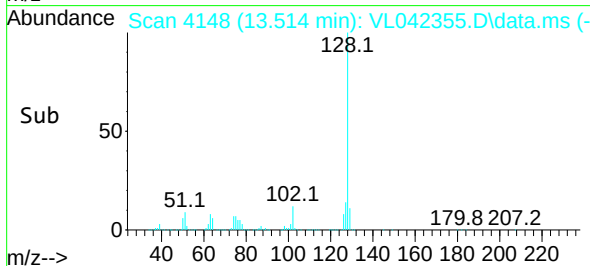
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



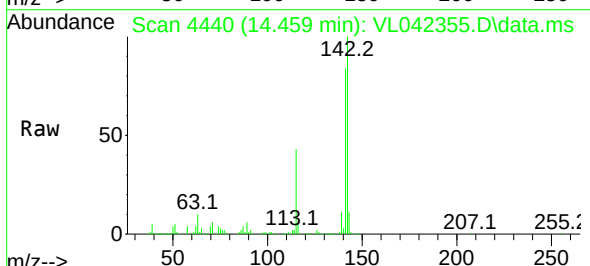
Tgt Ion:128 Resp: 944085  
Ion Ratio Lower Upper  
128 100  
127 13.9 10.6 15.8  
129 11.3 8.6 12.8

Manual Integrations  
APPROVED

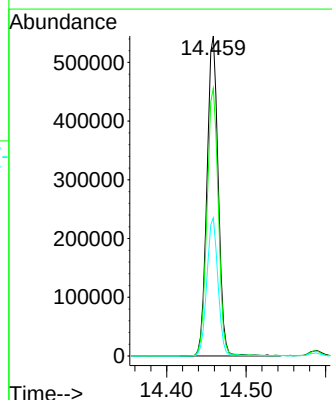
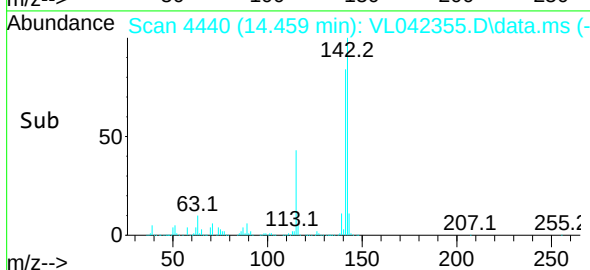
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



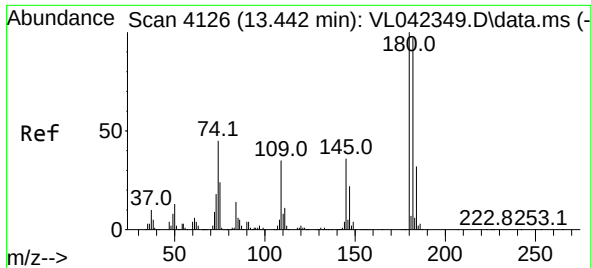
#80  
Naphthalene,2-methyl-  
Concen: 12.686 ppbv  
RT: 14.459 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54



Tgt Ion:142 Resp: 540339  
Ion Ratio Lower Upper  
142 100  
141 84.3 66.8 100.2  
115 43.0 33.4 50.2

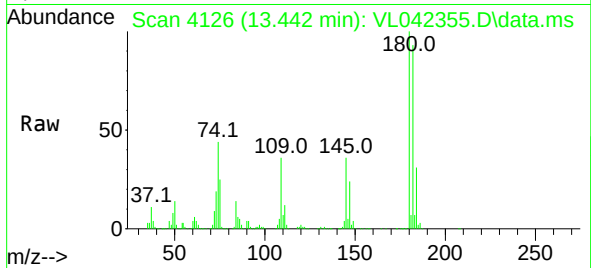






#81  
 1,2,4-Trichlorobenzene  
 Concen: 13.398 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

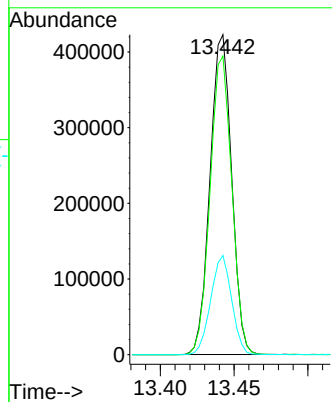
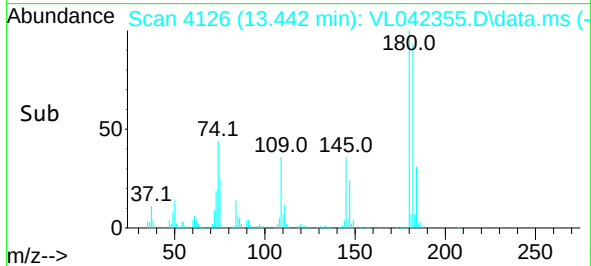
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion:180 Resp: 42998  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 76.8 115.2  
 184 30.2 24.6 36.8

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 113992   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.958 | 114  | 324528   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 305357   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 250149 9.969 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

|                                 |       |     |        |        |        | Qvalue |
|---------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane      | 1.499 | 85  | 197623 | 9.812  | ppbv   | 100    |
| 3) Chlorodifluoromethane        | 1.476 | 51  | 191010 | 9.960  | ppbv   | 99     |
| 4) Chloromethane                | 1.531 | 50  | 78080  | 9.796  | ppbv   | 98     |
| 5) Vinyl Chloride               | 1.580 | 62  | 75628  | 8.717  | ppbv   | 97     |
| 6) Bromomethane                 | 1.667 | 94  | 35115  | 9.422  | ppbv   | 84     |
| 7) Chloroethane                 | 1.703 | 64  | 30158  | 9.612  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane    | 1.554 | 85  | 172863 | 9.997  | ppbv   | 98     |
| 9) Propene                      | 1.482 | 41  | 84636  | 9.690  | ppbv   | 95     |
| 10) Heptane                     | 4.978 | 43  | 221840 | 9.041  | ppbv   | 98     |
| 11) Trichlorofluoromethane      | 1.877 | 101 | 187827 | 9.807  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoro... | 2.140 | 101 | 148485 | 9.482  | ppbv   | 100    |
| 13) Ethanol                     | 1.722 | 45  | 4171   | 3.005  | ppbv   | 97     |
| 14) Bromoethene                 | 1.780 | 108 | 58320  | 9.880  | ppbv   | 99     |
| 15) Acetone                     | 1.835 | 43  | 158708 | 8.505  | ppbv   | 100    |
| 16) 1,3-Butadiene               | 1.609 | 39  | 78804  | 8.829  | ppbv   | 95     |
| 17) tert-Butyl alcohol          | 2.039 | 59  | 218954 | 9.468  | ppbv   | 99     |
| 18) 1,1-Dichloroethene          | 2.033 | 96  | 67940  | 9.287  | ppbv   | 94     |
| 19) Isopropyl Alcohol           | 1.887 | 45  | 96365  | 9.296  | ppbv   | 95     |
| 20) Methylene Chloride          | 2.062 | 84  | 59203  | 8.101  | ppbv   | 91     |
| 21) Allyl Chloride              | 2.094 | 41  | 120704 | 9.368  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene    | 2.340 | 96  | 78070  | 9.373  | ppbv   | 99     |
| 23) Vinyl Acetate               | 2.463 | 43  | 73373  | 9.714  | ppbv   | 99     |
| 24) 1,1-Dichloroethane          | 2.408 | 63  | 155571 | 9.832  | ppbv   | 100    |
| 25) Ethyl Acetate               | 2.835 | 43  | 449014 | 9.759  | ppbv   | 99     |
| 26) Hexane                      | 2.826 | 57  | 175752 | 9.439  | ppbv   | 98     |
| 27) Carbon Disulfide            | 2.149 | 76  | 191117 | 9.587  | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether     | 2.441 | 73  | 115190 | 9.442  | ppbv   | 94     |
| 29) Chloroform                  | 2.848 | 83  | 260855 | 9.912  | ppbv   | 98     |
| 30) Cyclohexane                 | 3.855 | 84  | 148246 | 9.849  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene      | 2.719 | 61  | 179993 | 10.167 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane       | 3.369 | 97  | 276599 | 9.336  | ppbv   | 98     |
| 34) 2-Butanone                  | 2.557 | 43  | 248969 | 9.700  | ppbv   | 99     |
| 35) Carbon Tetrachloride        | 3.764 | 117 | 271862 | 9.256  | ppbv   | 98     |
| 36) Benzene                     | 3.657 | 78  | 350545 | 10.014 | ppbv   | 99     |
| 37) 1,2-Dichloroethane          | 3.217 | 62  | 211790 | 10.081 | ppbv   | 99     |
| 38) Trichloroethene             | 4.551 | 130 | 139872 | 9.143  | ppbv   | 96     |
| 39) 1,2-Dichloropropane         | 4.315 | 63  | 129239 | 9.908  | ppbv   | 99     |
| 40) 1,4-Dioxane                 | 4.583 | 88  | 61587  | 8.591  | ppbv # | 96     |
| 41) Tetrahydrofuran             | 3.052 | 42  | 141861 | 9.479  | ppbv   | 99     |
| 42) Bromodichloromethane        | 4.489 | 83  | 296946 | 10.156 | ppbv   | 96     |
| 43) Methyl Methacrylate         | 4.878 | 69  | 149209 | 9.458  | ppbv   | 96     |
| 44) 2,2,4-Trimethylpentane      | 4.641 | 57  | 606376 | 10.030 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene       | 6.412 | 75  | 160750 | 9.975  | ppbv   | 99     |

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 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

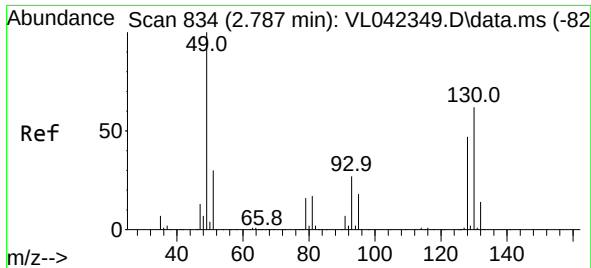
QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.599  | 75   | 200144   | 10.148 | ppbv   | 88       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 135575   | 10.202 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.389  | 129  | 237206   | 10.103 | ppbv   | 100      |
| 49) Bromoform                 | 9.483  | 173  | 205630   | 10.016 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 376145   | 8.819  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 310521   | 8.118  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.224  | 164  | 119424   | 8.827  | ppbv   | 94       |
| 53) Toluene                   | 6.933  | 91   | 419462   | 9.986  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 186231   | 9.792  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 182712   | 9.886  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.920  | 112  | 304533   | 9.589  | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.354  | 91   | 583515   | 9.645  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.532  | 91   | 932801m  | 19.139 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 464522   | 9.465  | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 229869   | 9.813  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 685965   | 9.520  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 279007   | 8.773  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 172654   | 9.533  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 609500   | 9.203  | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.613 | 91   | 63051    | 8.664  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 853807   | 9.268  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 737861   | 9.220  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 771461   | 9.255  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 543794   | 9.622  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 563136   | 9.385  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 486583   | 9.186  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 531576   | 8.592  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 297157   | 9.240  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 297697   | 9.210  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 289284   | 9.251  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 276960   | 8.771  | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 647349   | 8.750  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 350259   | 8.307  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 290260   | 9.136  | ppbv   | 99       |

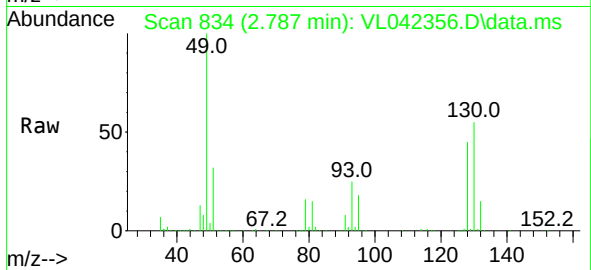
(#) = qualifier out of range (m) = manual integration (+) = signals summed





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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

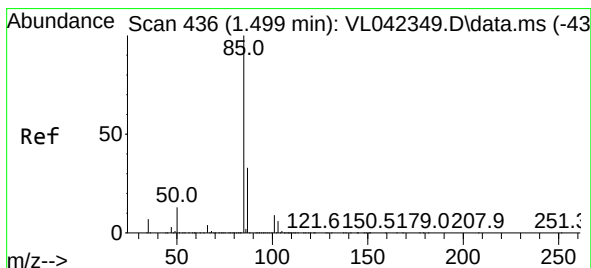
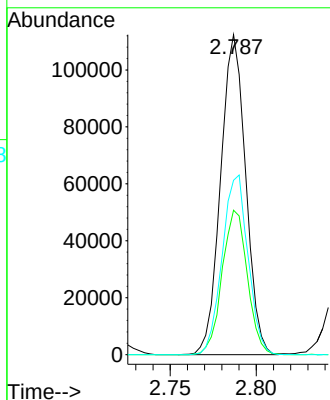
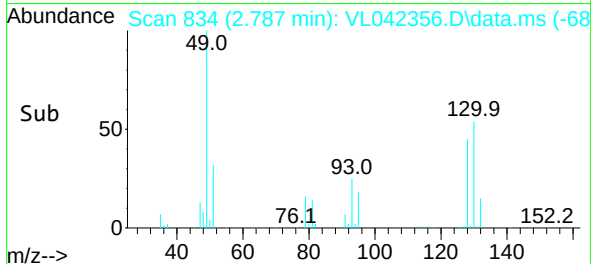
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



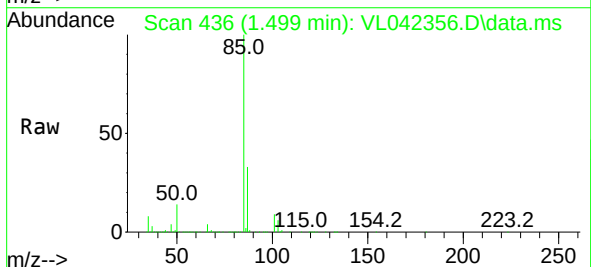
Tgt Ion: 49 Resp: 113992  
Ion Ratio Lower Upper  
49 100  
128 45.5 22.8 68.4  
130 57.8 29.3 88.0

Manual Integrations  
APPROVED

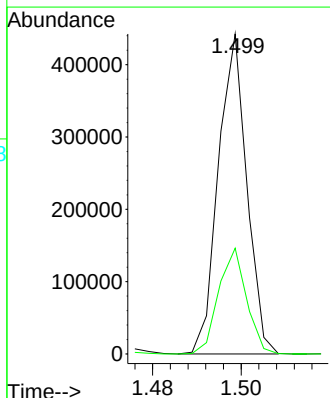
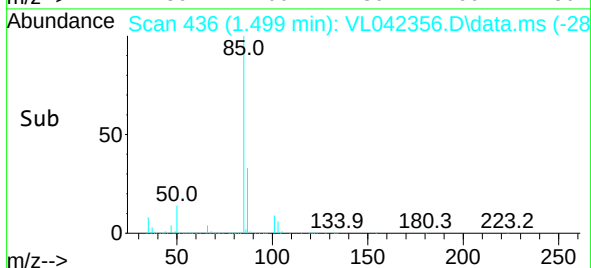
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

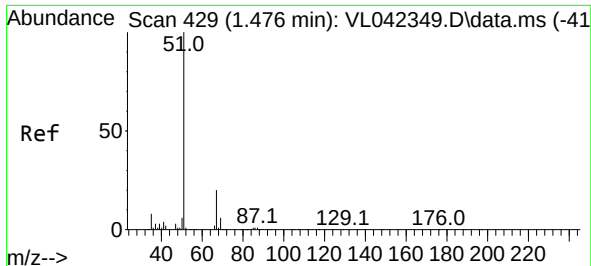


#2  
Dichlorodifluoromethane  
Concen: 9.812 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



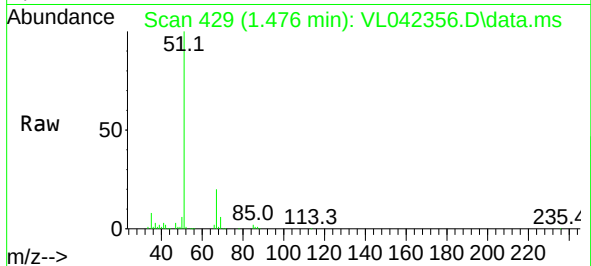
Tgt Ion: 85 Resp: 197623  
Ion Ratio Lower Upper  
85 100  
87 33.1 26.6 39.8





#3  
Chlorodifluoromethane  
Concen: 9.960 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

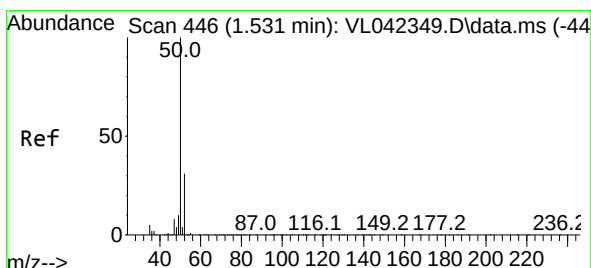
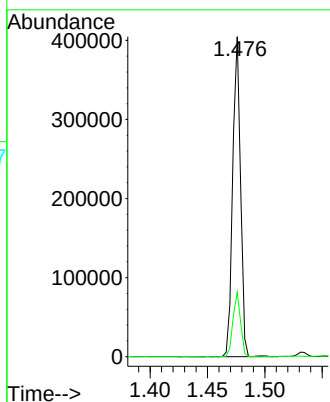
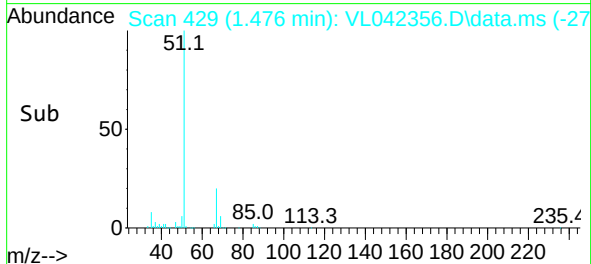
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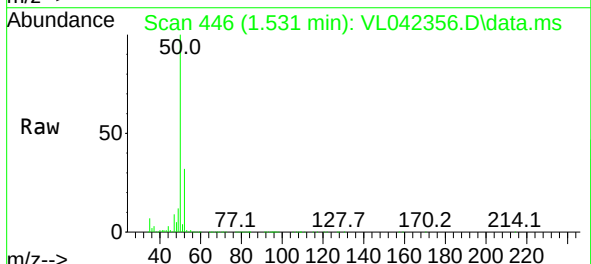
Tgt Ion: 51 Resp: 191010  
Ion Ratio Lower Upper  
51 100  
67 19.6 16.2 24.4

Manual Integrations  
APPROVED

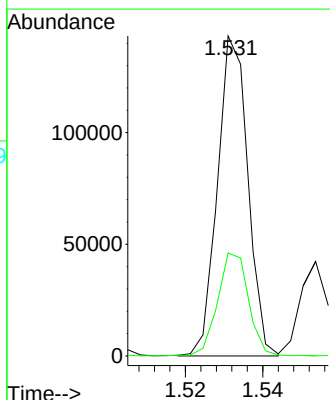
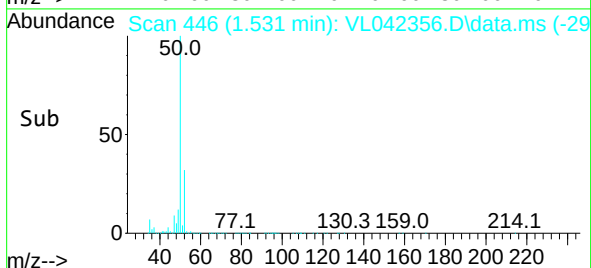
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

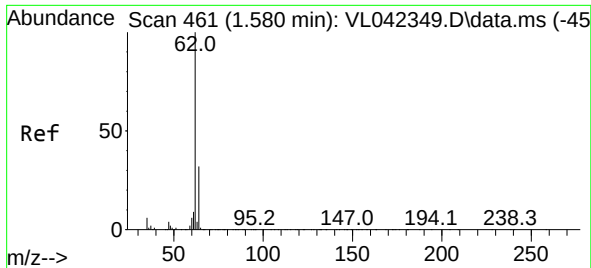


#4  
Chloromethane  
Concen: 9.796 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



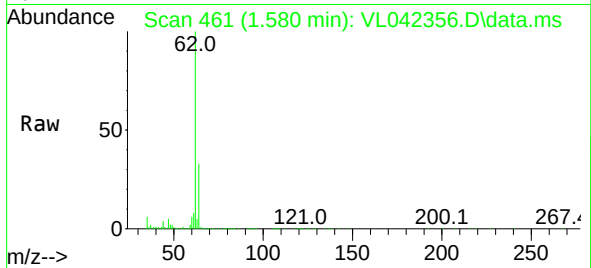
Tgt Ion: 50 Resp: 78080  
Ion Ratio Lower Upper  
50 100  
52 32.0 24.7 37.1





#5  
 Vinyl Chloride  
 Concen: 8.717 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

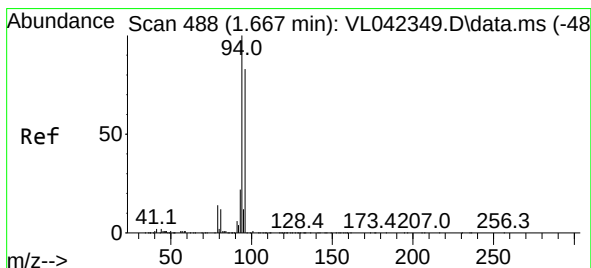
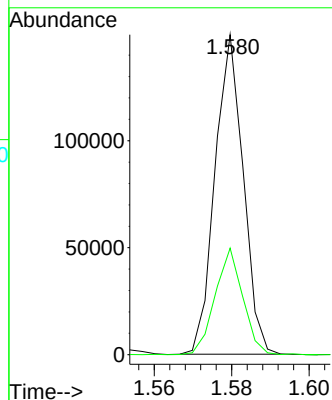
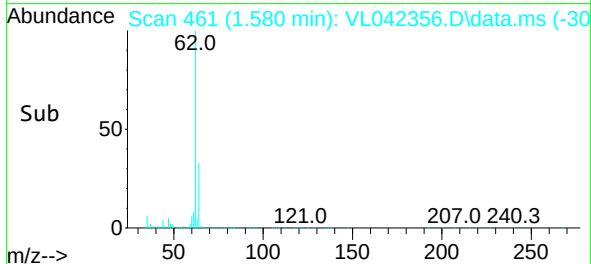
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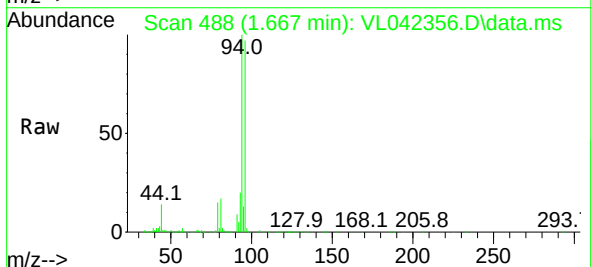
Tgt Ion: 62 Resp: 75628  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 25.4 38.0

Manual Integrations  
 APPROVED

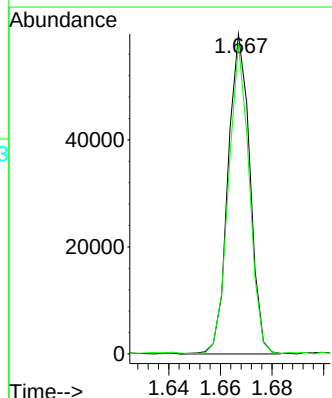
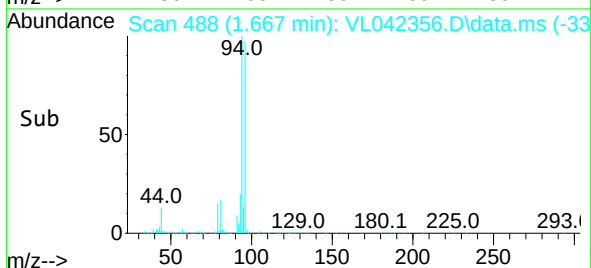
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

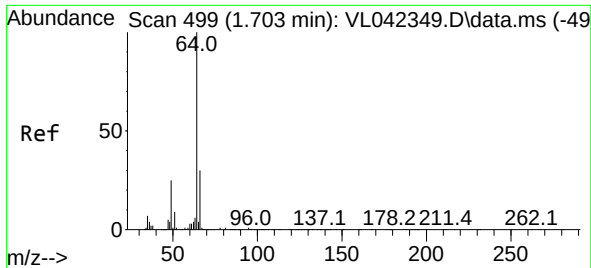


#6  
 Bromomethane  
 Concen: 9.422 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43



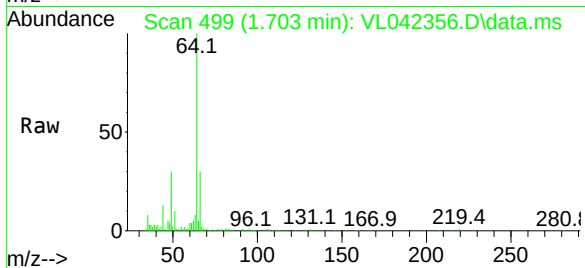
Tgt Ion: 94 Resp: 35115  
 Ion Ratio Lower Upper  
 94 100  
 96 96.8 66.2 99.2





#7  
Chloroethane  
Concen: 9.612 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

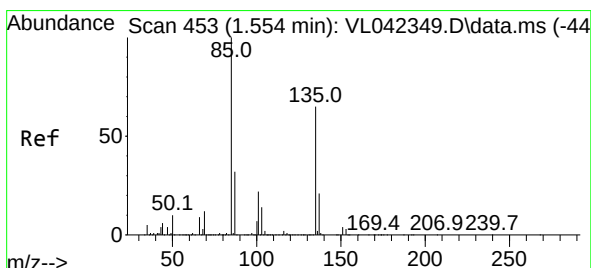
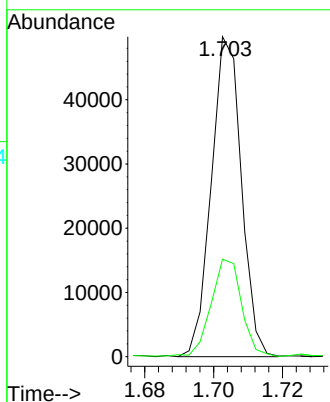
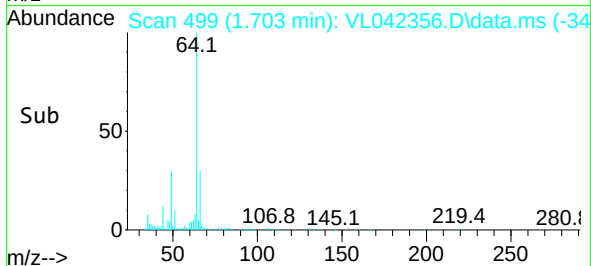
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



Tgt Ion: 64 Resp: 30158  
Ion Ratio Lower Upper  
64 100  
66 30.4 24.6 37.0

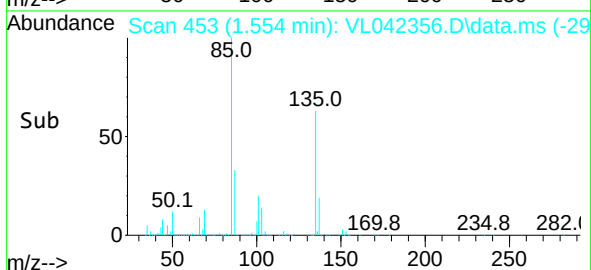
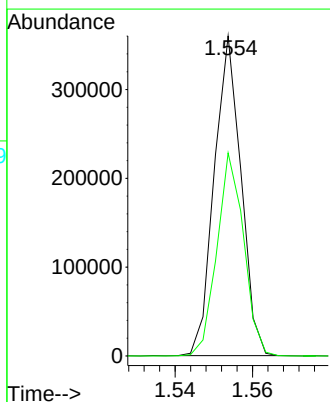
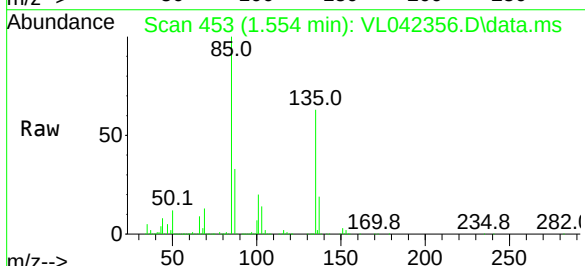
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

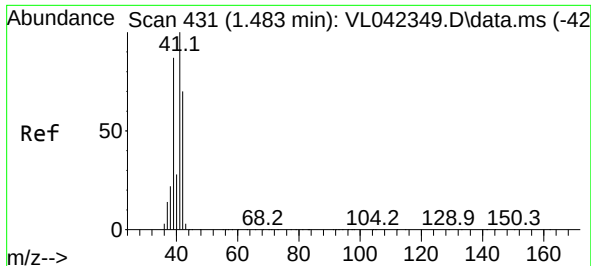


#8  
Dichlorotetrafluoroethane  
Concen: 9.997 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863  
Ion Ratio Lower Upper  
85 100  
135 63.5 52.2 78.2

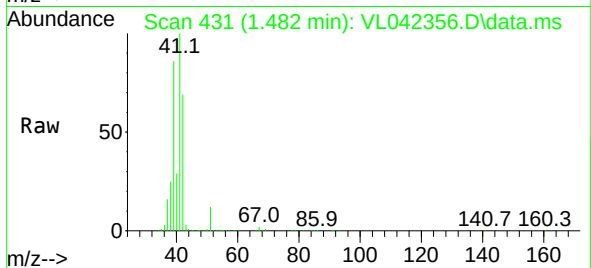






#9  
Propene  
Concen: 9.690 ppbv  
RT: 1.482 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

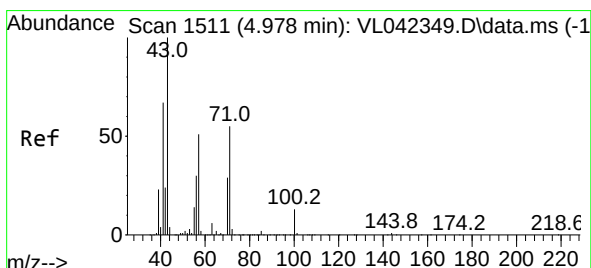
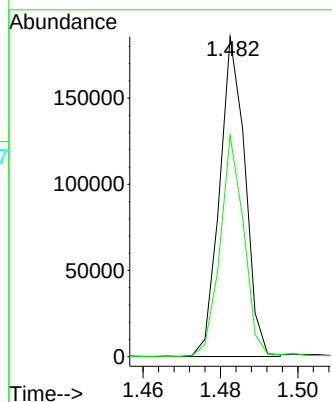
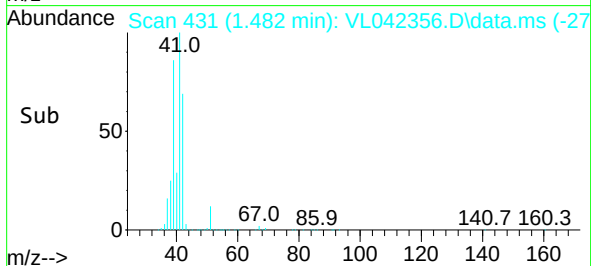
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725



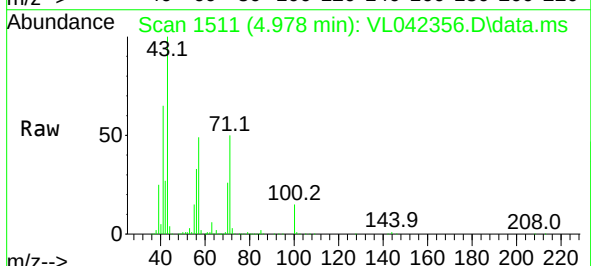
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Ion Ratio Lower Upper  
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42 65.8 56.2 84.4

Manual Integrations  
APPROVED

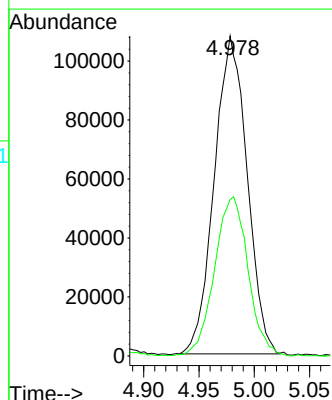
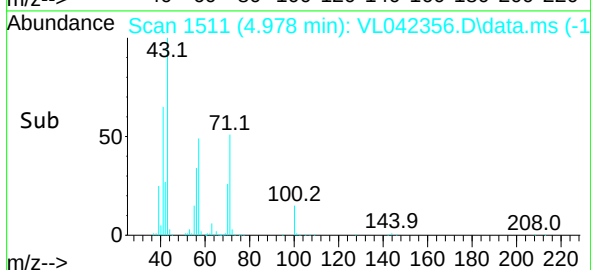
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

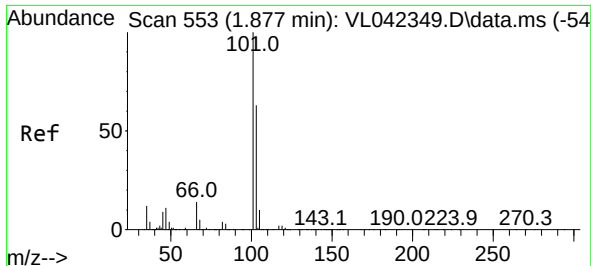


#10  
Heptane  
Concen: 9.041 ppbv  
RT: 4.978 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



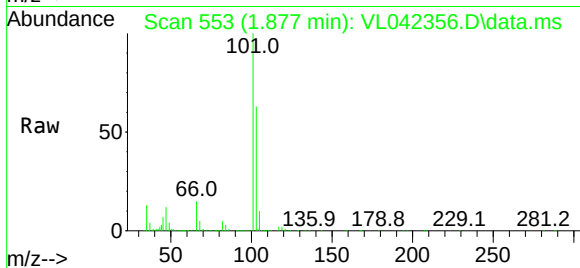
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Ion Ratio Lower Upper  
43 100  
57 51.4 39.9 59.9





#11  
 Trichlorofluoromethane  
 Concen: 9.807 ppbv  
 RT: 1.877 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

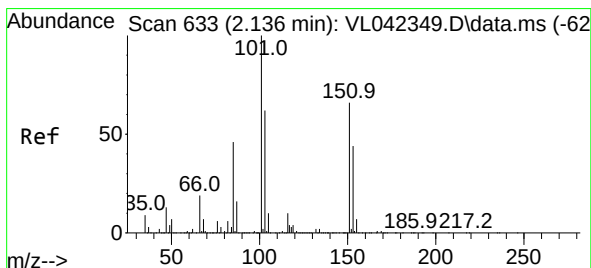
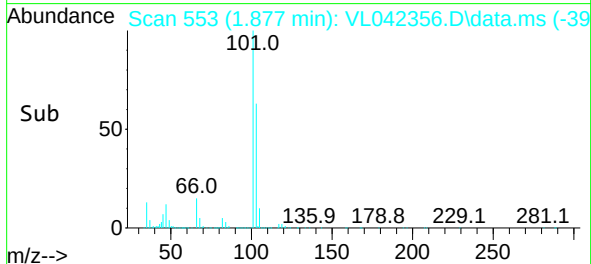
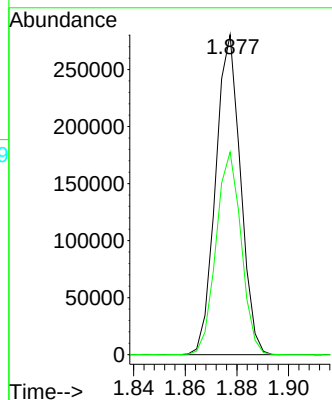
Instrument : MSVOA\_L  
 ClientSampleId : ICVVL041725



Tgt Ion:101 Resp: 18782  
 Ion Ratio Lower Upper  
 101 100  
 103 63.3 50.1 75.1

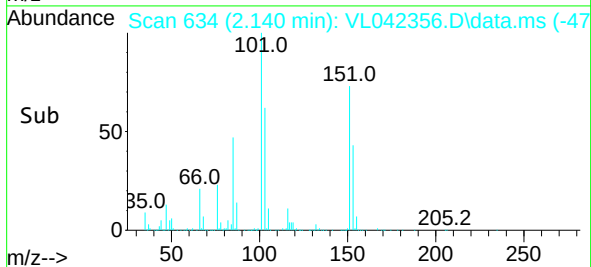
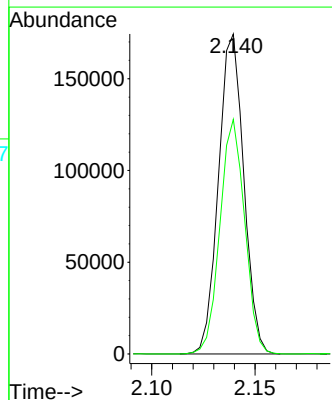
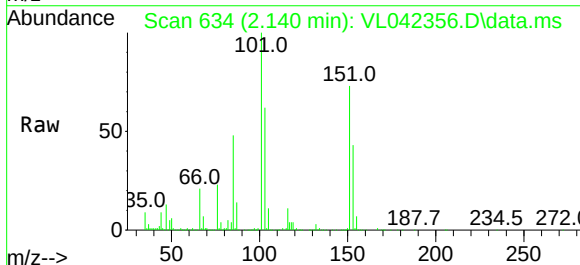
### Manual Integrations APPROVED

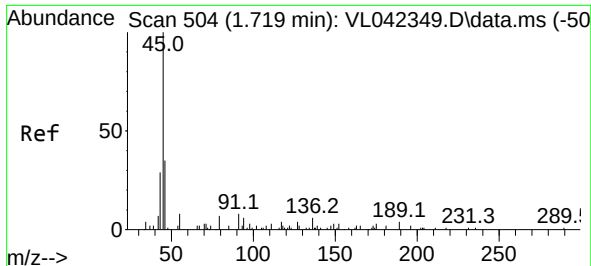
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.482 ppbv  
 RT: 2.140 min Scan# 634  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

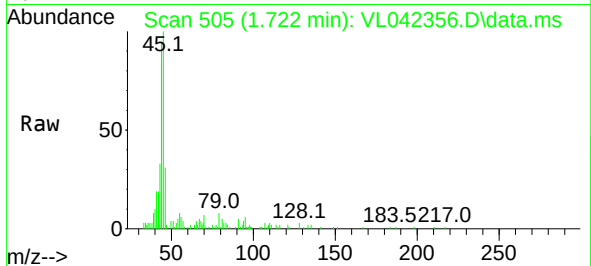
Tgt Ion:101 Resp: 148485  
 Ion Ratio Lower Upper  
 101 100  
 151 71.7 57.0 85.6





#13  
 Ethanol  
 Concen: 3.005 ppbv  
 RT: 1.722 min Scan# 504  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

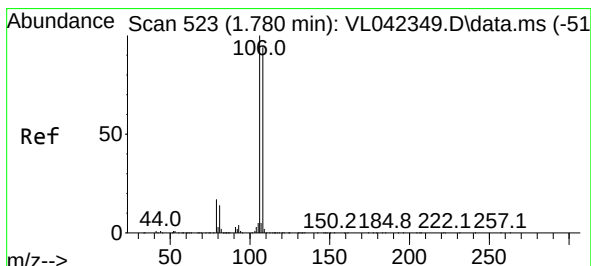
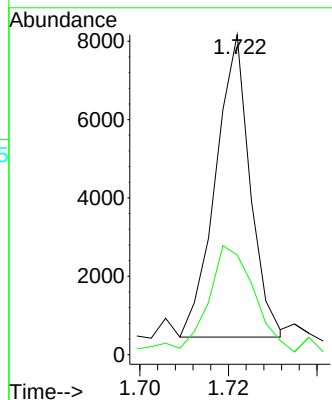
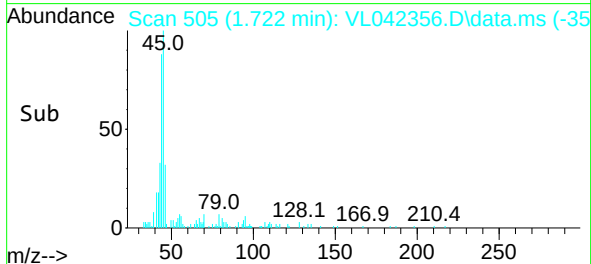
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725



Tgt Ion: 45 Resp: 417  
 Ion Ratio Lower Upper  
 45 100  
 46 57.0 21.9 87.7

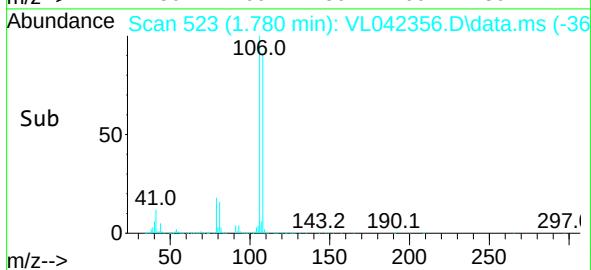
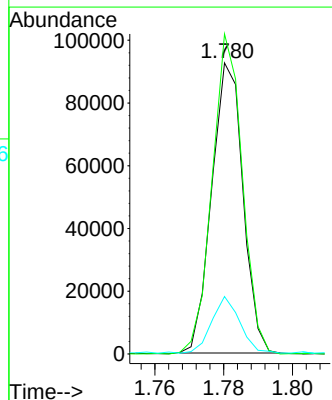
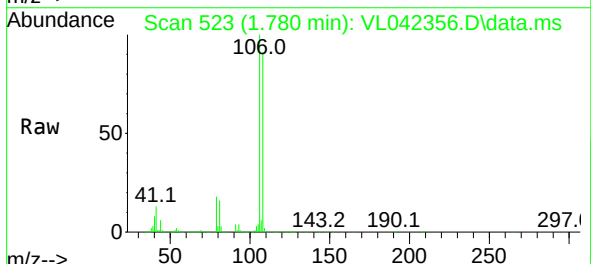
Manual Integrations  
 APPROVED

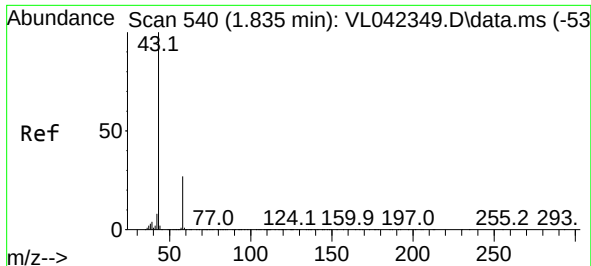
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#14  
 Bromoethene  
 Concen: 9.880 ppbv  
 RT: 1.780 min Scan# 523  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

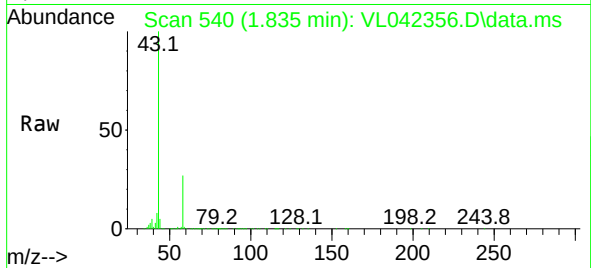
Tgt Ion:108 Resp: 58320  
 Ion Ratio Lower Upper  
 108 100  
 106 107.1 85.9 128.9  
 79 18.4 13.9 20.9





#15  
Acetone  
Concen: 8.505 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

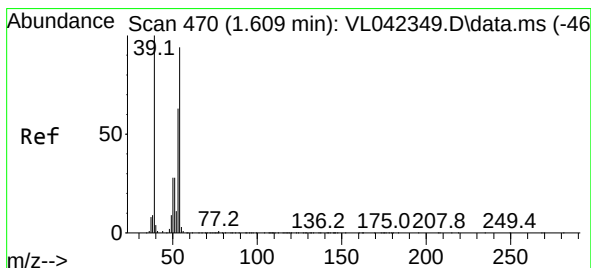
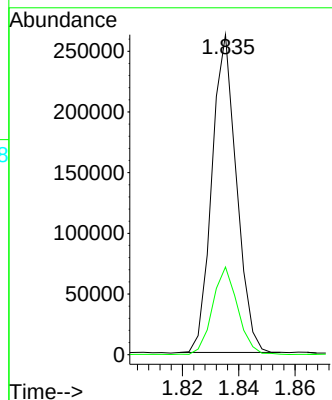
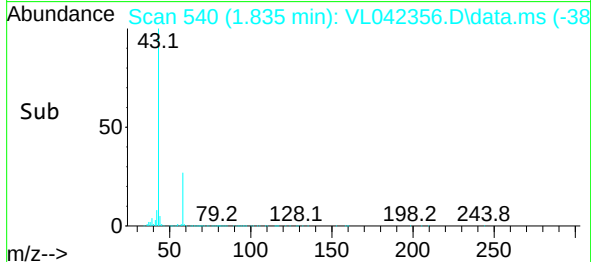
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



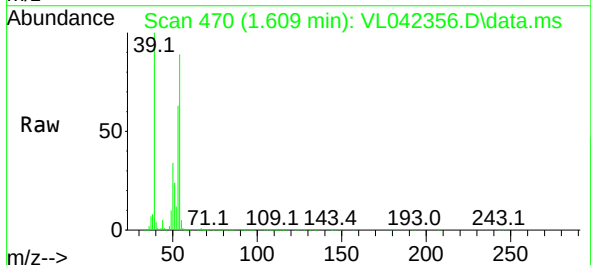
Tgt Ion: 43 Resp: 158708  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6

Manual Integrations  
APPROVED

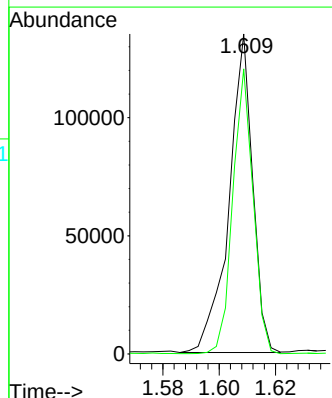
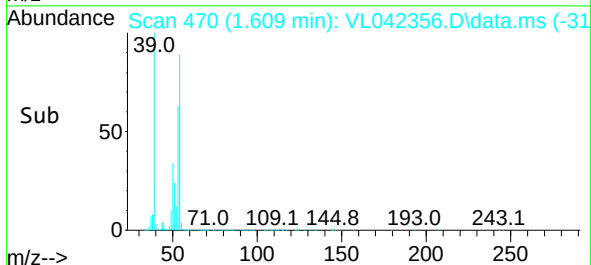
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

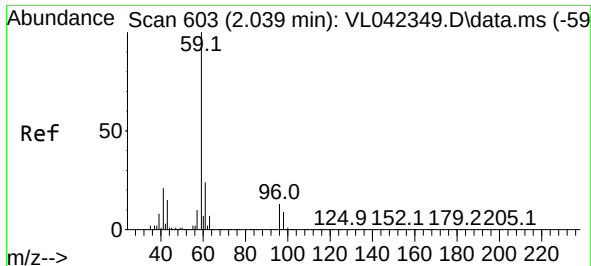


#16  
1,3-Butadiene  
Concen: 8.829 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



Tgt Ion: 39 Resp: 78804  
Ion Ratio Lower Upper  
39 100  
54 77.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.468 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

Tgt Ion: 59 Resp: 218954

Ion Ratio Lower Upper

59 100

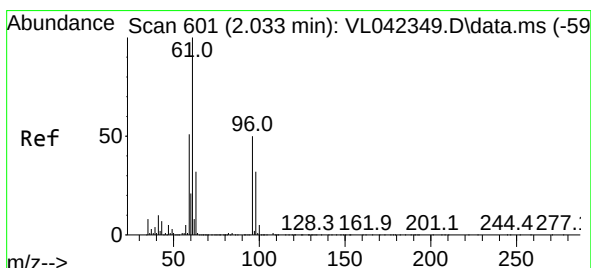
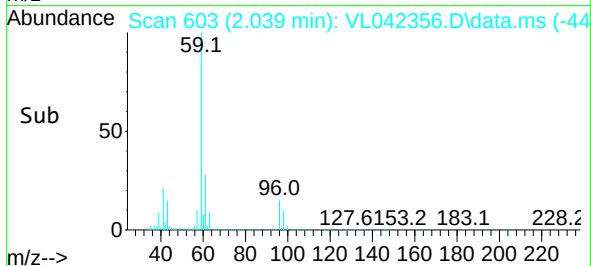
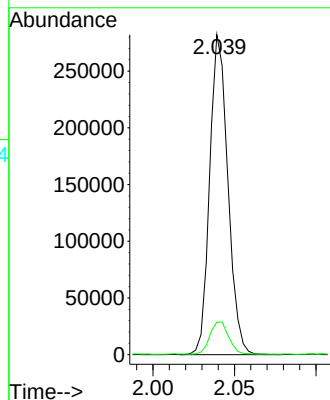
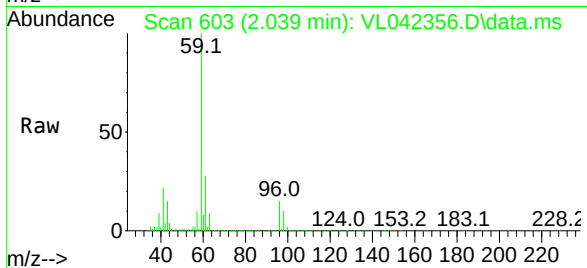
57 10.6 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 9.287 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

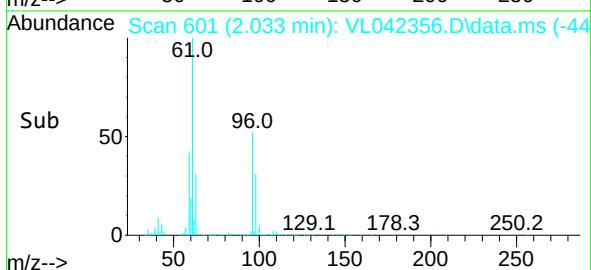
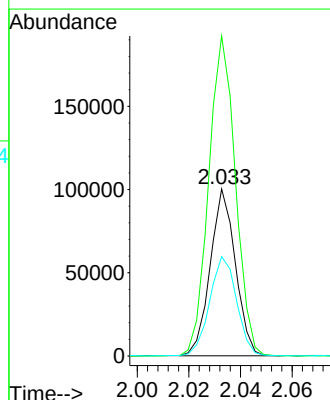
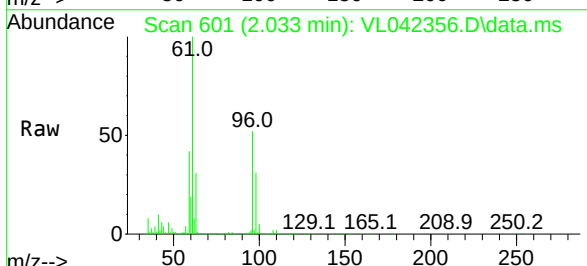
Tgt Ion: 96 Resp: 67940

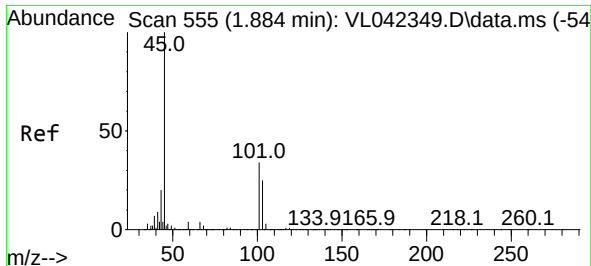
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

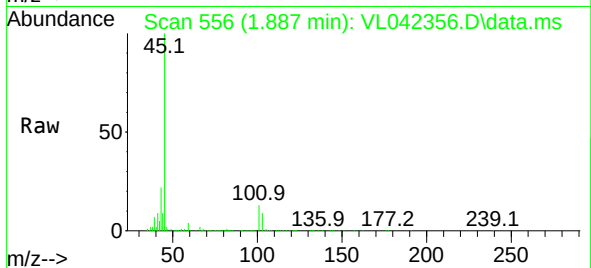
98 59.4 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 9.296 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

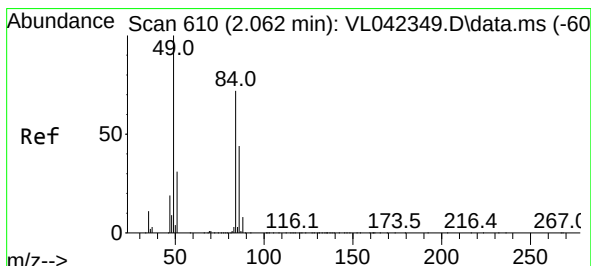
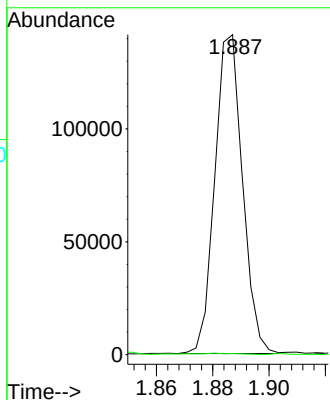
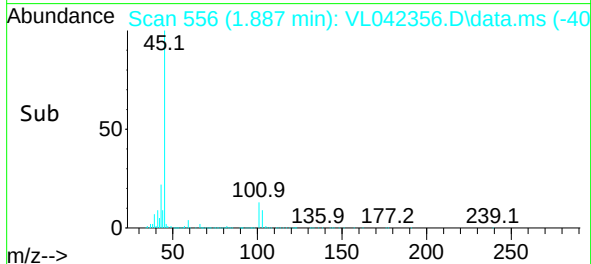
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725



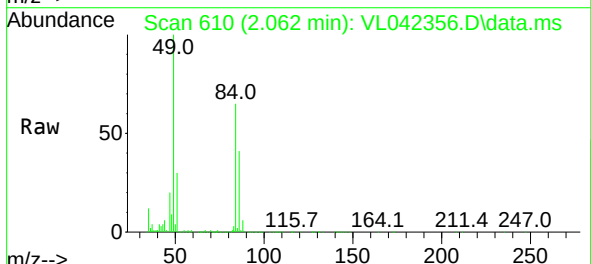
Tgt Ion: 45 Resp: 9636  
Ion Ratio Lower Upper  
45 100  
58 46.1 34.5 51.7

Manual Integrations  
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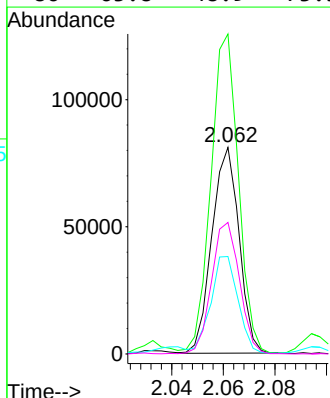
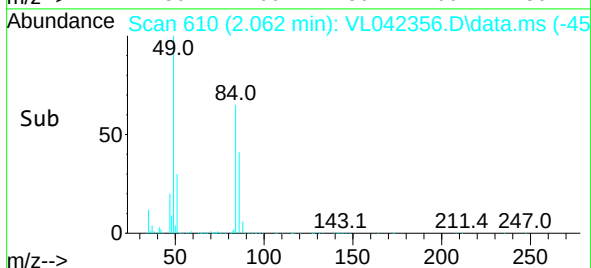
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

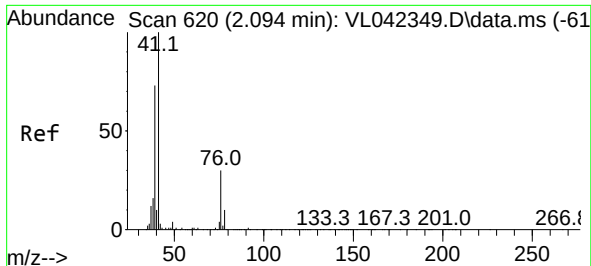


#20  
Methylene Chloride  
Concen: 8.101 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



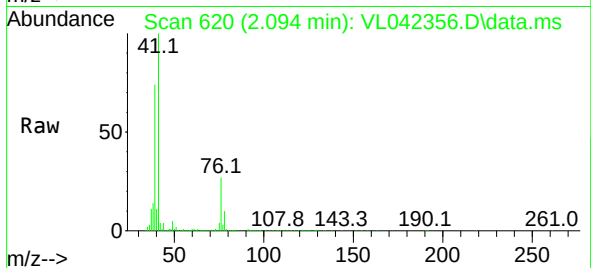
Tgt Ion: 84 Resp: 59203  
Ion Ratio Lower Upper  
84 100  
49 155.3 111.6 167.4  
51 47.0 35.1 52.7  
86 63.8 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 9.368 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

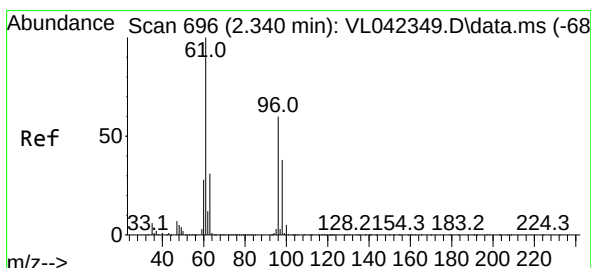
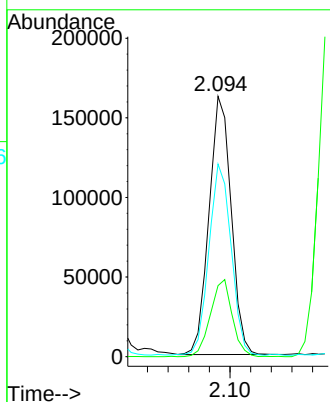
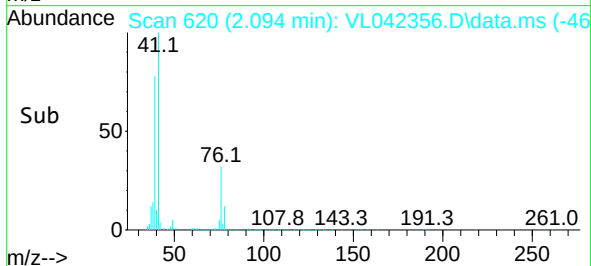
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725



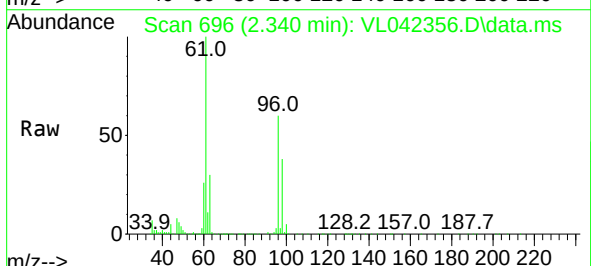
Tgt Ion: 41 Resp: 120704  
 Ion Ratio Lower Upper  
 41 100  
 76 29.5 24.8 37.2  
 39 74.5 60.6 90.8

Manual Integrations  
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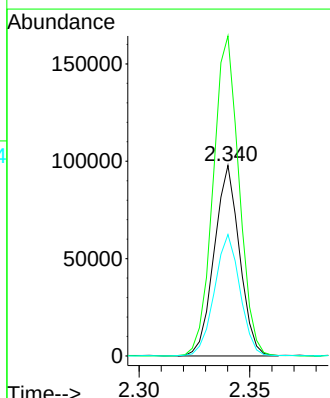
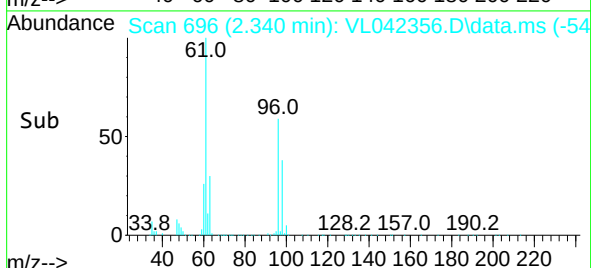
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

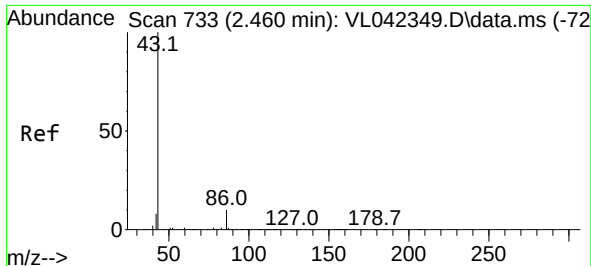


#22  
 trans-1,2-Dichloroethene  
 Concen: 9.373 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43



Tgt Ion: 96 Resp: 78070  
 Ion Ratio Lower Upper  
 96 100  
 61 167.7 133.7 200.5  
 98 63.5 50.3 75.5





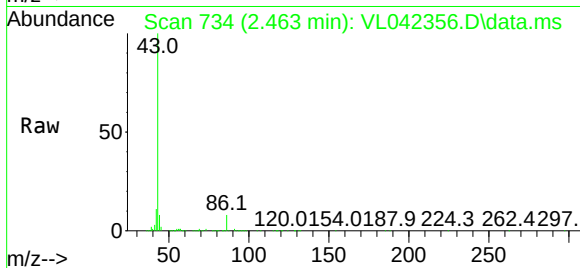
#23  
 Vinyl Acetate  
 Concen: 9.714 ppbv  
 RT: 2.463 min Scan# 714  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

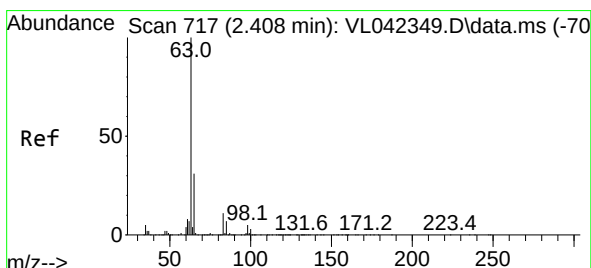
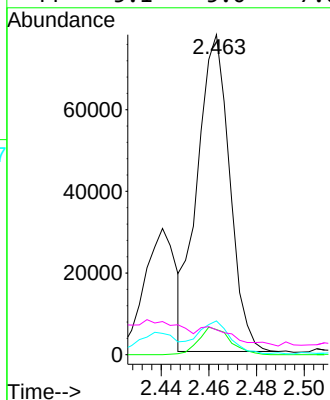
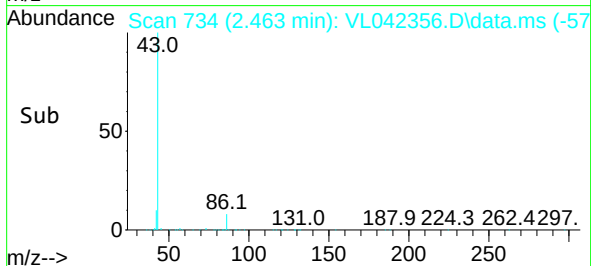


Tgt Ion: 43 Resp: 7337  
 Ion Ratio Lower Upper  
 43 100  
 86 8.0 6.5 9.7  
 42 10.0 7.8 11.8  
 44 5.1 5.0 7.6

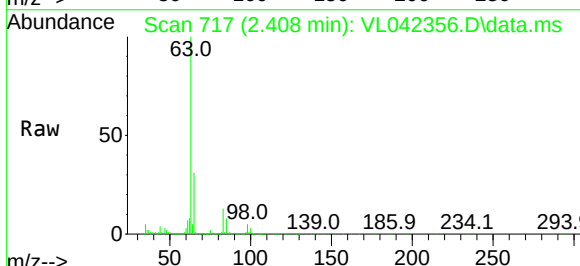
Manual Integrations

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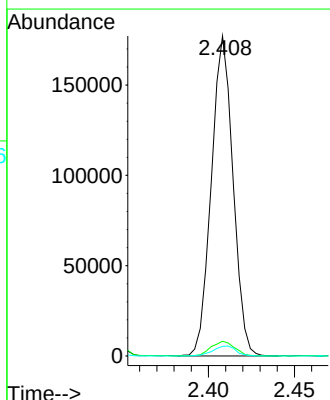
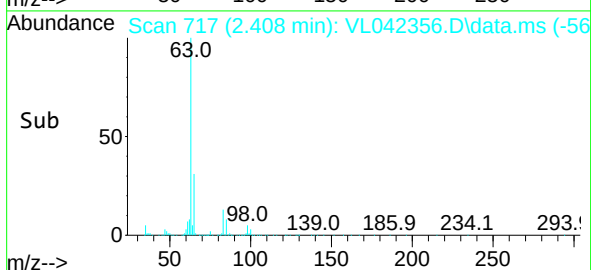
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



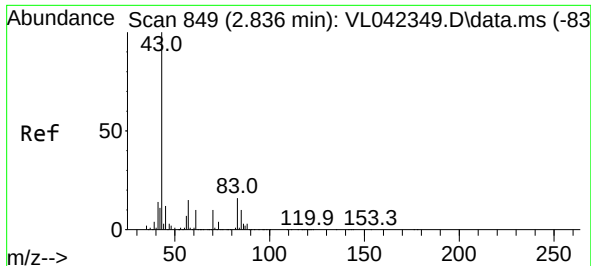
#24  
 1,1-Dichloroethane  
 Concen: 9.832 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43



Tgt Ion: 63 Resp: 155571  
 Ion Ratio Lower Upper  
 63 100  
 98 4.6 2.3 6.8  
 100 3.0 1.6 4.8

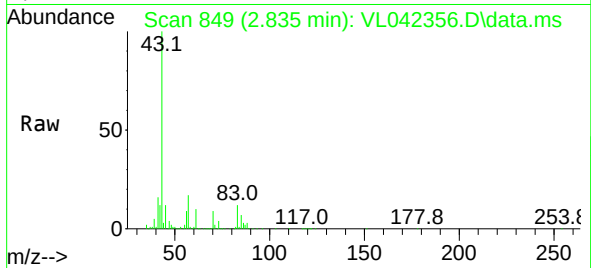






#25  
Ethyl Acetate  
Concen: 9.759 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

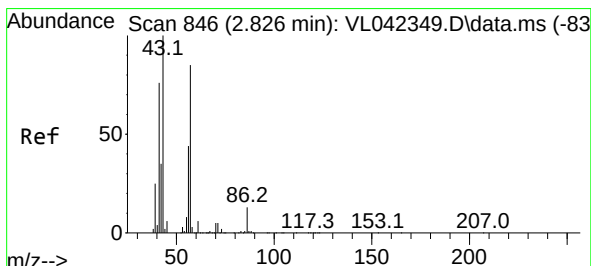
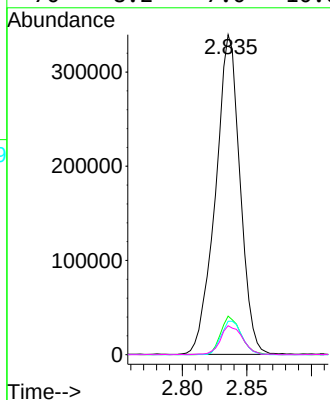
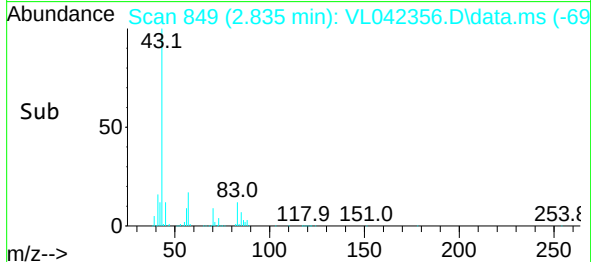
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



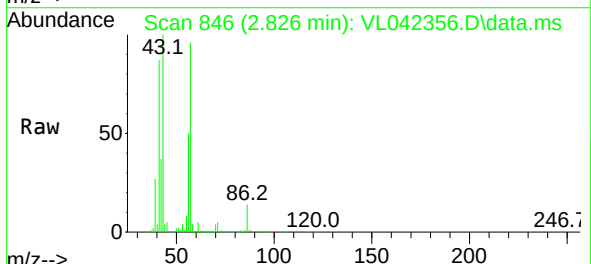
Tgt Ion: 43 Resp: 449014  
Ion Ratio Lower Upper  
43 100  
45 9.9 8.3 12.5  
61 9.0 7.3 10.9  
70 8.2 7.0 10.6

Manual Integrations  
APPROVED

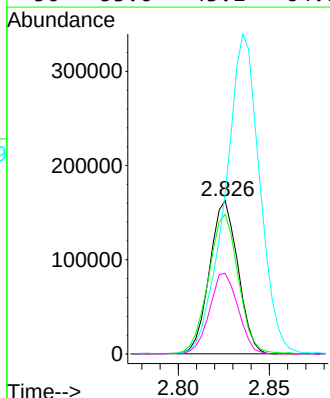
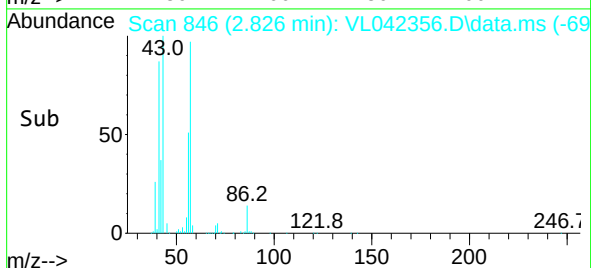
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

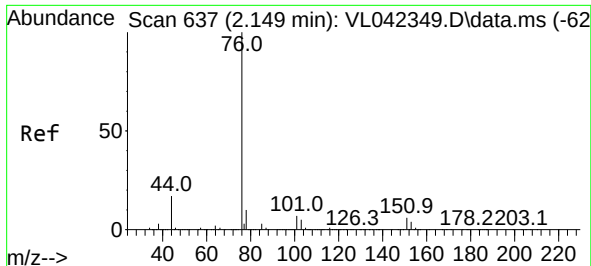


#26  
Hexane  
Concen: 9.439 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



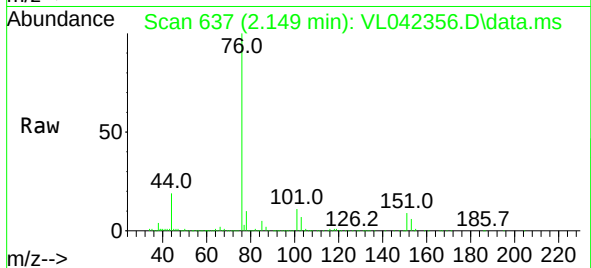
Tgt Ion: 57 Resp: 175752  
Ion Ratio Lower Upper  
57 100  
41 96.6 77.9 116.9  
43 256.0 208.4 312.6  
56 53.6 43.1 64.7





#27  
Carbon Disulfide  
Concen: 9.587 ppbv  
RT: 2.149 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

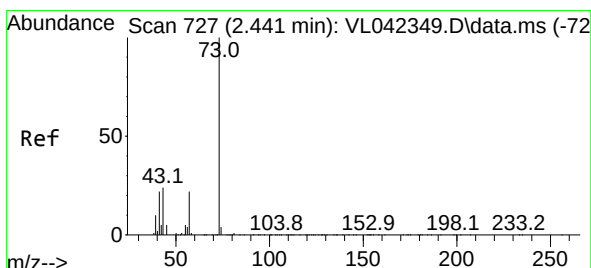
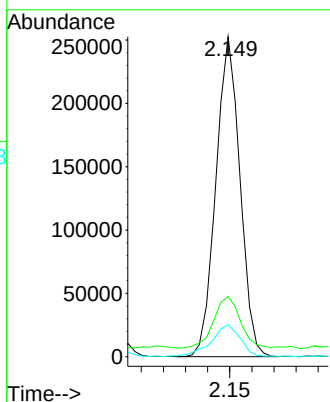
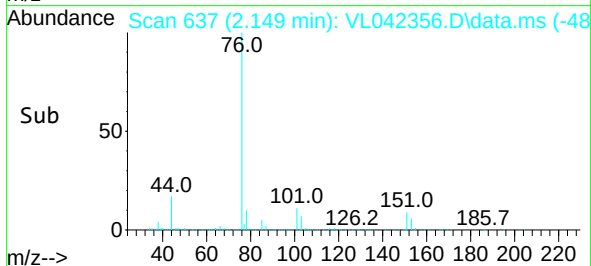
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



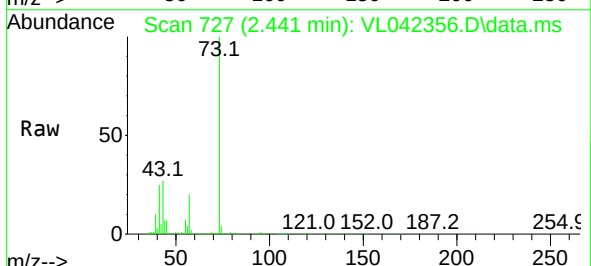
Tgt Ion: 76 Resp: 191117  
Ion Ratio Lower Upper  
76 100  
44 19.3 15.5 23.3  
78 11.9 9.3 13.9

Manual Integrations  
APPROVED

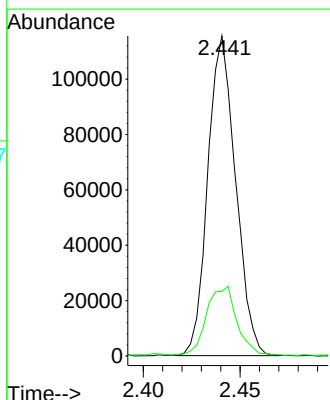
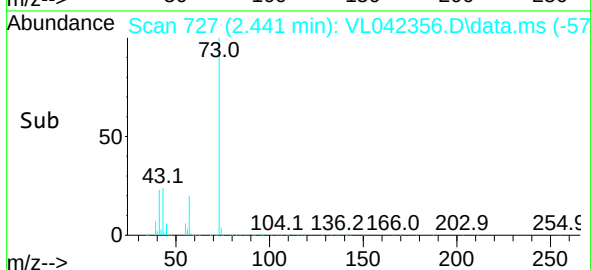
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

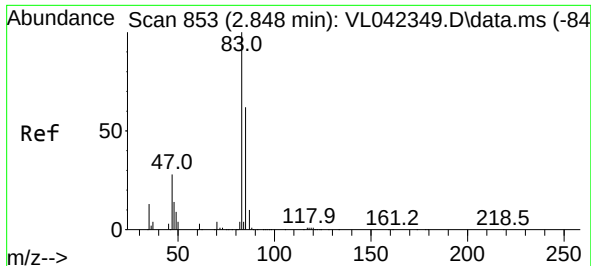


#28  
Methyl tert-Butyl Ether  
Concen: 9.442 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



Tgt Ion: 73 Resp: 115190  
Ion Ratio Lower Upper  
73 100  
57 23.4 21.3 31.9





#29

Chloroform

Concen: 9.912 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

Tgt Ion: 83 Resp: 26085

Ion Ratio Lower Upper

83 100

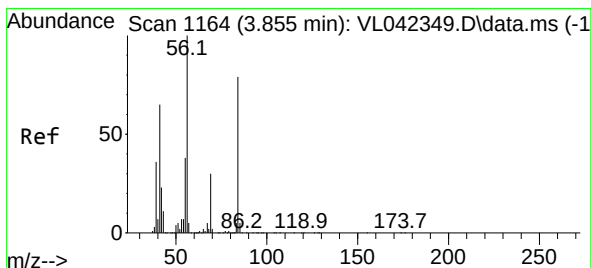
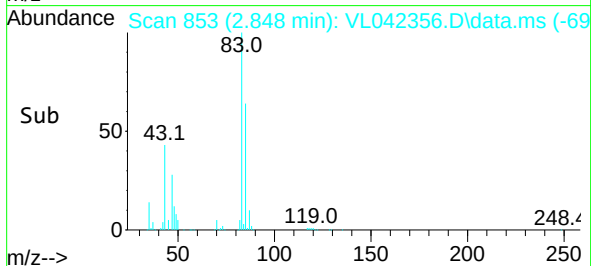
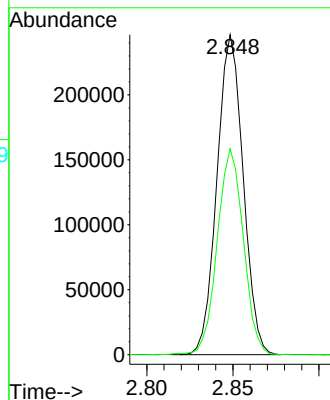
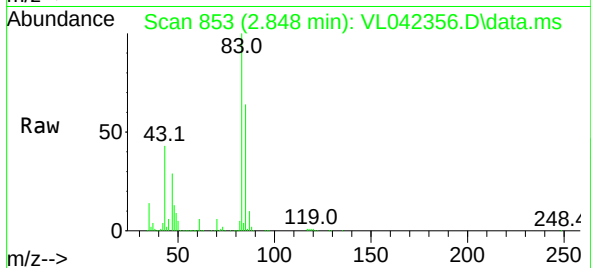
85 64.3 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 9.849 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

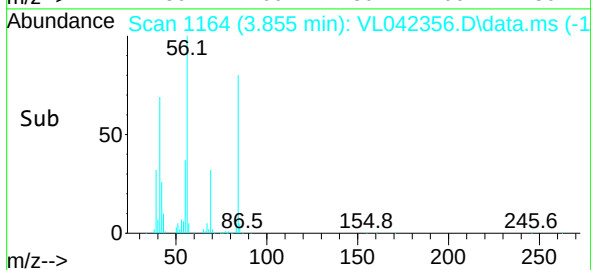
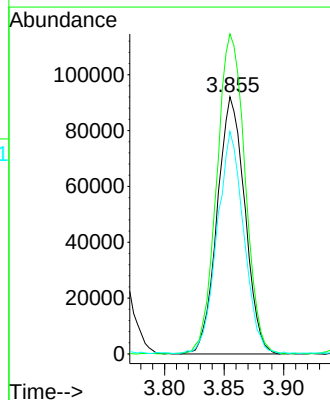
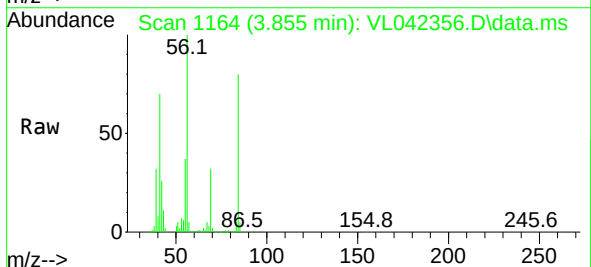
Tgt Ion: 84 Resp: 148246

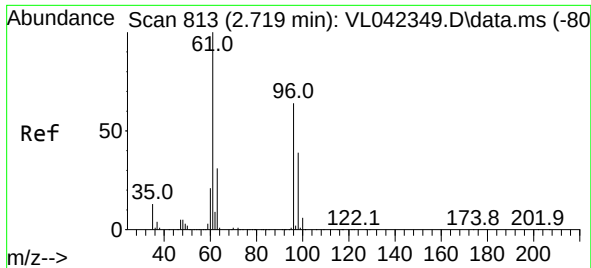
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

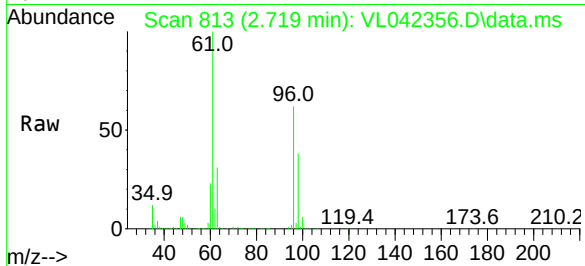
41 83.2 67.4 101.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 10.167 ppbv  
 RT: 2.719 min Scan# 813  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

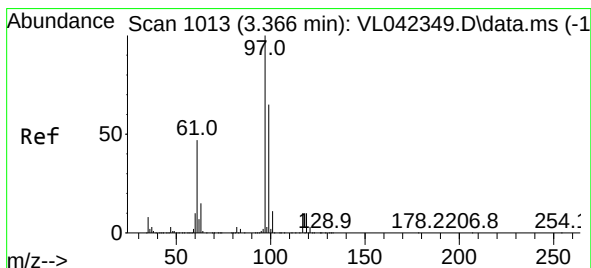
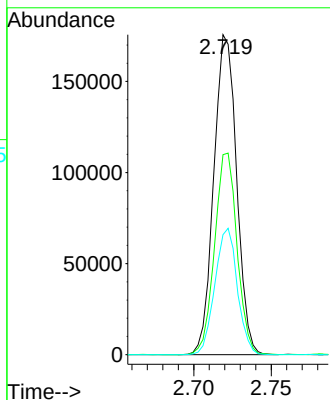
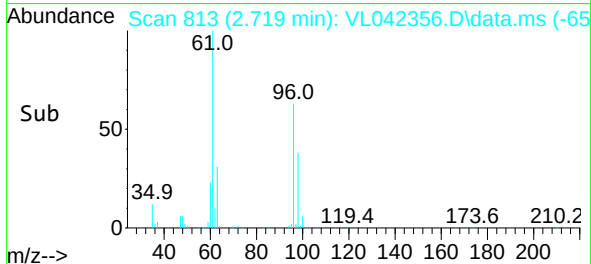
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725



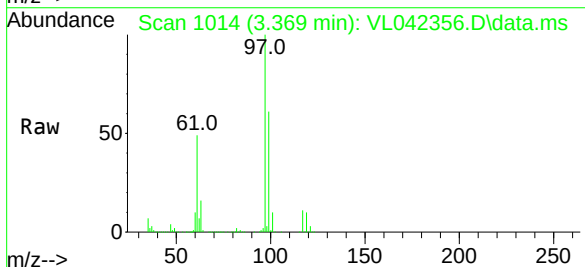
Tgt Ion: 61 Resp: 17999  
 Ion Ratio Lower Upper  
 61 100  
 96 62.5 50.8 76.2  
 98 37.5 30.9 46.3

Manual Integrations  
 APPROVED

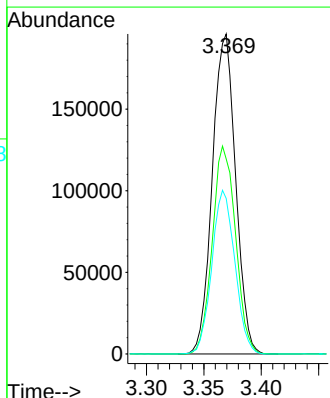
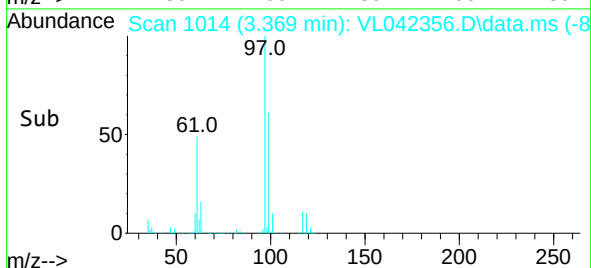
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

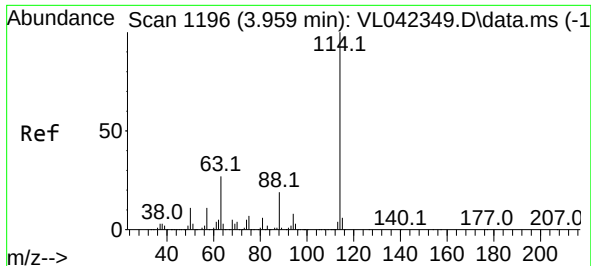


#32  
 1,1,1-Trichloroethane  
 Concen: 9.336 ppbv  
 RT: 3.369 min Scan# 1014  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43



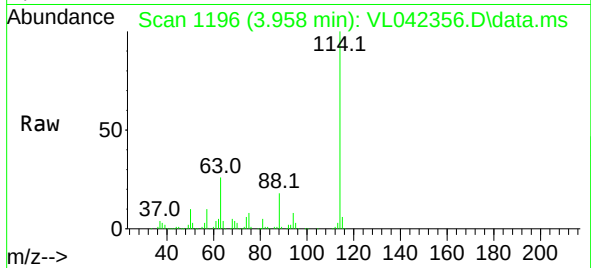
Tgt Ion: 97 Resp: 276599  
 Ion Ratio Lower Upper  
 97 100  
 99 65.0 51.0 76.4  
 61 50.7 38.8 58.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.958 min Scan# 1196  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

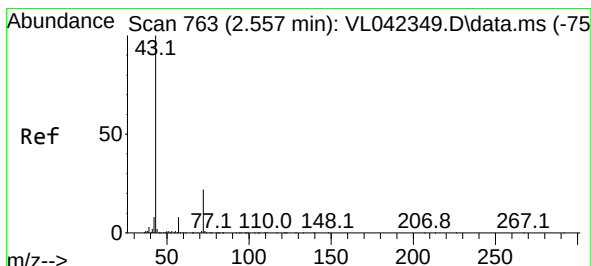
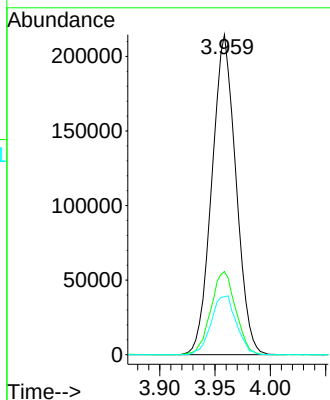
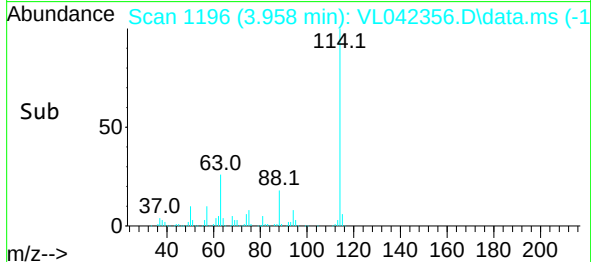
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



Tgt Ion:114 Resp: 324528  
Ion Ratio Lower Upper  
114 100  
63 26.8 21.8 32.6  
88 19.2 15.5 23.3

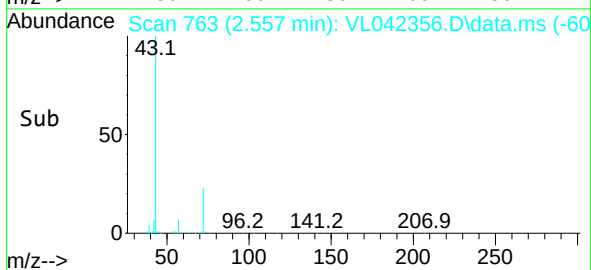
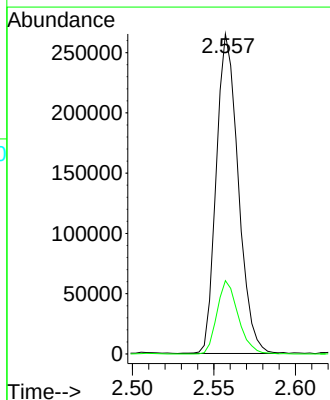
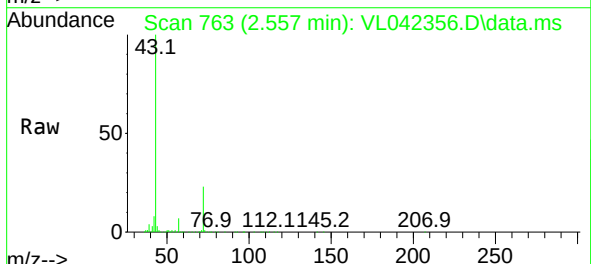
Manual Integrations  
APPROVED

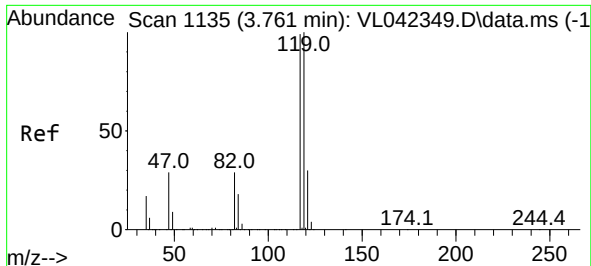
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#34  
2-Butanone  
Concen: 9.700 ppbv  
RT: 2.557 min Scan# 763  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

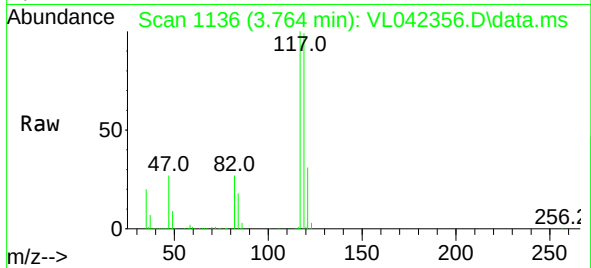
Tgt Ion: 43 Resp: 248969  
Ion Ratio Lower Upper  
43 100  
72 22.1 18.2 27.2





#35  
Carbon Tetrachloride  
Concen: 9.256 ppbv  
RT: 3.764 min Scan# 1135  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

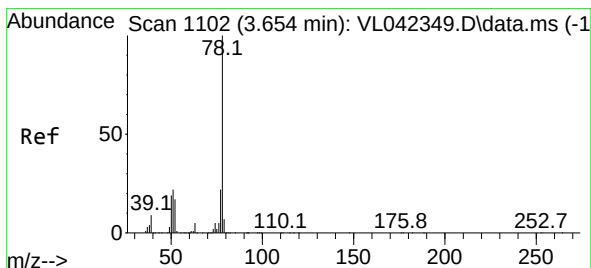
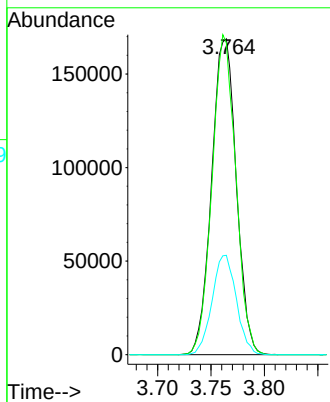
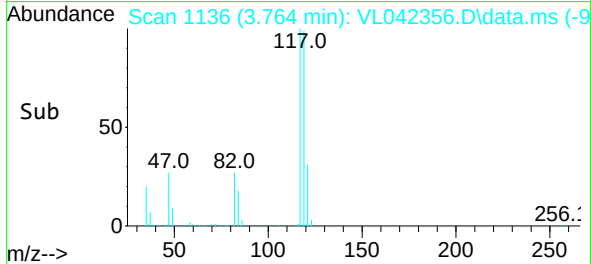
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



Tgt Ion:117 Resp: 271862  
Ion Ratio Lower Upper  
117 100  
119 98.7 80.5 120.7  
121 31.5 24.2 36.2

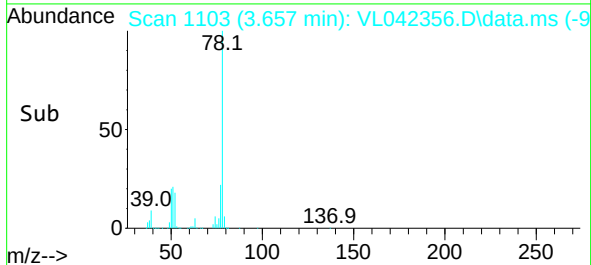
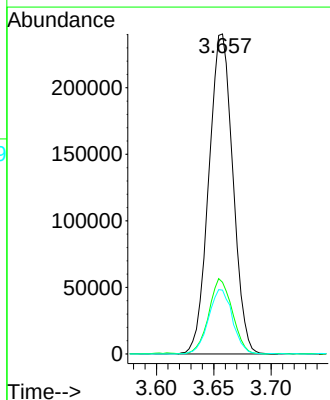
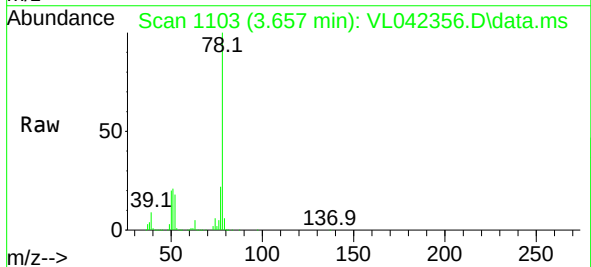
Manual Integrations  
APPROVED

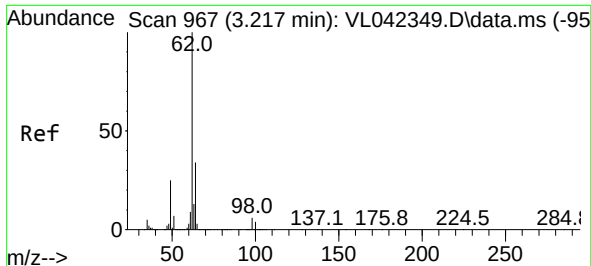
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#36  
Benzene  
Concen: 10.014 ppbv  
RT: 3.657 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

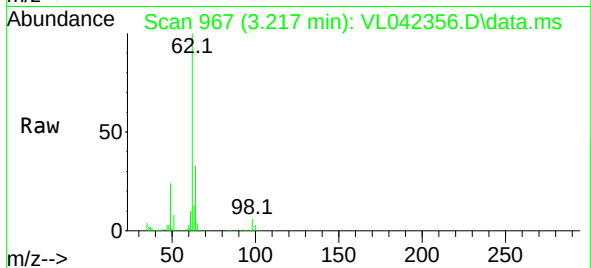
Tgt Ion: 78 Resp: 350545  
Ion Ratio Lower Upper  
78 100  
77 22.3 17.4 26.0  
50 19.9 15.5 23.3





#37  
1,2-Dichloroethane  
Concen: 10.081 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

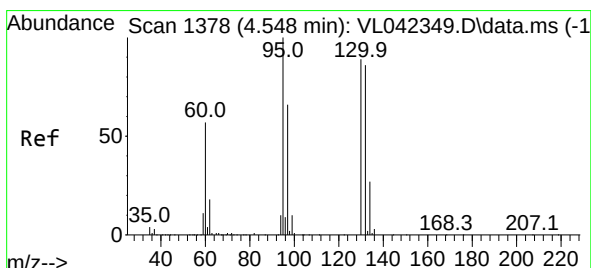
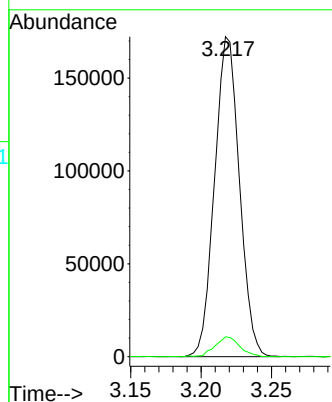
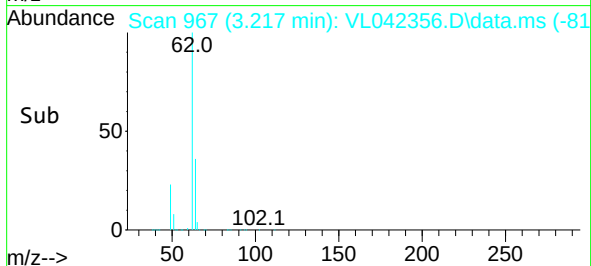
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725



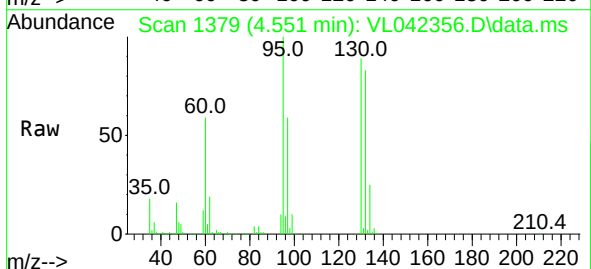
Tgt Ion: 62 Resp: 211790  
Ion Ratio Lower Upper  
62 100  
98 6.2 5.1 7.7

Manual Integrations  
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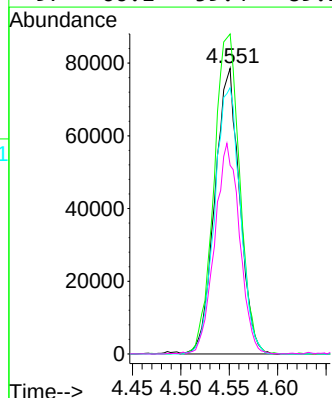
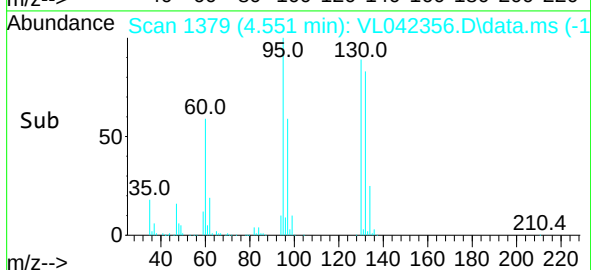
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

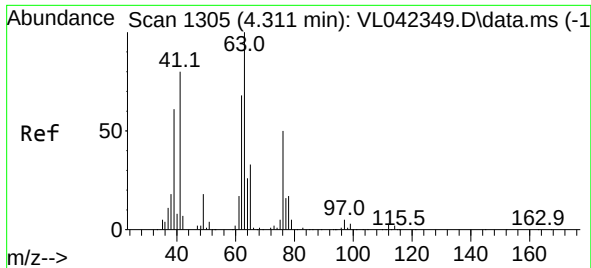


#38  
Trichloroethene  
Concen: 9.143 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



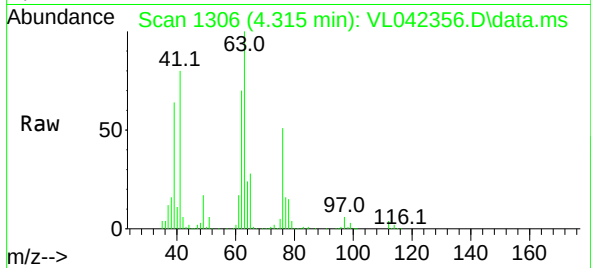
Tgt Ion:130 Resp: 139872  
Ion Ratio Lower Upper  
130 100  
95 112.0 89.8 134.6  
132 93.2 77.7 116.5  
97 66.1 59.4 89.2





#39  
1,2-Dichloropropane  
Concen: 9.908 ppbv  
RT: 4.315 min Scan# 1305  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

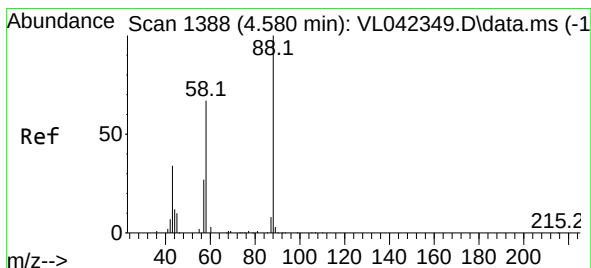
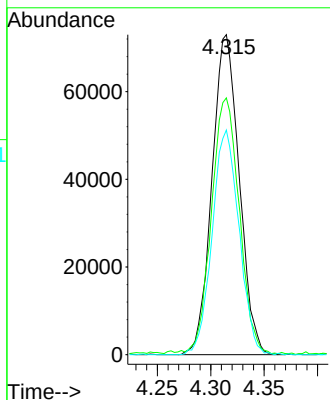
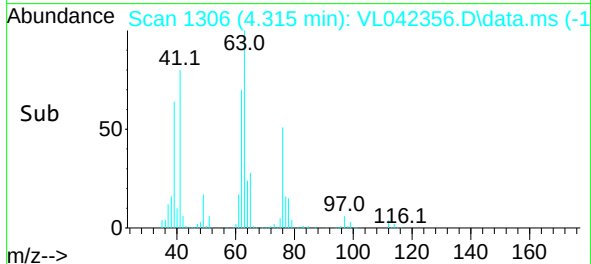
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725



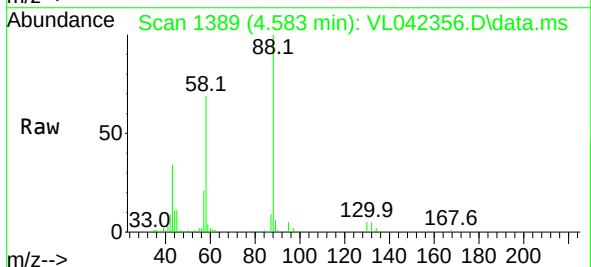
Tgt Ion: 63 Resp: 129239  
Ion Ratio Lower Upper  
63 100  
41 79.9 64.2 96.2  
62 70.2 54.3 81.5

Manual Integrations  
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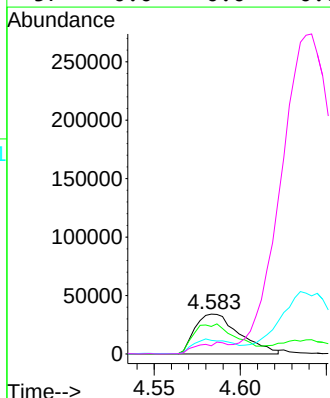
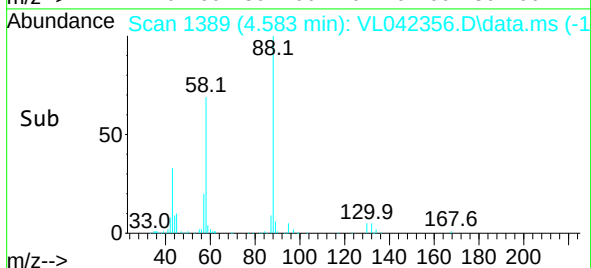
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



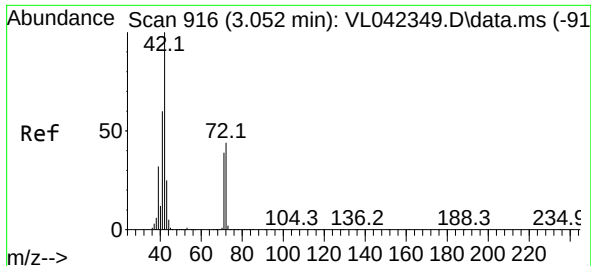
#40  
1,4-Dioxane  
Concen: 8.591 ppbv  
RT: 4.583 min Scan# 1389  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



Tgt Ion: 88 Resp: 61587  
Ion Ratio Lower Upper  
88 100  
58 76.1 61.4 92.0  
43 35.9 23.2 34.8#  
57 0.0 0.0 0.0

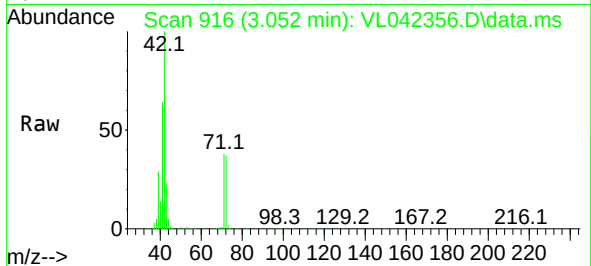






#41  
Tetrahydrofuran  
Concen: 9.479 ppbv  
RT: 3.052 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

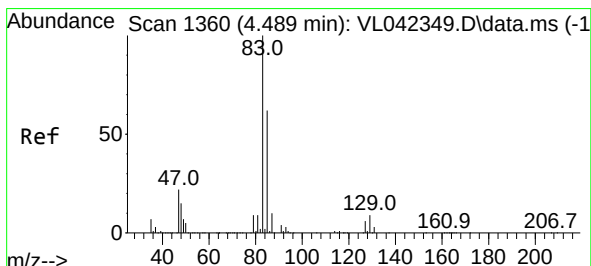
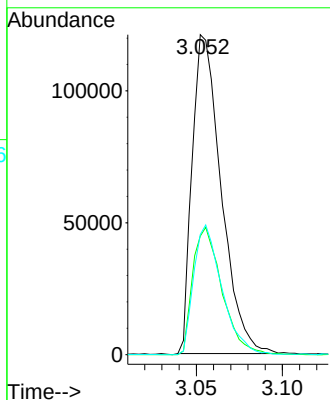
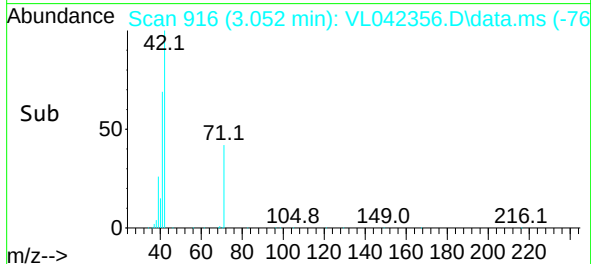
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



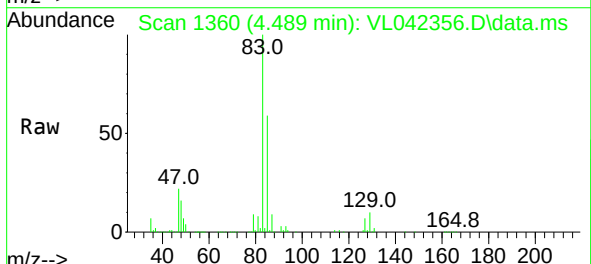
Tgt Ion: 42 Resp: 14186  
Ion Ratio Lower Upper  
42 100  
72 40.2 32.3 48.5  
71 39.8 31.4 47.2

Manual Integrations  
APPROVED

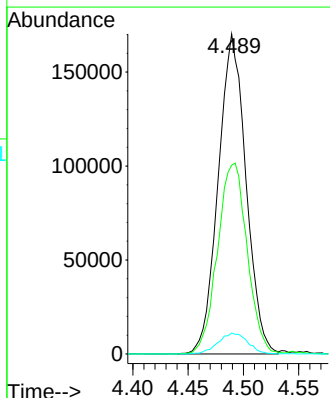
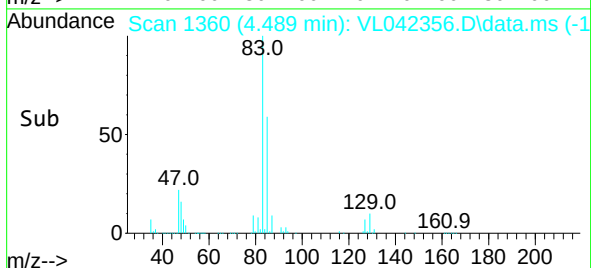
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

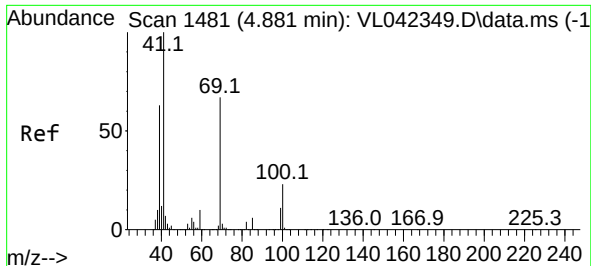


#42  
Bromodichloromethane  
Concen: 10.156 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



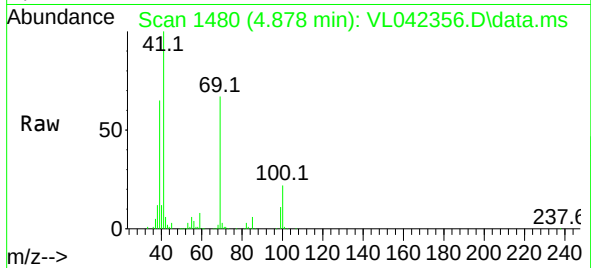
Tgt Ion: 83 Resp: 296946  
Ion Ratio Lower Upper  
83 100  
85 59.0 49.7 74.5  
127 6.6 5.1 7.7





#43  
Methyl Methacrylate  
Concen: 9.458 ppbv  
RT: 4.878 min Scan# 1481  
Delta R.T. -0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

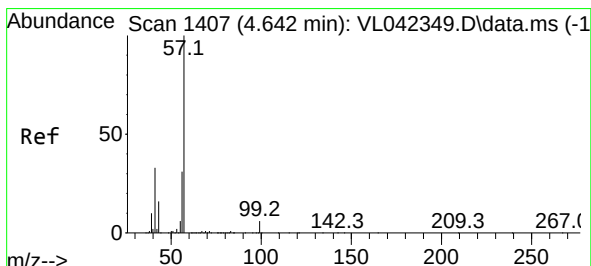
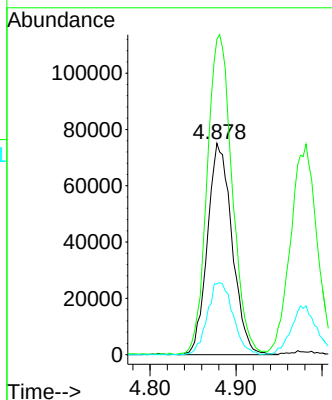
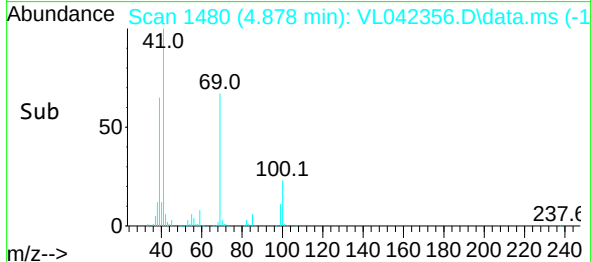
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



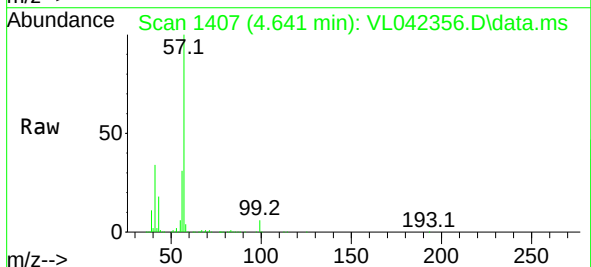
Tgt Ion: 69 Resp: 149209  
Ion Ratio Lower Upper  
69 100  
41 154.1 118.6 177.8  
100 35.5 28.2 42.2

Manual Integrations  
APPROVED

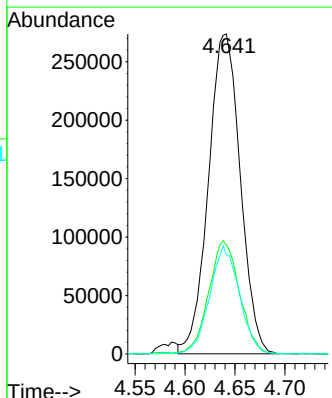
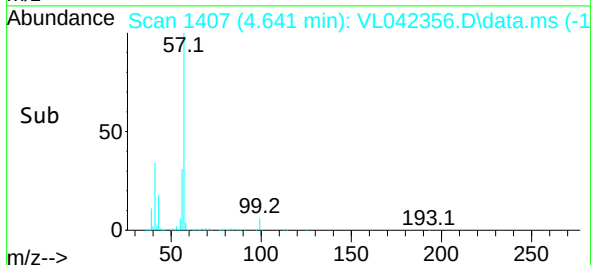
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

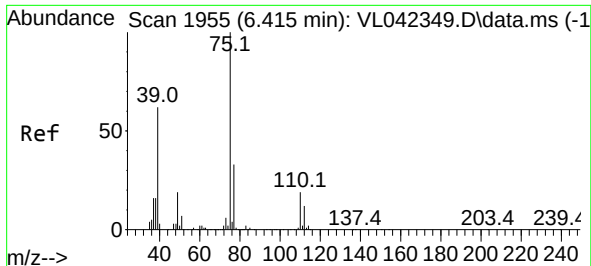


#44  
2,2,4-Trimethylpentane  
Concen: 10.030 ppbv  
RT: 4.641 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



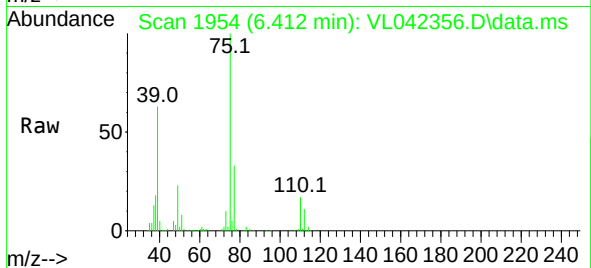
Tgt Ion: 57 Resp: 606376  
Ion Ratio Lower Upper  
57 100  
41 34.3 27.2 40.8  
56 31.6 25.7 38.5





#45  
 t-1,3-Dichloropropene  
 Concen: 9.975 ppbv  
 RT: 6.412 min Scan# 1954  
 Delta R.T. -0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

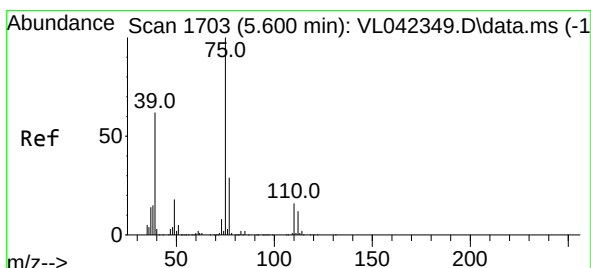
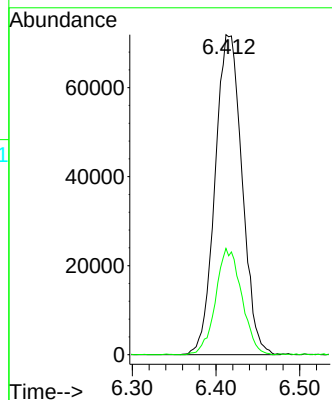
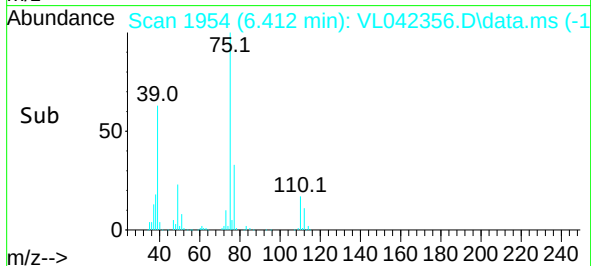
Instrument : MSVOA\_L  
 ClientSampleId : ICVVL041725



Tgt Ion: 75 Resp: 160750  
 Ion Ratio Lower Upper  
 75 100  
 77 33.2 27.0 40.6

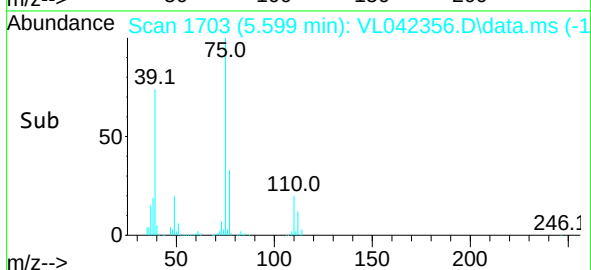
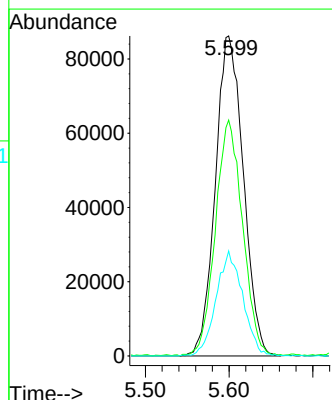
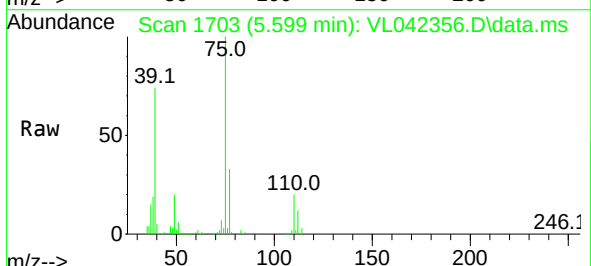
Manual Integrations  
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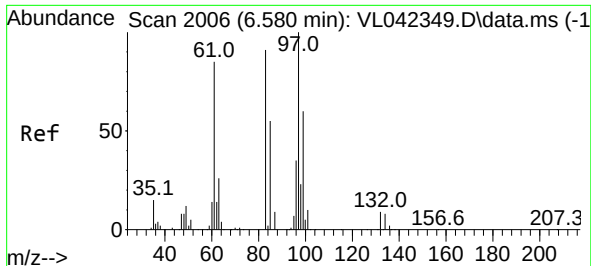
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.148 ppbv  
 RT: 5.599 min Scan# 1703  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 75 Resp: 200144  
 Ion Ratio Lower Upper  
 75 100  
 39 73.7 50.0 75.0  
 77 32.7 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 10.202 ppbv

RT: 6.583 min Scan# 2006

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

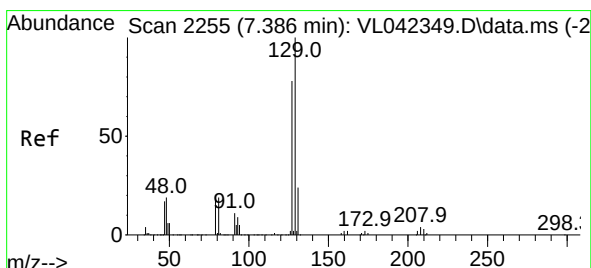
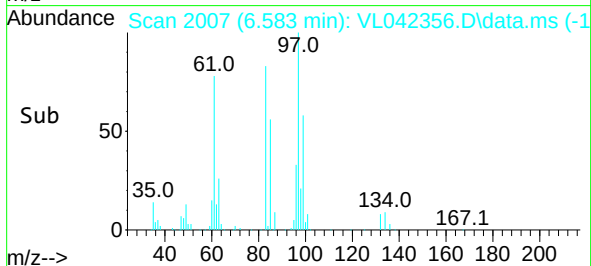
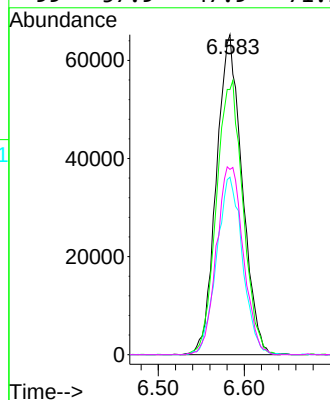
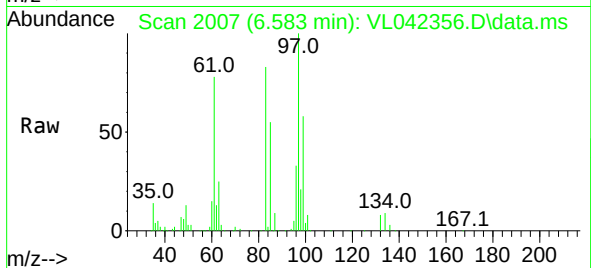
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 13557 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 82.8  | 72.8  | 109.2 |
| 85       | 55.5  | 44.2  | 66.4  |
| 99       | 57.9  | 47.9  | 71.9  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#48

Dibromochloromethane

Concen: 10.103 ppbv

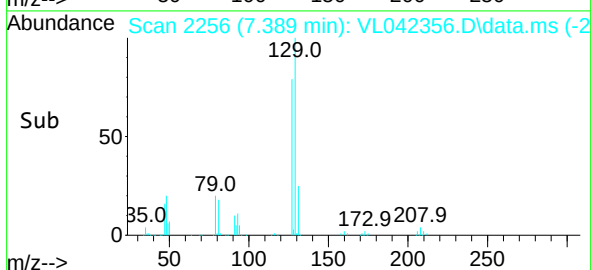
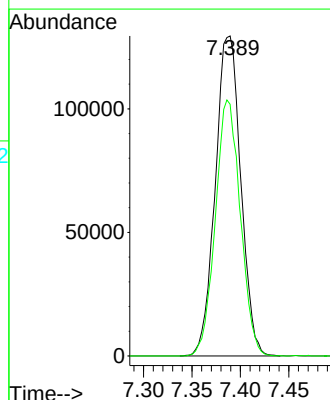
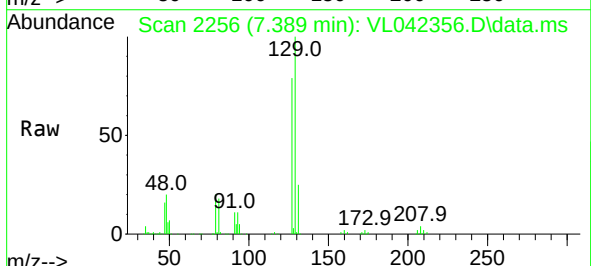
RT: 7.389 min Scan# 2256

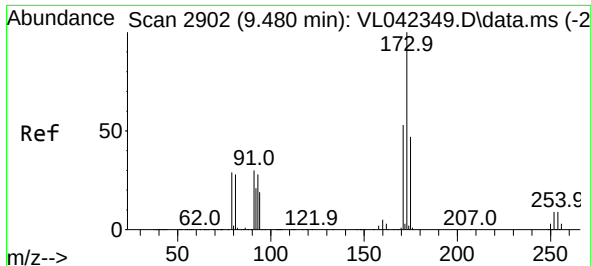
Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

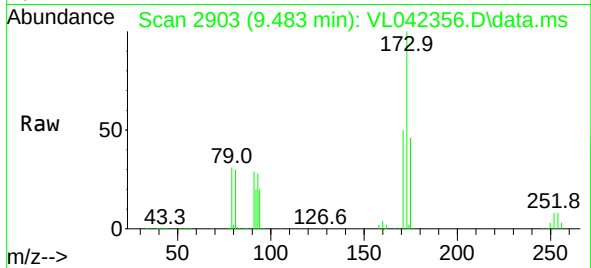
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 237206 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.4  | 39.1  | 117.3  |





#49  
Bromoform  
Concen: 10.016 ppbv  
RT: 9.483 min Scan# 2902  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

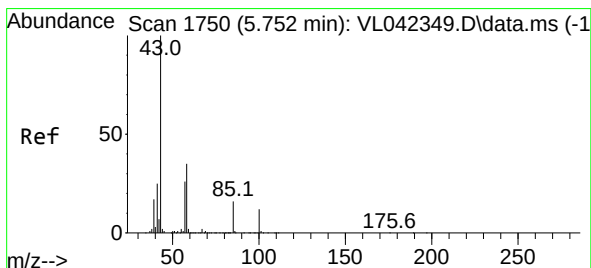
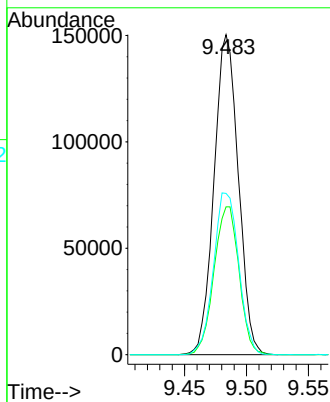
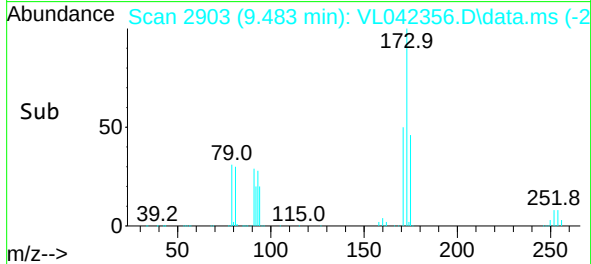
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725



Tgt Ion:173 Resp: 205630  
Ion Ratio Lower Upper  
173 100  
175 47.6 38.2 57.2  
171 52.5 40.9 61.3

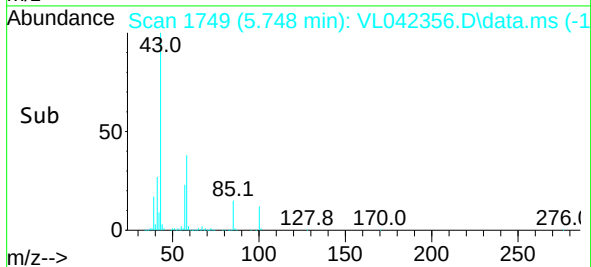
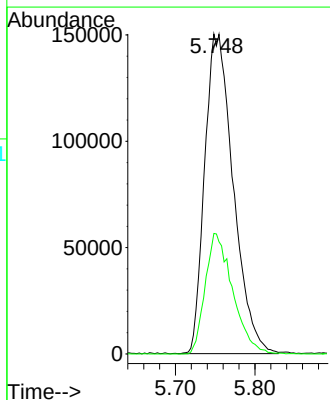
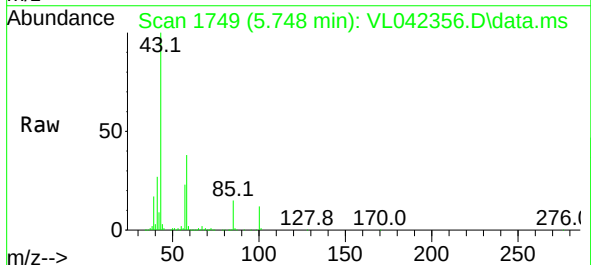
Manual Integrations  
APPROVED

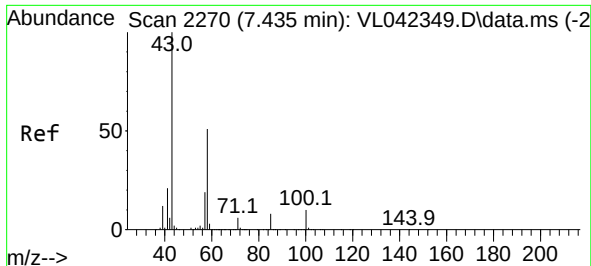
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#50  
4-Methyl-2-Pentanone  
Concen: 8.819 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. -0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

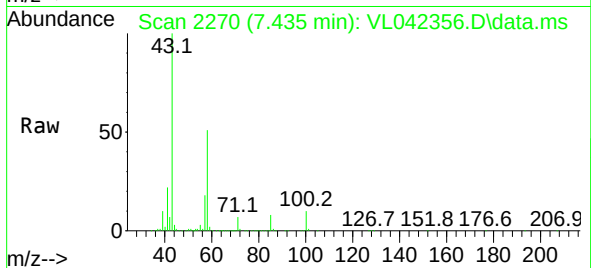
Tgt Ion: 43 Resp: 376145  
Ion Ratio Lower Upper  
43 100  
58 36.2 28.6 43.0





#51  
2-Hexanone  
Concen: 8.118 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

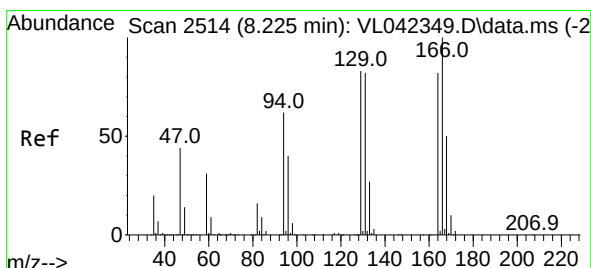
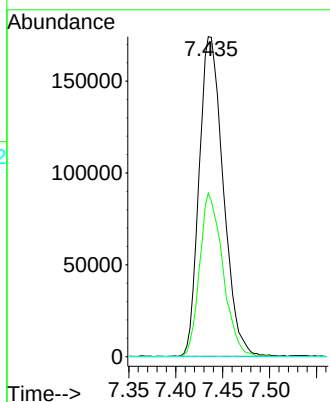
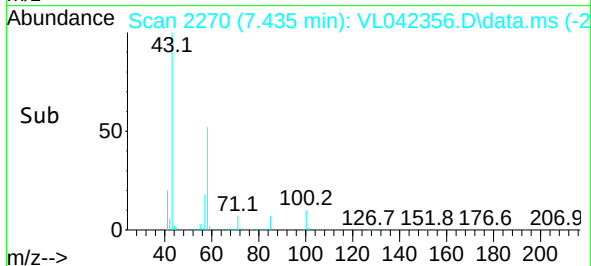
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



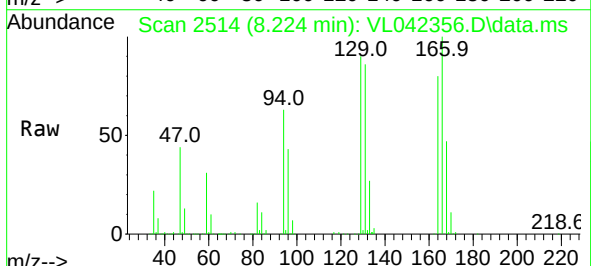
Tgt Ion: 43 Resp: 31052  
Ion Ratio Lower Upper  
43 100  
58 49.3 40.2 60.4  
98 0.0 0.1 0.1

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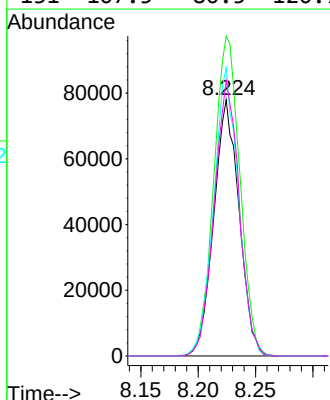
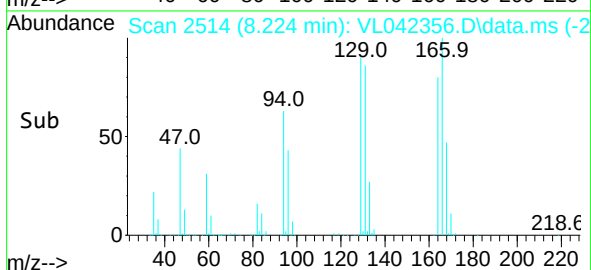
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

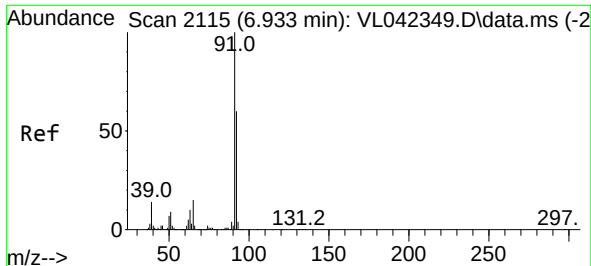


#52  
Tetrachloroethene  
Concen: 8.827 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



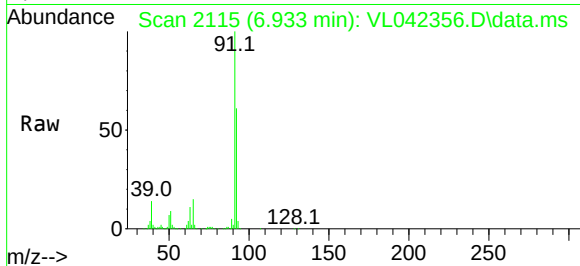
Tgt Ion:164 Resp: 119424  
Ion Ratio Lower Upper  
164 100  
166 124.9 98.2 147.2  
129 112.5 81.8 122.8  
131 107.5 80.5 120.7





#53  
Toluene  
Concen: 9.986 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

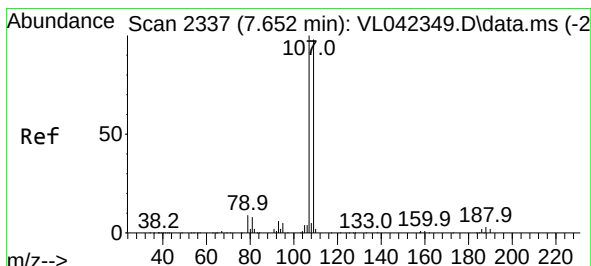
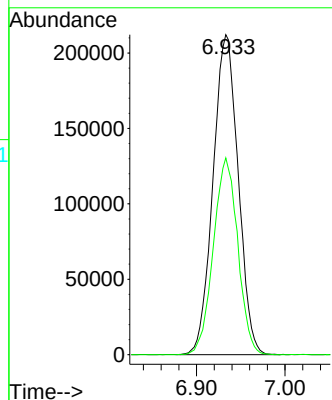
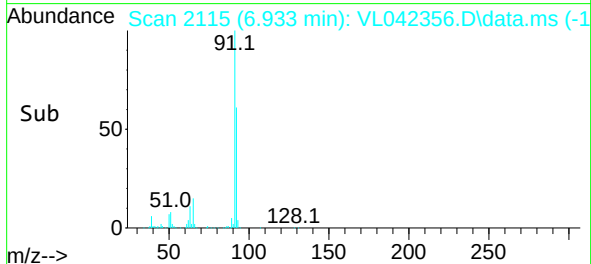
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



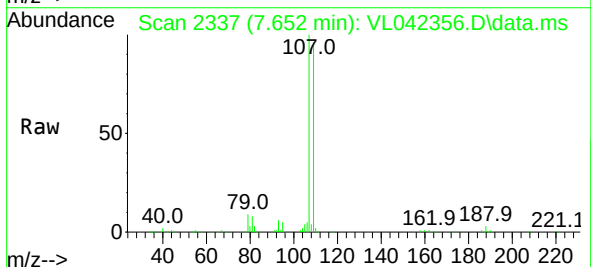
Tgt Ion: 91 Resp: 419462  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.2 72.4

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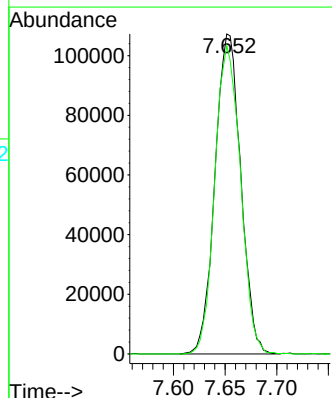
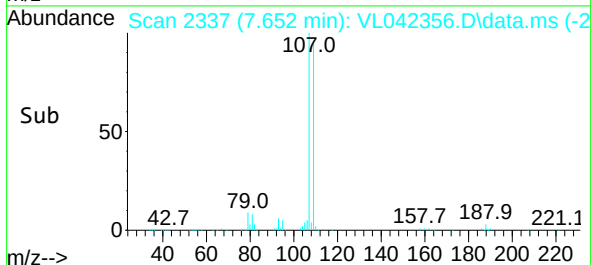
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

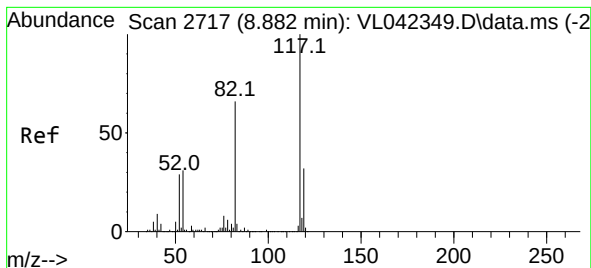


#54  
1,2-Dibromoethane  
Concen: 9.792 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



Tgt Ion:107 Resp: 186231  
Ion Ratio Lower Upper  
107 100  
109 96.3 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

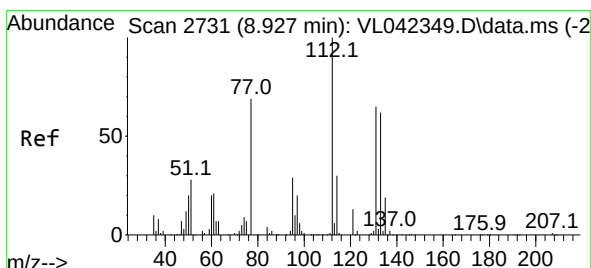
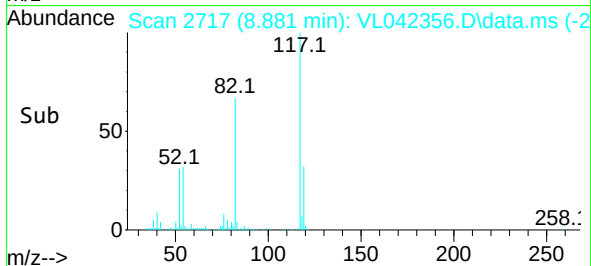
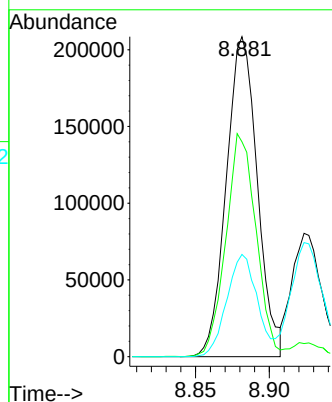
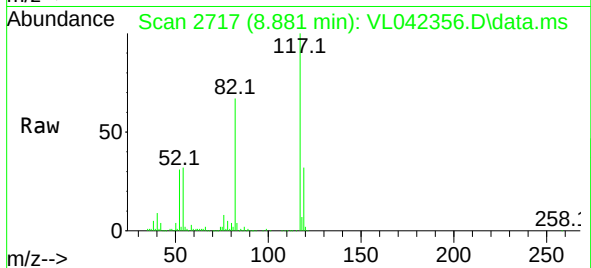
ICVVL041725

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 30535 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 68.3  | 57.8  | 86.6  |
| 119       | 31.8  | 25.2  | 37.8  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.886 ppbv

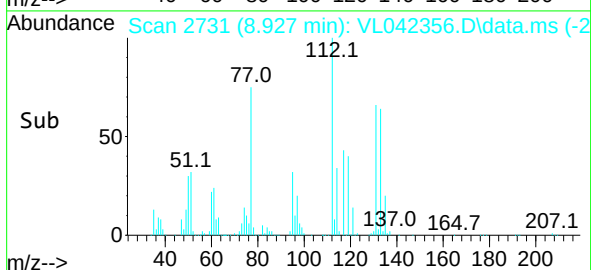
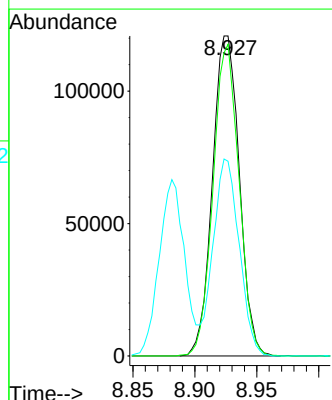
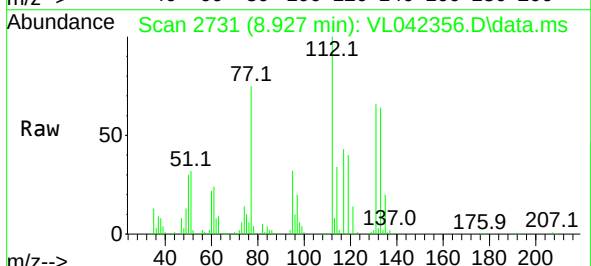
RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

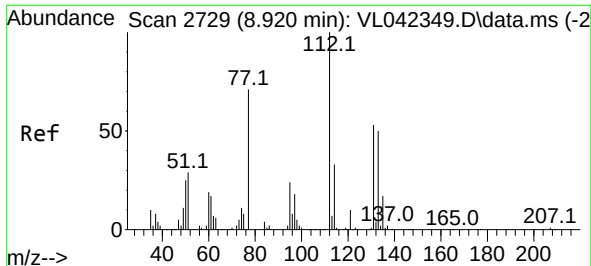
Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 131   | Resp: | 182712 |
| Ion Ratio | Lower | Upper |        |
| 131       | 100   |       |        |
| 133       | 93.9  | 78.3  | 117.5  |
| 119       | 59.4  | 48.7  | 73.1   |

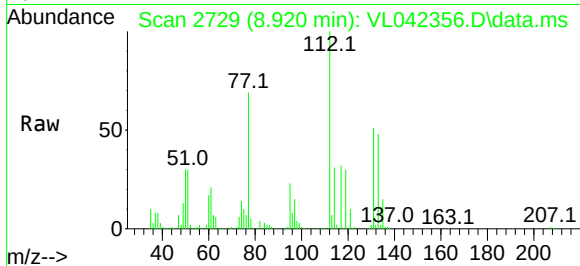






#57  
Chlorobenzene  
Concen: 9.589 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

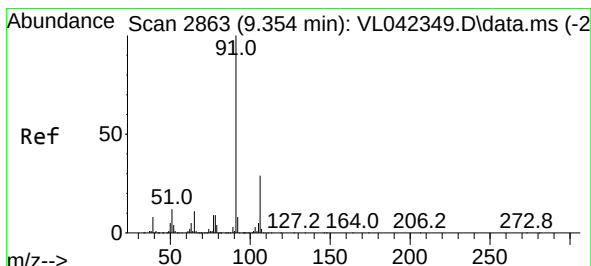
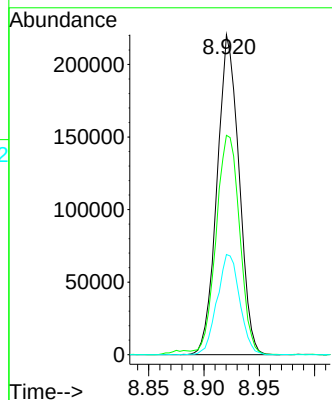
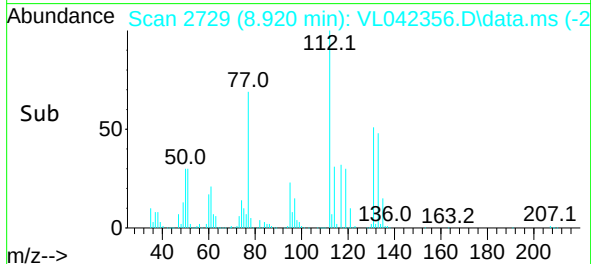
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



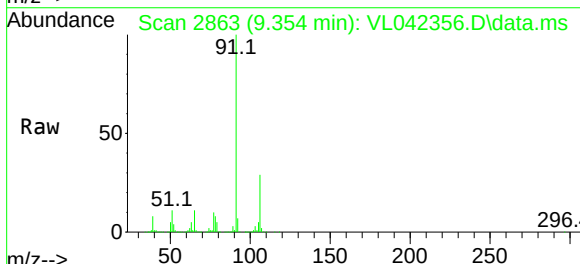
Tgt Ion: 112 Resp: 30453  
Ion Ratio Lower Upper  
112 100  
77 68.5 57.8 86.6  
114 31.3 29.3 35.9

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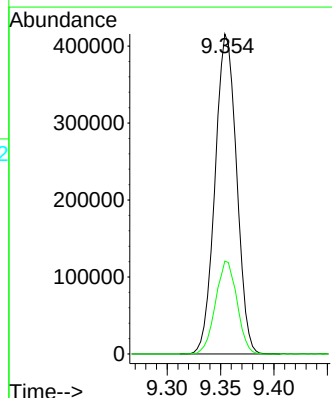
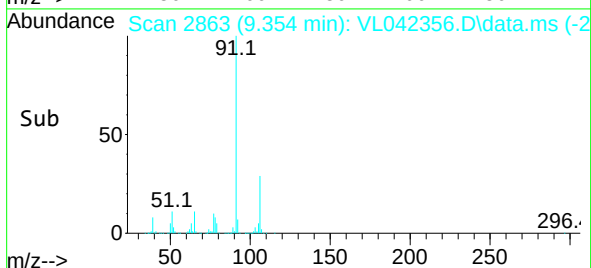
Reviewed By : Semsettin Yesilyurt 04/18/2025  
Supervised By : Mahesh Dadoda 04/18/2025

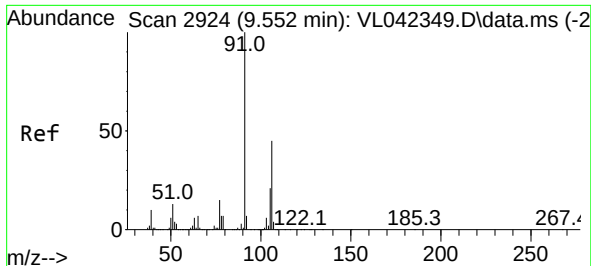


#58  
Ethyl Benzene  
Concen: 9.645 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



Tgt Ion: 91 Resp: 583515  
Ion Ratio Lower Upper  
91 100  
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 19.139 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.020 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

Tgt Ion: 91 Resp: 93280

Ion Ratio Lower Upper

91 100

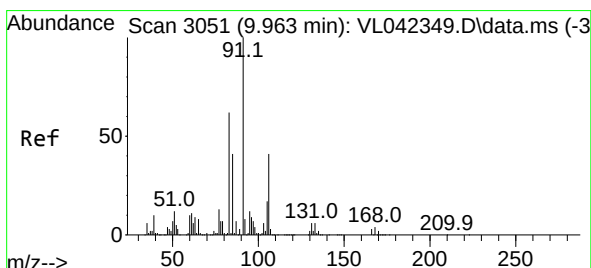
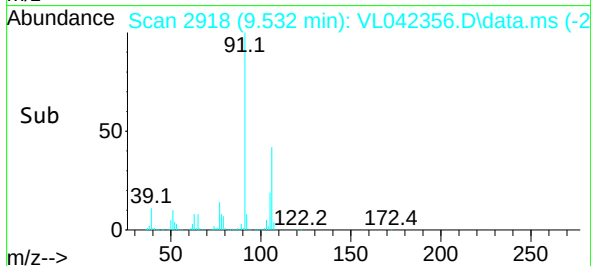
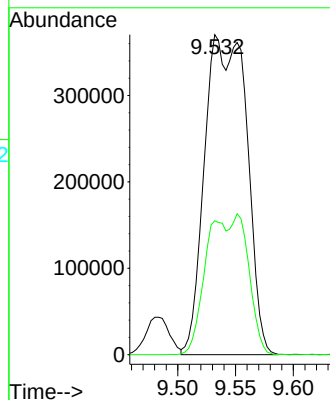
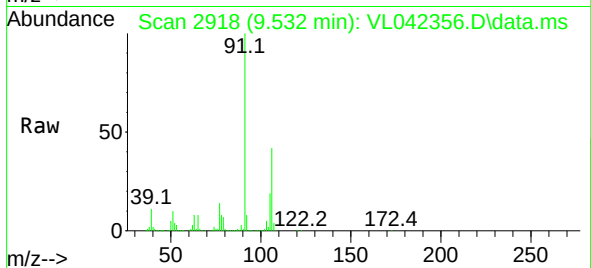
106 43.7 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

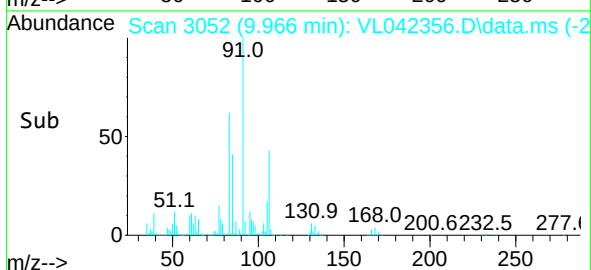
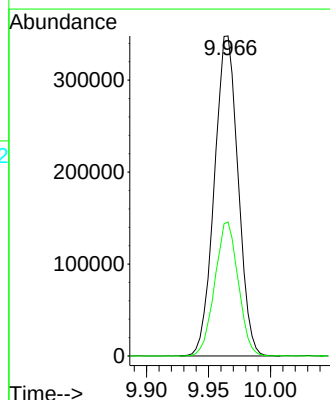
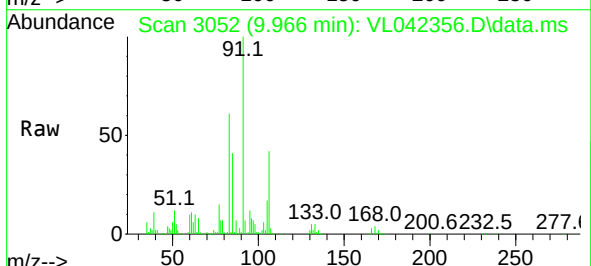
Acq: 17 Apr 2025 13:43

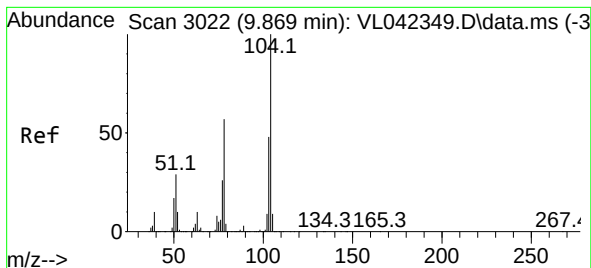
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 9.813 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

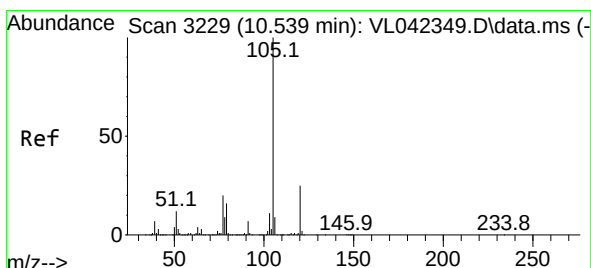
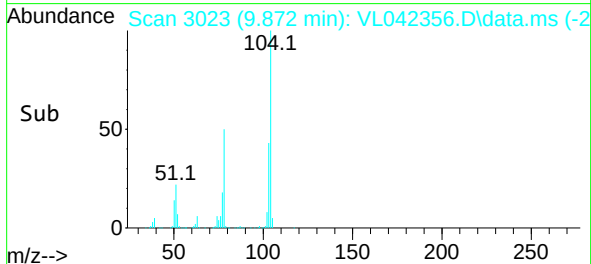
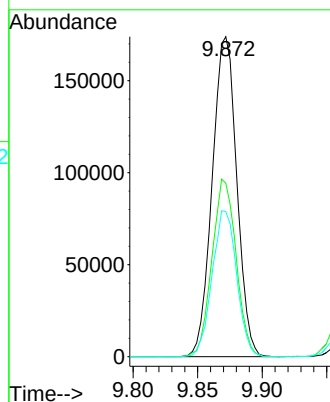
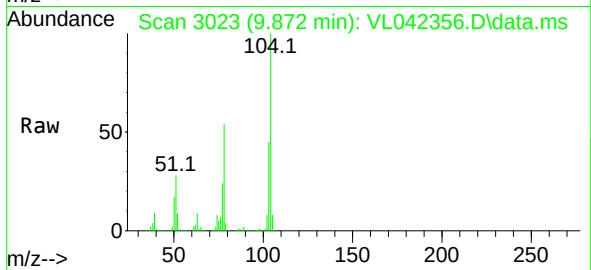
ICVVL041725

Tgt Ion:104 Resp: 229865  
 Ion Ratio Lower Upper  
 104 100  
 78 54.5 44.6 66.8  
 103 45.7 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#62

Isopropylbenzene

Concen: 9.520 ppbv

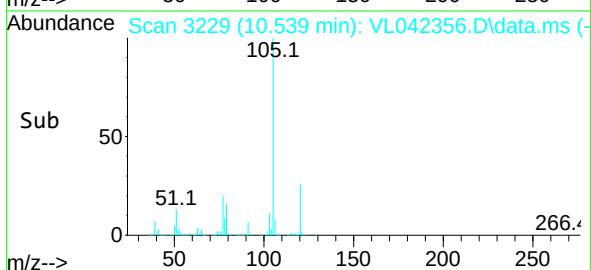
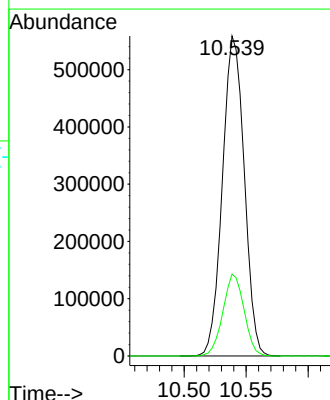
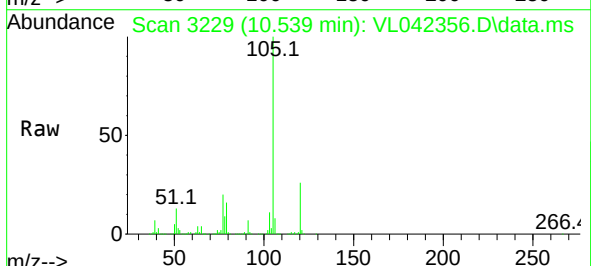
RT: 10.539 min Scan# 3229

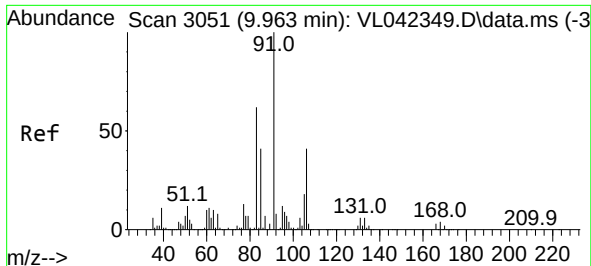
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

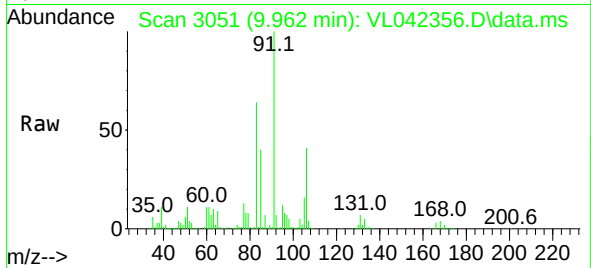
Tgt Ion:105 Resp: 685965  
 Ion Ratio Lower Upper  
 105 100  
 120 24.8 19.8 29.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.773 ppbv  
RT: 9.962 min Scan# 3051  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

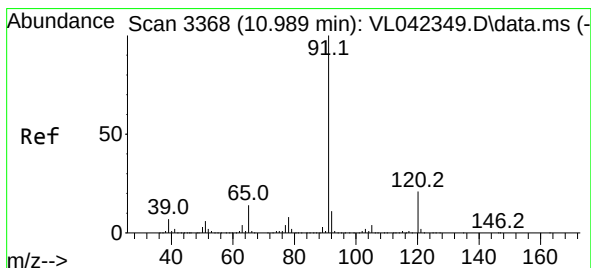
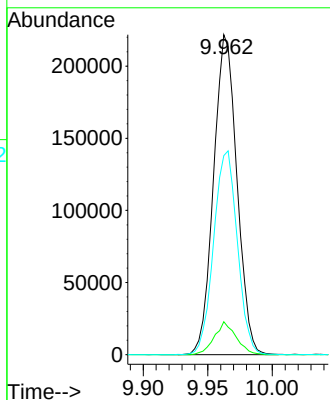
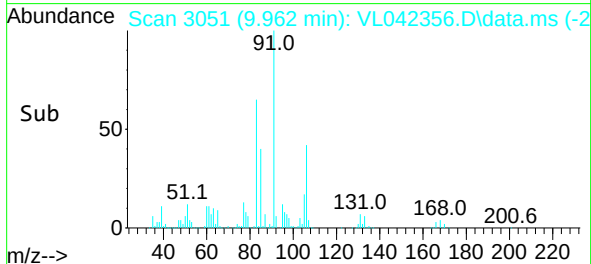
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



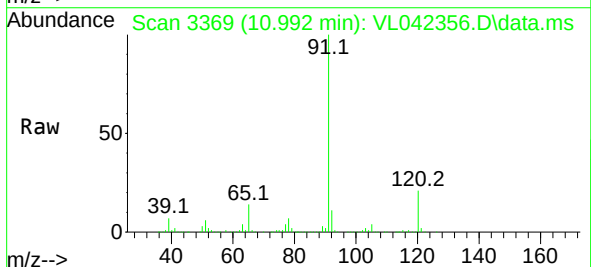
Tgt Ion: 83 Resp: 27900  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.5 13.7  
85 64.6 32.4 97.0

Manual Integrations  
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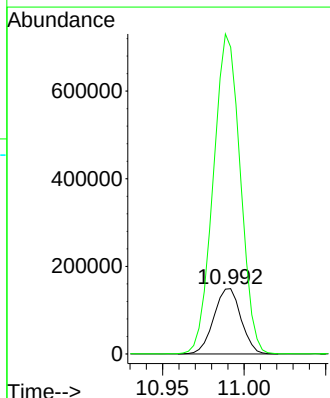
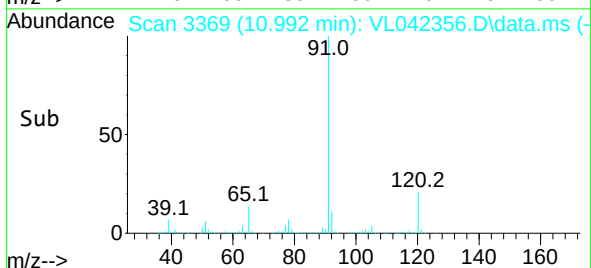
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

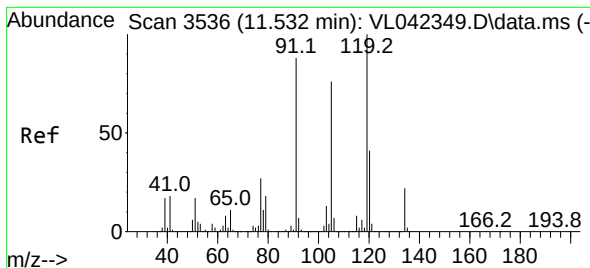


#64  
n-propylbenzene  
Concen: 9.533 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



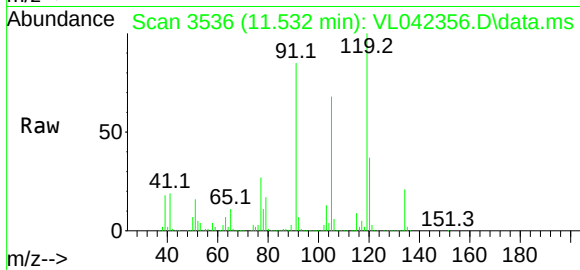
Tgt Ion:120 Resp: 172654  
Ion Ratio Lower Upper  
120 100  
91 487.7 392.4 588.6





#65  
tert-Butylbenzene  
Concen: 9.203 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

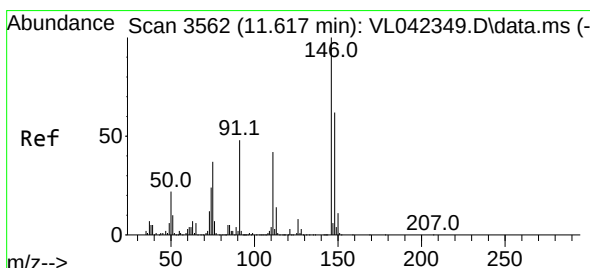
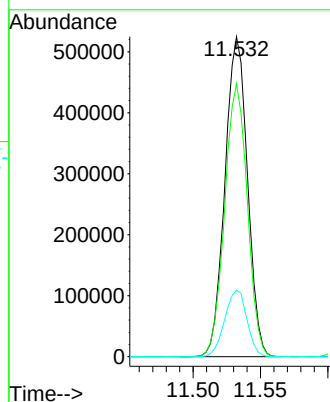
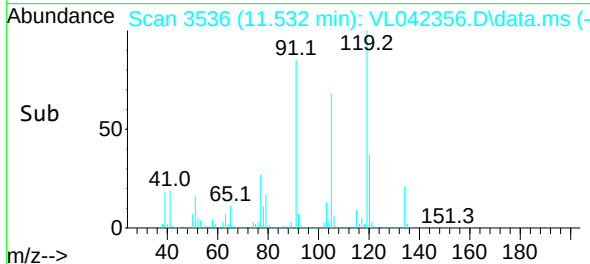
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



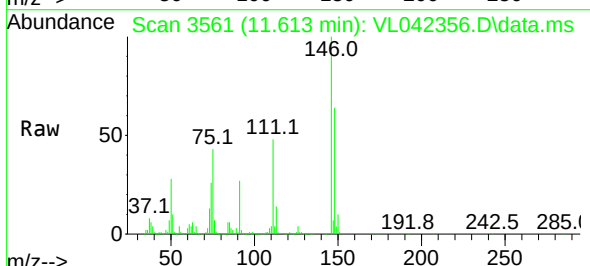
Tgt Ion: 119 Resp: 609500  
Ion Ratio Lower Upper  
119 100  
91 85.8 74.6 111.8  
134 20.5 18.8 28.2

Manual Integrations  
APPROVED

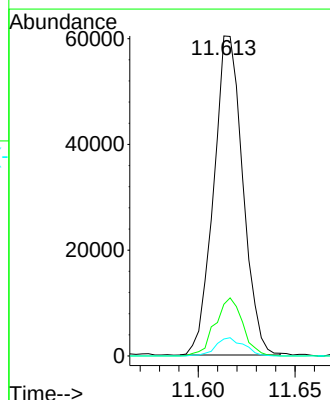
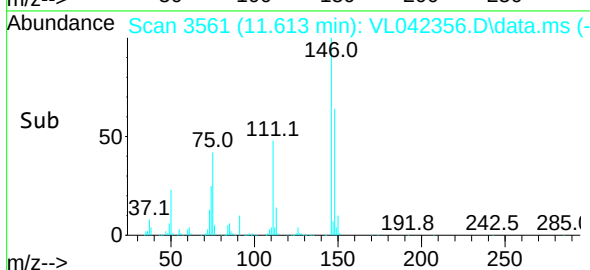
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

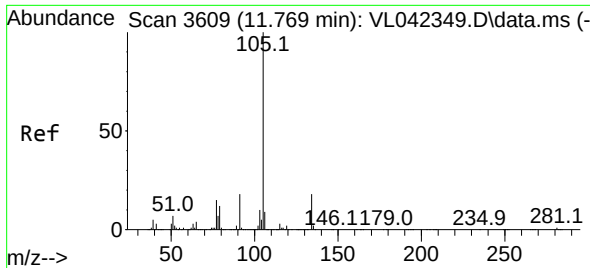


#66  
Benzyl Chloride  
Concen: 8.664 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. -0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



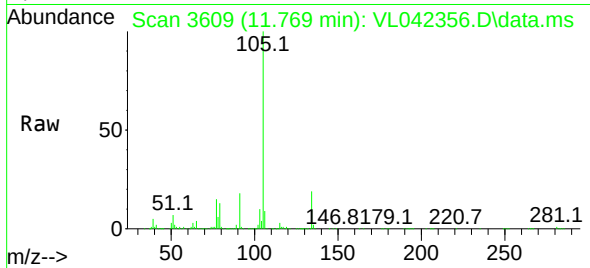
Tgt Ion: 91 Resp: 63051  
Ion Ratio Lower Upper  
91 100  
126 17.3 11.8 17.6  
128 5.6 4.5 6.7





#67  
 sec-Butylbenzene  
 Concen: 9.268 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

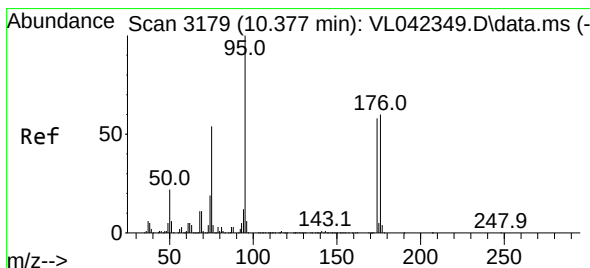
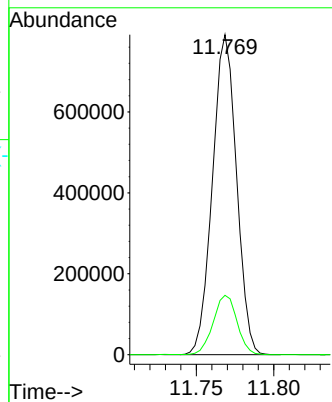
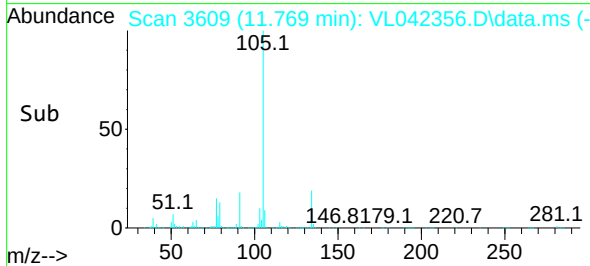
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725



Tgt Ion:105 Resp: 85380  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 14.6 21.8

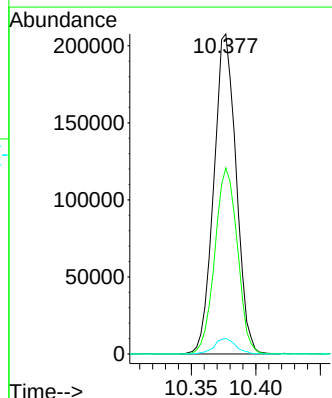
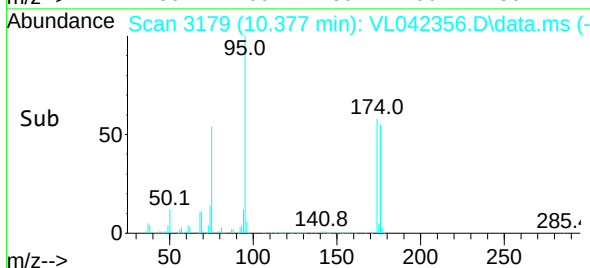
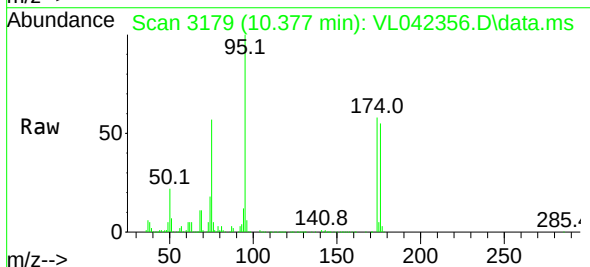
### Manual Integrations APPROVED

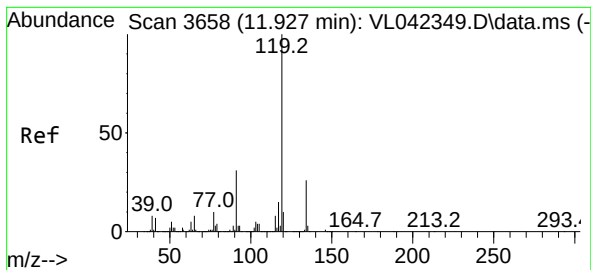
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.969 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

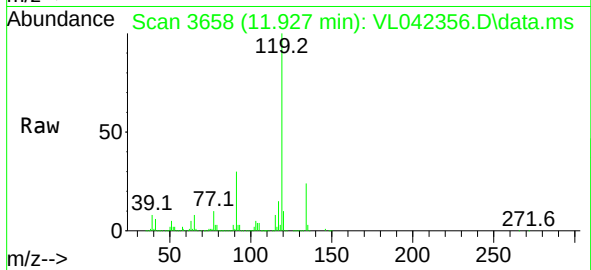
Tgt Ion: 95 Resp: 250149  
 Ion Ratio Lower Upper  
 95 100  
 174 58.7 48.5 72.7  
 175 4.7 3.7 5.5





#69  
 p-Isopropyltoluene  
 Concen: 9.220 ppbv  
 RT: 11.927 min Scan# 3658  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

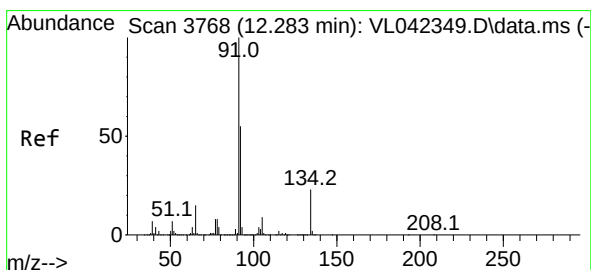
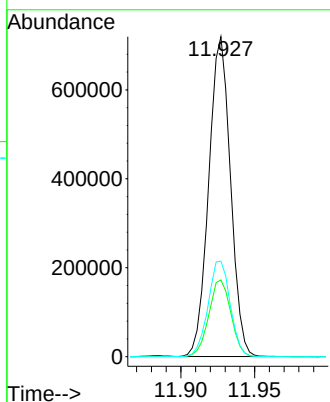
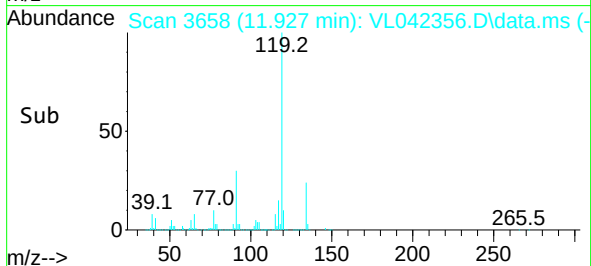
Instrument : MSVOA\_L  
 ClientSampleId : ICVVL041725



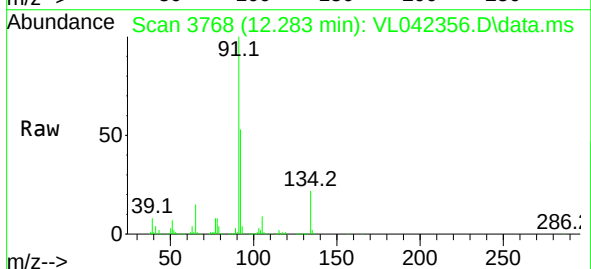
Tgt Ion: 119 Resp: 737861  
 Ion Ratio Lower Upper  
 119 100  
 134 24.5 20.0 30.0  
 91 30.6 24.4 36.6

Manual Integrations  
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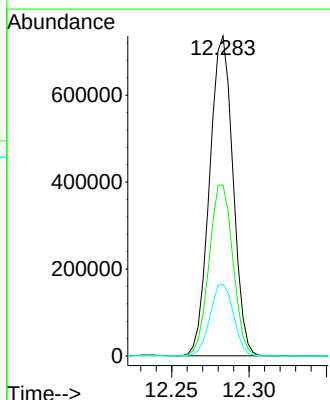
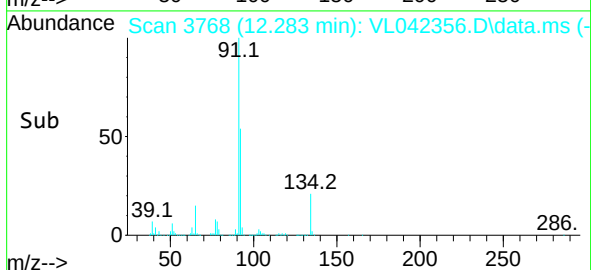
Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

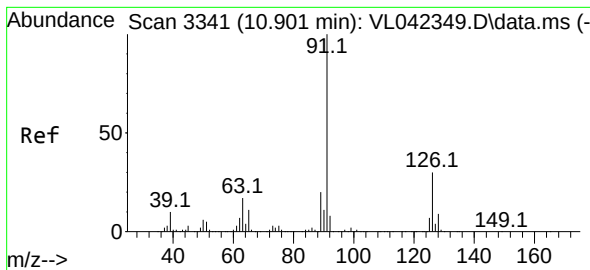


#70  
 n-Butylbenzene  
 Concen: 9.255 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43



Tgt Ion: 91 Resp: 771461  
 Ion Ratio Lower Upper  
 91 100  
 92 54.9 44.2 66.4  
 134 22.7 18.2 27.4





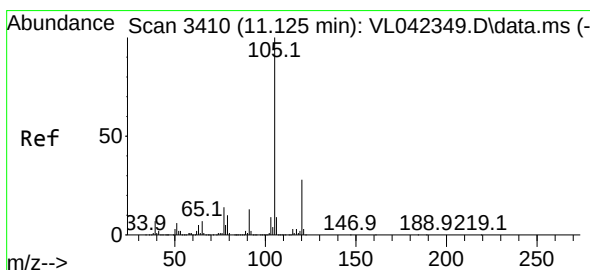
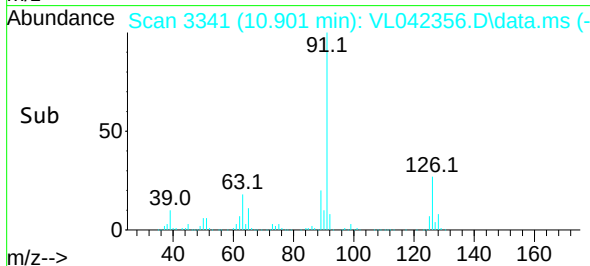
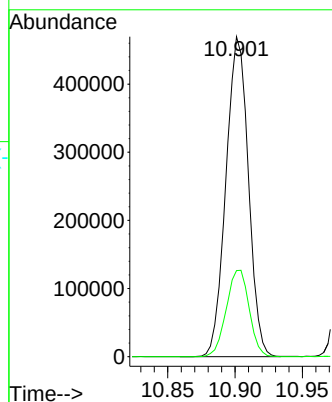
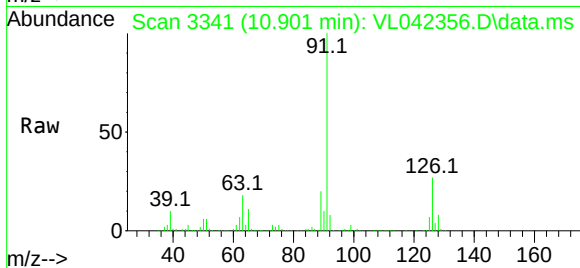
#71  
2-Chlorotoluene  
Concen: 9.622 ppbv  
RT: 10.901 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

Tgt Ion: 91 Resp: 543794  
Ion Ratio Lower Upper  
91 100  
126 27.5 11.4 45.4

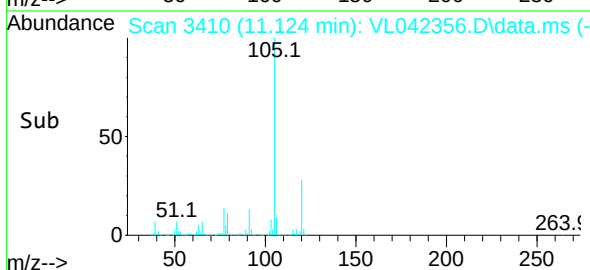
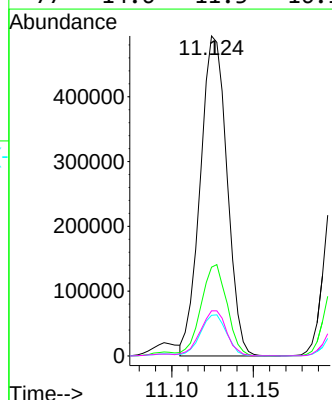
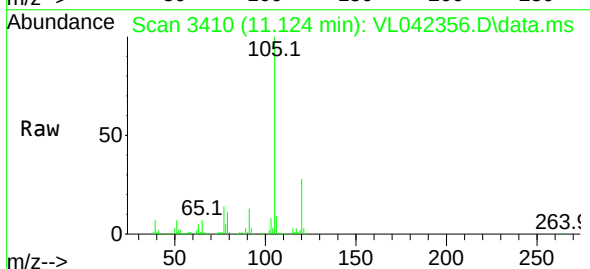
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

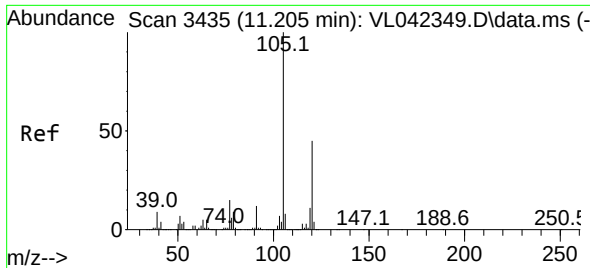


#72  
4-Ethyltoluene  
Concen: 9.385 ppbv  
RT: 11.124 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 563136  
Ion Ratio Lower Upper  
105 100  
120 28.9 23.2 34.8  
91 13.2 10.4 15.6  
77 14.6 11.3 16.9







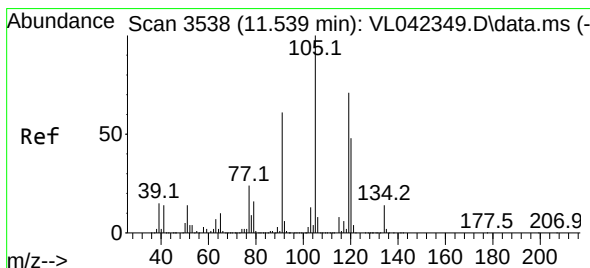
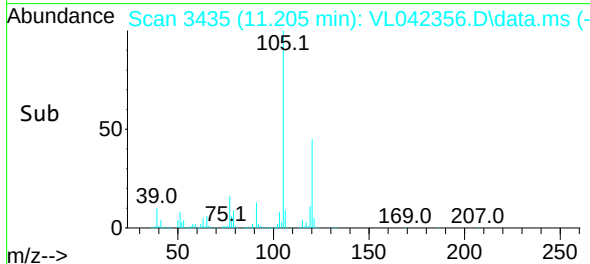
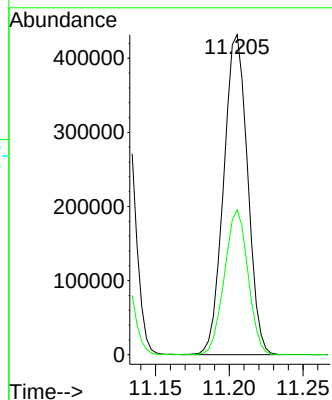
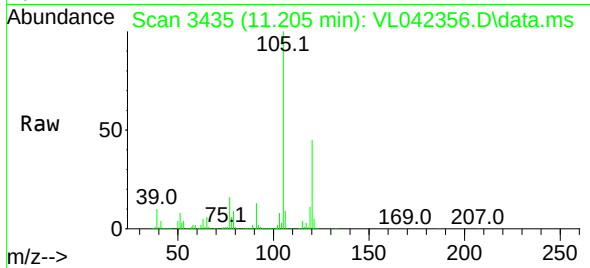
#73  
1,3,5-Trimethylbenzene  
Concen: 9.186 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725

Tgt Ion:105 Resp: 48658  
Ion Ratio Lower Upper  
105 100  
120 45.2 35.6 53.4

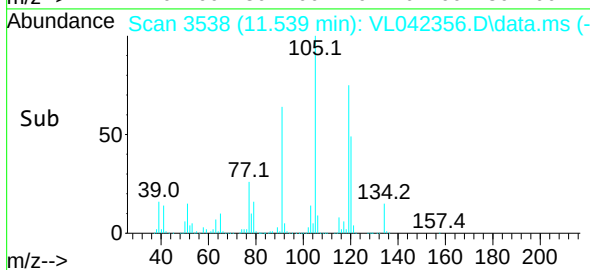
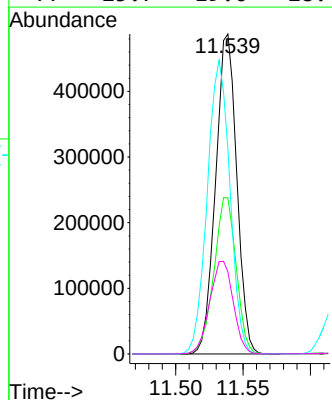
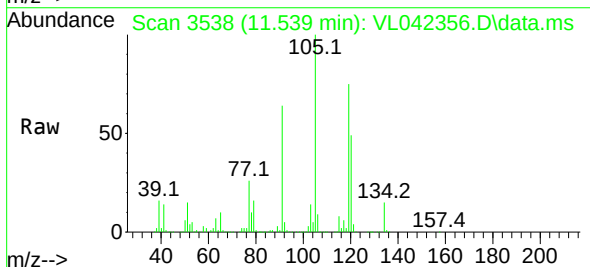
Manual Integrations  
APPROVED

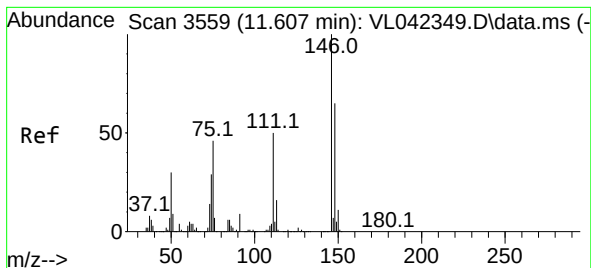
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#74  
1,2,4-Trimethylbenzene  
Concen: 8.592 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576  
Ion Ratio Lower Upper  
105 100  
120 48.7 38.1 57.1  
91 64.0 48.8 73.2  
77 25.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 9.240 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

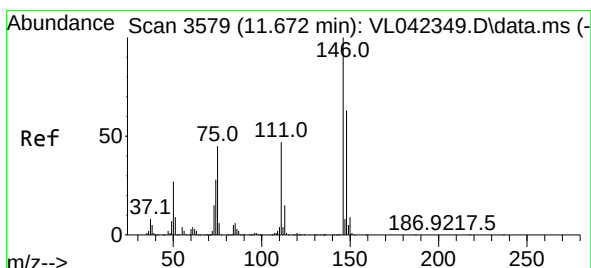
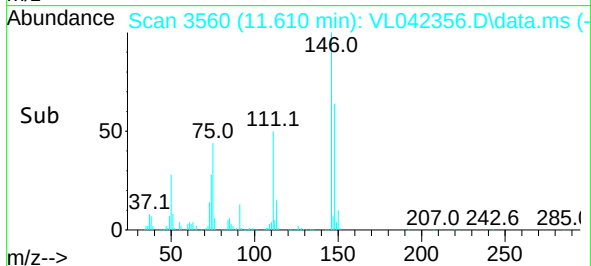
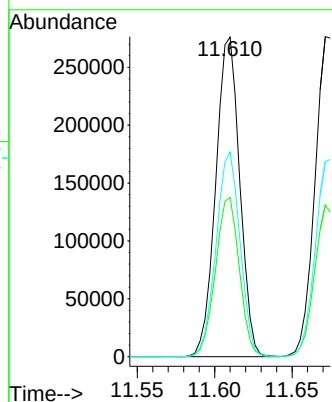
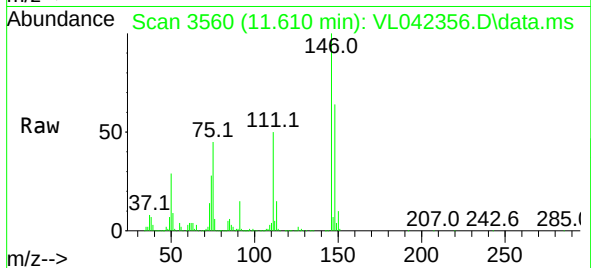
ICVVL041725

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 29715 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 49.5  | 24.3  | 72.8  |
| 148      | 64.1  | 31.6  | 94.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 9.210 ppbv

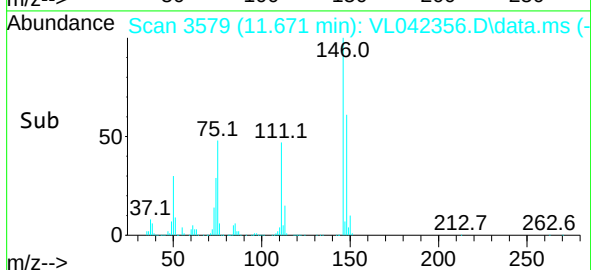
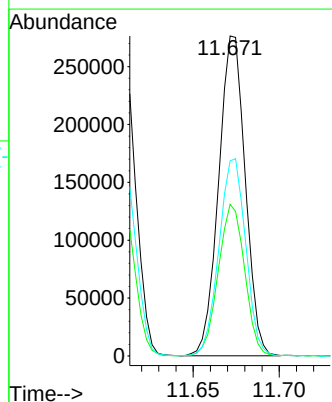
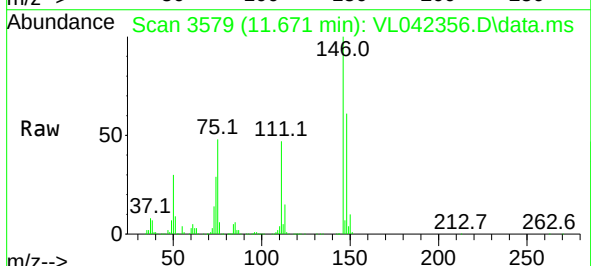
RT: 11.671 min Scan# 3579

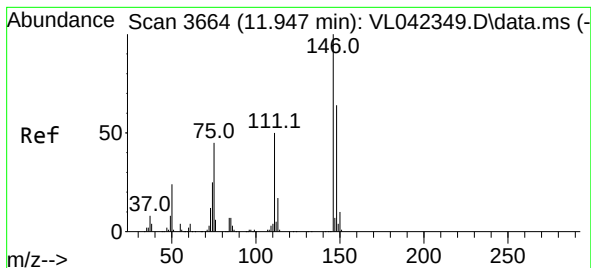
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 297697 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 47.1  | 24.2  | 72.6   |
| 148      | 62.3  | 32.1  | 96.5   |





#77

1,2-Dichlorobenzene

Concen: 9.251 ppbv

RT: 11.950 min Scan# 3665

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

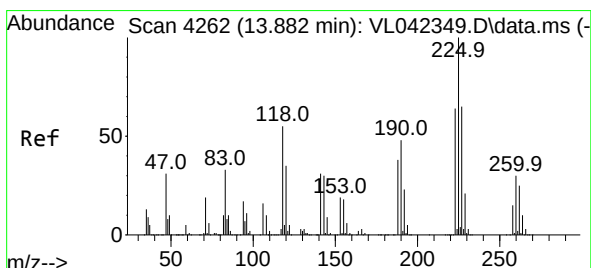
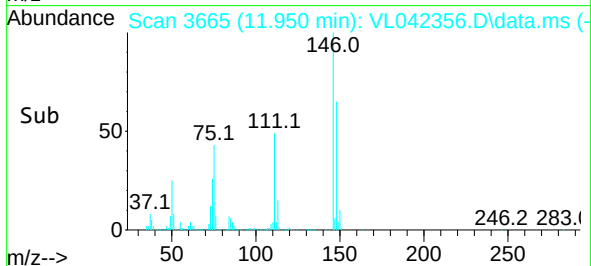
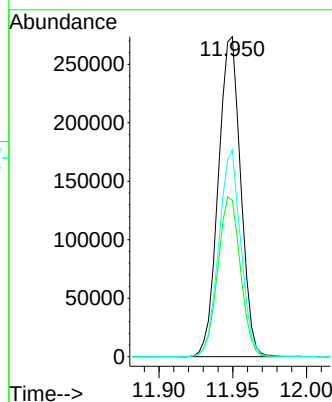
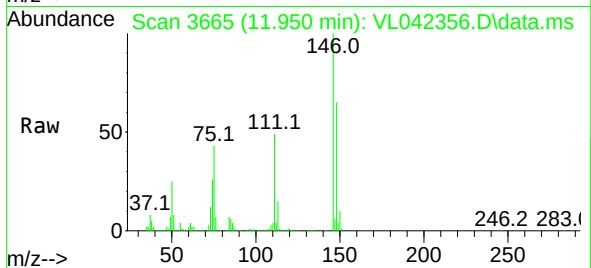
ICVVL041725

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 289284 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 50.8  | 25.3  | 75.9   |
| 148       | 63.4  | 31.5  | 94.5   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.771 ppbv

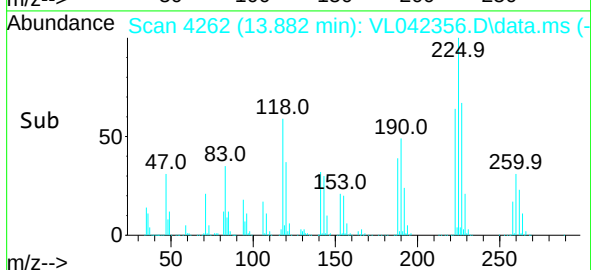
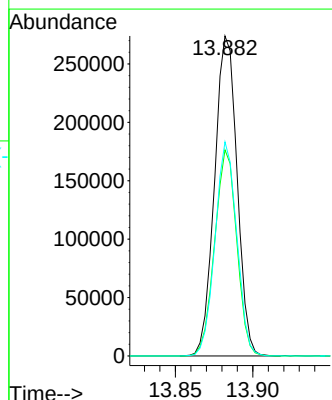
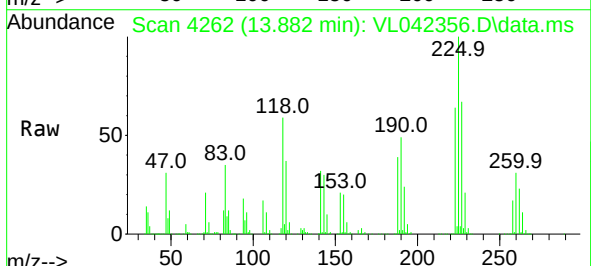
RT: 13.882 min Scan# 4262

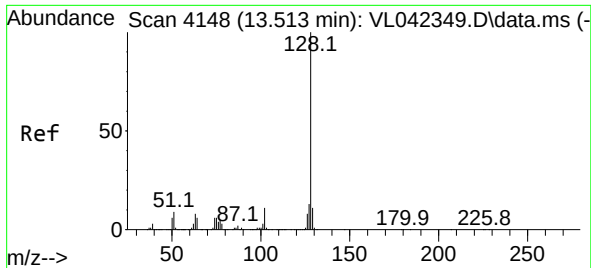
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

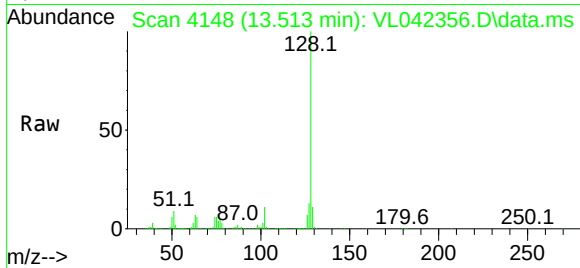
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 276960 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.0  | 50.3  | 75.5   |
| 227       | 64.5  | 51.5  | 77.3   |





#79  
Naphthalene  
Concen: 8.750 ppbv  
RT: 13.513 min Scan# 4148  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

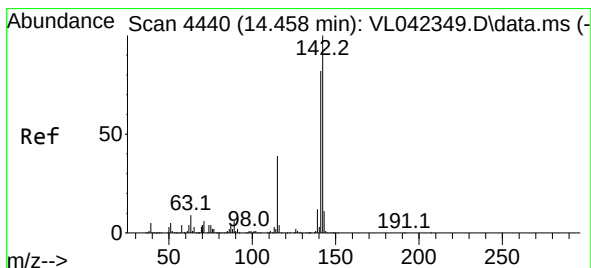
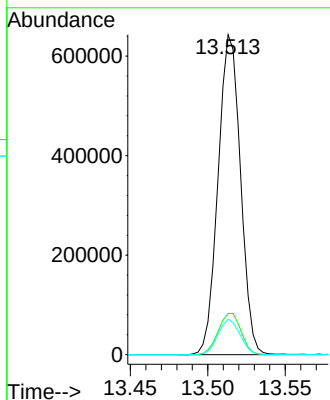
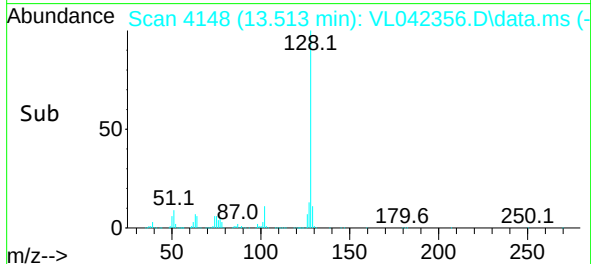
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725



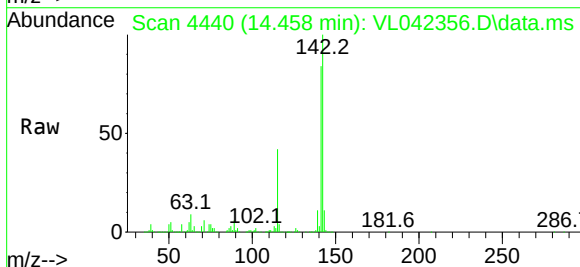
Tgt Ion:128 Resp: 647349  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.6 15.8  
129 11.1 8.6 12.8

Manual Integrations  
APPROVED

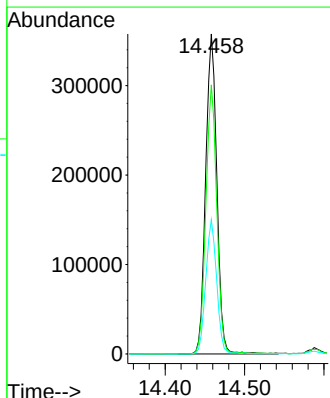
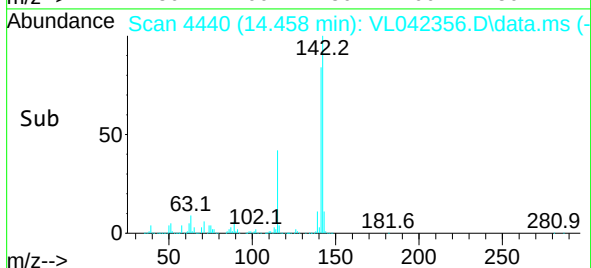
Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

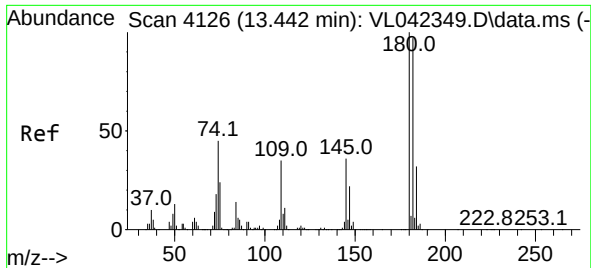


#80  
Naphthalene,2-methyl-  
Concen: 8.307 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43



Tgt Ion:142 Resp: 350259  
Ion Ratio Lower Upper  
142 100  
141 83.0 66.8 100.2  
115 41.4 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.136 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

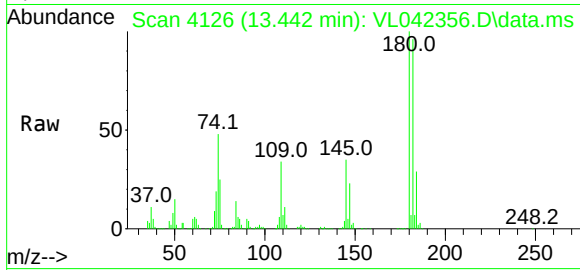
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725



Tgt Ion:180 Resp: 290260

Ion Ratio Lower Upper

180 100

182 94.7 76.8 115.2

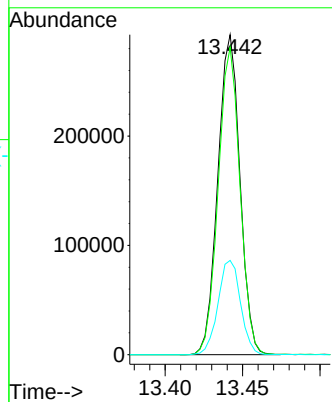
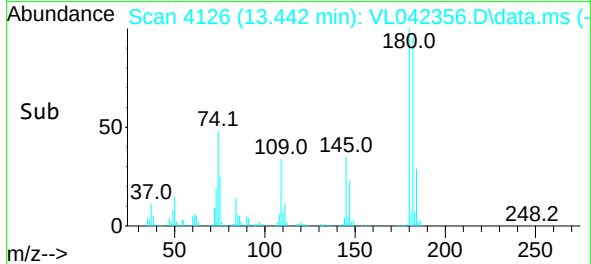
184 30.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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   | 91    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.767 | 1.734  | 1.9   | 95    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.682 | 1.676  | 0.4   | 97    | 0.00     |
| 4    | Chloromethane               | 0.699 | 0.685  | 2.0   | 95    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.761 | 0.663  | 12.9  | 94    | 0.00     |
| 6 T  | Bromomethane                | 0.327 | 0.308  | 5.8   | 92    | 0.00     |
| 7    | Chloroethane                | 0.275 | 0.265  | 3.6   | 95    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.517 | 1.516  | 0.1   | 96    | 0.00     |
| 9 T  | Propene                     | 0.766 | 0.742  | 3.1   | 98    | 0.00     |
| 10 T | Heptane                     | 2.153 | 1.946  | 9.6   | 94    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.680 | 1.648  | 1.9   | 96    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.303  | 5.2   | 92    | 0.00     |
| 13   | Ethanol                     | 0.122 | 0.037# | 69.7# | 94    | 0.00     |
| 14 T | Bromoethene                 | 0.518 | 0.512  | 1.2   | 95    | 0.00     |
| 15 T | Acetone                     | 1.637 | 1.392  | 15.0  | 100   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.783 | 0.691  | 11.7  | 96    | 0.00     |
| 17   | tert-Butyl alcohol          | 2.029 | 1.921  | 5.3   | 97    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.642 | 0.596  | 7.2   | 93    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.909 | 0.845  | 7.0   | 94    | 0.00     |
| 20 T | Methylene Chloride          | 0.641 | 0.519  | 19.0  | 95    | 0.00     |
| 21 T | Allyl Chloride              | 1.130 | 1.059  | 6.3   | 99    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.731 | 0.685  | 6.3   | 94    | 0.00     |
| 23 T | Vinyl Acetate               | 0.663 | 0.644  | 2.9   | 105   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.388 | 1.365  | 1.7   | 97    | 0.00     |
| 25 T | Ethyl Acetate               | 4.036 | 3.939  | 2.4   | 97    | 0.00     |
| 26 T | Hexane                      | 1.633 | 1.542  | 5.6   | 98    | 0.00     |
| 27 T | Carbon Disulfide            | 1.749 | 1.677  | 4.1   | 91    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.070 | 1.011  | 5.5   | 98    | 0.00     |
| 29 T | Chloroform                  | 2.309 | 2.288  | 0.9   | 97    | 0.00     |
| 30 T | Cyclohexane                 | 1.320 | 1.300  | 1.5   | 94    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.553 | 1.579  | -1.7  | 98    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.599 | 2.426  | 6.7   | 97    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 89    | 0.00     |
| 34 T | 2-Butanone                  | 0.791 | 0.767  | 3.0   | 99    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.905 | 0.838  | 7.4   | 96    | 0.00     |
| 36 T | Benzene                     | 1.079 | 1.080  | -0.1  | 95    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.647 | 0.653  | -0.9  | 98    | 0.00     |
| 38 T | Trichloroethene             | 0.471 | 0.431  | 8.5   | 97    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.402 | 0.398  | 1.0   | 95    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.221 | 0.190  | 14.0  | 92    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.461 | 0.437  | 5.2   | 95    | 0.00     |
| 42 T | Bromodichloromethane        | 0.901 | 0.915  | -1.6  | 95    | 0.00     |
| 43   | Methyl Methacrylate         | 0.486 | 0.460  | 5.3   | 95    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.863 | 1.868  | -0.3  | 97    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.497 | 0.495  | 0.4   | 96    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.608 | 0.617  | -1.5  | 96    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.410 | 0.418  | -2.0  | 98    | 0.00     |
| 48 T | Dibromochloromethane        | 0.723 | 0.731  | -1.1  | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Quant Time: Apr 18 02:15:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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                 | 0.633 | 0.634 | -0.2 | 91    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.314 | 1.159 | 11.8 | 95    | 0.00     |
| 51 T | 2-Hexanone                | 1.179 | 0.957 | 18.8 | 95    | 0.00     |
| 52 T | Tetrachloroethene         | 0.417 | 0.368 | 11.8 | 91    | 0.00     |
| 53 T | Toluene                   | 1.294 | 1.293 | 0.1  | 96    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.586 | 0.574 | 2.0  | 94    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.605 | 0.598 | 1.2  | 98    | 0.00     |
| 57 T | Chlorobenzene             | 1.040 | 0.997 | 4.1  | 94    | 0.00     |
| 58 T | Ethyl Benzene             | 1.981 | 1.911 | 3.5  | 94    | 0.00     |
| 59 T | m/p-Xylene                | 1.596 | 1.527 | 4.3  | 95    | -0.02    |
| 60 T | o-Xylene                  | 1.607 | 1.521 | 5.4  | 95    | 0.00     |
| 61 T | Styrene                   | 0.767 | 0.753 | 1.8  | 94    | 0.00     |
| 62   | Isopropylbenzene          | 2.360 | 2.246 | 4.8  | 93    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 1.042 | 0.914 | 12.3 | 95    | 0.00     |
| 64   | n-propylbenzene           | 0.593 | 0.565 | 4.7  | 94    | 0.00     |
| 65   | tert-Butylbenzene         | 2.169 | 1.996 | 8.0  | 95    | 0.00     |
| 66 T | Benzyl Chloride           | 0.238 | 0.206 | 13.4 | 76    | 0.00     |
| 67   | sec-Butylbenzene          | 3.017 | 2.796 | 7.3  | 95    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.822 | 0.819 | 0.4  | 89    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.621 | 2.416 | 7.8  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 2.730 | 2.526 | 7.5  | 96    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.851 | 1.781 | 3.8  | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.965 | 1.844 | 6.2  | 94    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.735 | 1.593 | 8.2  | 95    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 2.026 | 1.741 | 14.1 | 94    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 1.053 | 0.973 | 7.6  | 93    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 1.059 | 0.975 | 7.9  | 93    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 1.024 | 0.947 | 7.5  | 95    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 1.034 | 0.907 | 12.3 | 95    | 0.00     |
| 79 T | Naphthalene               | 2.423 | 2.120 | 12.5 | 96    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 1.381 | 1.147 | 16.9 | 93    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 1.040 | 0.951 | 8.6  | 95    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG No.: Q1908

Instrument ID: MSVOA\_L Calibration Date/Time: 04/29/2025 08:39

Lab File ID: VL042436.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

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

| COMPOUND                       | RRF   | RRF010 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Dichlorodifluoromethane        | 1.767 | 2.050  |            | 16.02  | 30    |
| Chloromethane                  | 0.699 | 0.788  |            | 12.73  | 30    |
| Vinyl Chloride                 | 0.761 | 0.756  |            | -0.66  | 30    |
| Bromomethane                   | 0.327 | 0.358  |            | 9.48   | 30    |
| Chloroethane                   | 0.275 | 0.307  |            | 11.64  | 30    |
| Tetrahydrofuran                | 0.461 | 0.391  |            | -15.18 | 30    |
| Trichlorofluoromethane         | 1.680 | 1.990  |            | 18.45  | 30    |
| 1,1,2-Trichlorotrifluoroethane | 1.374 | 1.502  |            | 9.32   | 30    |
| Dichlorotetrafluoroethane      | 1.517 | 1.746  |            | 15.1   | 30    |
| tert-Butyl alcohol             | 2.029 | 2.005  |            | -1.18  | 30    |
| Heptane                        | 2.153 | 1.613  |            | -25.08 | 30    |
| 1,1-Dichloroethene             | 0.642 | 0.659  |            | 2.65   | 30    |
| Acetone                        | 1.637 | 1.614  |            | -1.4   | 30    |
| Carbon Disulfide               | 1.749 | 1.858  |            | 6.23   | 30    |
| Methyl tert-Butyl Ether        | 1.070 | 0.996  |            | -6.92  | 30    |
| Methylene Chloride             | 0.641 | 0.587  |            | -8.42  | 30    |
| trans-1,2-Dichloroethene       | 0.731 | 0.756  |            | 3.42   | 30    |
| 1,1-Dichloroethane             | 1.388 | 1.506  |            | 8.5    | 30    |
| Cyclohexane                    | 1.320 | 1.140  |            | -13.64 | 30    |
| 2-Butanone                     | 0.791 | 0.745  |            | -5.82  | 30    |
| Carbon Tetrachloride           | 0.905 | 1.017  |            | 12.38  | 30    |
| cis-1,2-Dichloroethene         | 1.553 | 1.525  |            | -1.8   | 30    |
| Chloroform                     | 2.309 | 2.540  |            | 10     | 30    |
| 1,1,1-Trichloroethane          | 2.599 | 2.727  |            | 4.93   | 30    |
| 2,2,4-Trimethylpentane         | 1.863 | 1.678  |            | -9.93  | 30    |
| Benzene                        | 1.079 | 1.010  |            | -6.39  | 30    |
| 1,2-Dichloroethane             | 0.647 | 0.786  |            | 21.48  | 30    |
| Trichloroethene                | 0.471 | 0.398  |            | -15.5  | 30    |
| 1,2-Dichloropropane            | 0.402 | 0.354  |            | -11.94 | 30    |
| Bromodichloromethane           | 0.901 | 1.002  |            | 11.21  | 30    |
| 4-Methyl-2-Pentanone           | 1.314 | 1.047  |            | -20.32 | 30    |
| Toluene                        | 1.294 | 1.161  |            | -10.28 | 30    |
| t-1,3-Dichloropropene          | 0.497 | 0.448  |            | -9.86  | 30    |
| cis-1,3-Dichloropropene        | 0.608 | 0.544  |            | -10.53 | 30    |
| 1,1,2-Trichloroethane          | 0.410 | 0.415  |            | 1.22   | 30    |
| Dibromochloromethane           | 0.723 | 0.748  |            | 3.46   | 30    |
| 1,2-Dibromoethane              | 0.586 | 0.578  |            | -1.37  | 30    |
| Tetrachloroethene              | 0.417 | 0.327  |            | -21.58 | 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: CHEMTECH Contract: RMJE02

Lab Code: CHEM Case No.: Q1908 SAS No.: Q1908 SDG No.: Q1908

Instrument ID: MSVOA\_L Calibration Date/Time: 04/29/2025 08:39

Lab File ID: VL042436.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

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

| COMPOUND                  | RRF     | RRF010  | MIN<br>RRF | %D     | MAX%D |
|---------------------------|---------|---------|------------|--------|-------|
| Chlorobenzene             | 1.040   | 1.049   |            | 0.87   | 30    |
| Ethyl Benzene             | 1.981   | 1.988   |            | 0.35   | 30    |
| m/p-Xylene                | 1.596   | 1.685   |            | 5.58   | 30    |
| o-Xylene                  | 1.607   | 1.718   |            | 6.91   | 30    |
| Styrene                   | 0.767   | 0.725   |            | -5.48  | 30    |
| Bromoform                 | 0.633   | 0.607   |            | -4.11  | 30    |
| 1,1,2,2-Tetrachloroethane | 1.042   | 1.010   |            | -3.07  | 30    |
| 2-Chlorotoluene           | 1.851   | 1.956   |            | 5.67   | 30    |
| 1,3,5-Trimethylbenzene    | 1.735   | 1.830   |            | 5.48   | 30    |
| 1,2,4-Trimethylbenzene    | 2.026   | 2.052   |            | 1.28   | 30    |
| 1,3-Dichlorobenzene       | 1.053   | 1.056   |            | 0.28   | 30    |
| 1,4-Dichlorobenzene       | 1.059   | 1.081   |            | 2.08   | 30    |
| 1,2-Dichlorobenzene       | 1.024   | 1.051   |            | 2.64   | 30    |
| 1,2,4-Trichlorobenzene    | 1.040   | 0.974   |            | -6.35  | 30    |
| Hexachloro-1,3-Butadiene  | 1.034   | 0.976   |            | -5.61  | 30    |
| 1,3-Butadiene             | 0.783   | 0.776   |            | -0.89  | 30    |
| Naphthalene               | 2.423   | 2.279   |            | -5.94  | 30    |
| 4-Ethyltoluene            | 1.965   | 2.072   |            | 5.45   | 30    |
| 1-Bromo-4-Fluorobenzene   | 0.822   | 0.938   |            | 14.11  | 30    |
| Hexane                    | 1.633   | 1.343   |            | -17.76 | 30    |
| Allyl Chloride            | 1.130   | 1.151   |            | 1.86   | 30    |
| 1,4-Dioxane               | 220.893 | 174.653 |            | -20.93 | 30    |
| Methyl Methacrylate       | 0.486   | 0.407   |            | -16.25 | 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\VL042925\  
 Data File : VL042436.D  
 Acq On : 29 Apr 2025 08:39  
 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 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:15:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.780 | 49   | 114553   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 311268   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 269987   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.373 95 253216 11.413 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 114.100%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.495 | 85  | 234841 | 11.603 | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 188007 | 9.755  | ppbv   | 95     |
| 4) Chloromethane              | 1.531 | 50  | 90298  | 11.274 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.576 | 62  | 86603  | 9.933  | ppbv   | 96     |
| 6) Bromomethane               | 1.664 | 94  | 41020  | 10.952 | ppbv   | 85     |
| 7) Chloroethane               | 1.703 | 64  | 35167  | 11.153 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane  | 1.550 | 85  | 199977 | 11.508 | ppbv   | 94     |
| 9) Propene                    | 1.482 | 41  | 69189  | 7.883  | ppbv   | 98     |
| 10) Heptane                   | 4.968 | 43  | 184737 | 7.492  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 227979 | 11.845 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 172070 | 10.934 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 4336   | 3.108  | ppbv   | 81     |
| 14) Bromoethene               | 1.777 | 108 | 63597  | 10.721 | ppbv   | 97     |
| 15) Acetone                   | 1.832 | 43  | 184887 | 9.859  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.605 | 39  | 88889  | 9.910  | ppbv   | 95     |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 229627 | 9.881  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.029 | 96  | 75451  | 10.263 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 101987 | 9.790  | ppbv   | 91     |
| 20) Methylene Chloride        | 2.059 | 84  | 67278  | 9.161  | ppbv   | 95     |
| 21) Allyl Chloride            | 2.091 | 41  | 131864 | 10.184 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 86577  | 10.343 | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.460 | 43  | 61601  | 8.115  | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 172555 | 10.852 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.832 | 43  | 408744 | 8.840  | ppbv   | 100    |
| 26) Hexane                    | 2.819 | 57  | 153801 | 8.220  | ppbv   | 96     |
| 27) Carbon Disulfide          | 2.146 | 76  | 212793 | 10.622 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 114108 | 9.308  | ppbv   | 93     |
| 29) Chloroform                | 2.845 | 83  | 290965 | 11.002 | ppbv   | 100    |
| 30) Cyclohexane               | 3.848 | 84  | 130608 | 8.635  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 174659 | 9.818  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 312430 | 10.493 | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43  | 232034 | 9.426  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 316689 | 11.242 | ppbv   | 94     |
| 36) Benzene                   | 3.651 | 78  | 314493 | 9.367  | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 244516 | 12.134 | ppbv # | 96     |
| 38) Trichloroethene           | 4.541 | 130 | 123997 | 8.450  | ppbv # | 88     |
| 39) 1,2-Dichloropropane       | 4.305 | 63  | 110315 | 8.817  | ppbv # | 84     |
| 40) 1,4-Dioxane               | 4.577 | 88  | 54364  | 7.907  | ppbv # | 90     |
| 41) Tetrahydrofuran           | 3.049 | 42  | 121700 | 8.479  | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.483 | 83  | 312029 | 11.127 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 4.874 | 69  | 126594 | 8.367  | ppbv   | 94     |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 522427 | 9.010  | ppbv   | 94     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 139508 | 9.026  | ppbv   | 89     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042436.D  
 Acq On : 29 Apr 2025 08:39  
 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 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:15:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

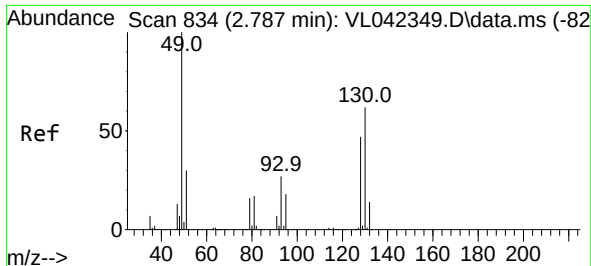
QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.587  | 75   | 169355   | 8.953  | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 6.570  | 97   | 129223m  | 10.138 | ppbv   |          |
| 48) Dibromochloromethane      | 7.380  | 129  | 232818   | 10.339 | ppbv   | 100      |
| 49) Bromoform                 | 9.477  | 173  | 188896   | 9.593  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.742  | 43   | 325855   | 7.965  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.428  | 43   | 269915   | 7.357  | ppbv # | 93       |
| 52) Tetrachloroethene         | 8.218  | 164  | 101642   | 7.833  | ppbv # | 84       |
| 53) Toluene                   | 6.926  | 91   | 361317   | 8.968  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 179895   | 9.861  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 182759   | 11.184 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.920  | 112  | 283210   | 10.086 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.351  | 91   | 536634   | 10.032 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.529  | 91   | 909704m  | 21.110 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 463713   | 10.686 | ppbv   | 96       |
| 61) Styrene                   | 9.869  | 104  | 195813   | 9.454  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105  | 672630   | 10.558 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 272746   | 9.699  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 160736   | 10.037 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 616872   | 10.535 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 49841    | 7.746  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 869595   | 10.677 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 738863   | 10.442 | ppbv   | 96       |
| 70) n-Butylbenzene            | 12.280 | 91   | 787717   | 10.688 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 528205   | 10.571 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 559285   | 10.542 | ppbv   | 96       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 493949   | 10.546 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.535 | 105  | 554136   | 10.130 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.603 | 146  | 285025   | 10.024 | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 291795   | 10.210 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 283700   | 10.261 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 263477   | 9.437  | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 615408   | 9.408  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 316788   | 8.497  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 263006   | 9.363  | ppbv   | 98       |

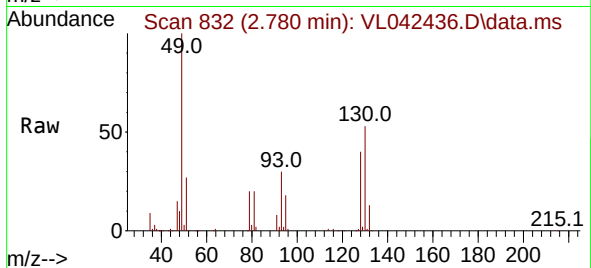
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.780 min Scan# 81  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

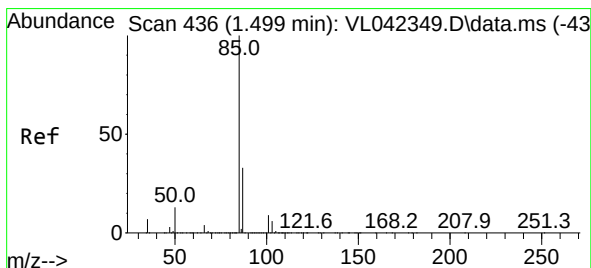
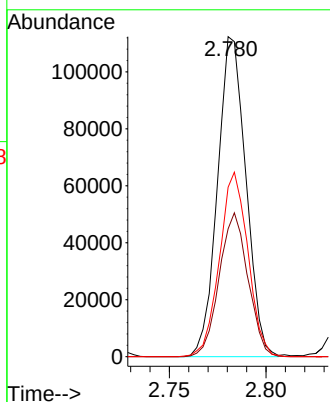
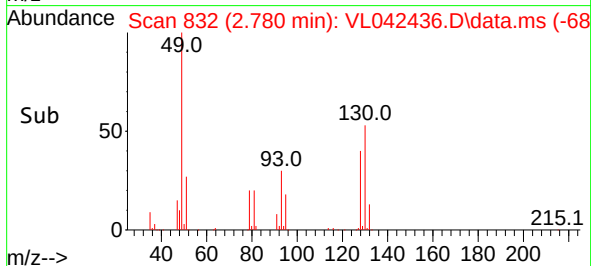
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



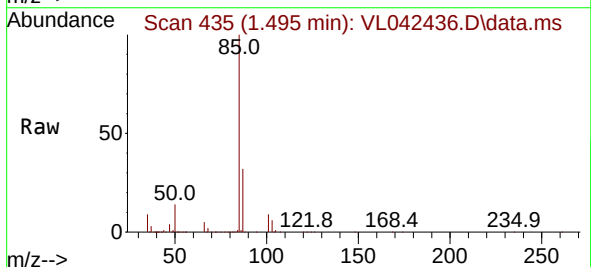
Tgt Ion: 49 Resp: 11455  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 57.8 29.3 88.0

Manual Integrations  
APPROVED

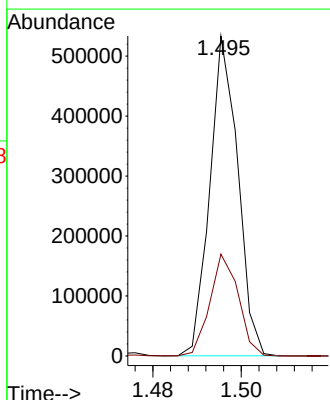
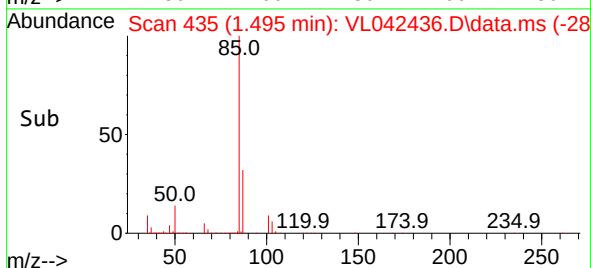
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

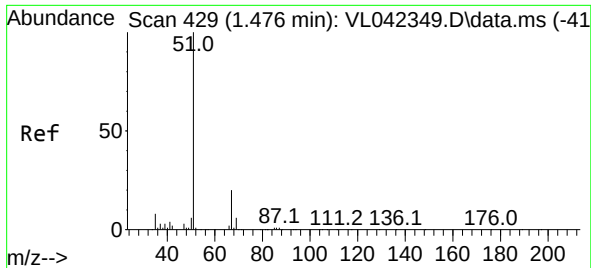


#2  
Dichlorodifluoromethane  
Concen: 11.603 ppbv  
RT: 1.495 min Scan# 435  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



Tgt Ion: 85 Resp: 234841  
Ion Ratio Lower Upper  
85 100  
87 31.8 26.6 39.8





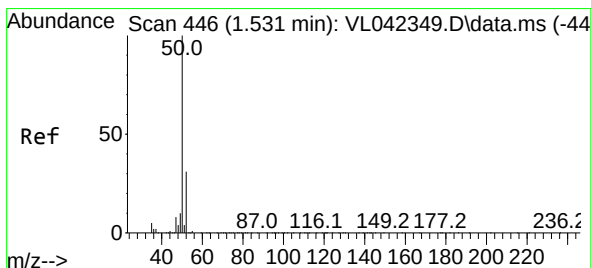
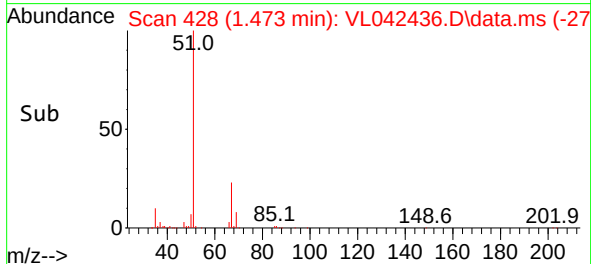
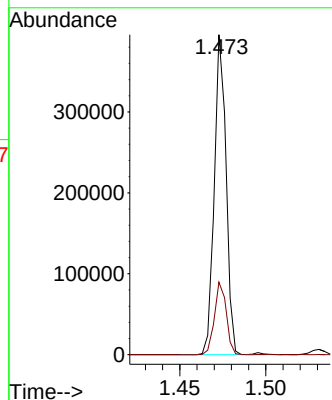
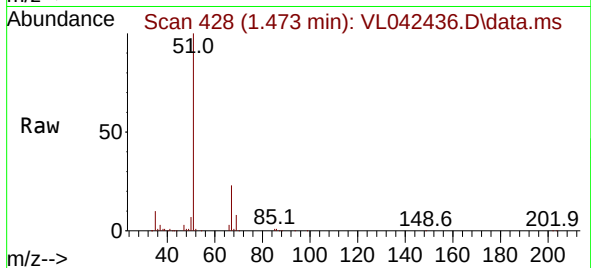
#3  
Chlorodifluoromethane  
Concen: 9.755 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 51 Resp: 18800  
Ion Ratio Lower Upper  
51 100  
67 22.8 16.2 24.4

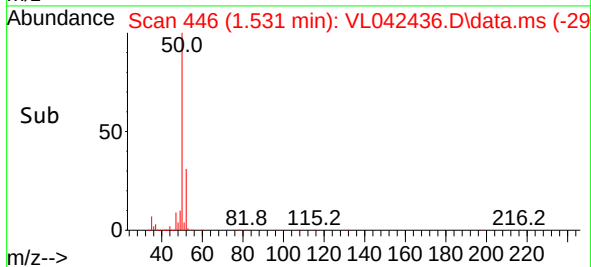
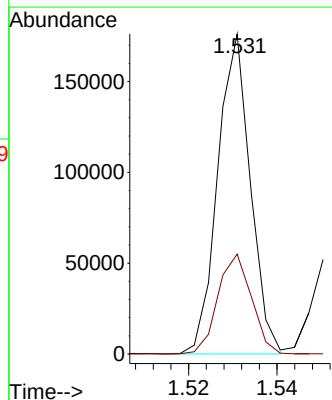
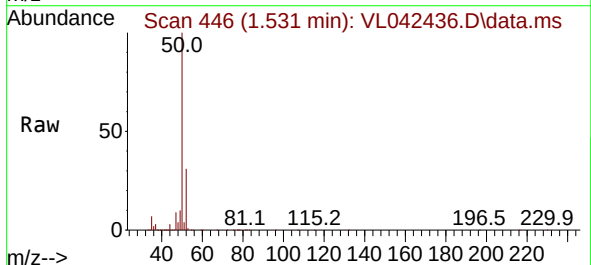
Manual Integrations  
APPROVED

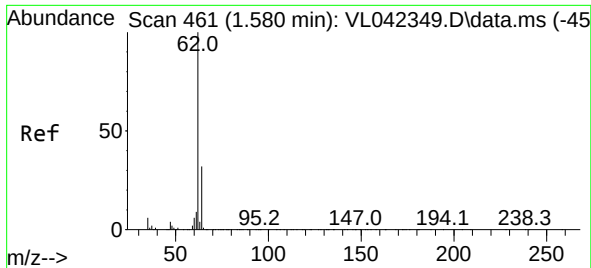
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#4  
Chloromethane  
Concen: 11.274 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 50 Resp: 90298  
Ion Ratio Lower Upper  
50 100  
52 31.2 24.7 37.1





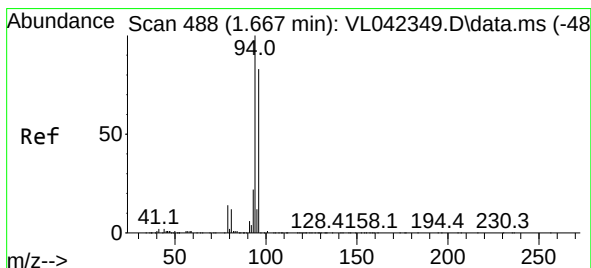
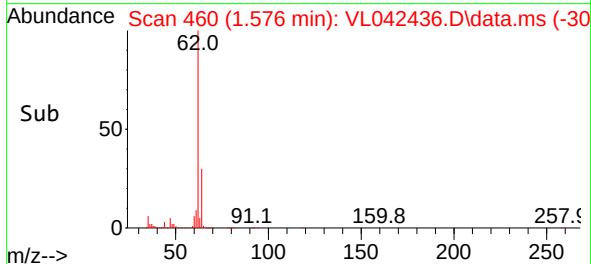
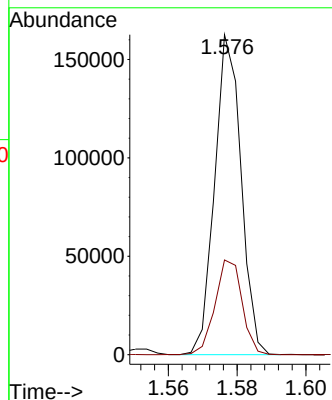
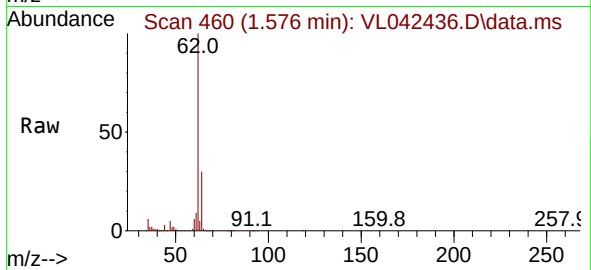
#5  
 Vinyl Chloride  
 Concen: 9.933 ppbv  
 RT: 1.576 min Scan# 460  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 62 Resp: 8660  
 Ion Ratio Lower Upper  
 62 100  
 64 29.6 25.4 38.0

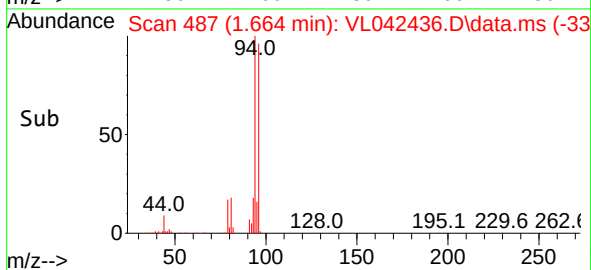
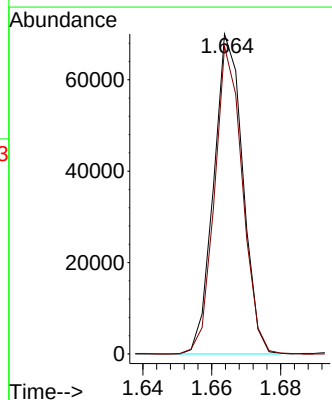
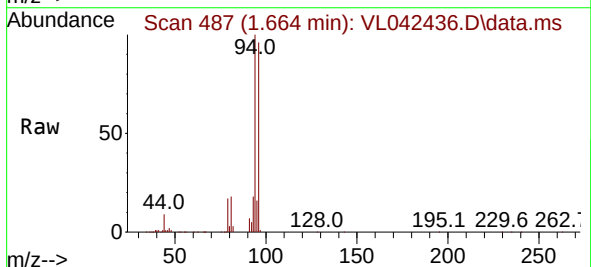
Manual Integrations  
 APPROVED

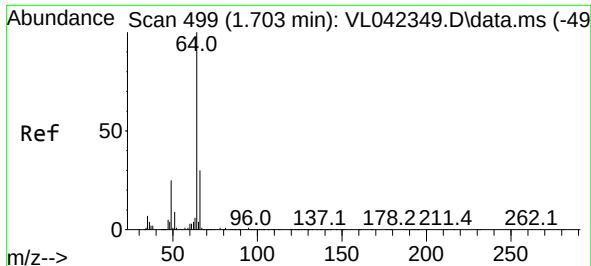
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



#6  
 Bromomethane  
 Concen: 10.952 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

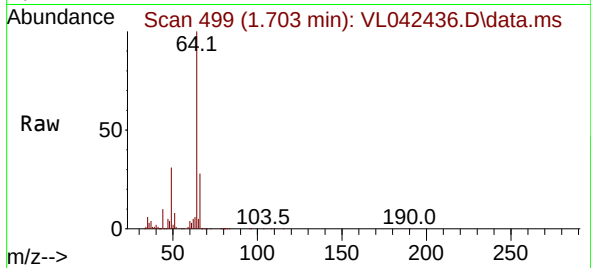
Tgt Ion: 94 Resp: 41020  
 Ion Ratio Lower Upper  
 94 100  
 96 95.9 66.2 99.2





#7  
Chloroethane  
Concen: 11.153 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

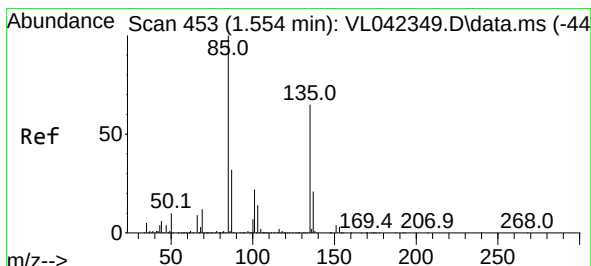
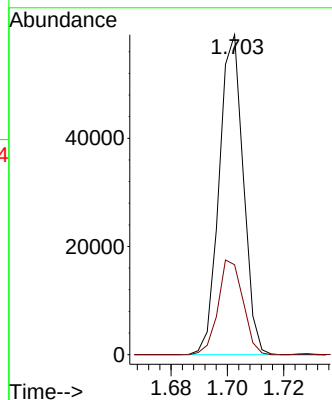
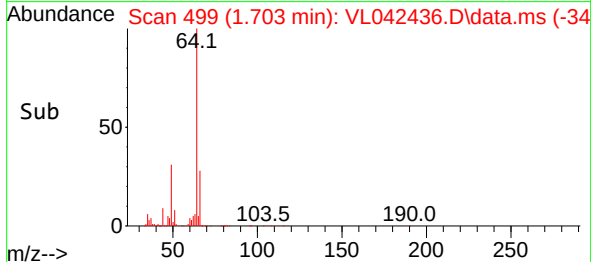
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



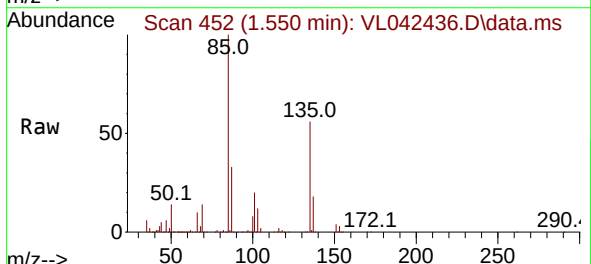
Tgt Ion: 64 Resp: 3516  
Ion Ratio Lower Upper  
64 100  
66 28.1 24.6 37.0

Manual Integrations  
APPROVED

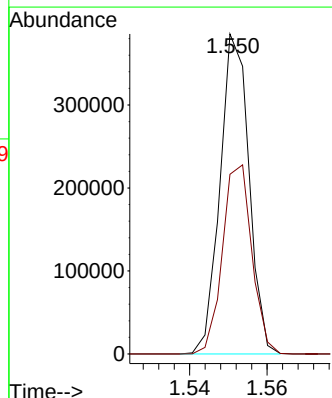
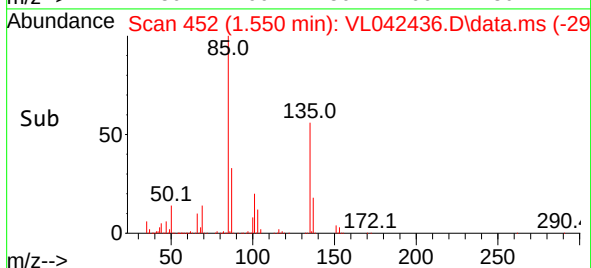
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



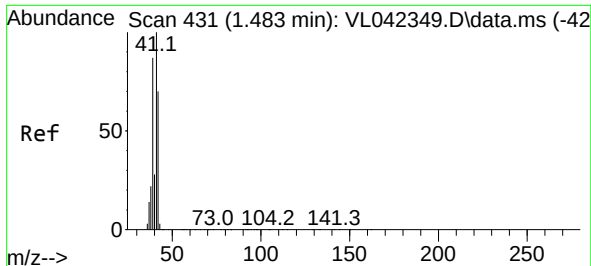
#8  
Dichlorotetrafluoroethane  
Concen: 11.508 ppbv  
RT: 1.550 min Scan# 452  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



Tgt Ion: 85 Resp: 199977  
Ion Ratio Lower Upper  
85 100  
135 60.1 52.2 78.2







#9

Propene

Concen: 7.883 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 69189

Ion Ratio Lower Upper

41 100

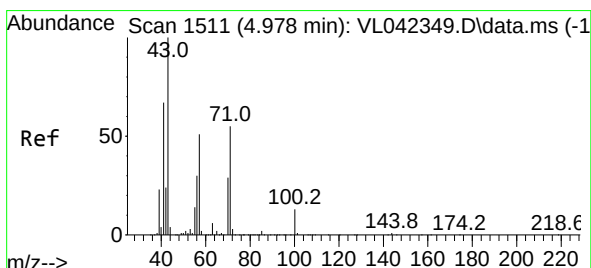
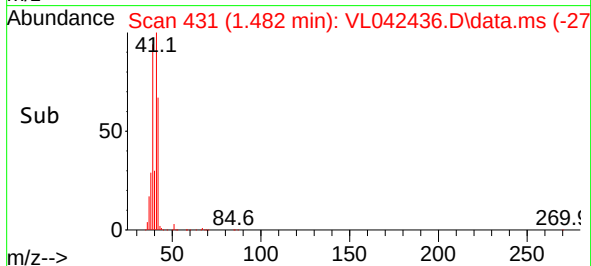
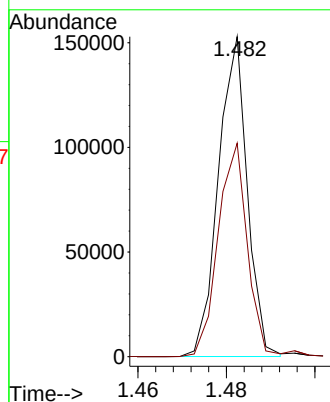
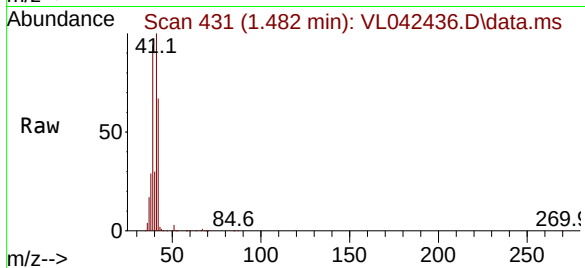
42 68.7 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#10

Heptane

Concen: 7.492 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. -0.010 min

Lab File: VL042436.D

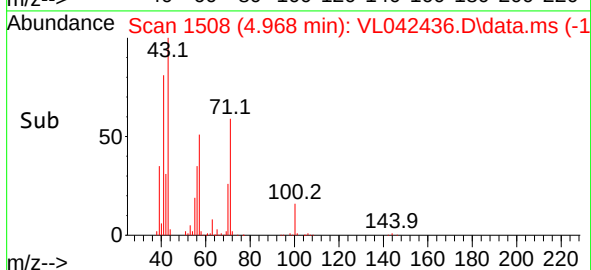
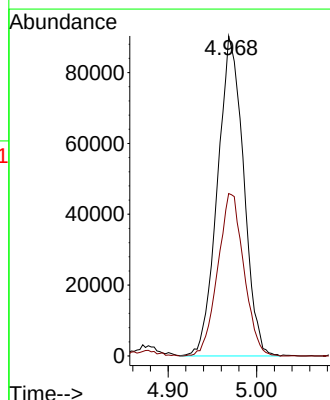
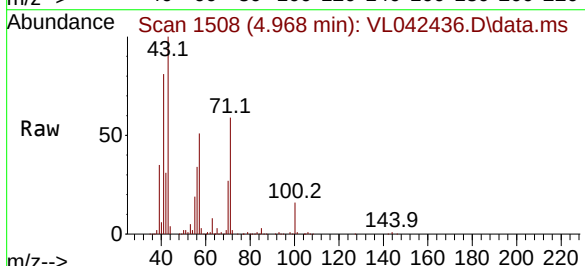
Acq: 29 Apr 2025 08:39

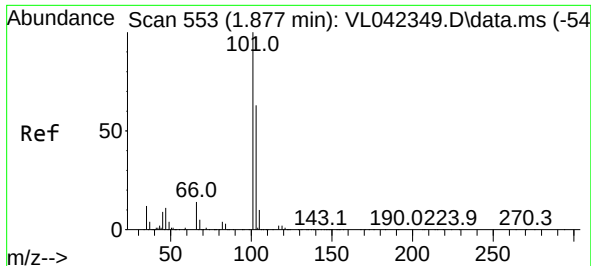
Tgt Ion: 43 Resp: 184737

Ion Ratio Lower Upper

43 100

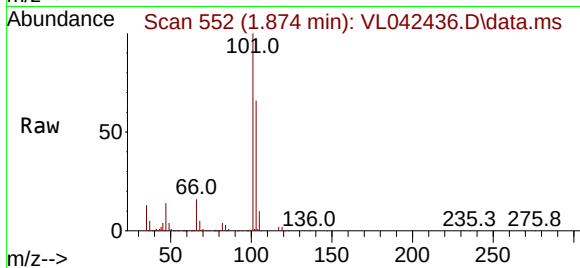
57 50.9 39.9 59.9





#11  
 Trichlorofluoromethane  
 Concen: 11.845 ppbv  
 RT: 1.874 min Scan# 511  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

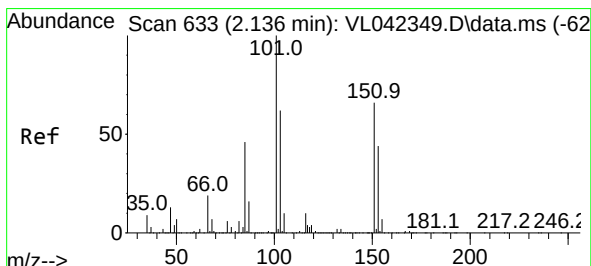
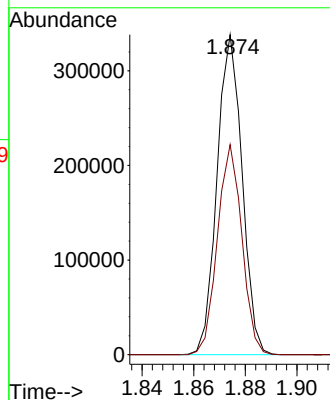
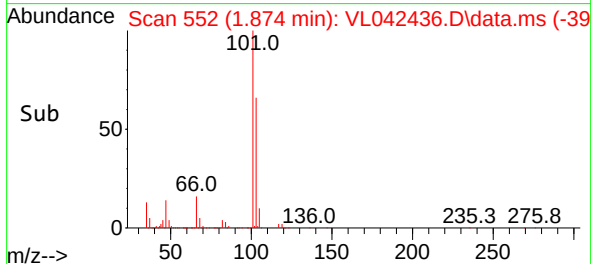
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



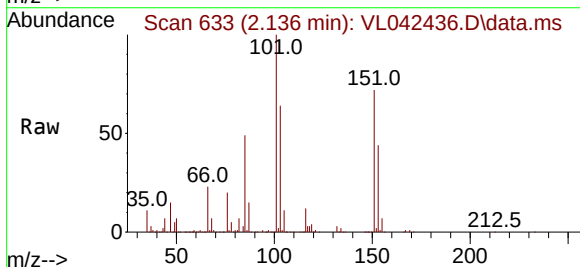
Tgt Ion:101 Resp: 227979  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 50.1 75.1

Manual Integrations  
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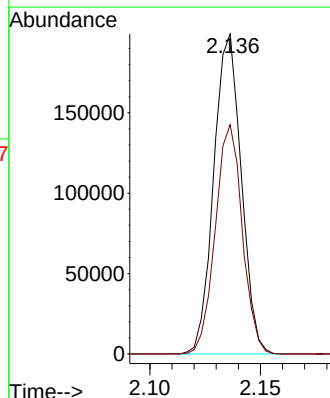
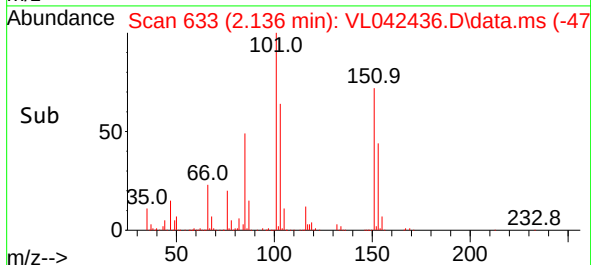
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

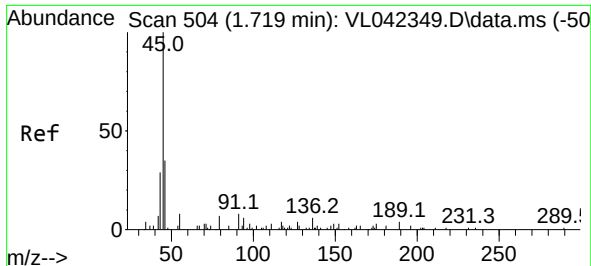


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.934 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39



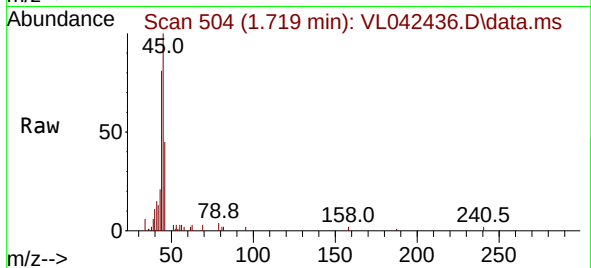
Tgt Ion:101 Resp: 172070  
 Ion Ratio Lower Upper  
 101 100  
 151 70.1 57.0 85.6





#13  
Ethanol  
Concen: 3.108 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

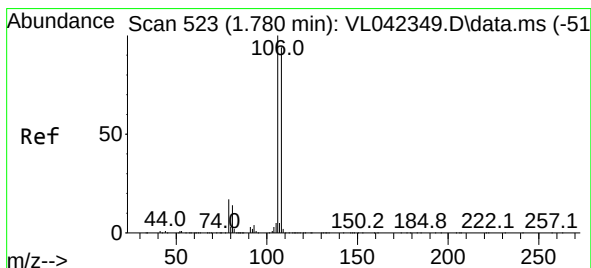
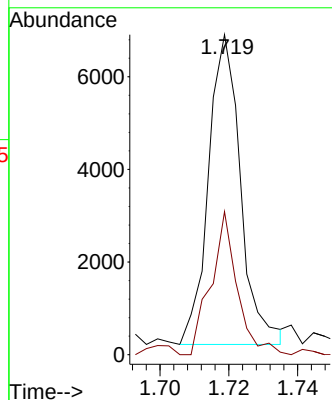
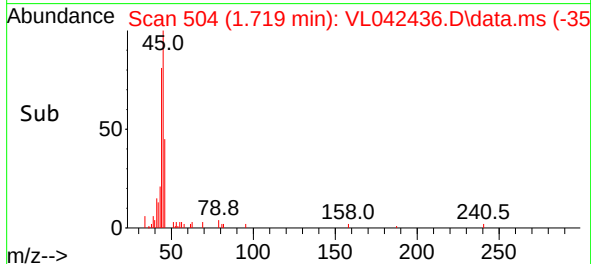
Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010



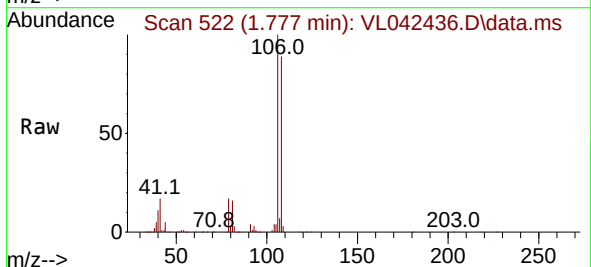
Tgt Ion: 45 Resp: 4330  
Ion Ratio Lower Upper  
45 100  
46 41.1 21.9 87.7

Manual Integrations  
APPROVED

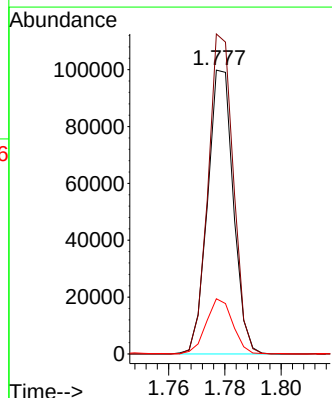
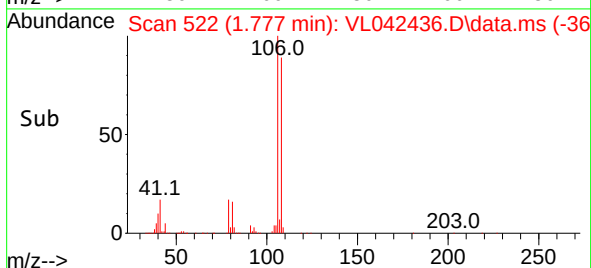
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

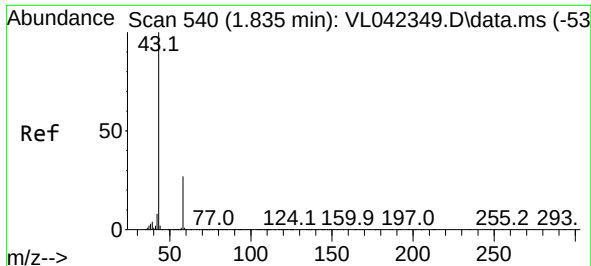


#14  
Bromoethene  
Concen: 10.721 ppbv  
RT: 1.777 min Scan# 522  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



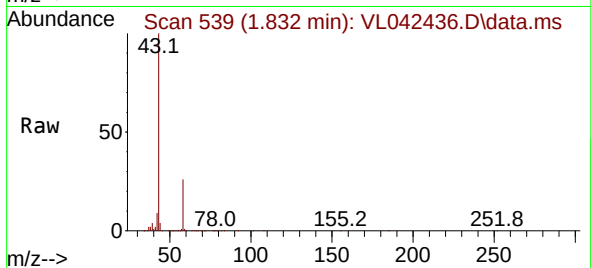
Tgt Ion:108 Resp: 63597  
Ion Ratio Lower Upper  
108 100  
106 110.4 85.9 128.9  
79 20.1 13.9 20.9





#15  
Acetone  
Concen: 9.859 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

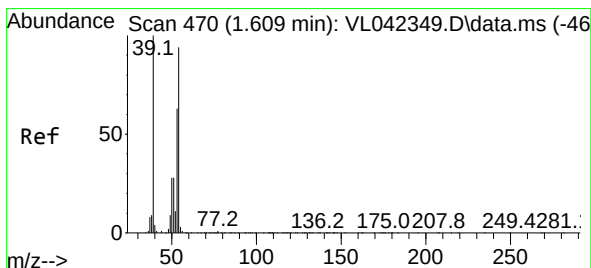
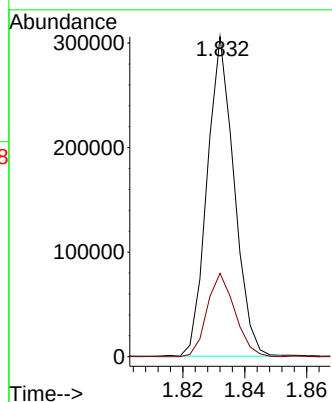
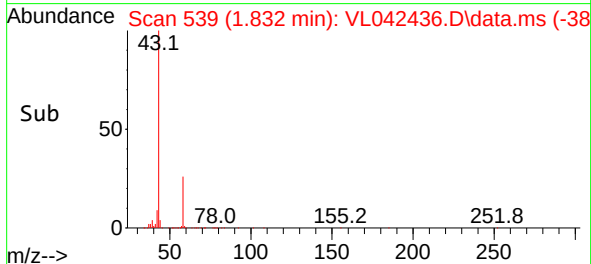
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



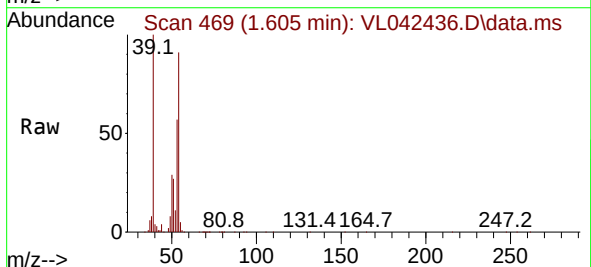
Tgt Ion: 43 Resp: 18488  
Ion Ratio Lower Upper  
43 100  
58 27.0 22.4 33.6

Manual Integrations  
APPROVED

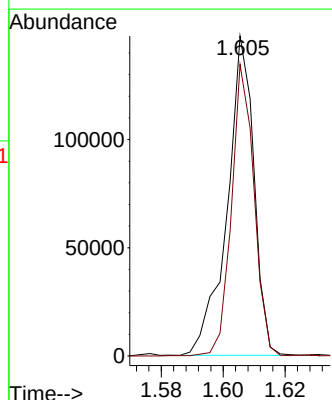
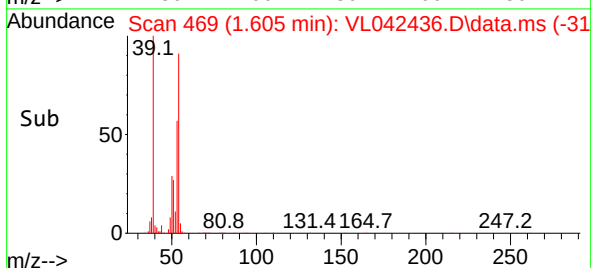
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

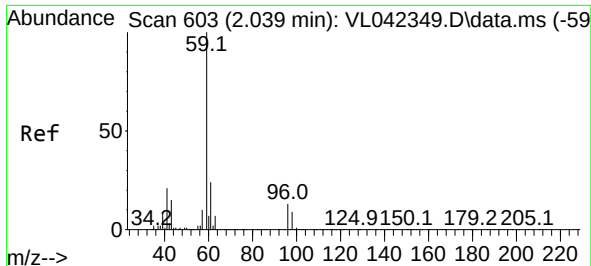


#16  
1,3-Butadiene  
Concen: 9.910 ppbv  
RT: 1.605 min Scan# 469  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



Tgt Ion: 39 Resp: 88889  
Ion Ratio Lower Upper  
39 100  
54 76.7 64.9 97.3





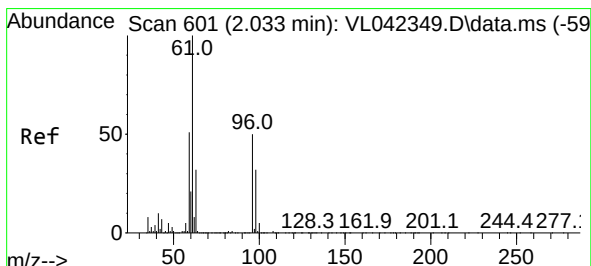
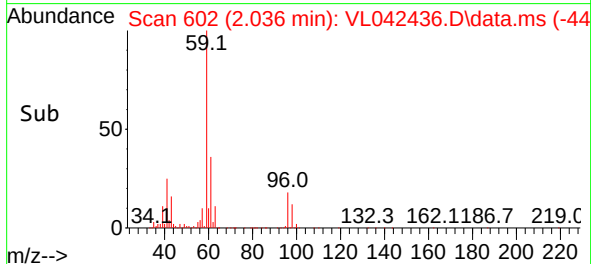
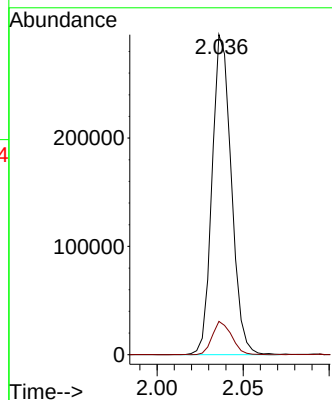
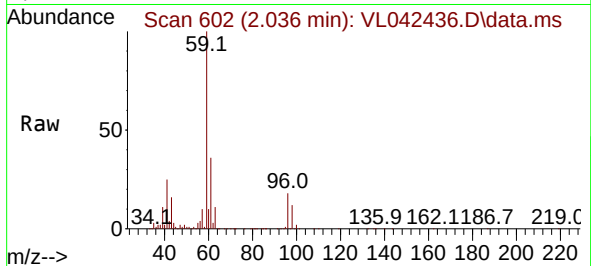
#17  
tert-Butyl alcohol  
Concen: 9.881 ppbv  
RT: 2.036 min Scan# 603  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 59 Resp: 22962  
Ion Ratio Lower Upper  
59 100  
57 10.4 8.7 13.1

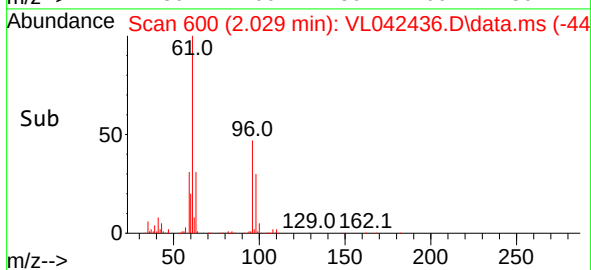
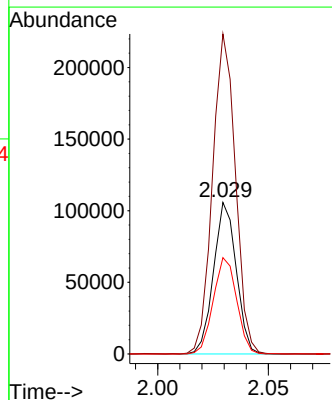
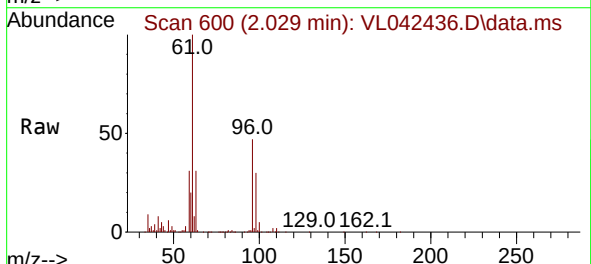
Manual Integrations  
APPROVED

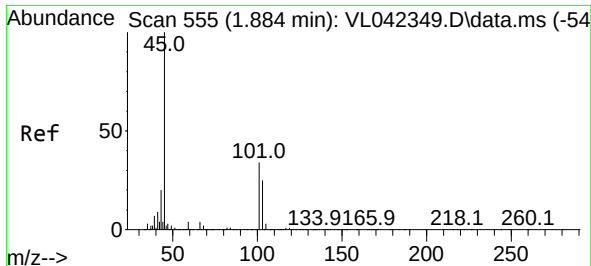
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#18  
1,1-Dichloroethene  
Concen: 10.263 ppbv  
RT: 2.029 min Scan# 600  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

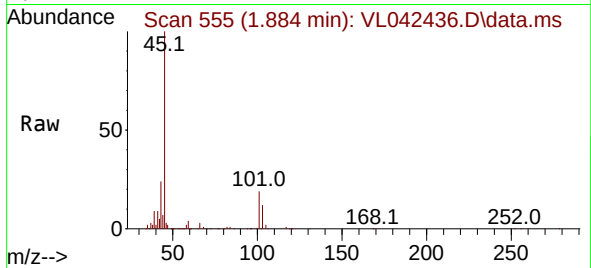
Tgt Ion: 96 Resp: 75451  
Ion Ratio Lower Upper  
96 100  
61 211.2 160.2 240.2  
98 63.6 51.0 76.4





#19  
Isopropyl Alcohol  
Concen: 9.790 ppbv  
RT: 1.884 min Scan# 519  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

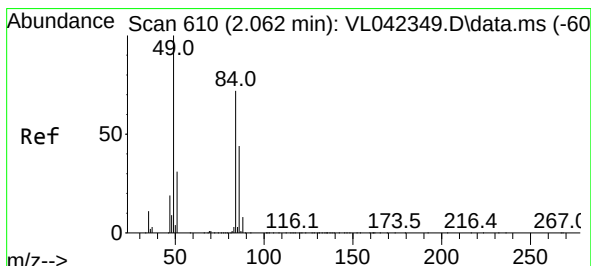
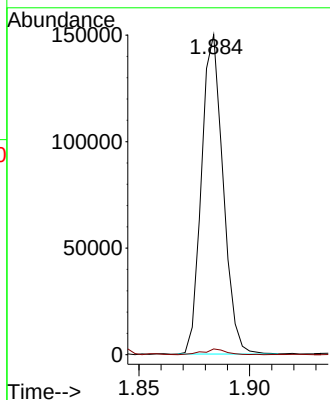
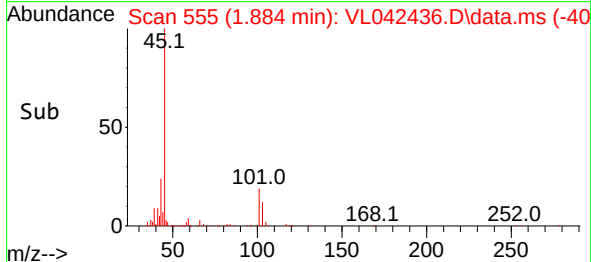
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



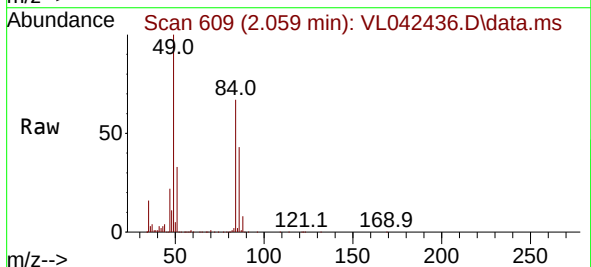
Tgt Ion: 45 Resp: 101985  
Ion Ratio Lower Upper  
45 100  
58 49.0 34.5 51.7

Manual Integrations  
APPROVED

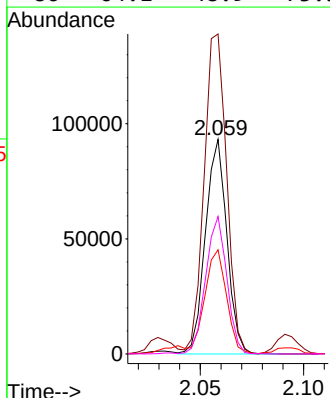
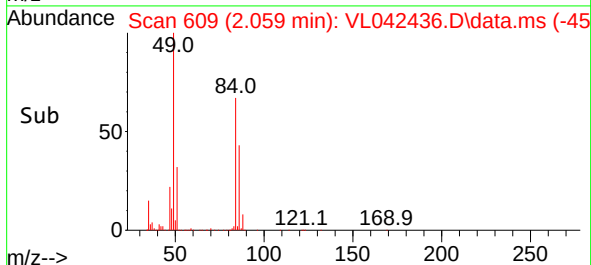
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

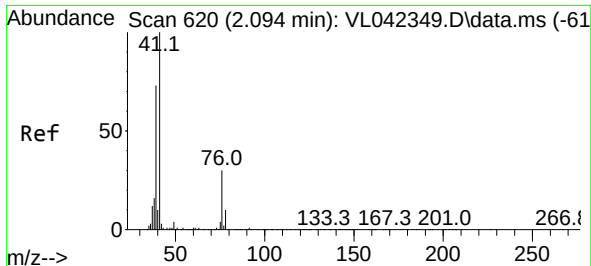


#20  
Methylene Chloride  
Concen: 9.161 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



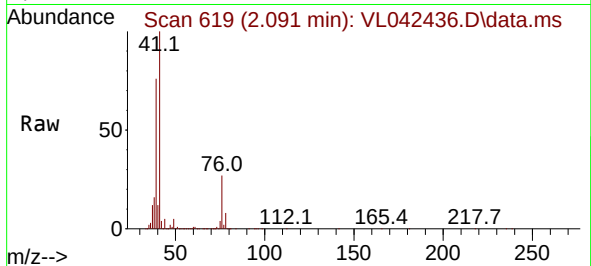
Tgt Ion: 84 Resp: 67278  
Ion Ratio Lower Upper  
84 100  
49 146.9 111.6 167.4  
51 45.9 35.1 52.7  
86 64.1 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 10.184 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

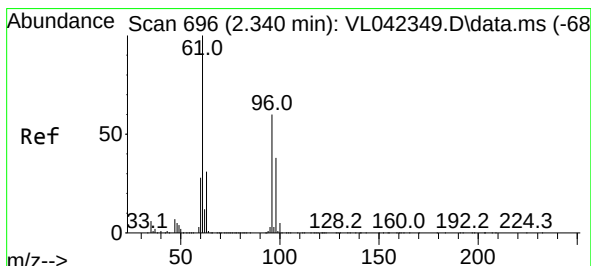
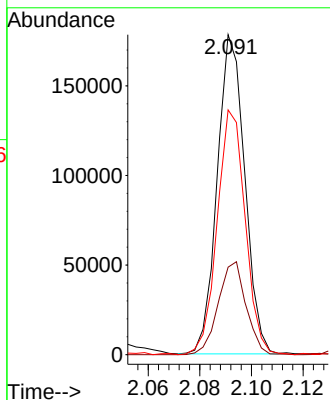
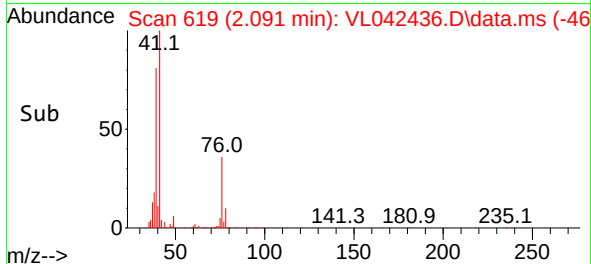
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



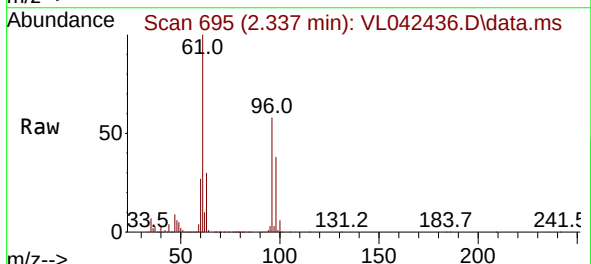
Tgt Ion: 41 Resp: 131864  
 Ion Ratio Lower Upper  
 41 100  
 76 29.4 24.8 37.2  
 39 77.4 60.6 90.8

Manual Integrations  
 APPROVED

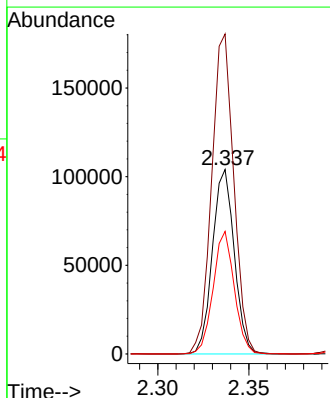
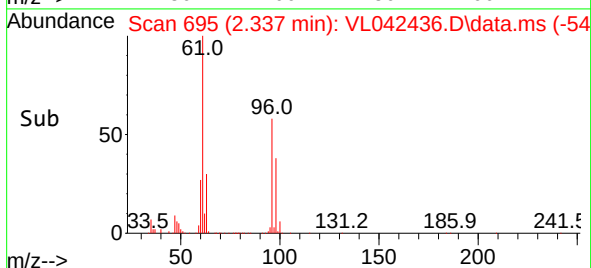
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

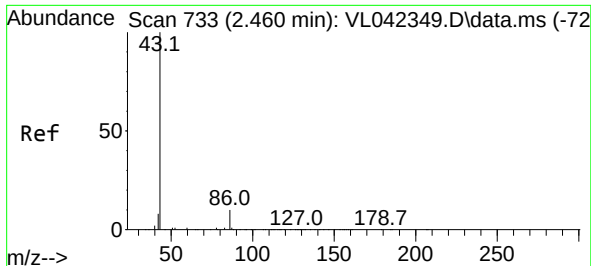


#22  
 trans-1,2-Dichloroethene  
 Concen: 10.343 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39



Tgt Ion: 96 Resp: 86577  
 Ion Ratio Lower Upper  
 96 100  
 61 173.4 133.7 200.5  
 98 66.4 50.3 75.5





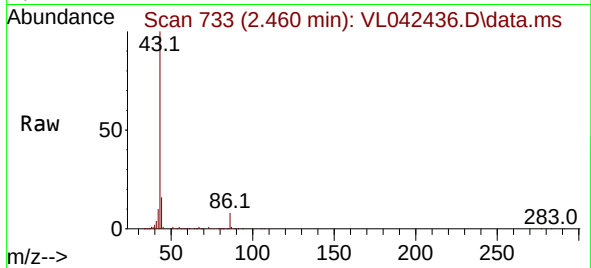
#23  
 Vinyl Acetate  
 Concen: 8.115 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

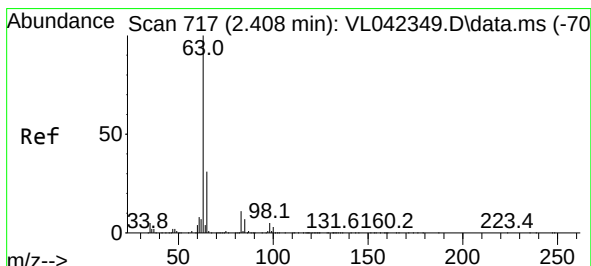
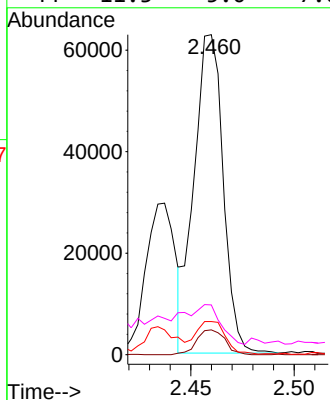
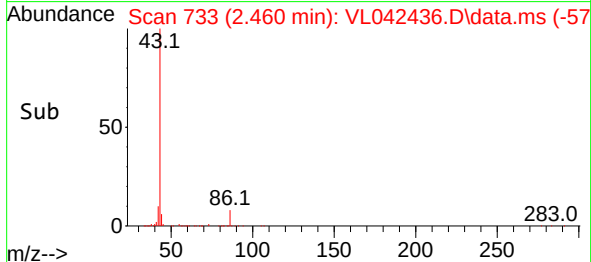


Tgt Ion: 43 Resp: 6160  
 Ion Ratio Lower Upper  
 43 100  
 86 7.6 6.5 9.7  
 42 10.2 7.8 11.8  
 44 11.3 5.0 7.6#

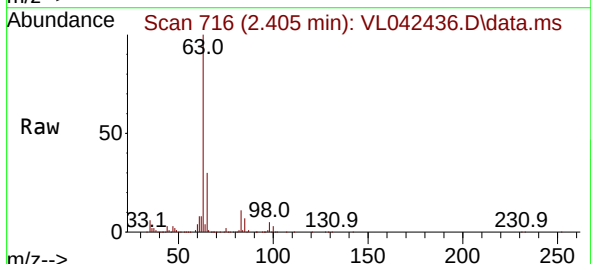
Manual Integrations

APPROVED

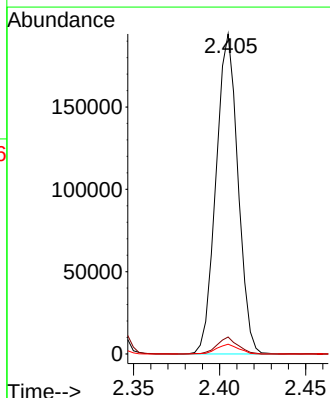
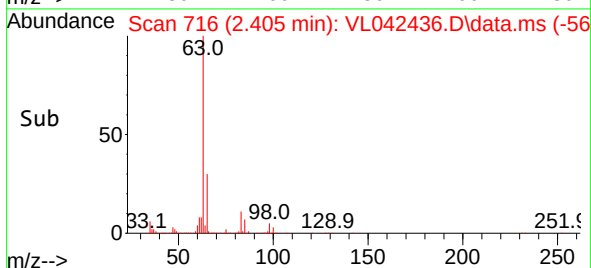
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



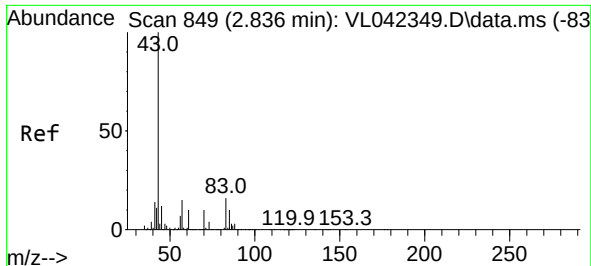
#24  
 1,1-Dichloroethane  
 Concen: 10.852 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39



Tgt Ion: 63 Resp: 172555  
 Ion Ratio Lower Upper  
 63 100  
 98 5.3 2.3 6.8  
 100 3.0 1.6 4.8







#25

Ethyl Acetate

Concen: 8.840 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.003 min

Lab File: VL042436.D

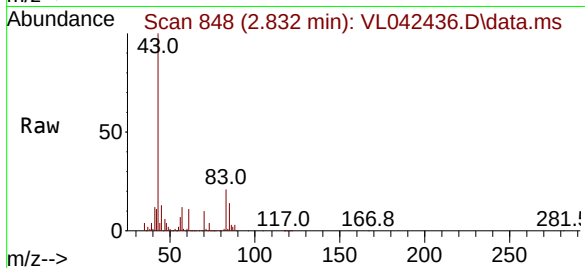
Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010



Tgt Ion: 43 Resp: 408744

Ion Ratio Lower Upper

43 100

45 10.5 8.3 12.5

61 8.9 7.3 10.9

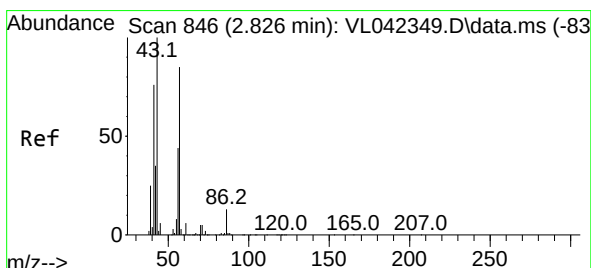
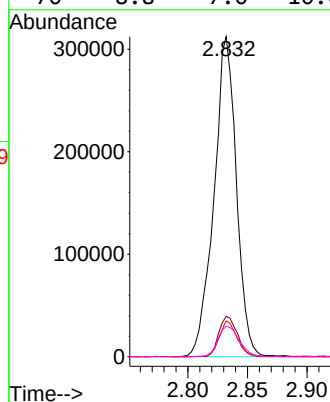
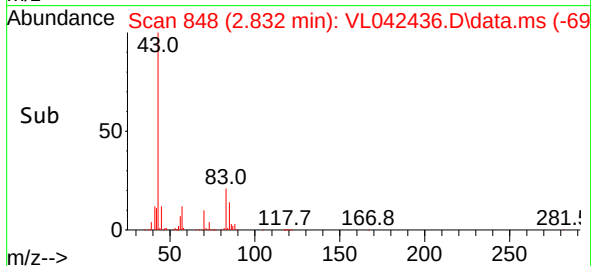
70 8.8 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#26

Hexane

Concen: 8.220 ppbv

RT: 2.819 min Scan# 844

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 153801

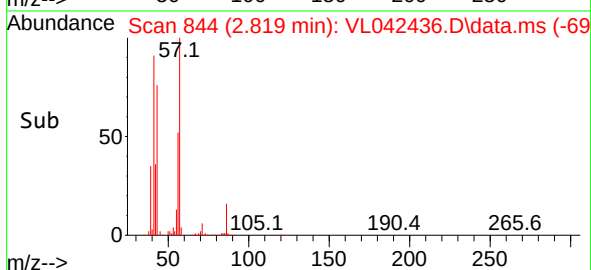
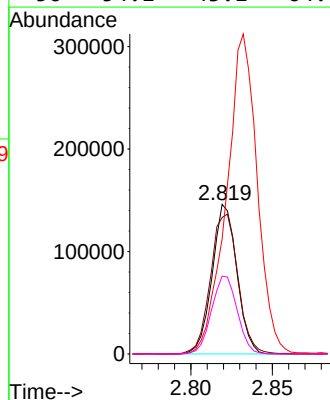
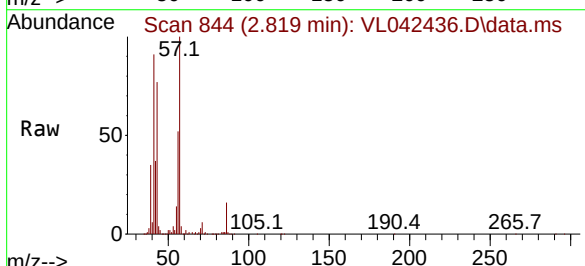
Ion Ratio Lower Upper

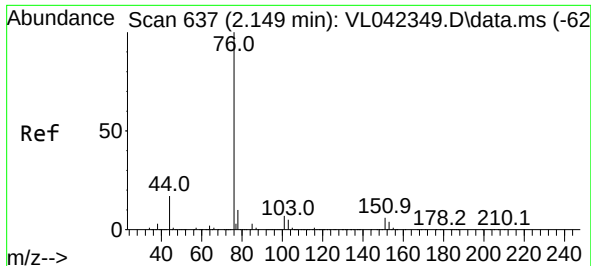
57 100

41 104.3 77.9 116.9

43 266.3 208.4 312.6

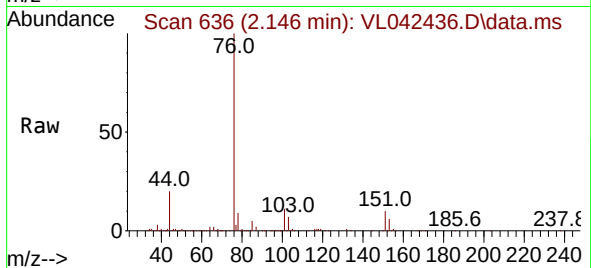
56 54.1 43.1 64.7





#27  
Carbon Disulfide  
Concen: 10.622 ppbv  
RT: 2.146 min Scan# 611  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

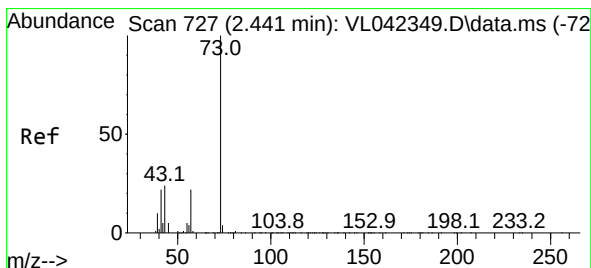
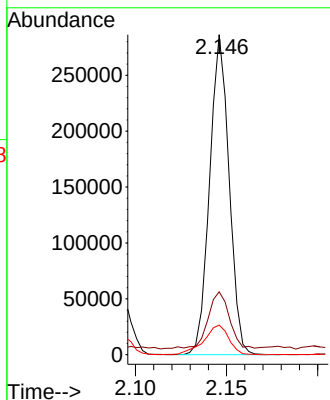
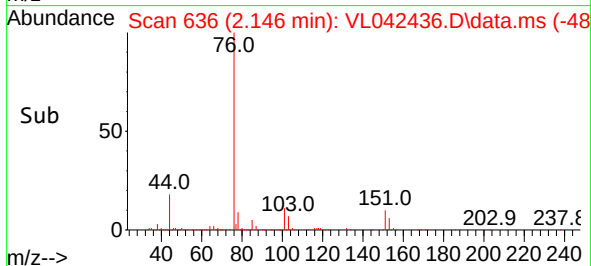
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 76 Resp: 21279  
Ion Ratio Lower Upper  
76 100  
44 18.9 15.5 23.3  
78 11.9 9.3 13.9

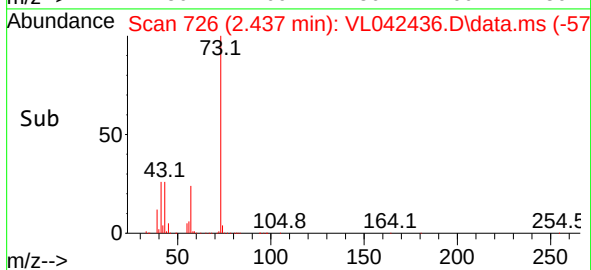
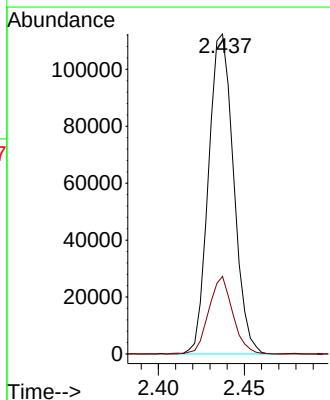
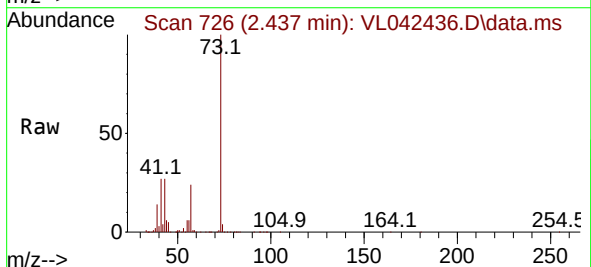
Manual Integrations  
APPROVED

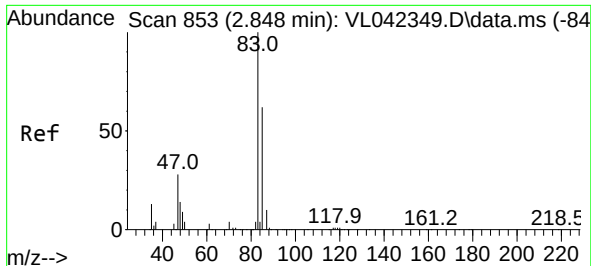
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#28  
Methyl tert-Butyl Ether  
Concen: 9.308 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

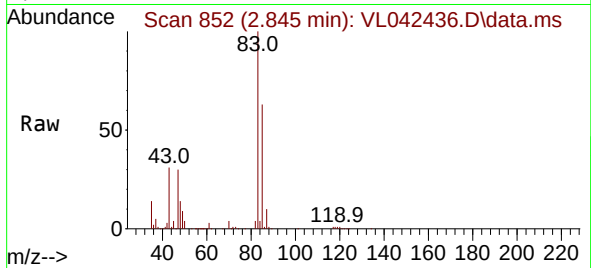
Tgt Ion: 73 Resp: 114108  
Ion Ratio Lower Upper  
73 100  
57 23.1 21.3 31.9





#29  
Chloroform  
Concen: 11.002 ppbv  
RT: 2.845 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

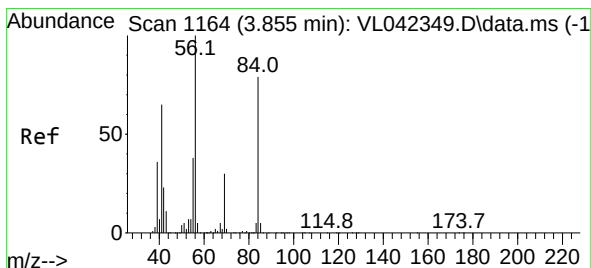
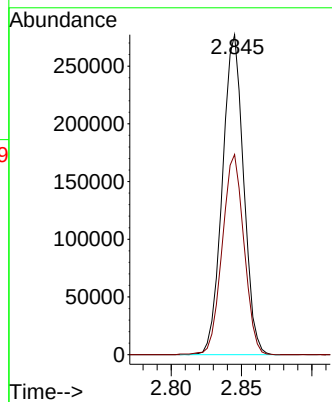
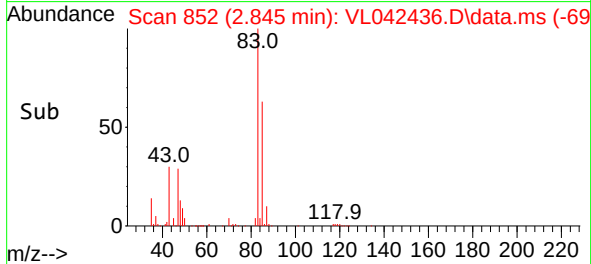
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 83 Resp: 29096  
Ion Ratio Lower Upper  
83 100  
85 62.6 50.0 75.0

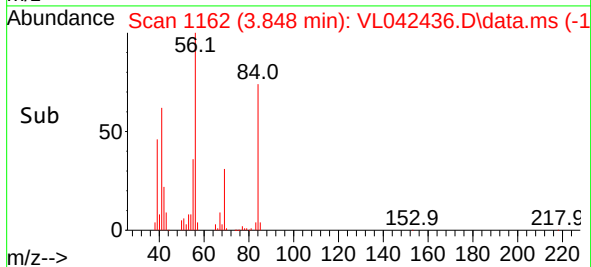
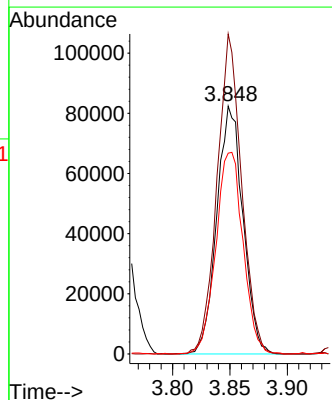
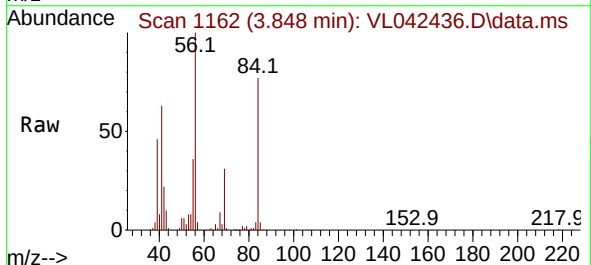
Manual Integrations  
APPROVED

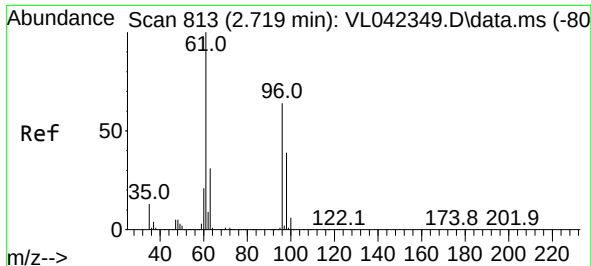
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#30  
Cyclohexane  
Concen: 8.635 ppbv  
RT: 3.848 min Scan# 1162  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

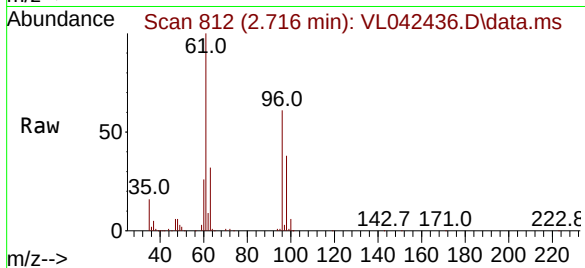
Tgt Ion: 84 Resp: 130608  
Ion Ratio Lower Upper  
84 100  
56 121.2 101.0 151.4  
41 84.8 67.4 101.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.818 ppbv  
 RT: 2.716 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

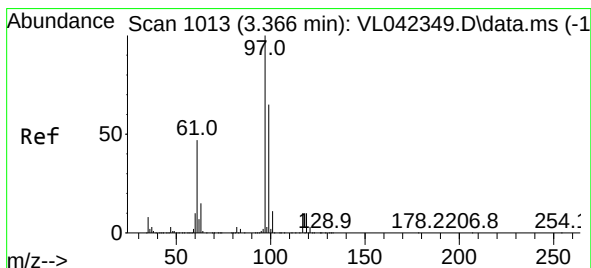
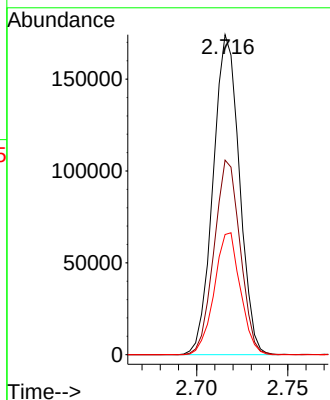
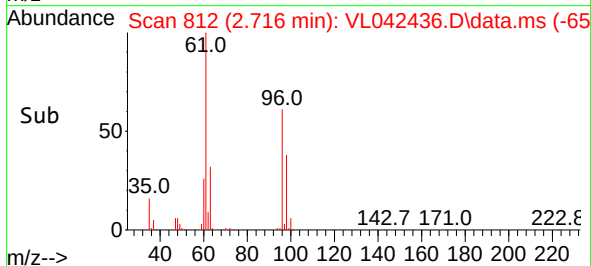
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



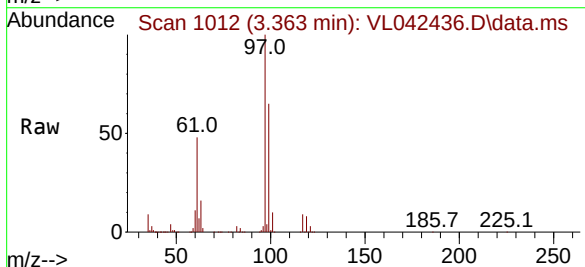
Tgt Ion: 61 Resp: 174659  
 Ion Ratio Lower Upper  
 61 100  
 96 60.8 50.8 76.2  
 98 37.6 30.9 46.3

Manual Integrations  
 APPROVED

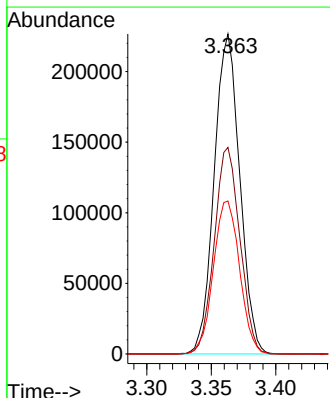
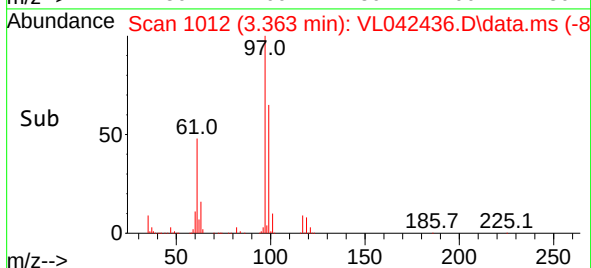
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

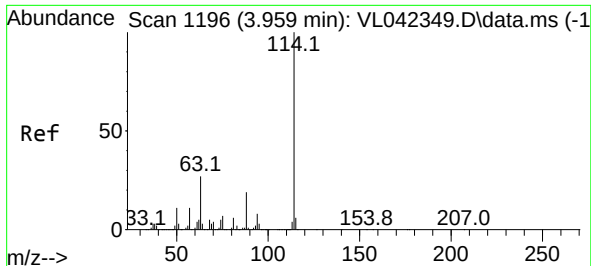


#32  
 1,1,1-Trichloroethane  
 Concen: 10.493 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39



Tgt Ion: 97 Resp: 312430  
 Ion Ratio Lower Upper  
 97 100  
 99 64.5 51.0 76.4  
 61 49.1 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:114 Resp: 311268

Ion Ratio Lower Upper

114 100

63 28.3 21.8 32.6

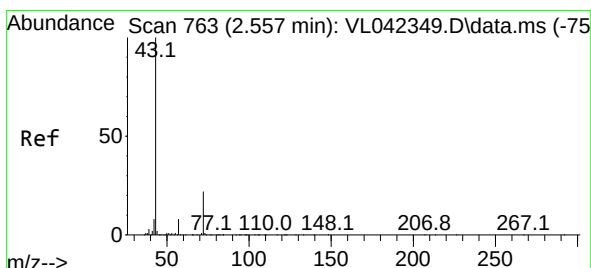
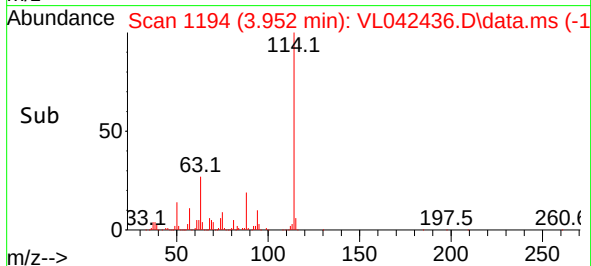
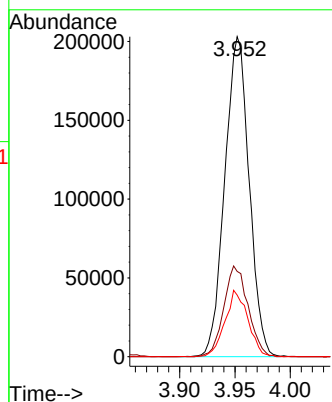
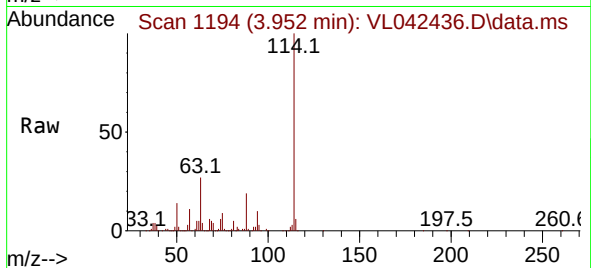
88 19.5 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#34

2-Butanone

Concen: 9.426 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.003 min

Lab File: VL042436.D

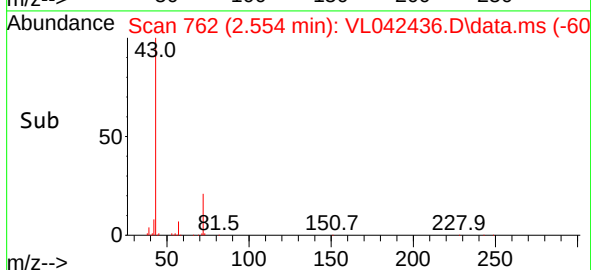
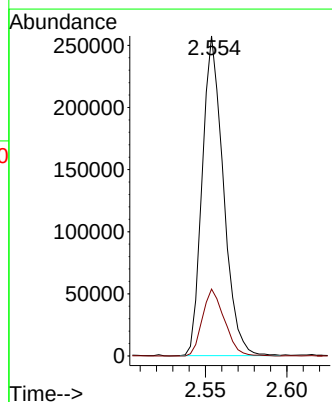
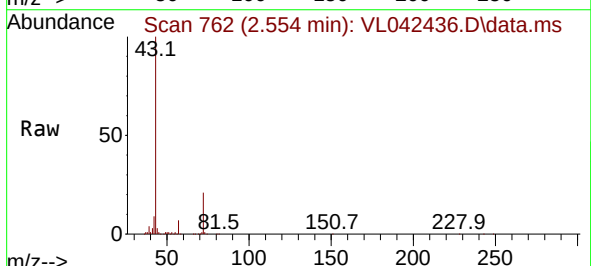
Acq: 29 Apr 2025 08:39

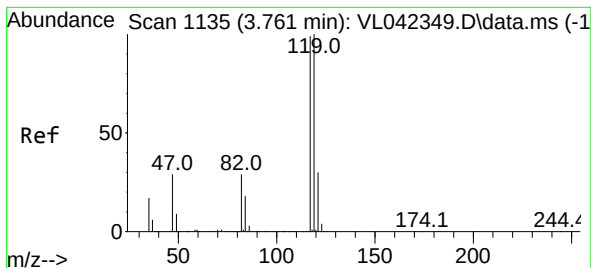
Tgt Ion: 43 Resp: 232034

Ion Ratio Lower Upper

43 100

72 21.8 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.242 ppbv

RT: 3.755 min Scan# 1135

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

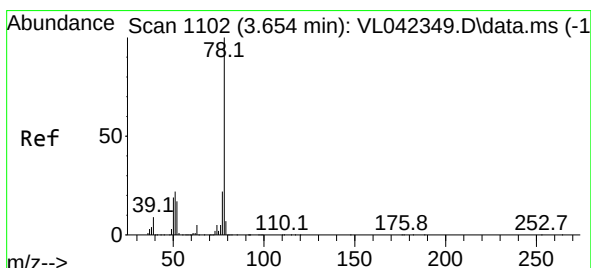
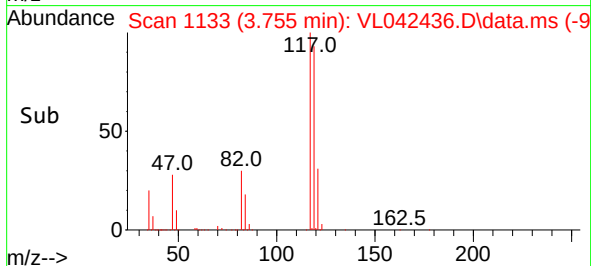
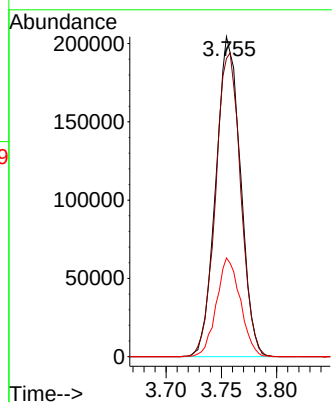
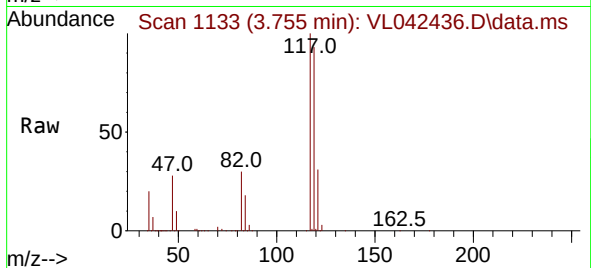
Tgt Ion: 117 Resp: 316689

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 93.1  | 80.5  | 120.7 |
| 121 | 30.9  | 24.2  | 36.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#36

Benzene

Concen: 9.367 ppbv

RT: 3.651 min Scan# 1101

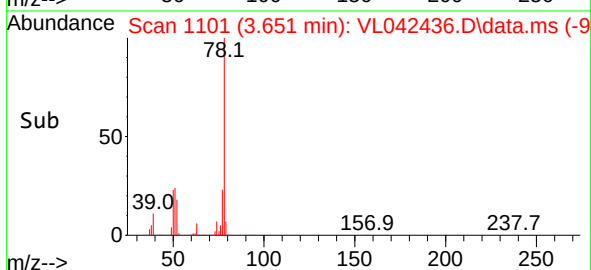
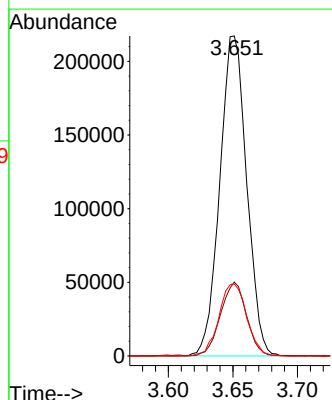
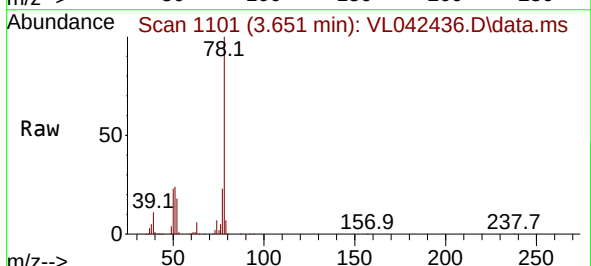
Delta R.T. -0.003 min

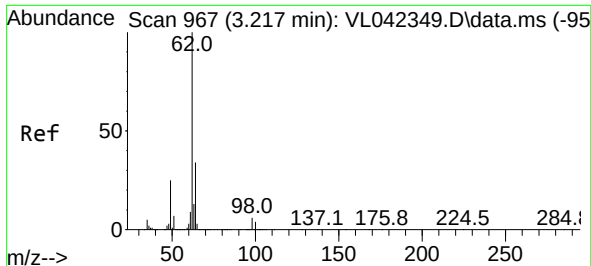
Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 78 Resp: 314493

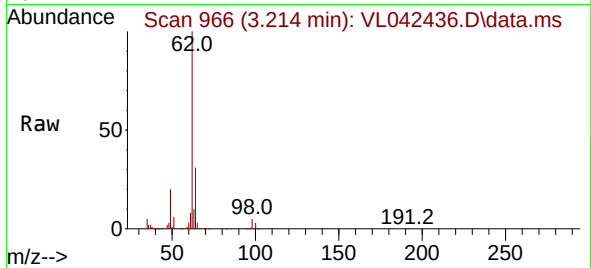
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.1  | 17.4  | 26.0  |
| 50  | 22.6  | 15.5  | 23.3  |





#37  
1,2-Dichloroethane  
Concen: 12.134 ppbv  
RT: 3.214 min Scan# 966  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

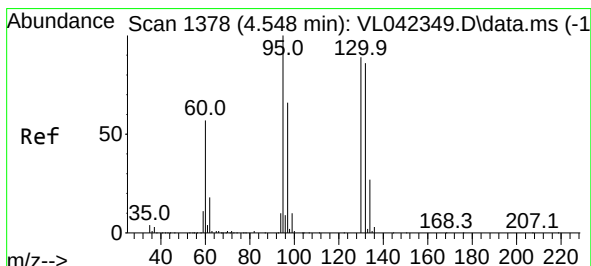
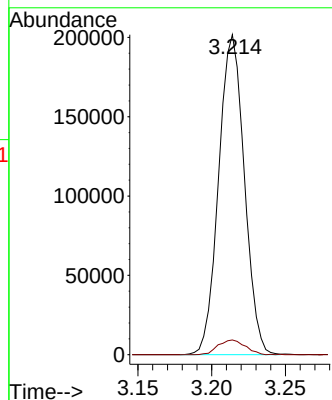
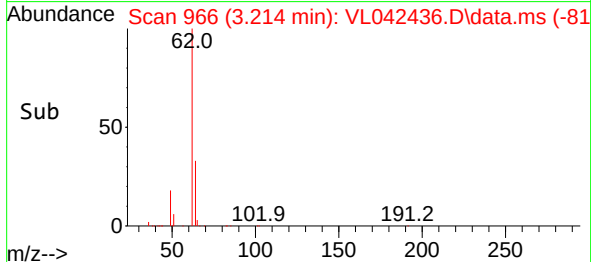
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



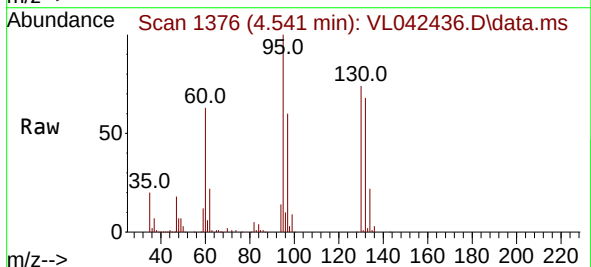
Tgt Ion: 62 Resp: 244510  
Ion Ratio Lower Upper  
62 100  
98 4.9 5.1 7.7

Manual Integrations  
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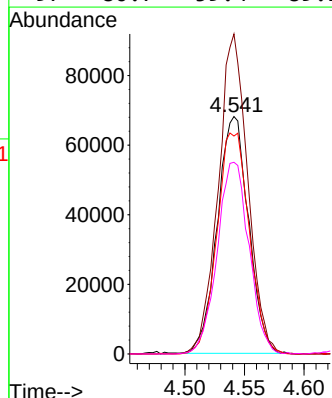
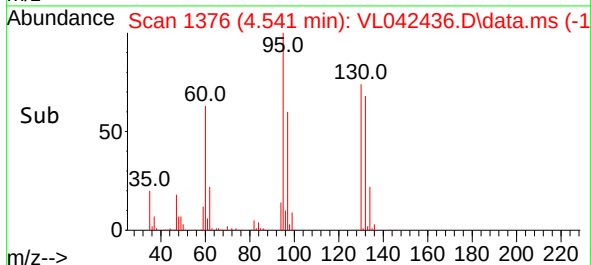
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

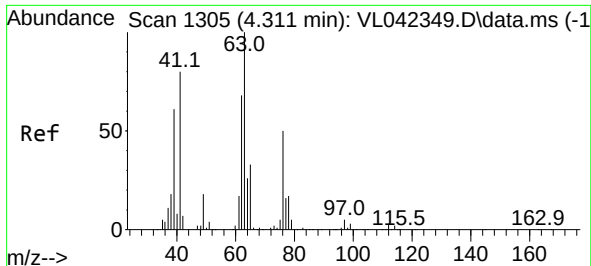


#38  
Trichloroethene  
Concen: 8.450 ppbv  
RT: 4.541 min Scan# 1376  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



Tgt Ion:130 Resp: 123997  
Ion Ratio Lower Upper  
130 100  
95 134.8 89.8 134.6#  
132 92.0 77.7 116.5  
97 80.7 59.4 89.2





#39

1,2-Dichloropropane

Concen: 8.817 ppbv

RT: 4.305 min Scan# 11031

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 11031

Ion Ratio Lower Upper

63 100

41 102.2 64.2 96.2

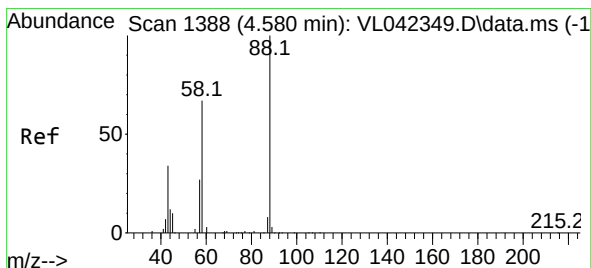
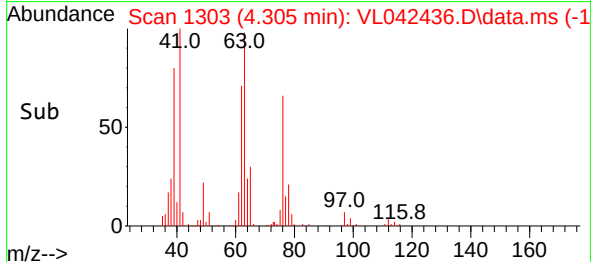
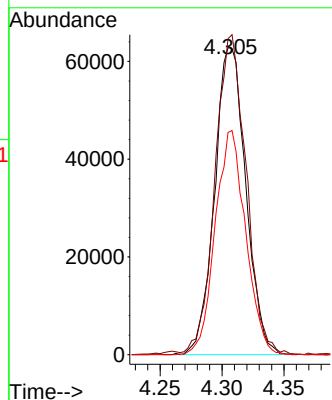
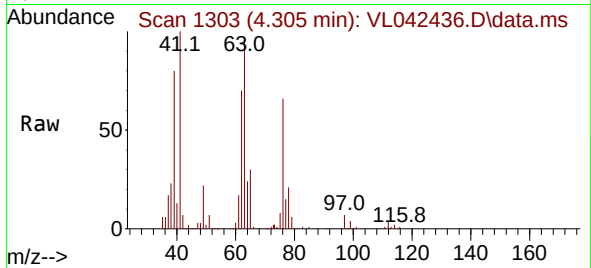
62 72.1 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#40

1,4-Dioxane

Concen: 7.907 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 88 Resp: 54364

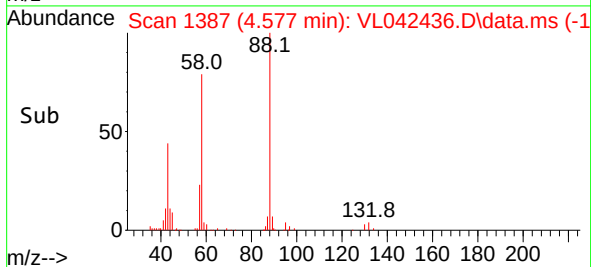
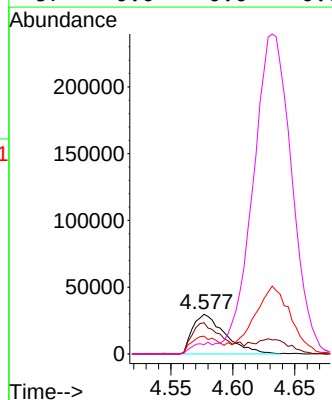
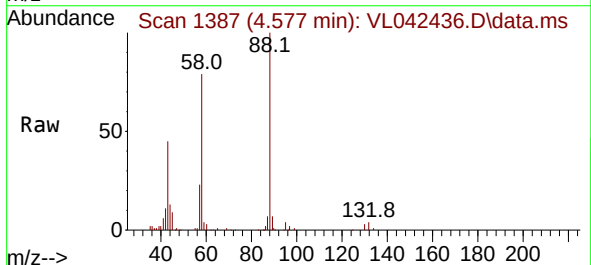
Ion Ratio Lower Upper

88 100

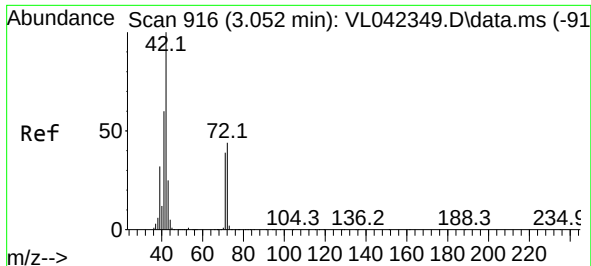
58 81.3 61.4 92.0

43 40.1 23.2 34.8

57 0.0 0.0 0.0

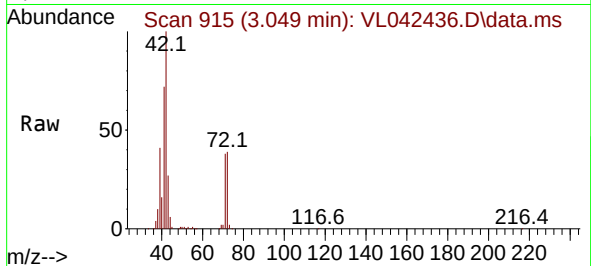






#41  
Tetrahydrofuran  
Concen: 8.479 ppbv  
RT: 3.049 min Scan# 916  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

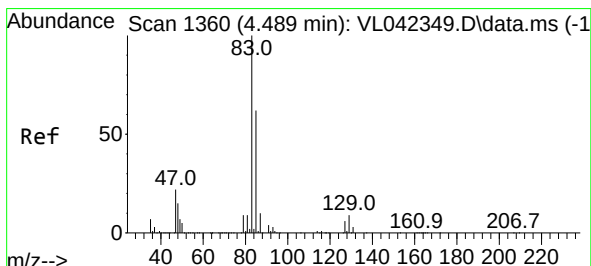
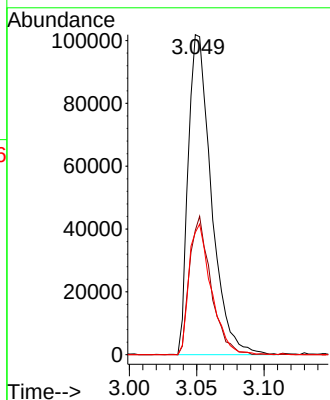
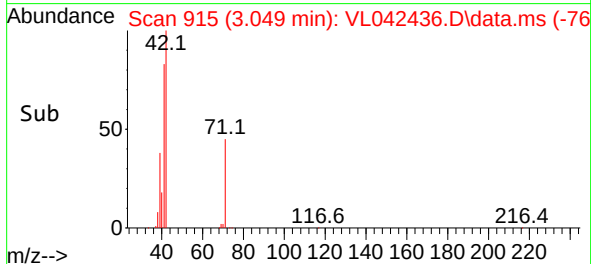
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



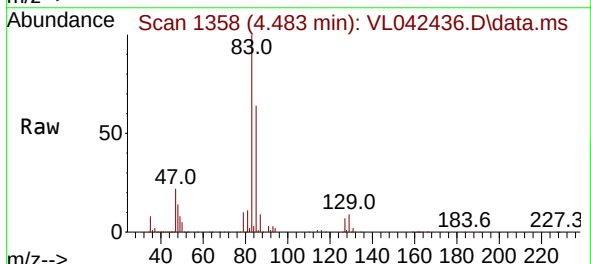
Tgt Ion: 42 Resp: 121700  
Ion Ratio Lower Upper  
42 100  
72 40.2 32.3 48.5  
71 39.5 31.4 47.2

Manual Integrations  
APPROVED

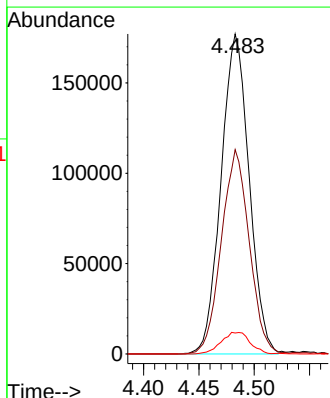
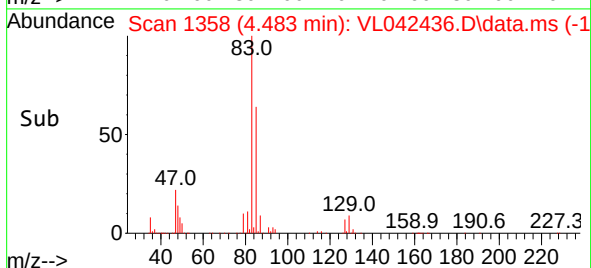
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

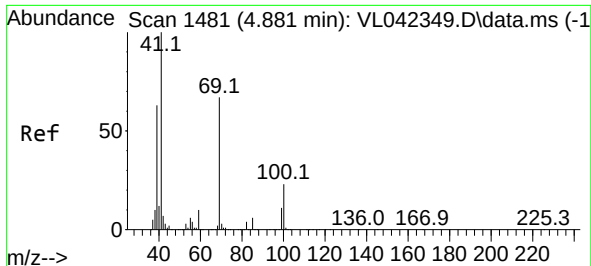


#42  
Bromodichloromethane  
Concen: 11.127 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



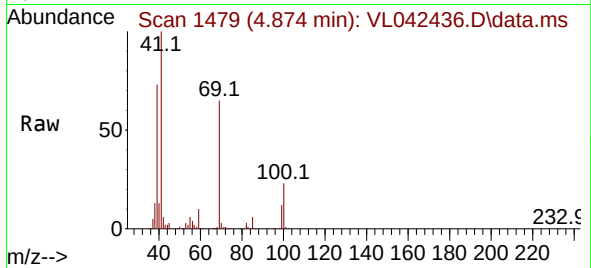
Tgt Ion: 83 Resp: 312029  
Ion Ratio Lower Upper  
83 100  
85 63.8 49.7 74.5  
127 6.6 5.1 7.7





#43  
Methyl Methacrylate  
Concen: 8.367 ppbv  
RT: 4.874 min Scan# 1479  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

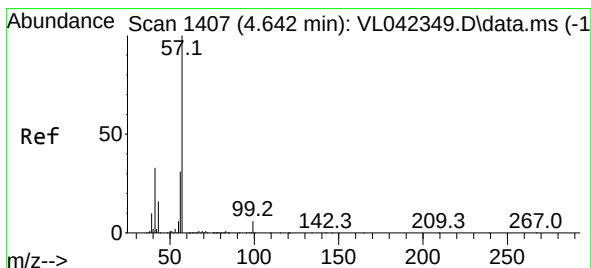
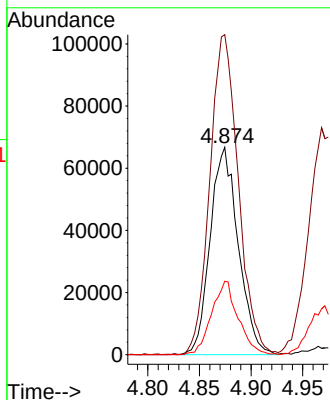
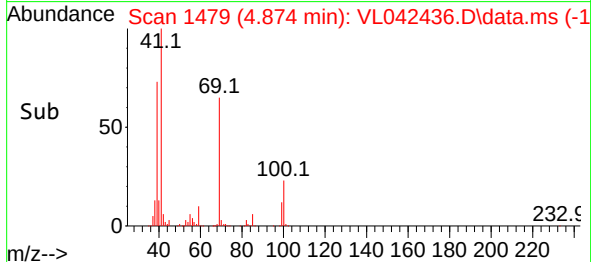
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



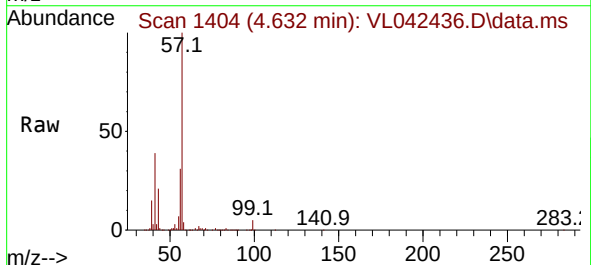
Tgt Ion: 69 Resp: 126594  
Ion Ratio Lower Upper  
69 100  
41 156.3 118.6 177.8  
100 33.3 28.2 42.2

Manual Integrations  
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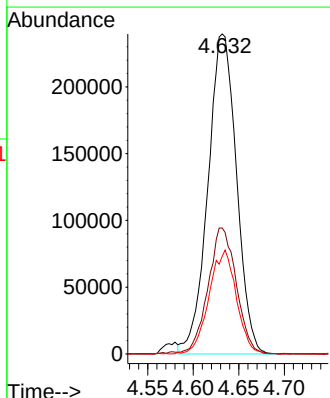
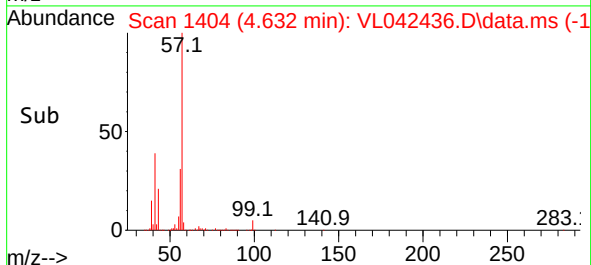
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

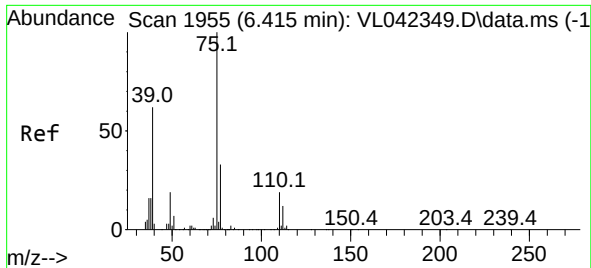


#44  
2,2,4-Trimethylpentane  
Concen: 9.010 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.010 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



Tgt Ion: 57 Resp: 522427  
Ion Ratio Lower Upper  
57 100  
41 39.2 27.2 40.8  
56 31.1 25.7 38.5





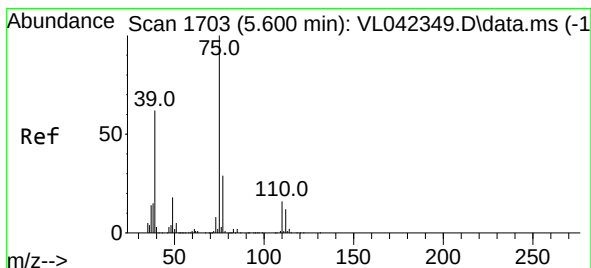
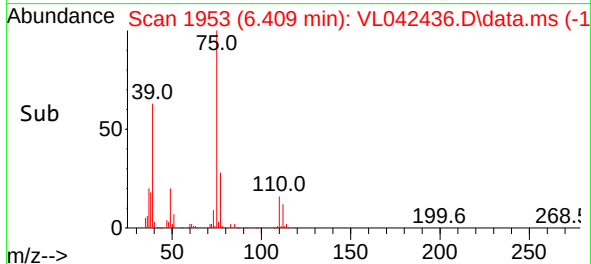
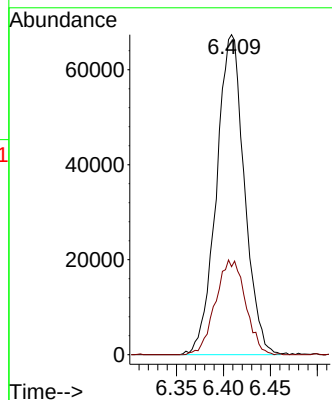
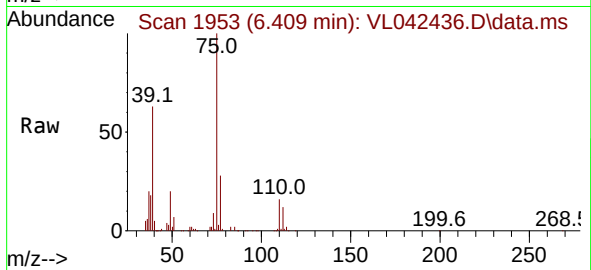
#45  
t-1,3-Dichloropropene  
Concen: 9.026 ppbv  
RT: 6.409 min Scan# 1955  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 75 Resp: 139508  
Ion Ratio Lower Upper  
75 100  
77 27.5 27.0 40.6

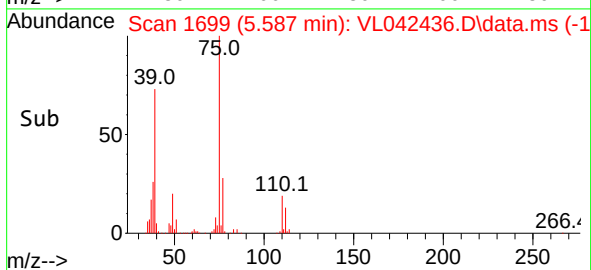
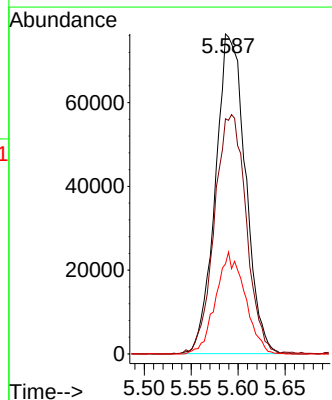
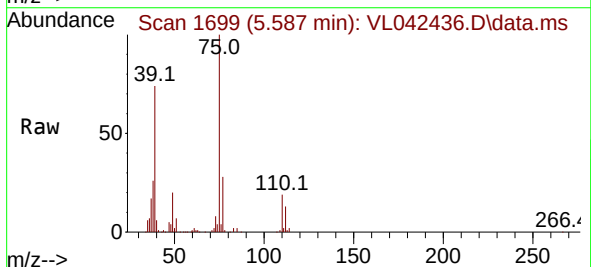
Manual Integrations  
APPROVED

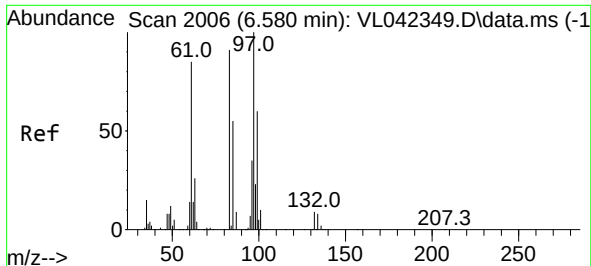
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#46  
cis-1,3-Dichloropropene  
Concen: 8.953 ppbv  
RT: 5.587 min Scan# 1699  
Delta R.T. -0.013 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

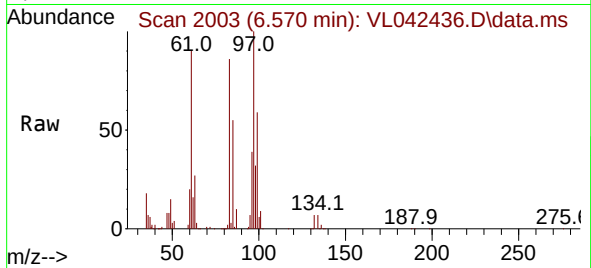
Tgt Ion: 75 Resp: 169355  
Ion Ratio Lower Upper  
75 100  
39 73.4 50.0 75.0  
77 28.2 23.0 34.6





#47  
1,1,2-Trichloroethane  
Concen: 10.138 ppbv m  
RT: 6.570 min Scan# 2006  
Delta R.T. -0.010 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

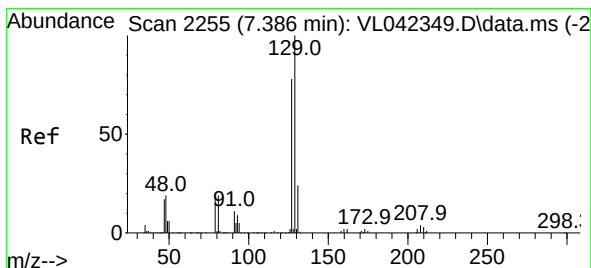
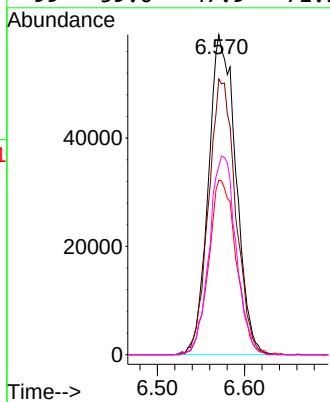
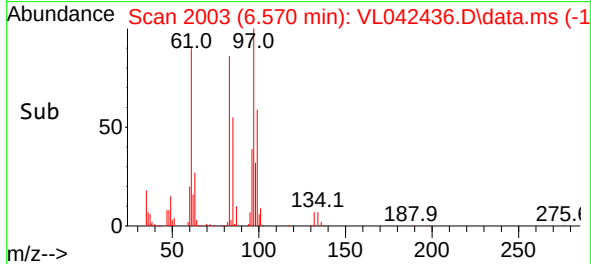
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



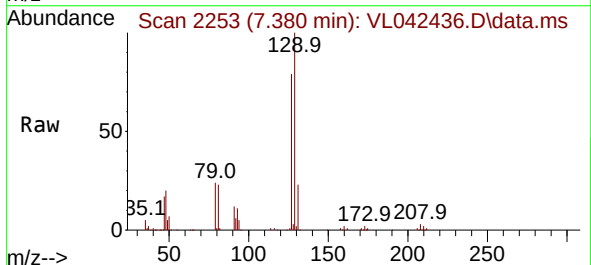
Tgt Ion: 97 Resp: 129223  
Ion Ratio Lower Upper  
97 100  
83 86.1 72.8 109.2  
85 54.6 44.2 66.4  
99 59.0 47.9 71.9

Manual Integrations  
APPROVED

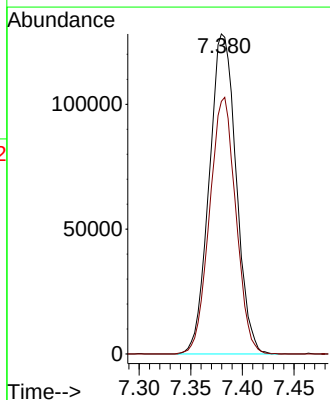
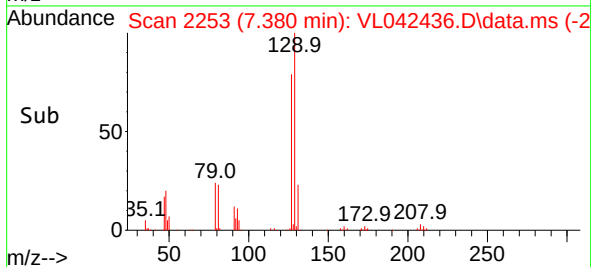
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

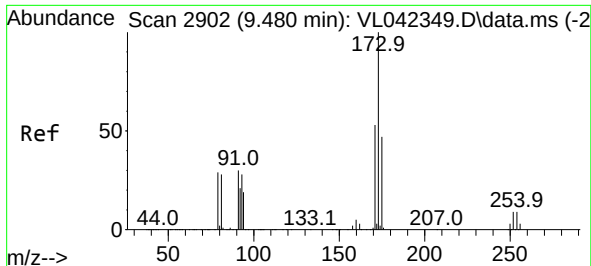


#48  
Dibromochloromethane  
Concen: 10.339 ppbv  
RT: 7.380 min Scan# 2253  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



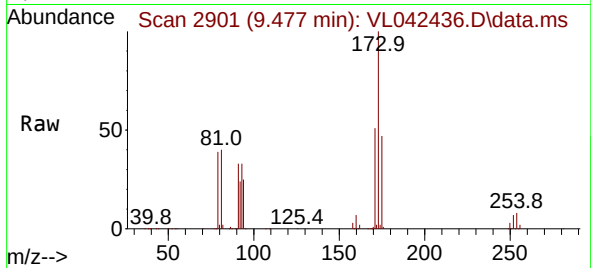
Tgt Ion:129 Resp: 232818  
Ion Ratio Lower Upper  
129 100  
127 78.1 39.1 117.3





#49  
Bromoform  
Concen: 9.593 ppbv  
RT: 9.477 min Scan# 2902  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

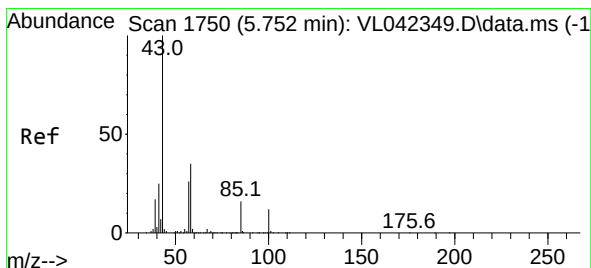
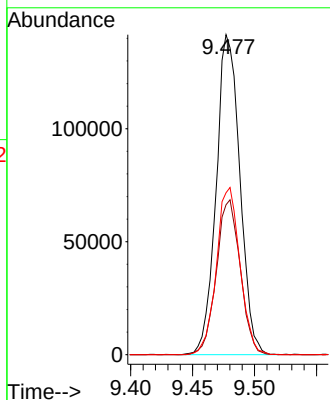
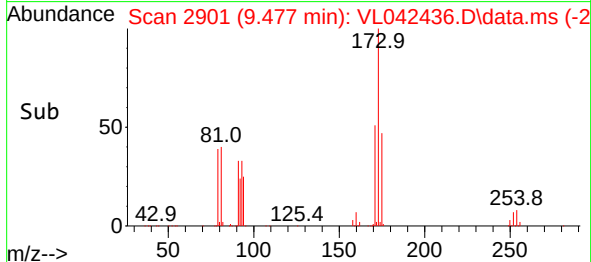
Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010



Tgt Ion:173 Resp: 188890  
Ion Ratio Lower Upper  
173 100  
175 48.7 38.2 57.2  
171 52.0 40.9 61.3

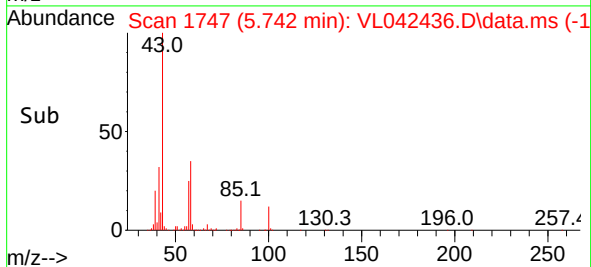
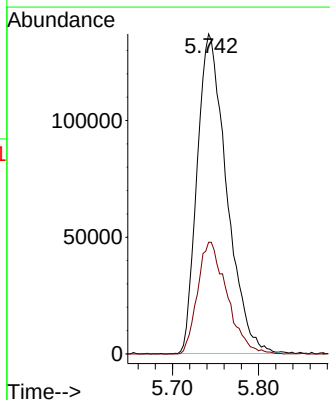
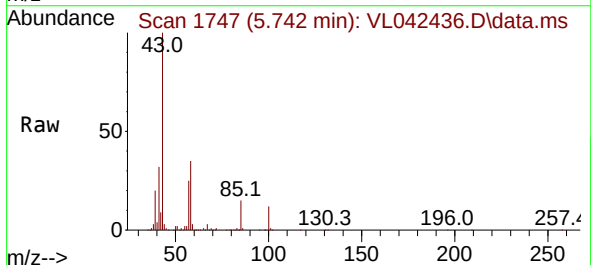
Manual Integrations  
APPROVED

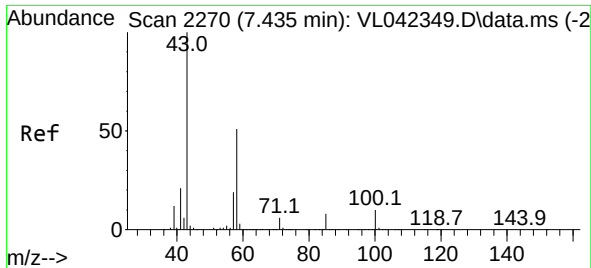
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#50  
4-Methyl-2-Pentanone  
Concen: 7.965 ppbv  
RT: 5.742 min Scan# 1747  
Delta R.T. -0.010 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

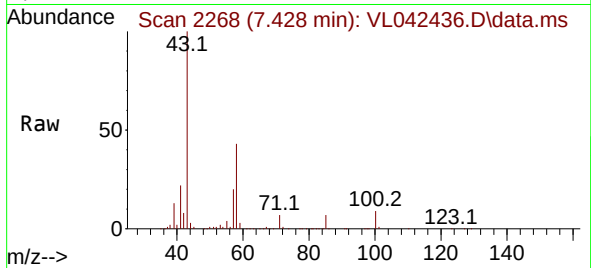
Tgt Ion: 43 Resp: 325855  
Ion Ratio Lower Upper  
43 100  
58 35.1 28.6 43.0





#51  
2-Hexanone  
Concen: 7.357 ppbv  
RT: 7.428 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

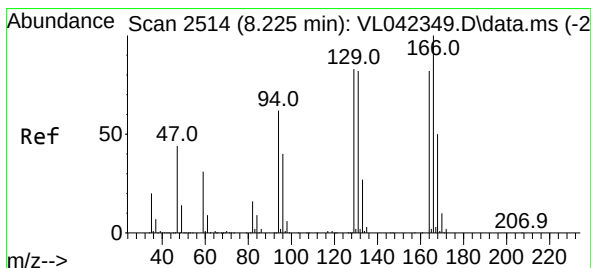
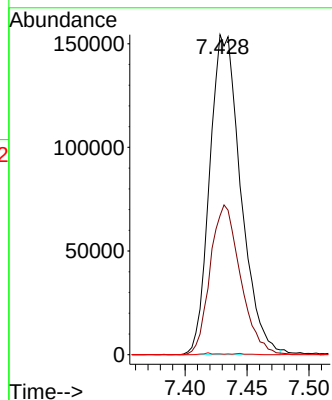
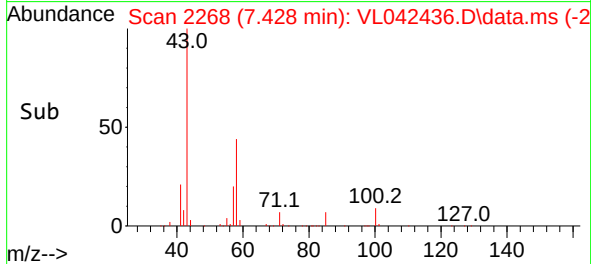
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 43 Resp: 269915  
Ion Ratio Lower Upper  
43 100  
58 45.8 40.2 60.4  
98 0.4 0.1 0.1

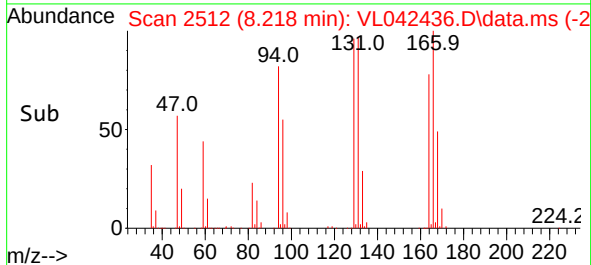
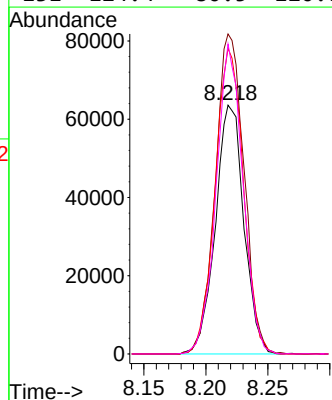
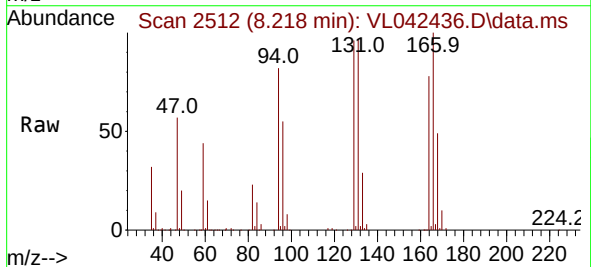
Manual Integrations  
APPROVED

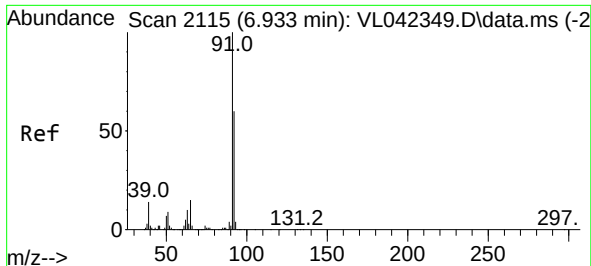
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#52  
Tetrachloroethene  
Concen: 7.833 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:164 Resp: 101642  
Ion Ratio Lower Upper  
164 100  
166 128.6 98.2 147.2  
129 122.8 81.8 122.8#  
131 124.4 80.5 120.7#





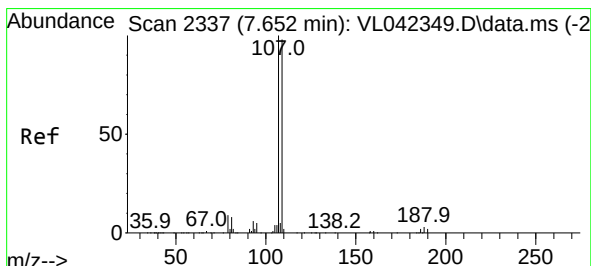
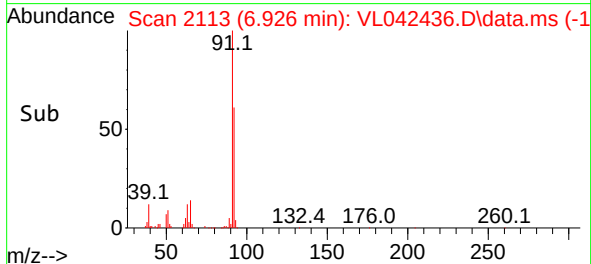
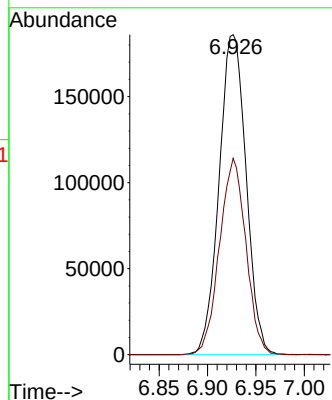
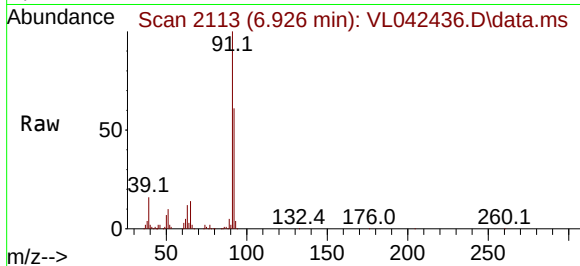
#53  
Toluene  
Concen: 8.968 ppbv  
RT: 6.926 min Scan# 2115  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 36131  
Ion Ratio Lower Upper  
91 100  
92 59.9 48.2 72.4

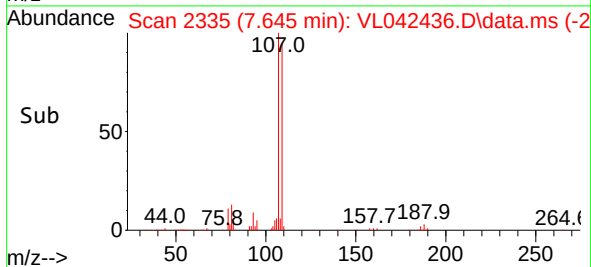
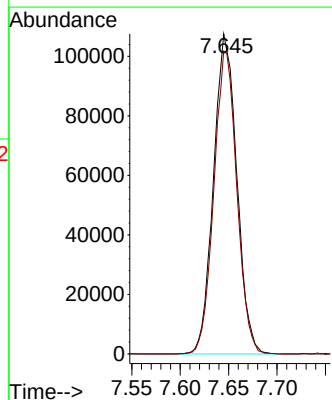
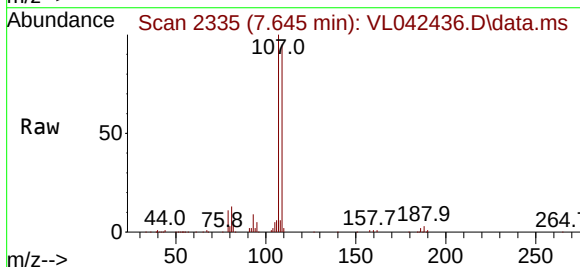
Manual Integrations  
APPROVED

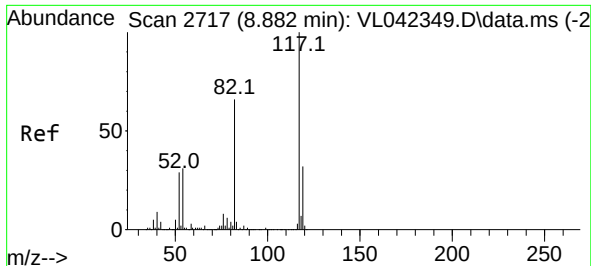
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#54  
1,2-Dibromoethane  
Concen: 9.861 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

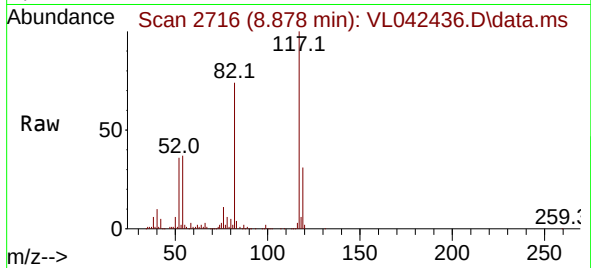
Tgt Ion:107 Resp: 179895  
Ion Ratio Lower Upper  
107 100  
109 94.7 78.2 117.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

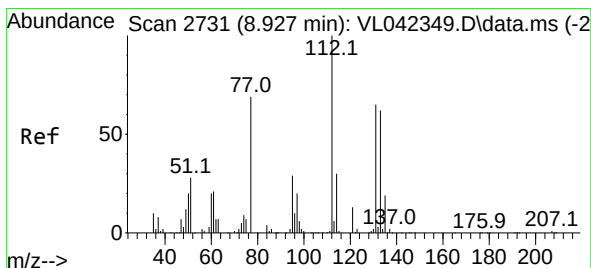
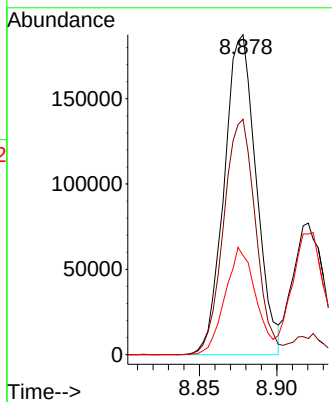
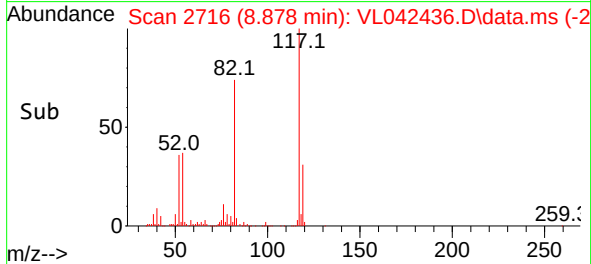
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion:117 Resp: 26998  
Ion Ratio Lower Upper  
117 100  
82 79.6 57.8 86.6  
119 32.9 25.2 37.8

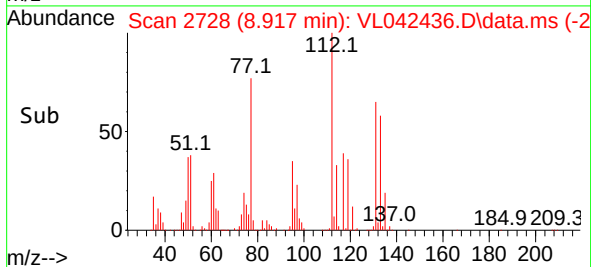
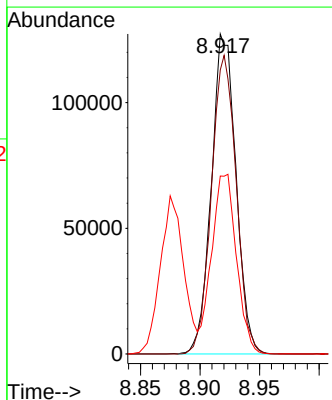
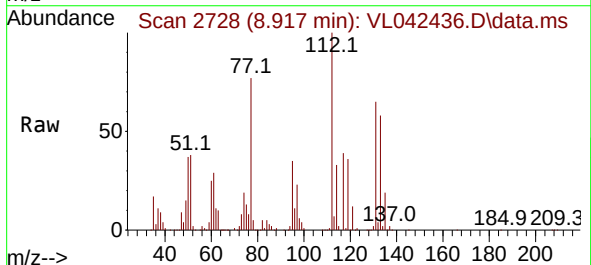
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

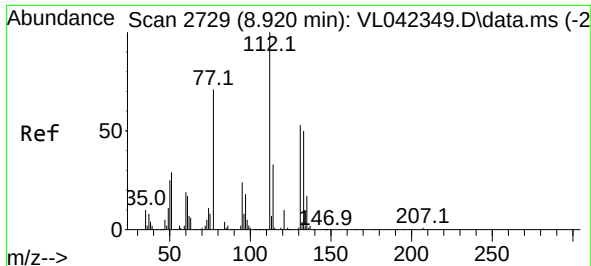


#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.184 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. -0.010 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:131 Resp: 182759  
Ion Ratio Lower Upper  
131 100  
133 93.9 78.3 117.5  
119 55.8 48.7 73.1

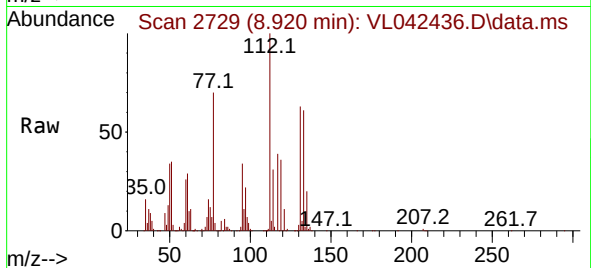






#57  
Chlorobenzene  
Concen: 10.086 ppbv  
RT: 8.920 min Scan# 2729  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

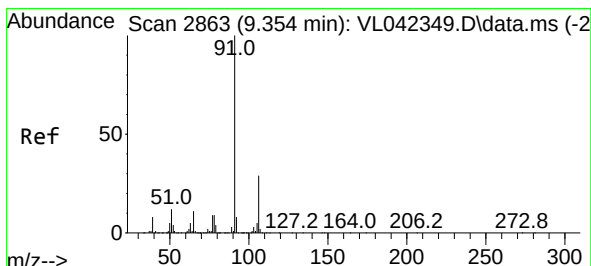
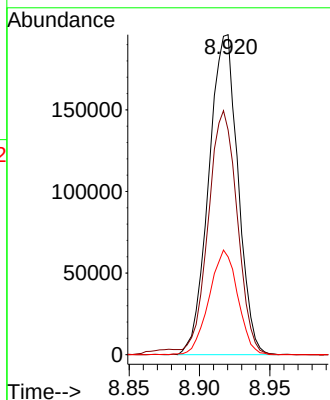
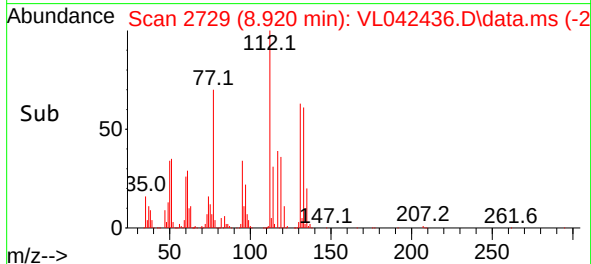
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 112 Resp: 283210  
Ion Ratio Lower Upper  
112 100  
77 70.2 57.8 86.6  
114 30.6 29.3 35.9

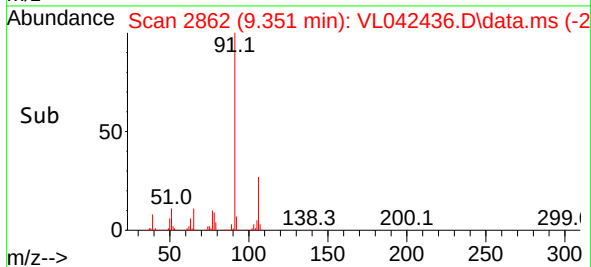
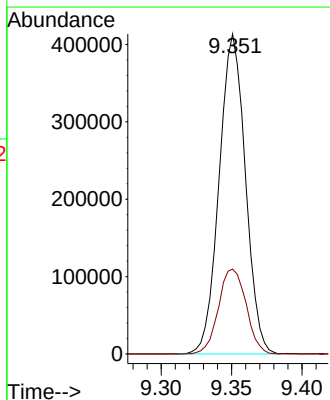
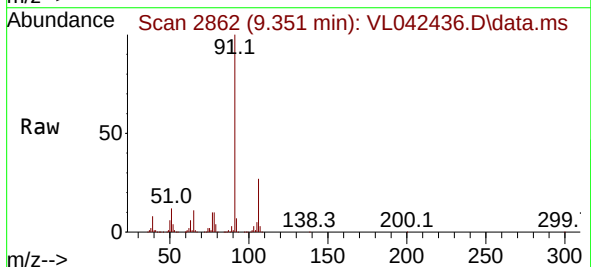
Manual Integrations  
APPROVED

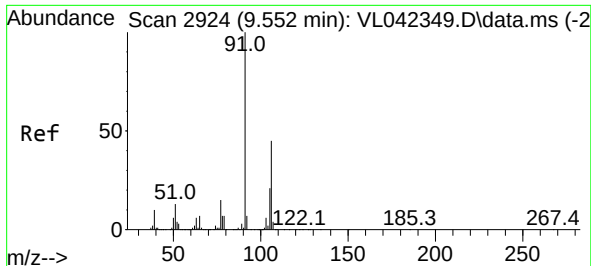
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#58  
Ethyl Benzene  
Concen: 10.032 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 536634  
Ion Ratio Lower Upper  
91 100  
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 21.110 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 909704

Ion Ratio Lower Upper

91 100

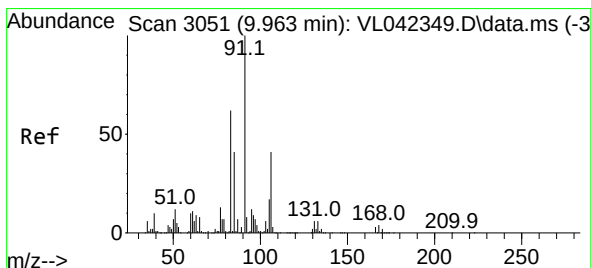
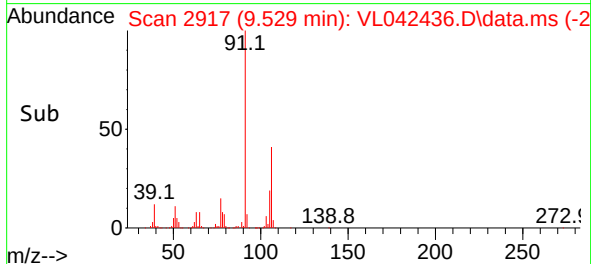
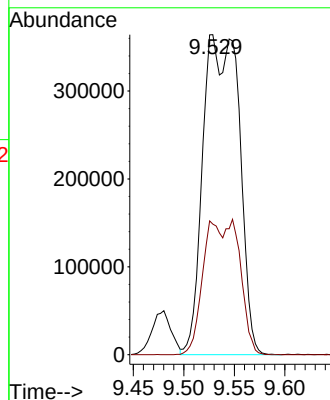
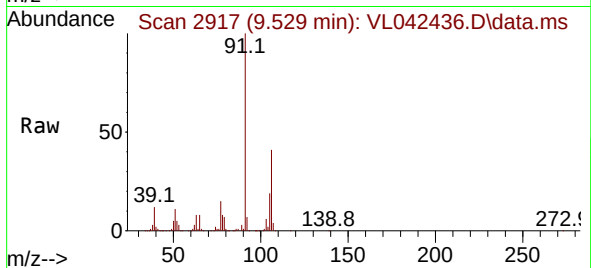
106 41.9 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#60

o-Xylene

Concen: 10.686 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042436.D

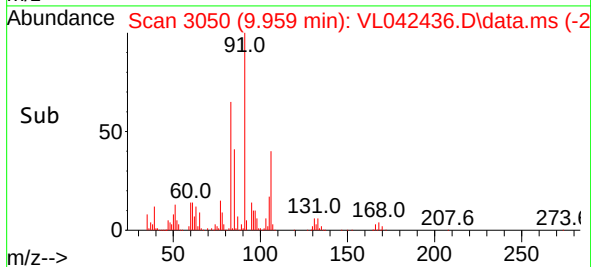
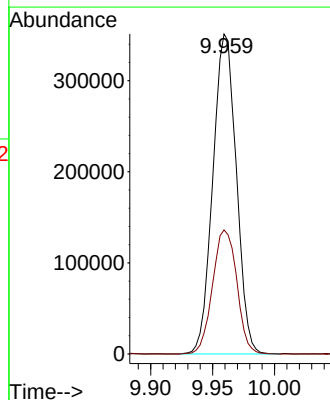
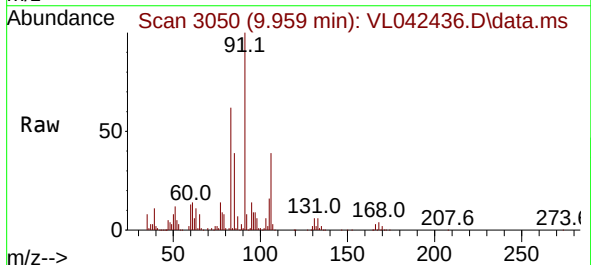
Acq: 29 Apr 2025 08:39

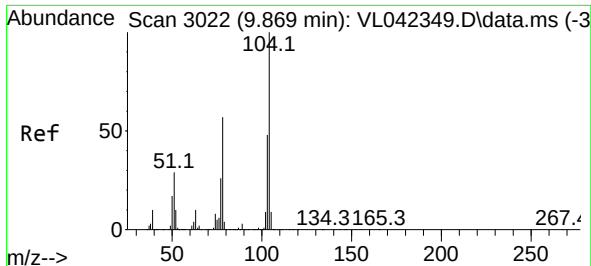
Tgt Ion: 91 Resp: 463713

Ion Ratio Lower Upper

91 100

106 40.0 21.1 63.4





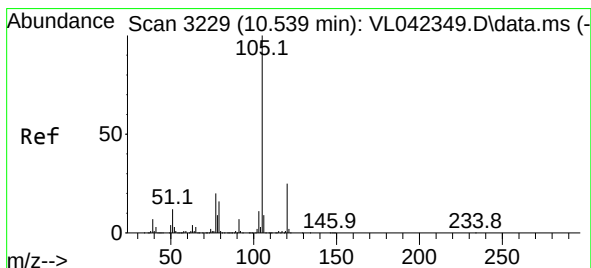
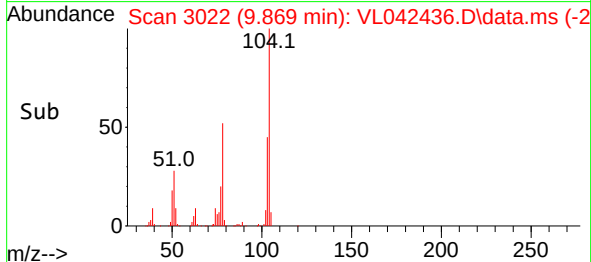
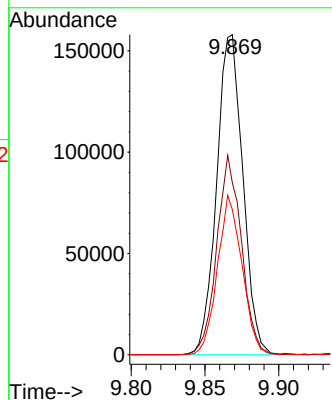
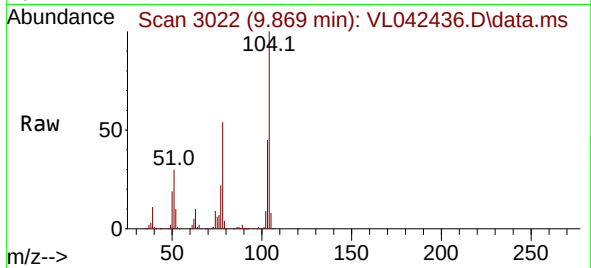
#61  
Styrene  
Concen: 9.454 ppbv  
RT: 9.869 min Scan# 3022  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:104 Resp: 195811  
Ion Ratio Lower Upper  
104 100  
78 58.5 44.6 66.8  
103 46.7 37.4 56.0

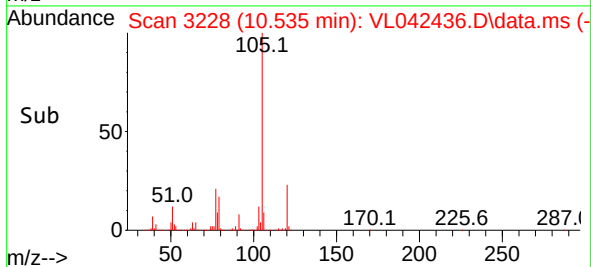
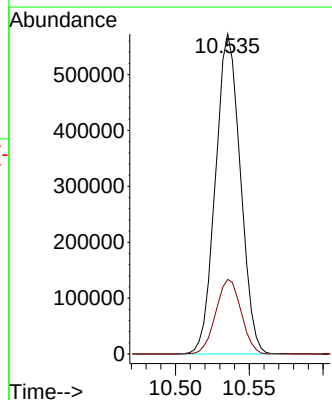
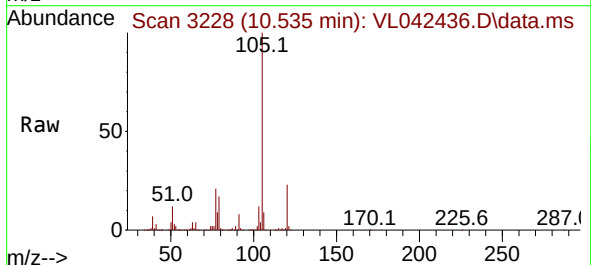
Manual Integrations  
APPROVED

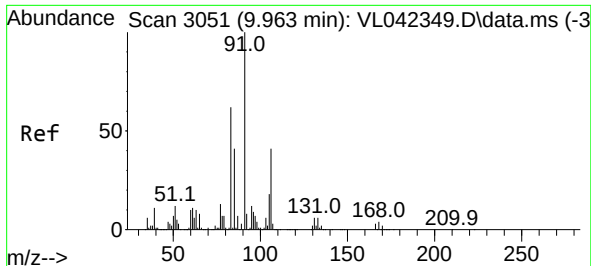
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#62  
Isopropylbenzene  
Concen: 10.558 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 672630  
Ion Ratio Lower Upper  
105 100  
120 23.7 19.8 29.8





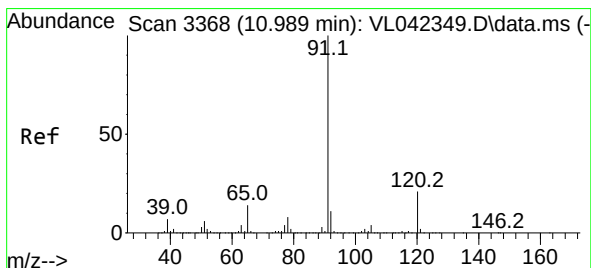
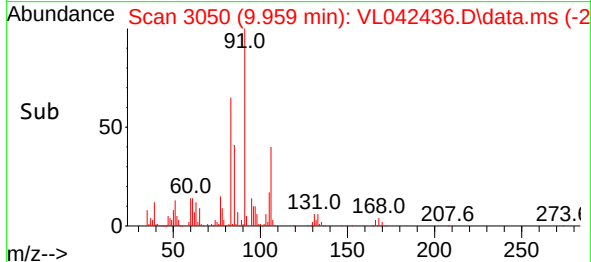
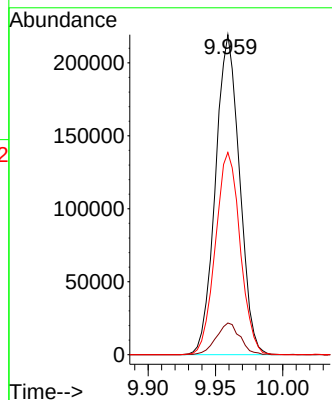
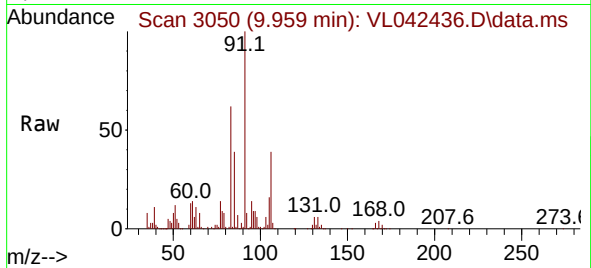
#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.699 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument : MSVOA\_L  
ClientSampleId : VSTDCCC010

Tgt Ion: 83 Resp: 272740  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.5 13.7  
85 65.0 32.4 97.0

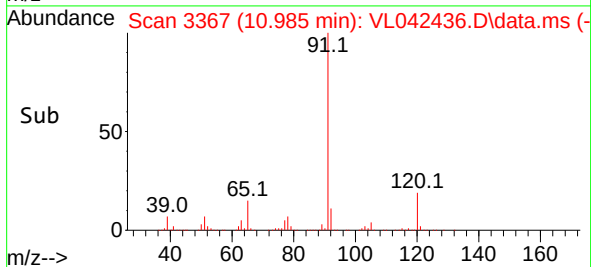
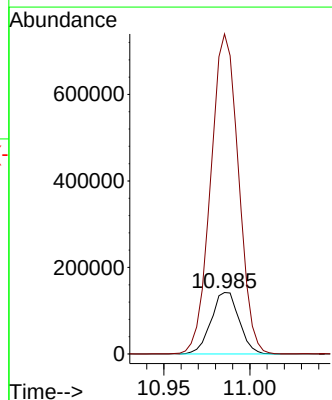
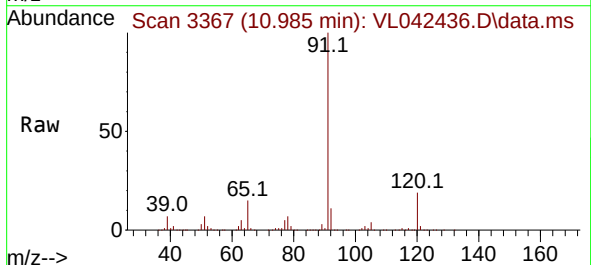
Manual Integrations  
APPROVED

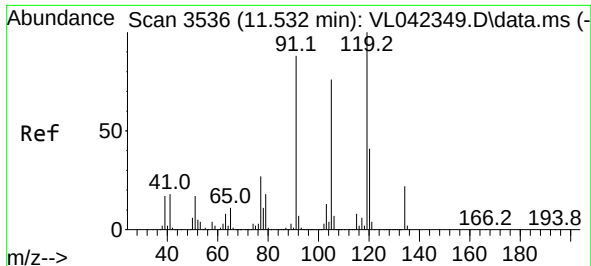
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#64  
n-propylbenzene  
Concen: 10.037 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

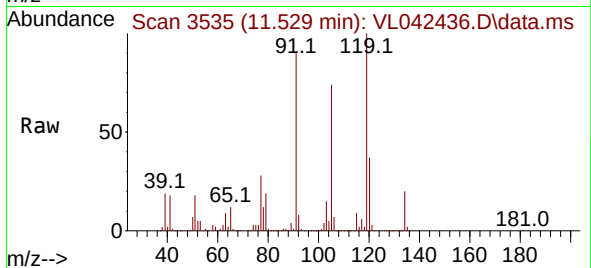
Tgt Ion:120 Resp: 160736  
Ion Ratio Lower Upper  
120 100  
91 518.7 392.4 588.6





#65  
tert-Butylbenzene  
Concen: 10.535 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

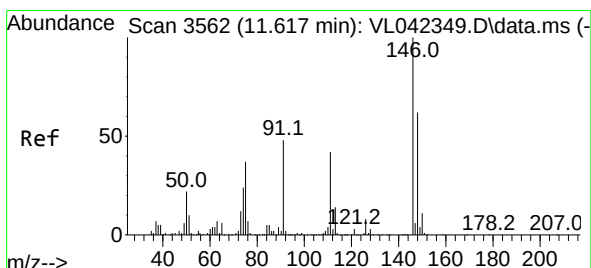
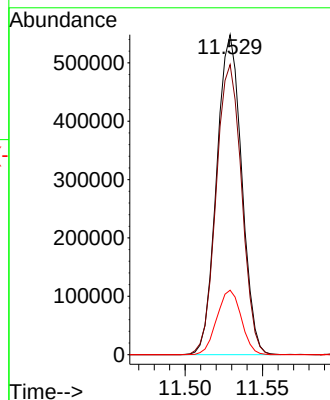
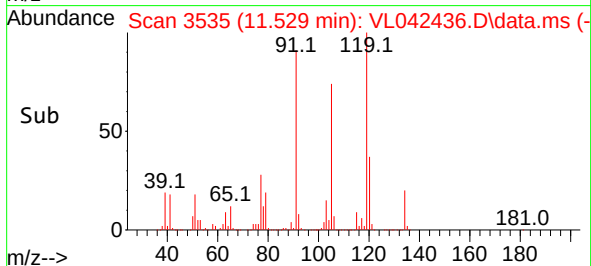
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 119 Resp: 616872  
Ion Ratio Lower Upper  
119 100  
91 92.2 74.6 111.8  
134 19.6 18.8 28.2

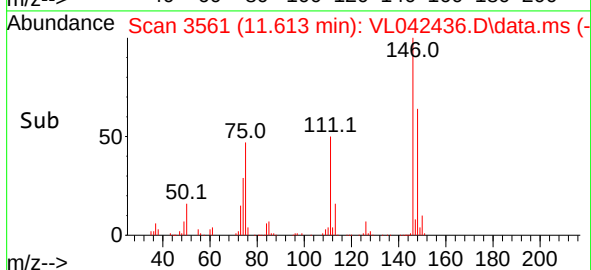
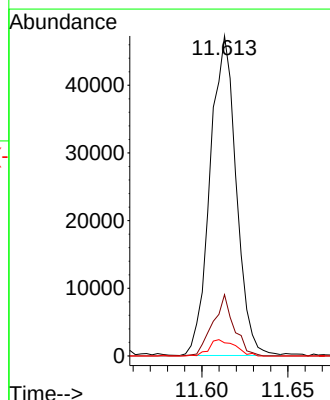
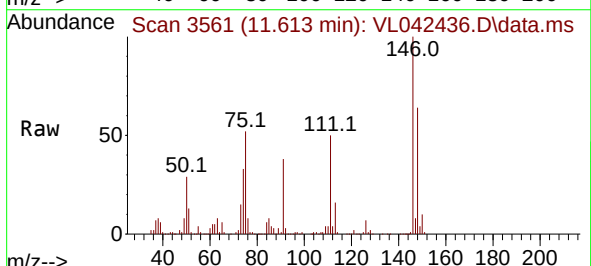
Manual Integrations  
APPROVED

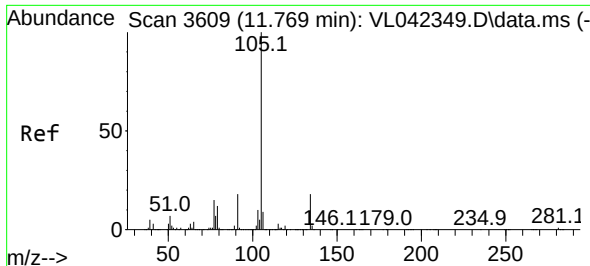
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#66  
Benzyl Chloride  
Concen: 7.746 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 49841  
Ion Ratio Lower Upper  
91 100  
126 15.4 11.8 17.6  
128 5.1 4.5 6.7





#67

sec-Butylbenzene

Concen: 10.677 ppbv

RT: 11.765 min Scan# 3608

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 86959

Ion Ratio Lower Upper

105 100

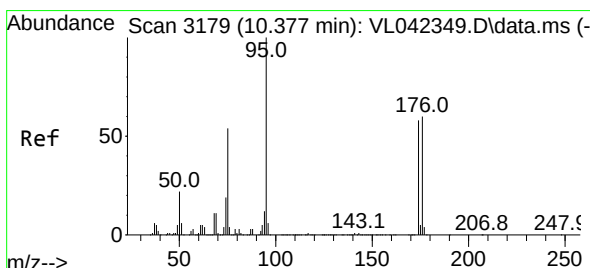
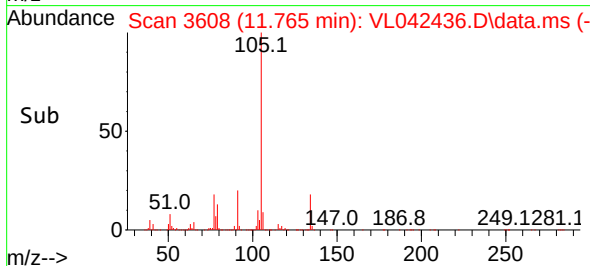
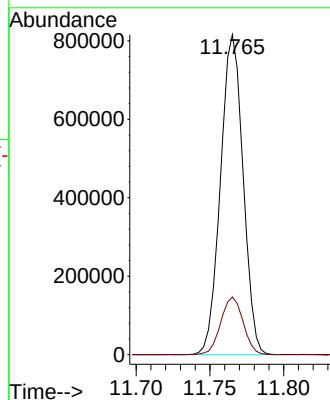
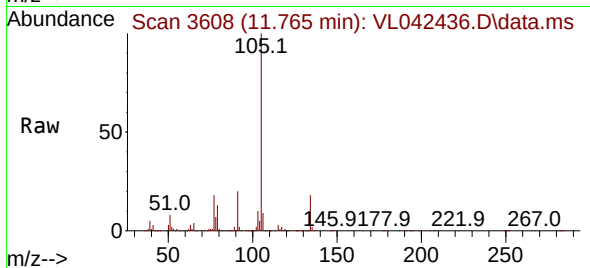
134 17.9 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 11.413 ppbv

RT: 10.373 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

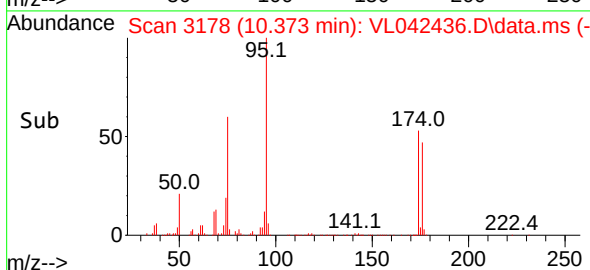
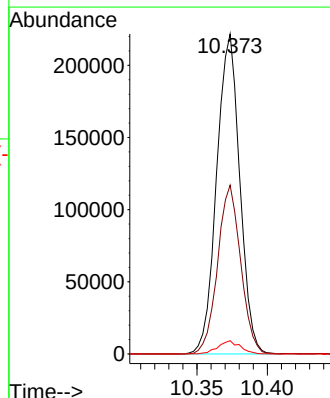
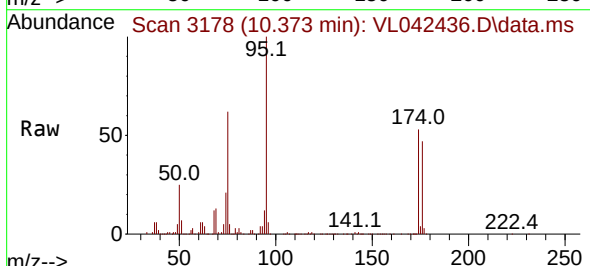
Tgt Ion: 95 Resp: 253216

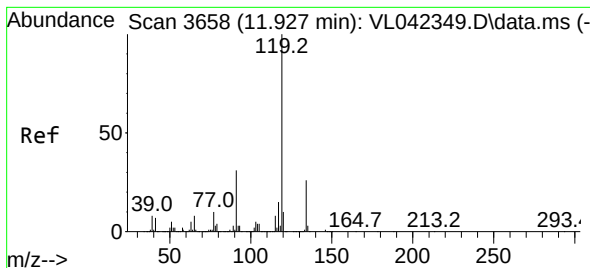
Ion Ratio Lower Upper

95 100

174 52.8 48.5 72.7

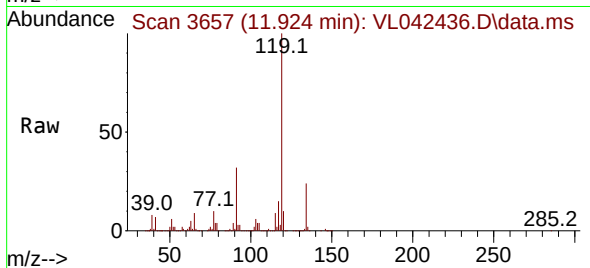
175 4.0 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 10.442 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

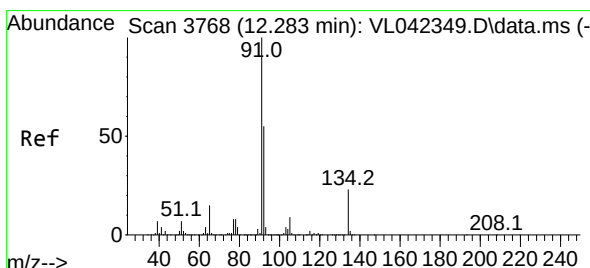
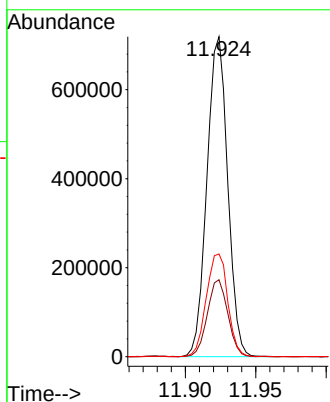
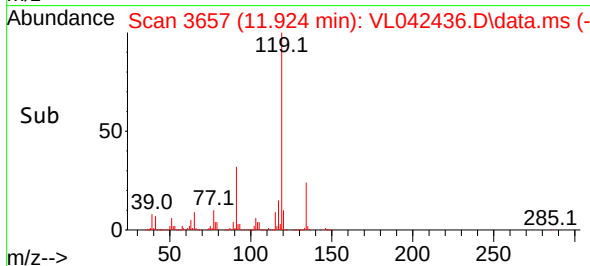
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



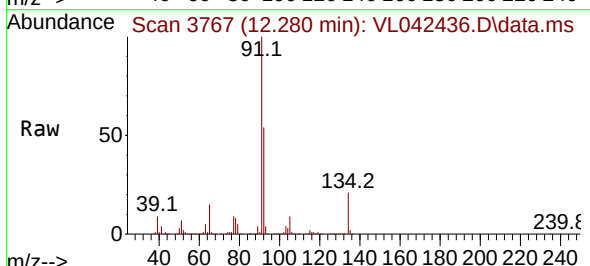
Tgt Ion: 119 Resp: 73886  
Ion Ratio Lower Upper  
119 100  
134 23.9 20.0 30.0  
91 33.5 24.4 36.6

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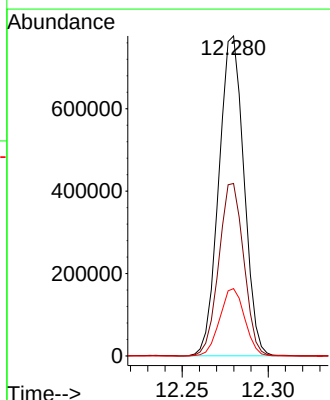
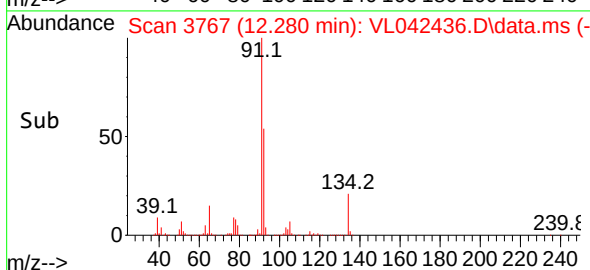
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

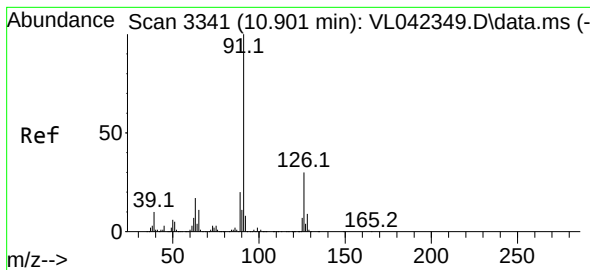


#70  
n-Butylbenzene  
Concen: 10.688 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



Tgt Ion: 91 Resp: 787717  
Ion Ratio Lower Upper  
91 100  
92 53.9 44.2 66.4  
134 21.0 18.2 27.4





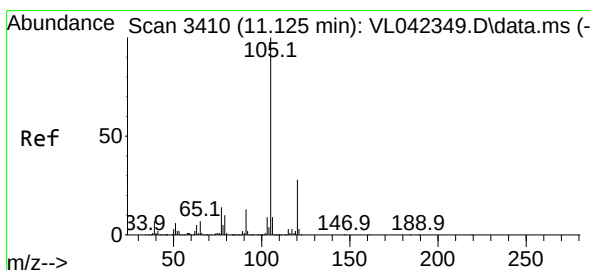
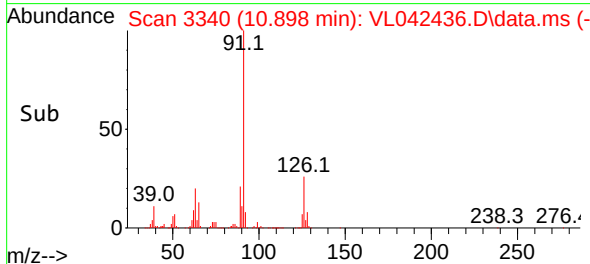
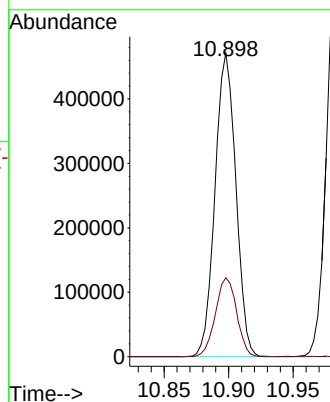
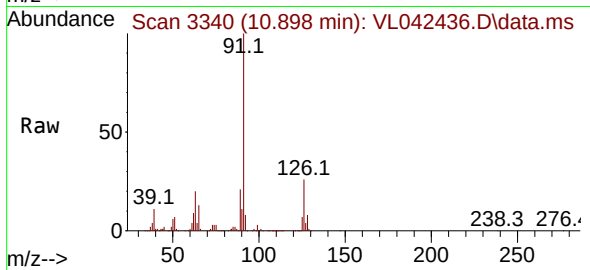
#71  
2-Chlorotoluene  
Concen: 10.571 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 52820  
Ion Ratio Lower Upper  
91 100  
126 26.5 11.4 45.4

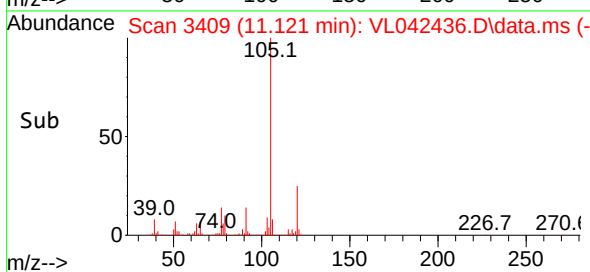
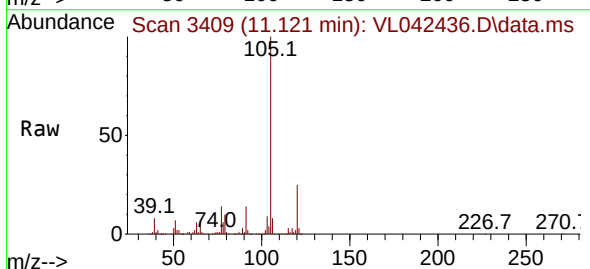
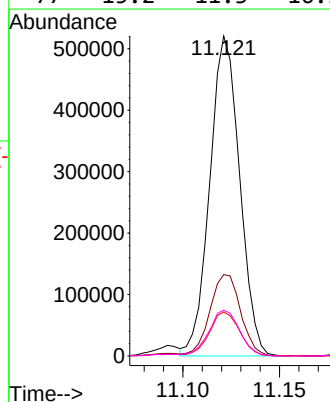
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

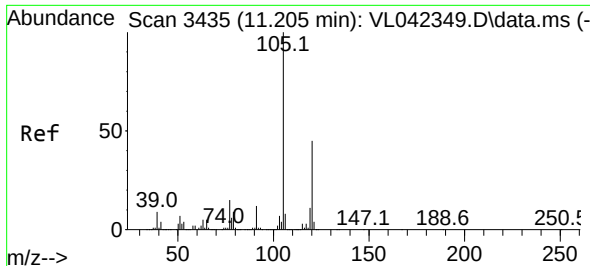


#72  
4-Ethyltoluene  
Concen: 10.542 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 559285  
Ion Ratio Lower Upper  
105 100  
120 27.0 23.2 34.8  
91 14.5 10.4 15.6  
77 15.2 11.3 16.9

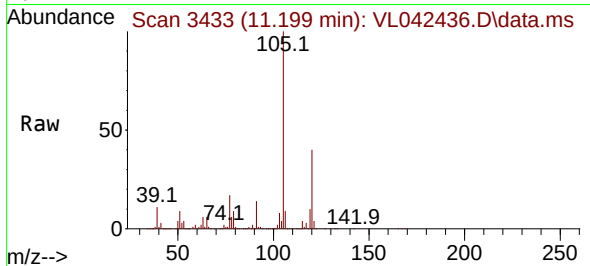






#73  
1,3,5-Trimethylbenzene  
Concen: 10.546 ppbv  
RT: 11.199 min Scan# 3435  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

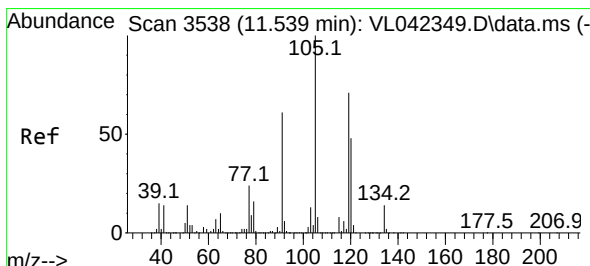
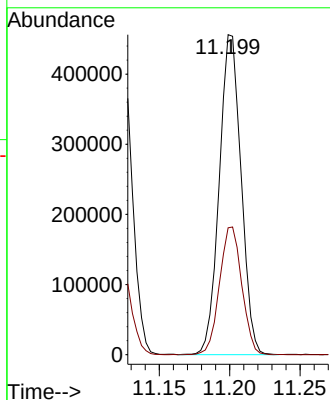
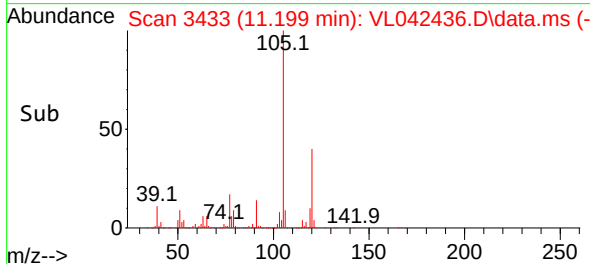
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



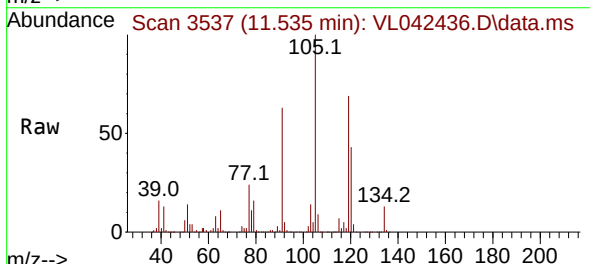
Tgt Ion:105 Resp: 493949  
Ion Ratio Lower Upper  
105 100  
120 39.6 35.6 53.4

Manual Integrations  
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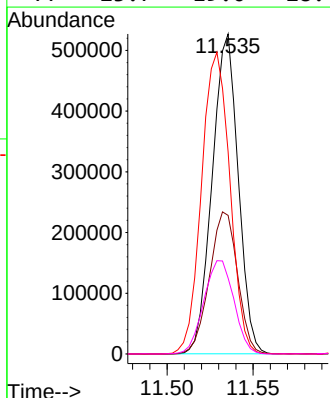
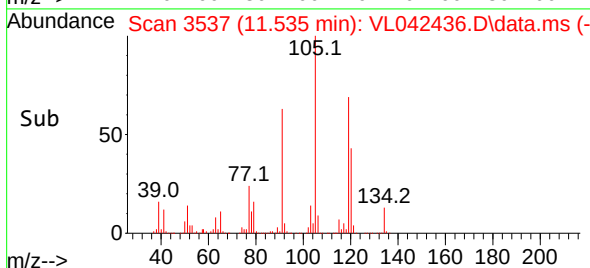
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

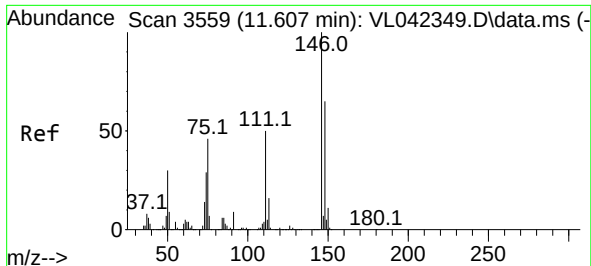


#74  
1,2,4-Trimethylbenzene  
Concen: 10.130 ppbv  
RT: 11.535 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



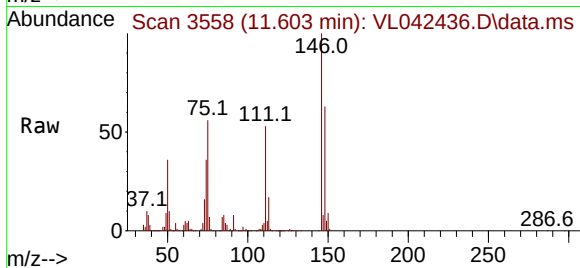
Tgt Ion:105 Resp: 554136  
Ion Ratio Lower Upper  
105 100  
120 43.3 38.1 57.1  
91 63.1 48.8 73.2  
77 23.7 19.0 28.4





#75  
1,3-Dichlorobenzene  
Concen: 10.024 ppbv  
RT: 11.603 min Scan# 3558  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

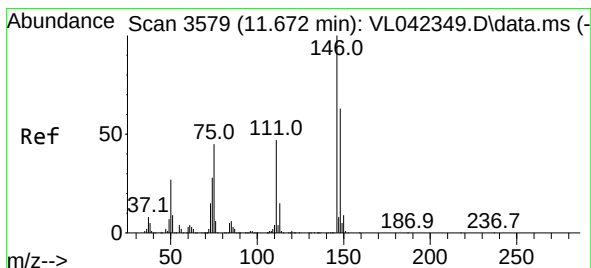
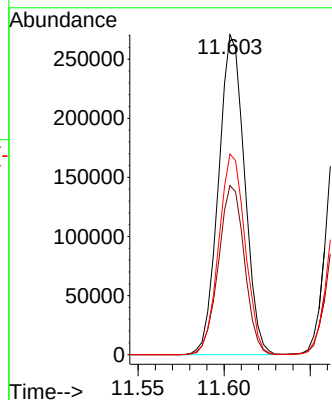
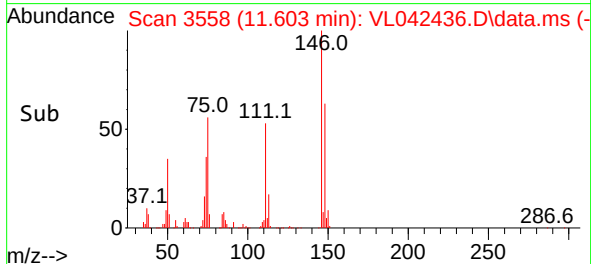
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



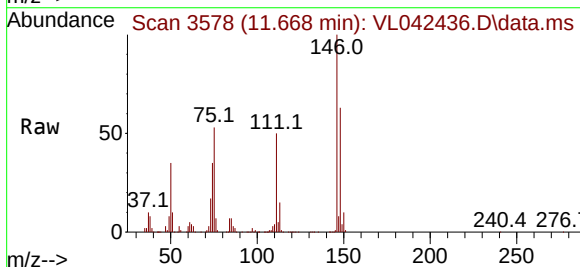
Tgt Ion:146 Resp: 285025  
Ion Ratio Lower Upper  
146 100  
111 52.9 24.3 72.8  
148 63.6 31.6 94.8

Manual Integrations  
APPROVED

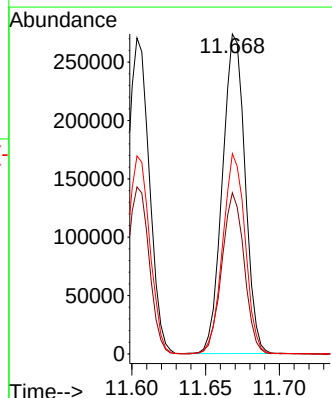
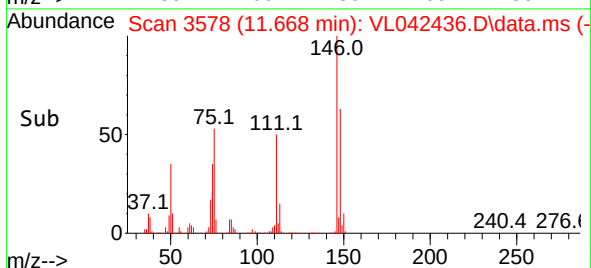
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

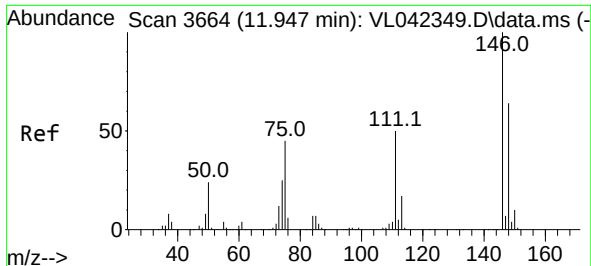


#76  
1,4-Dichlorobenzene  
Concen: 10.210 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



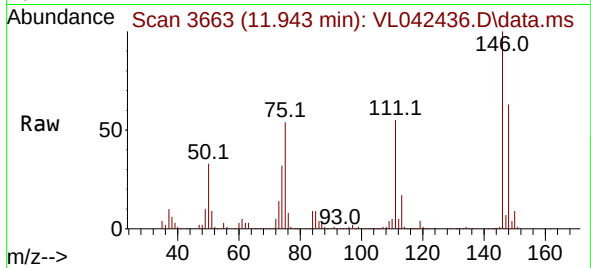
Tgt Ion:146 Resp: 291795  
Ion Ratio Lower Upper  
146 100  
111 50.1 24.2 72.6  
148 62.4 32.1 96.5





#77  
1,2-Dichlorobenzene  
Concen: 10.261 ppbv  
RT: 11.943 min Scan# 3663  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

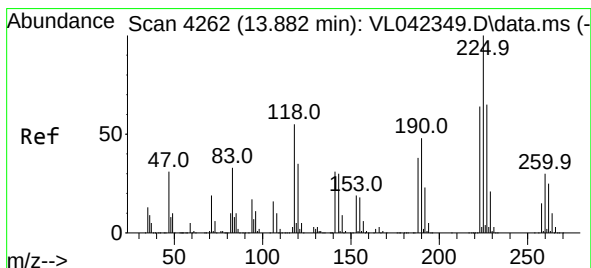
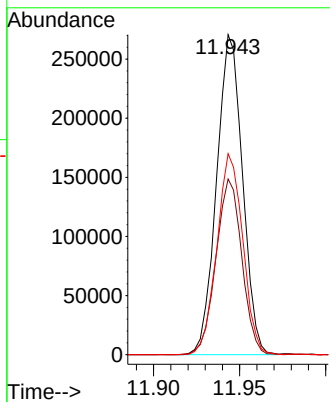
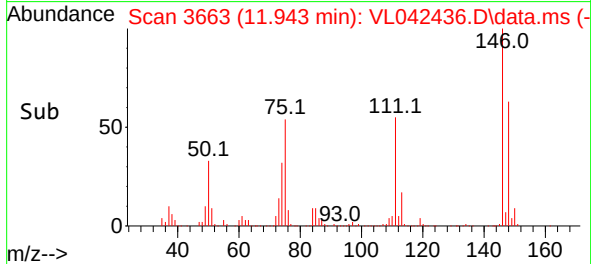
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



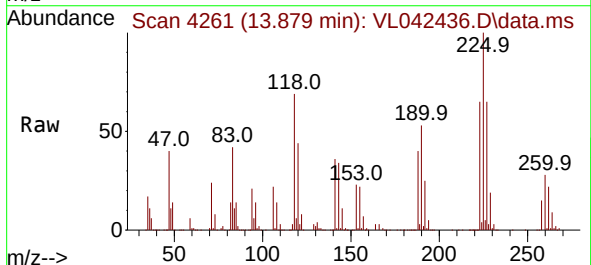
Tgt Ion:146 Resp: 283700  
Ion Ratio Lower Upper  
146 100  
111 54.8 25.3 75.9  
148 63.1 31.5 94.5

Manual Integrations  
APPROVED

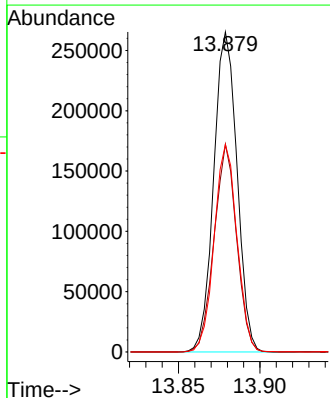
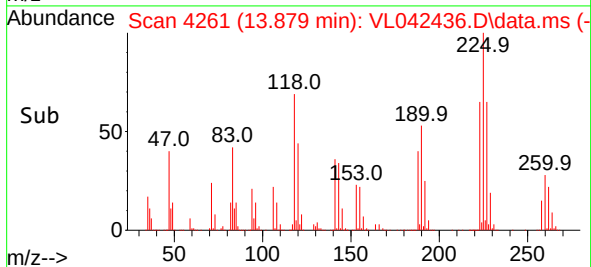
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

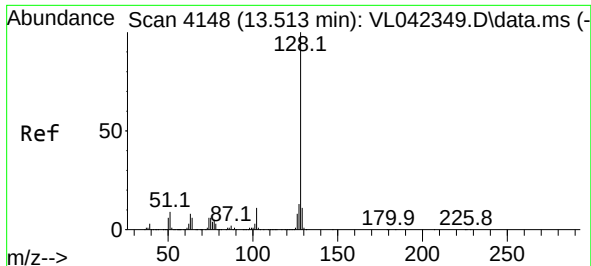


#78  
Hexachloro-1,3-Butadiene  
Concen: 9.437 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



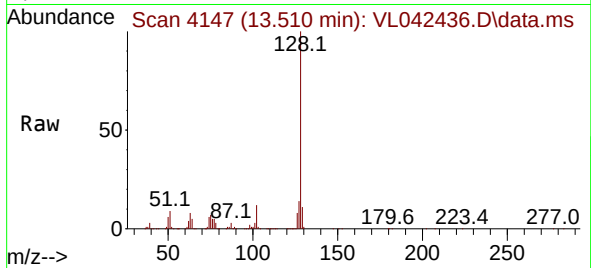
Tgt Ion:225 Resp: 263477  
Ion Ratio Lower Upper  
225 100  
223 62.6 50.3 75.5  
227 63.6 51.5 77.3





#79  
Naphthalene  
Concen: 9.408 ppbv  
RT: 13.510 min Scan# 4148  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

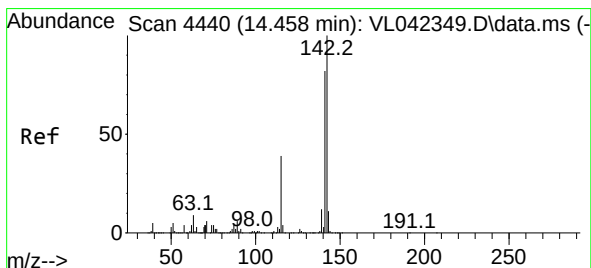
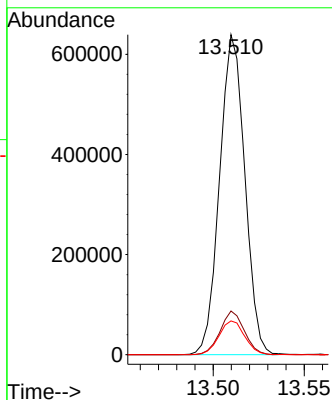
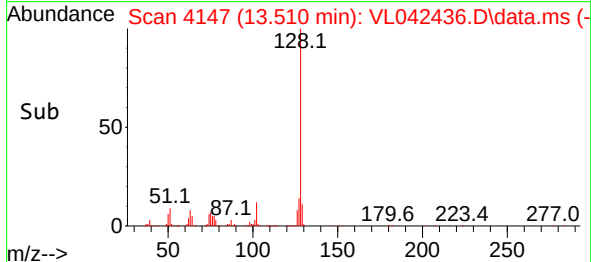
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



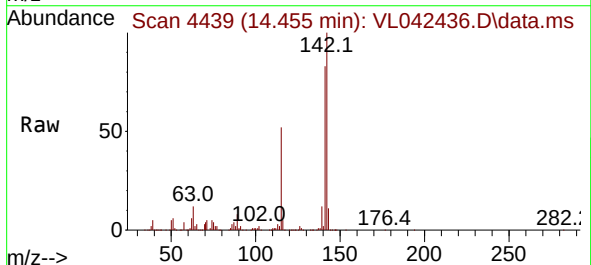
Tgt Ion:128 Resp: 615408  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.6 15.8  
129 10.5 8.6 12.8

Manual Integrations  
APPROVED

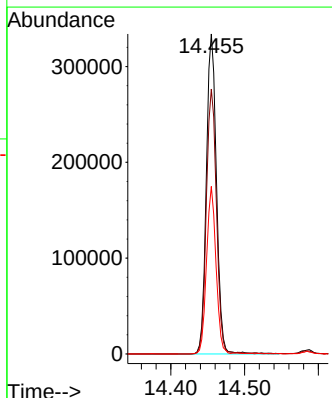
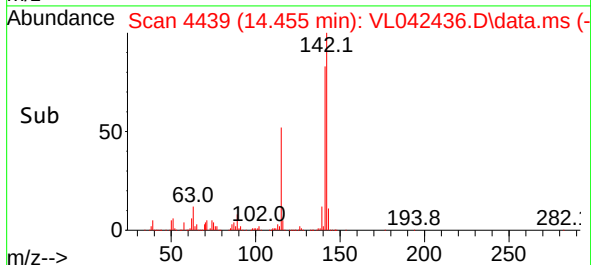
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

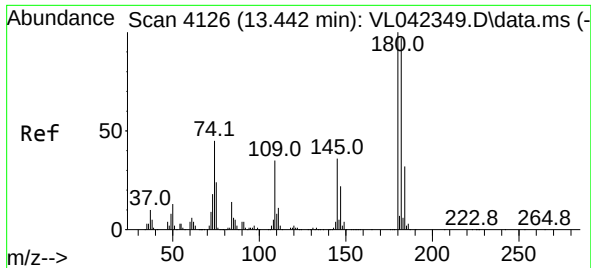


#80  
Naphthalene,2-methyl-  
Concen: 8.497 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39



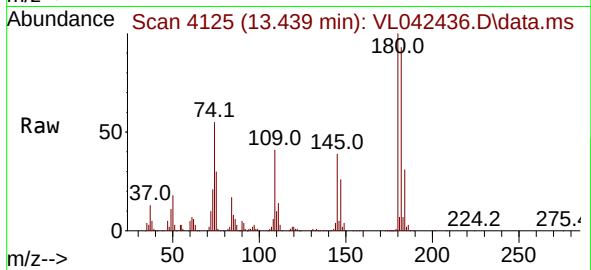
Tgt Ion:142 Resp: 316788  
Ion Ratio Lower Upper  
142 100  
141 83.6 66.8 100.2  
115 49.6 33.4 50.2





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.363 ppbv  
 RT: 13.439 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

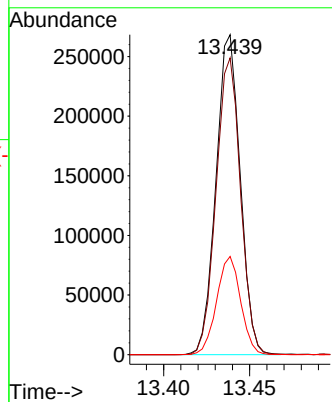
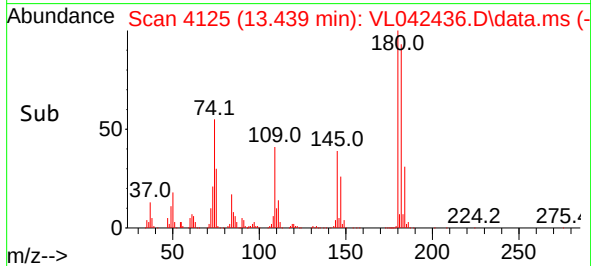
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



Tgt Ion:180 Resp: 263000  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 76.8 115.2  
 184 30.4 24.6 36.8

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042436.D  
 Acq On : 29 Apr 2025 08:39  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 30 01:15:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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   | 91    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.767 | 2.050  | -16.0 | 113   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.682 | 1.641  | 2.4   | 95    | 0.00     |
| 4    | Chloromethane               | 0.699 | 0.788  | -12.7 | 110   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.761 | 0.756  | 0.7   | 108   | 0.00     |
| 6 T  | Bromomethane                | 0.327 | 0.358  | -9.5  | 108   | 0.00     |
| 7    | Chloroethane                | 0.275 | 0.307  | -11.6 | 111   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.517 | 1.746  | -15.1 | 111   | 0.00     |
| 9 T  | Propene                     | 0.766 | 0.604  | 21.1  | 80    | 0.00     |
| 10 T | Heptane                     | 2.153 | 1.613  | 25.1  | 78    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.680 | 1.990  | -18.5 | 116   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.502  | -9.3  | 107   | 0.00     |
| 13   | Ethanol                     | 0.122 | 0.038# | 68.9# | 98    | 0.00     |
| 14 T | Bromoethene                 | 0.518 | 0.555  | -7.1  | 103   | 0.00     |
| 15 T | Acetone                     | 1.637 | 1.614  | 1.4   | 117   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.783 | 0.776  | 0.9   | 109   | 0.00     |
| 17   | tert-Butyl alcohol          | 2.029 | 2.005  | 1.2   | 101   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.642 | 0.659  | -2.6  | 103   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.909 | 0.890  | 2.1   | 99    | 0.00     |
| 20 T | Methylene Chloride          | 0.641 | 0.587  | 8.4   | 108   | 0.00     |
| 21 T | Allyl Chloride              | 1.130 | 1.151  | -1.9  | 108   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.731 | 0.756  | -3.4  | 104   | 0.00     |
| 23 T | Vinyl Acetate               | 0.663 | 0.538  | 18.9  | 88    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.388 | 1.506  | -8.5  | 107   | 0.00     |
| 25 T | Ethyl Acetate               | 4.036 | 3.568  | 11.6  | 89    | 0.00     |
| 26 T | Hexane                      | 1.633 | 1.343  | 17.8  | 86    | 0.00     |
| 27 T | Carbon Disulfide            | 1.749 | 1.858  | -6.2  | 102   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.070 | 0.996  | 6.9   | 97    | 0.00     |
| 29 T | Chloroform                  | 2.309 | 2.540  | -10.0 | 108   | 0.00     |
| 30 T | Cyclohexane                 | 1.320 | 1.140  | 13.6  | 83    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.553 | 1.525  | 1.8   | 95    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.599 | 2.727  | -4.9  | 109   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 85    | 0.00     |
| 34 T | 2-Butanone                  | 0.791 | 0.745  | 5.8   | 92    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.905 | 1.017  | -12.4 | 112   | 0.00     |
| 36 T | Benzene                     | 1.079 | 1.010  | 6.4   | 86    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.647 | 0.786  | -21.5 | 113   | 0.00     |
| 38 T | Trichloroethene             | 0.471 | 0.398  | 15.5  | 86    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.402 | 0.354  | 11.9  | 81    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.221 | 0.175  | 20.8  | 82    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.461 | 0.391  | 15.2  | 81    | 0.00     |
| 42 T | Bromodichloromethane        | 0.901 | 1.002  | -11.2 | 100   | 0.00     |
| 43   | Methyl Methacrylate         | 0.486 | 0.407  | 16.3  | 80    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.863 | 1.678  | 9.9   | 83    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.497 | 0.448  | 9.9   | 83    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.608 | 0.544  | 10.5  | 81    | -0.01    |
| 47 T | 1,1,2-Trichloroethane       | 0.410 | 0.415  | -1.2  | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 0.723 | 0.748  | -3.5  | 94    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042436.D  
 Acq On : 29 Apr 2025 08:39  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 30 01:15:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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                 | 0.633 | 0.607 | 4.1   | 84    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.314 | 1.047 | 20.3  | 82    | 0.00     |
| 51 T | 2-Hexanone                | 1.179 | 0.867 | 26.5  | 83    | 0.00     |
| 52 T | Tetrachloroethene         | 0.417 | 0.327 | 21.6  | 78    | 0.00     |
| 53 T | Toluene                   | 1.294 | 1.161 | 10.3  | 83    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.586 | 0.578 | 1.4   | 91    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 80    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.605 | 0.677 | -11.9 | 98    | 0.00     |
| 57 T | Chlorobenzene             | 1.040 | 1.049 | -0.9  | 88    | 0.00     |
| 58 T | Ethyl Benzene             | 1.981 | 1.988 | -0.4  | 87    | 0.00     |
| 59 T | m/p-Xylene                | 1.596 | 1.685 | -5.6  | 92    | -0.02    |
| 60 T | o-Xylene                  | 1.607 | 1.718 | -6.9  | 95    | 0.00     |
| 61 T | Styrene                   | 0.767 | 0.725 | 5.5   | 80    | 0.00     |
| 62   | Isopropylbenzene          | 2.360 | 2.491 | -5.6  | 92    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 1.042 | 1.010 | 3.1   | 92    | 0.00     |
| 64   | n-propylbenzene           | 0.593 | 0.595 | -0.3  | 88    | 0.00     |
| 65   | tert-Butylbenzene         | 2.169 | 2.285 | -5.3  | 96    | 0.00     |
| 66 T | Benzyl Chloride           | 0.238 | 0.185 | 22.3  | 60    | 0.00     |
| 67   | sec-Butylbenzene          | 3.017 | 3.221 | -6.8  | 97    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.822 | 0.938 | -14.1 | 90    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.621 | 2.737 | -4.4  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 2.730 | 2.918 | -6.9  | 98    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.851 | 1.956 | -5.7  | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.965 | 2.072 | -5.4  | 94    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.735 | 1.830 | -5.5  | 96    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 2.026 | 2.052 | -1.3  | 98    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 1.053 | 1.056 | -0.3  | 89    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 1.059 | 1.081 | -2.1  | 91    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 1.024 | 1.051 | -2.6  | 93    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 1.034 | 0.976 | 5.6   | 90    | 0.00     |
| 79 T | Naphthalene               | 2.423 | 2.279 | 5.9   | 91    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 1.381 | 1.173 | 15.1  | 84    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 1.040 | 0.974 | 6.3   | 86    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



# QC SAMPLE DATA

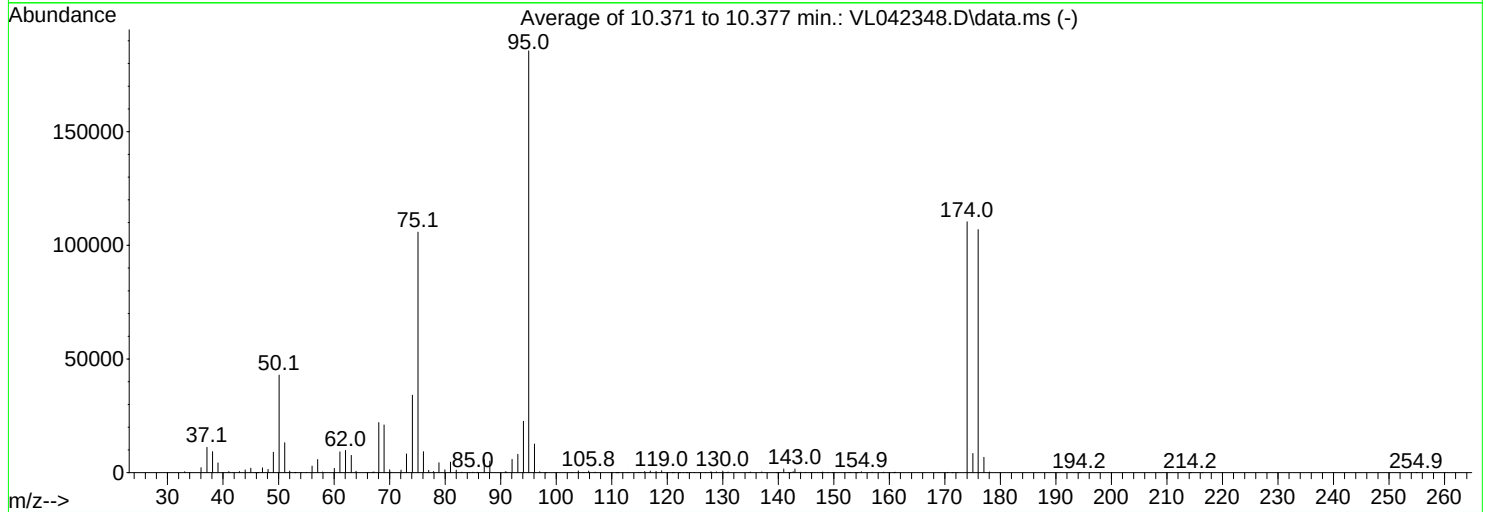
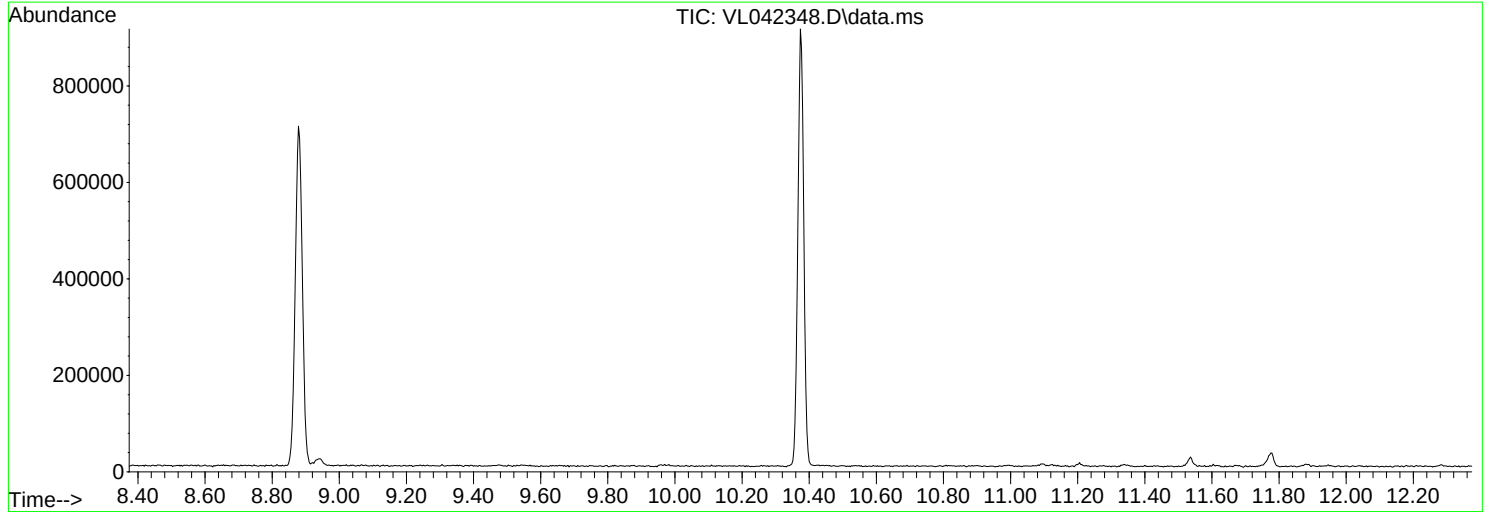


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042348.D  
Acq On : 17 Apr 2025 07:50  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

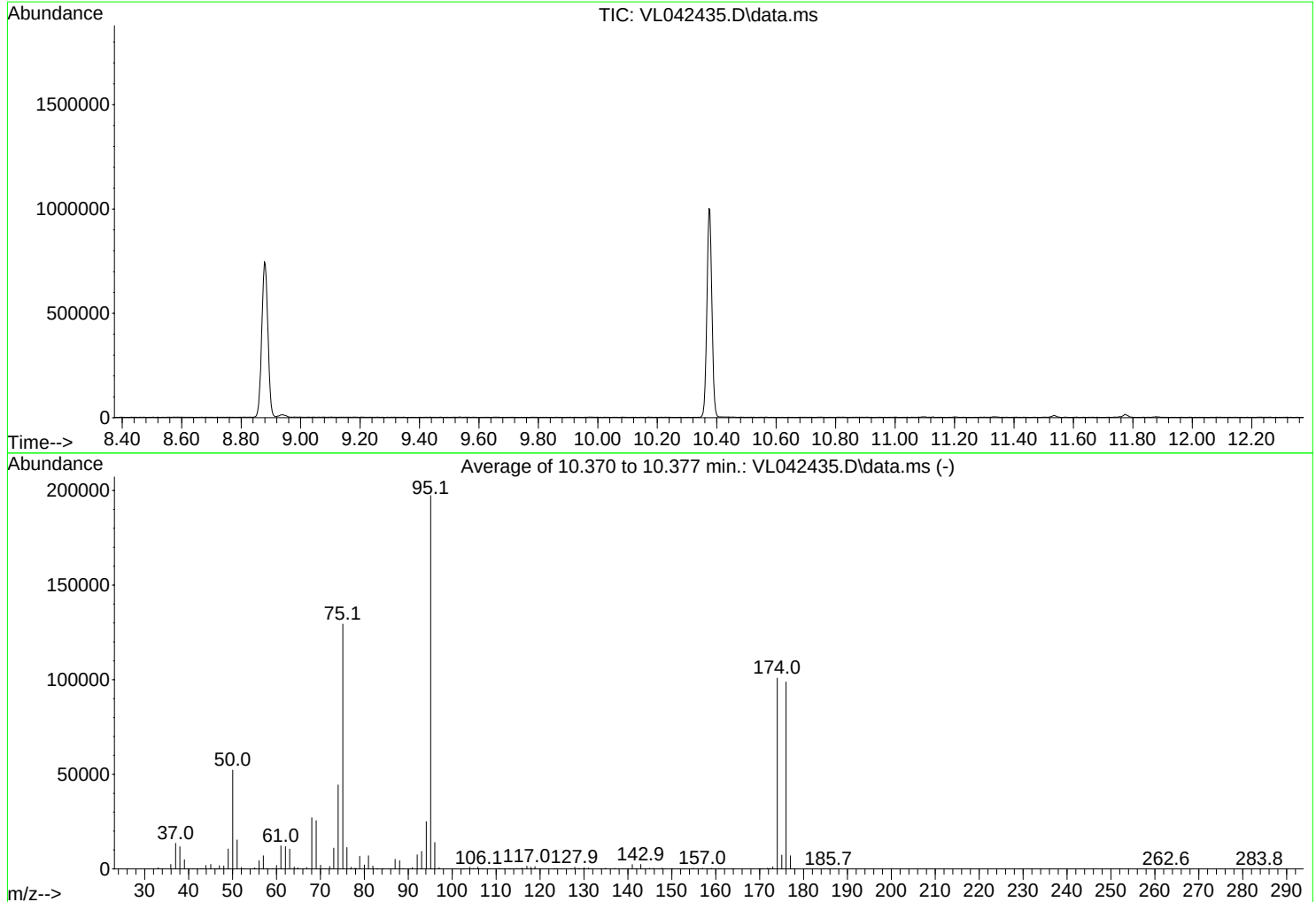
| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 23.1  | 42933  | PASS      |
| 75     | 95      | 30     | 66     | 57.0  | 105781 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 185564 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 12627  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 174    | 95      | 50     | 120    | 59.5  | 110360 | PASS      |
| 175    | 174     | 4      | 9      | 7.6   | 8420   | PASS      |
| 176    | 174     | 93     | 101    | 96.9  | 106933 | PASS      |
| 177    | 176     | 5      | 9      | 6.3   | 6744   | PASS      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
Data File : VL042435.D  
Acq On : 29 Apr 2025 07:55  
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\VL041725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; 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              | 26.5         | 52245      | PASS                |
| 75             | 95              | 30              | 66              | 65.6         | 129440     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 197333     | PASS                |
| 96             | 95              | 5               | 9               | 7.1          | 14000      | PASS                |
| 173            | 174             | 0.00            | 2               | 1.1          | 1121       | PASS                |
| 174            | 95              | 50              | 120             | 51.1         | 100867     | PASS                |
| 175            | 174             | 4               | 9               | 7.3          | 7342       | PASS                |
| 176            | 174             | 93              | 101             | 98.0         | 98848      | PASS                |
| 177            | 176             | 5               | 9               | 7.0          | 6939       | PASS                |

## Report of Analysis

|                    |                        |                 |       |
|--------------------|------------------------|-----------------|-------|
| Client:            | RMJ Environomics, Inc. | Date Collected: |       |
| Project:           | 32 Park St Orange NJ   | Date Received:  |       |
| Client Sample ID:  | VL0429ABL01            | SDG No.:        | Q1908 |
| Lab Sample ID:     | VL0429ABL01            | Matrix:         | Air   |
| Analytical Method: | TO-15                  | Test:           | TO-15 |
| Sample Wt/Vol:     | 400                    | Units:          | mL    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042437.D        | 1         |           | 04/29/25 09:25 | VL042925      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.21          | 1.04           | U         | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 0.10          | 0.21           | U         | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 0.010         | 0.030          | U         | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 0.14          | 0.54           | U         | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 0.17          | 0.45           | U         | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 0.13          | 0.38           | U         | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 0.16          | 0.90           | U         | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.16          | 1.23           | U         | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 0.090         | 0.63           | U         | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 0.19          | 0.58           | U         | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 0.11          | 0.45           | U         | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 0.14          | 0.56           | U         | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 0.24          | 0.57           | U         | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 0.16          | 0.50           | U         | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.12          | 0.43           | U         | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 0.19          | 0.66           | U         | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.19          | 0.75           | U         | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 0.13          | 0.53           | U         | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 0.22          | 0.76           | U         | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 0.12          | 0.35           | U         | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 0.010         | 0.060          | U         | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.090         | 0.36           | U         | 0.36  | 1.98       | ug/m3 |
| 67-66-3        | Chloroform                     | 0.080         | 0.39           | U         | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.010         | 0.050          | U         | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 0.10          | 0.47           | U         | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 0.090         | 0.29           | U         | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 0.090         | 0.36           | U         | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 0.020         | 0.11           | U         | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 0.11          | 0.51           | U         | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 0.080         | 0.54           | U         | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 0.090         | 0.37           | U         | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 0.11          | 0.41           | U         | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 0.060         | 0.27           | U         | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 0.070         | 0.38           | U         | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                        |                 |       |
|--------------------|------------------------|-----------------|-------|
| Client:            | RMJ Environomics, Inc. | Date Collected: |       |
| Project:           | 32 Park St Orange NJ   | Date Received:  |       |
| Client Sample ID:  | VL0429ABL01            | SDG No.:        | Q1908 |
| Lab Sample ID:     | VL0429ABL01            | Matrix:         | Air   |
| Analytical Method: | TO-15                  | Test:           | TO-15 |
| Sample Wt/Vol:     | 400                    | Units:          | mL    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042437.D        | 1         |           | 04/29/25 09:25 | VL042925      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 0.070         | 0.60           | U         | 0.60                | 4.26       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 0.070         | 0.54           | U         | 0.54                | 0.77       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 0.020         | 0.14           | U         | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 0.080         | 0.37           | U         | 0.37                | 2.30       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 0.21          | 0.91           | U         | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 0.12          | 0.52           | U         | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 0.11          | 0.47           | U         | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 0.060         | 0.62           | U         | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 0.010         | 0.070          | U         | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 0.11          | 0.57           | U         | 0.57                | 2.59       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 0.11          | 0.54           | U         | 0.54                | 2.46       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 0.080         | 0.39           | U         | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 0.050         | 0.30           | U         | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 0.080         | 0.48           | U         | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 0.090         | 0.67           | U         | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 0.090         | 0.96           | U         | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 0.13          | 0.29           | U         | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 0.080         | 0.42           | U         | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 0.12          | 0.59           | U         | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 0.11          | 0.39           | U         | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 0.15          | 0.47           | U         | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 0.21          | 0.76           | U         | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 0.090         | 0.37           | U         | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 10.6          |                |           | 70 (65) - 130 (135) | 106%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 119000        |                | 2.787     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 329000        |                | 3.959     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 276000        |                | 8.885     |                     |            |         |

## Report of Analysis

|                    |                        |                 |       |
|--------------------|------------------------|-----------------|-------|
| Client:            | RMJ Environomics, Inc. | Date Collected: |       |
| Project:           | 32 Park St Orange NJ   | Date Received:  |       |
| Client Sample ID:  | VL0429ABL01            | SDG No.:        | Q1908 |
| Lab Sample ID:     | VL0429ABL01            | Matrix:         | Air   |
| Analytical Method: | TO-15                  | Test:           | TO-15 |
| Sample Wt/Vol:     | 400      Units:    mL  |                 |       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042437.D        | 1         |           | 04/29/25 09:25 | VL042925      |

| CAS Number | Parameter | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|

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\VL042925\  
 Data File : VL042437.D  
 Acq On : 29 Apr 2025 09:25  
 Operator : SY/MD  
 Sample : VL0429ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABL01

Quant Time: Apr 30 01:16:50 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 119014   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 328601   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 276498   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 239853   | 10.556   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.600% |

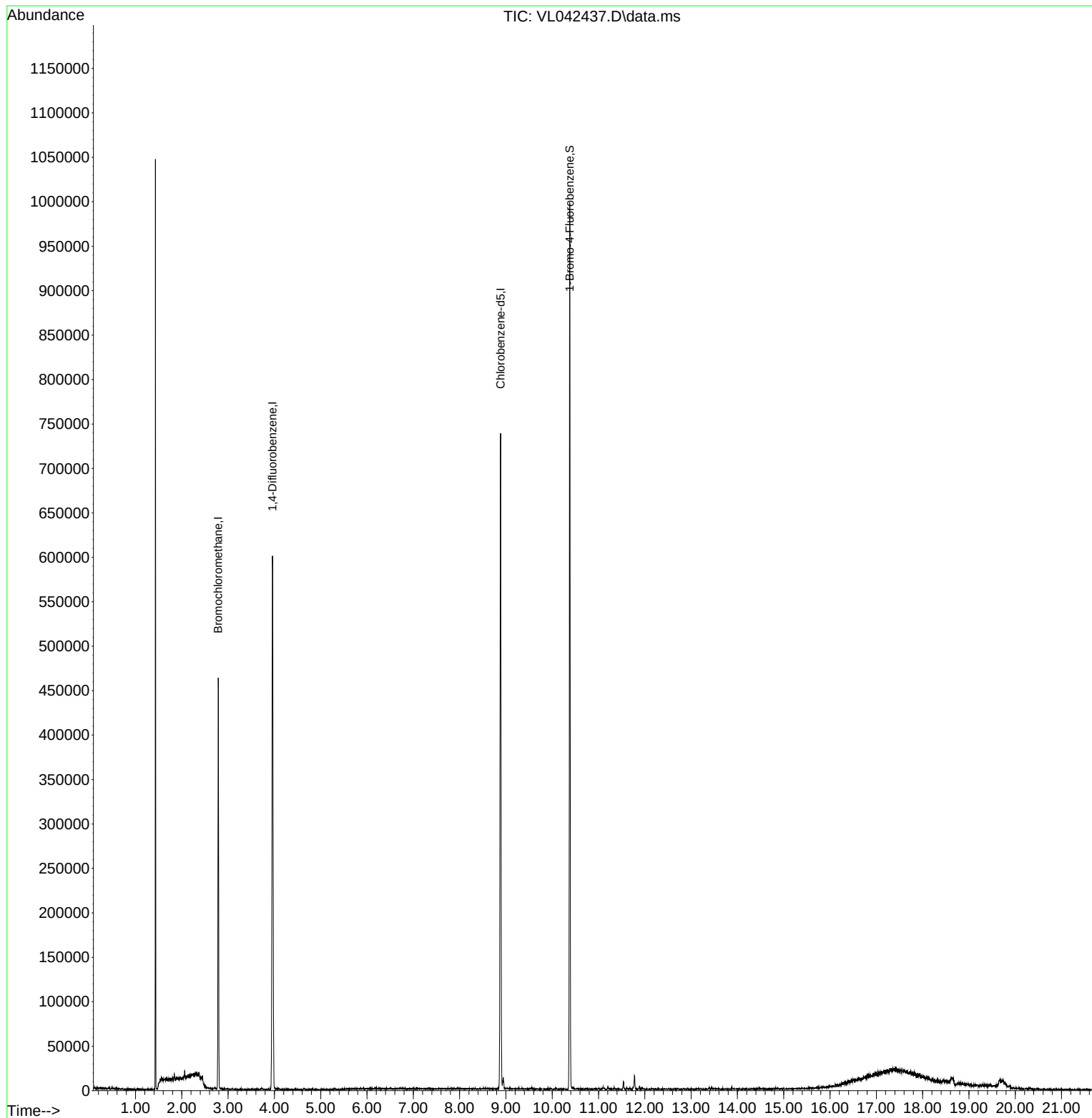
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

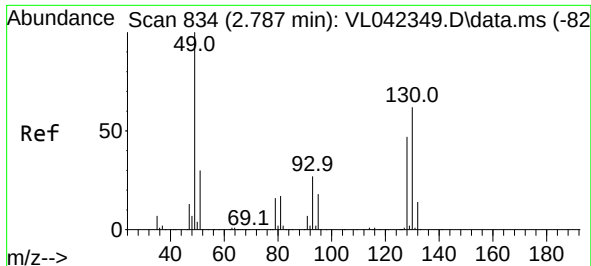
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
Data File : VL042437.D  
Acq On : 29 Apr 2025 09:25  
Operator : SY/MD  
Sample : VL0429ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABL01

Quant Time: Apr 30 01:16:50 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

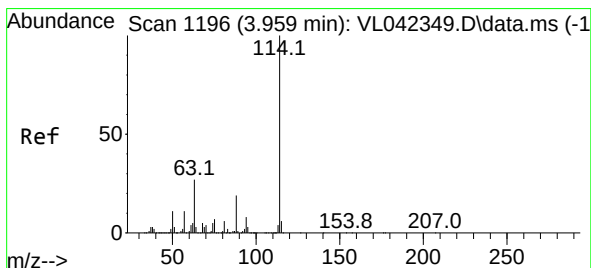
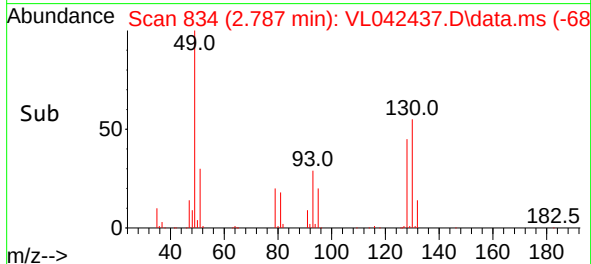
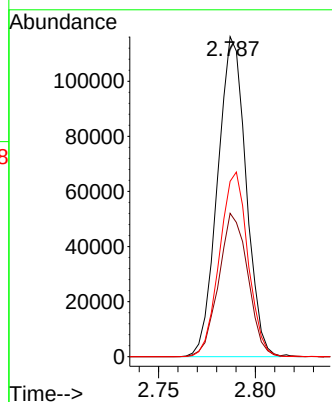
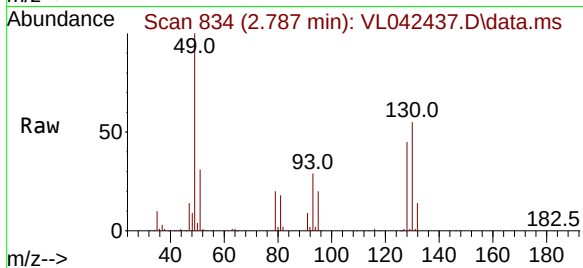




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. -0.000 min  
Lab File: VL042437.D  
Acq: 29 Apr 2025 09:25

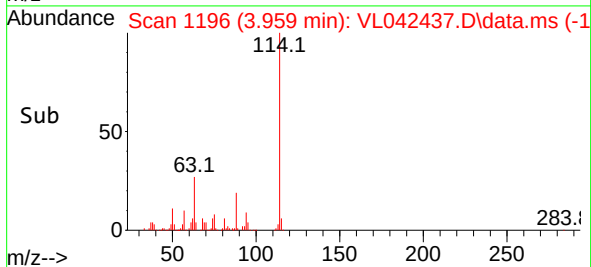
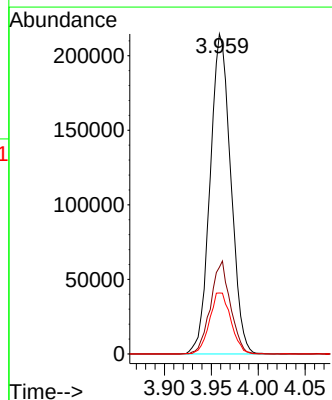
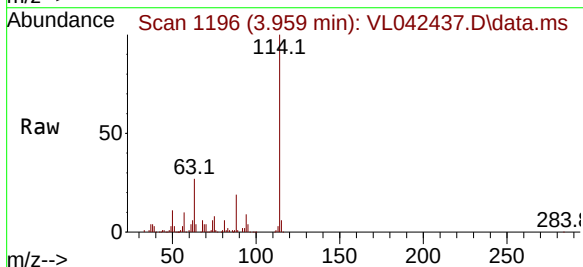
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABL01

Tgt Ion: 49 Resp: 119014  
Ion Ratio Lower Upper  
49 100  
128 45.8 22.8 68.4  
130 57.6 29.3 88.0

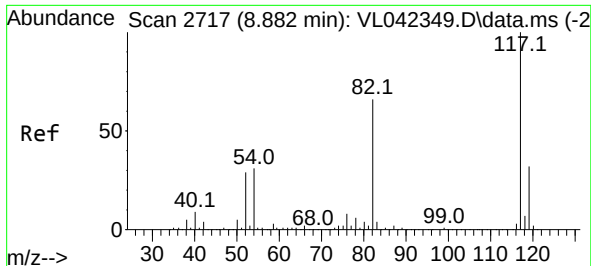


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.000 min  
Lab File: VL042437.D  
Acq: 29 Apr 2025 09:25

Tgt Ion: 114 Resp: 328601  
Ion Ratio Lower Upper  
114 100  
63 27.9 21.8 32.6  
88 19.7 15.5 23.3



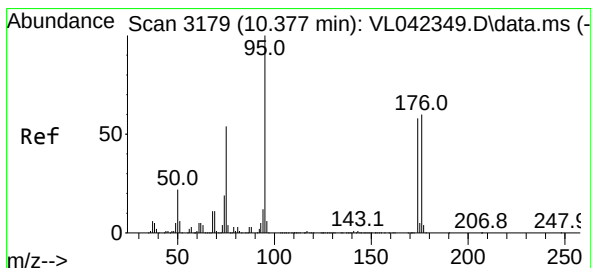
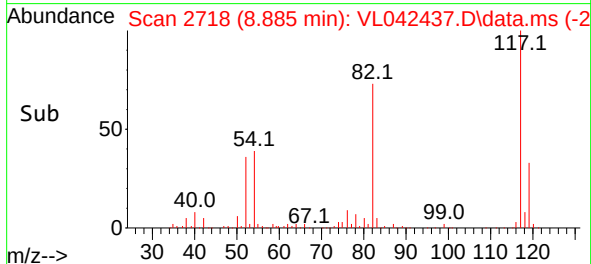
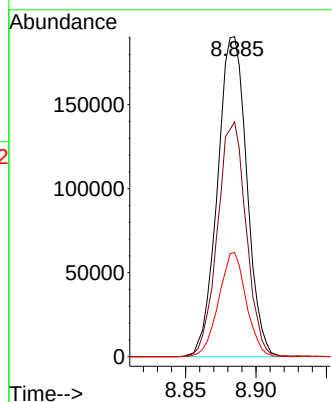
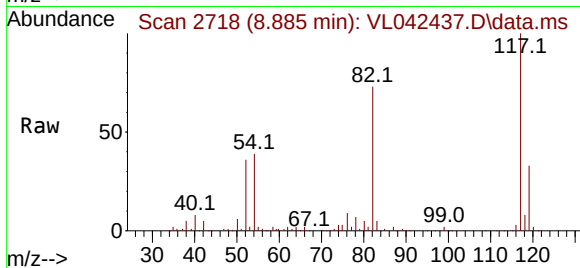




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VL042437.D  
Acq: 29 Apr 2025 09:25

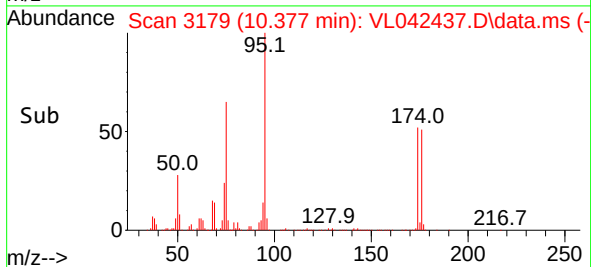
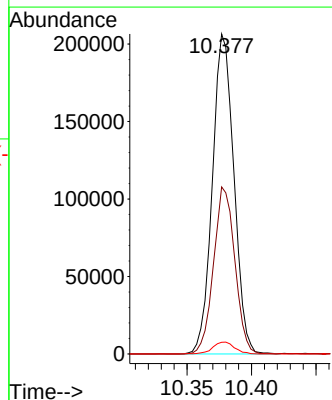
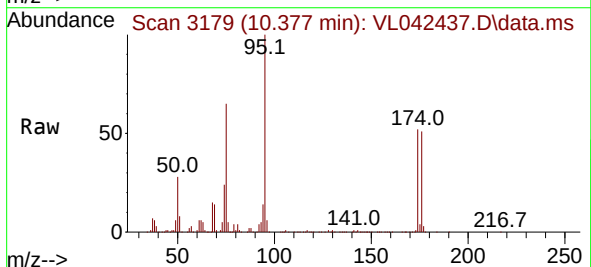
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0429ABL01

Tgt Ion:117 Resp: 276498  
Ion Ratio Lower Upper  
117 100  
82 71.6 57.8 86.6  
119 30.6 25.2 37.8



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.556 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.000 min  
Lab File: VL042437.D  
Acq: 29 Apr 2025 09:25

Tgt Ion: 95 Resp: 239853  
Ion Ratio Lower Upper  
95 100  
174 51.8 48.5 72.7  
175 3.8 3.7 5.5



## Report of Analysis

|                    |                        |                 |       |
|--------------------|------------------------|-----------------|-------|
| Client:            | RMJ Environomics, Inc. | Date Collected: |       |
| Project:           | 32 Park St Orange NJ   | Date Received:  |       |
| Client Sample ID:  | VL0429ABS01            | SDG No.:        | Q1908 |
| Lab Sample ID:     | VL0429ABS01            | Matrix:         | Air   |
| Analytical Method: | TO-15                  | Test:           | TO-15 |
| Sample Wt/Vol:     | 400                    | Units:          | mL    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042438.D        | 1         |           | 04/29/25 10:08 | VL042925      |

| CAS Number     | Parameter                      | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL   | LOQ / CRQL | Units |
|----------------|--------------------------------|---------------|----------------|-----------|-------|------------|-------|
| <b>TARGETS</b> |                                |               |                |           |       |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 11.6          | 57.4           |           | 1.04  | 2.47       | ug/m3 |
| 74-87-3        | Chloromethane                  | 11.0          | 22.7           |           | 0.21  | 1.03       | ug/m3 |
| 75-01-4        | Vinyl Chloride                 | 9.60          | 24.5           |           | 0.030 | 0.080      | ug/m3 |
| 74-83-9        | Bromomethane                   | 10.7          | 41.5           |           | 0.54  | 1.94       | ug/m3 |
| 75-00-3        | Chloroethane                   | 10.5          | 27.7           |           | 0.45  | 1.32       | ug/m3 |
| 109-99-9       | Tetrahydrofuran                | 8.50          | 25.1           |           | 0.38  | 1.47       | ug/m3 |
| 75-69-4        | Trichlorofluoromethane         | 11.5          | 64.6           |           | 0.90  | 2.81       | ug/m3 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 10.9          | 83.5           |           | 1.23  | 3.83       | ug/m3 |
| 76-14-2        | Dichlorotetrafluoroethane      | 11.2          | 78.3           |           | 0.63  | 3.49       | ug/m3 |
| 75-65-0        | tert-Butyl alcohol             | 9.70          | 29.4           |           | 0.58  | 1.52       | ug/m3 |
| 142-82-5       | Heptane                        | 7.60          | 31.1           |           | 0.45  | 2.05       | ug/m3 |
| 75-35-4        | 1,1-Dichloroethene             | 10.2          | 40.4           |           | 0.56  | 1.98       | ug/m3 |
| 67-64-1        | Acetone                        | 9.90          | 23.5           |           | 0.57  | 1.19       | ug/m3 |
| 75-15-0        | Carbon Disulfide               | 10.4          | 32.4           |           | 0.50  | 1.56       | ug/m3 |
| 1634-04-4      | Methyl tert-Butyl Ether        | 9.30          | 33.5           |           | 0.43  | 1.80       | ug/m3 |
| 75-09-2        | Methylene Chloride             | 9.00          | 31.3           |           | 0.66  | 1.74       | ug/m3 |
| 156-60-5       | trans-1,2-Dichloroethene       | 9.90          | 39.3           |           | 0.75  | 1.98       | ug/m3 |
| 75-34-3        | 1,1-Dichloroethane             | 10.9          | 44.1           |           | 0.53  | 2.02       | ug/m3 |
| 110-82-7       | Cyclohexane                    | 8.60          | 29.6           |           | 0.76  | 1.72       | ug/m3 |
| 78-93-3        | 2-Butanone                     | 9.30          | 27.4           |           | 0.35  | 1.47       | ug/m3 |
| 56-23-5        | Carbon Tetrachloride           | 11.0          | 69.2           |           | 0.060 | 0.19       | ug/m3 |
| 156-59-2       | cis-1,2-Dichloroethene         | 9.60          | 38.1           |           | 0.36  | 1.98       | ug/m3 |
| 67-66-3        | Chloroform                     | 10.6          | 51.8           |           | 0.39  | 2.44       | ug/m3 |
| 71-55-6        | 1,1,1-Trichloroethane          | 10.3          | 56.2           |           | 0.050 | 0.16       | ug/m3 |
| 540-84-1       | 2,2,4-Trimethylpentane         | 9.00          | 42.0           |           | 0.47  | 2.34       | ug/m3 |
| 71-43-2        | Benzene                        | 9.30          | 29.7           |           | 0.29  | 1.60       | ug/m3 |
| 107-06-2       | 1,2-Dichloroethane             | 12.0          | 48.6           |           | 0.36  | 2.02       | ug/m3 |
| 79-01-6        | Trichloroethene                | 8.50          | 45.7           |           | 0.11  | 0.16       | ug/m3 |
| 78-87-5        | 1,2-Dichloropropane            | 9.00          | 41.6           |           | 0.51  | 2.31       | ug/m3 |
| 75-27-4        | Bromodichloromethane           | 11.1          | 74.4           |           | 0.54  | 3.35       | ug/m3 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 7.80          | 32.0           |           | 0.37  | 2.05       | ug/m3 |
| 108-88-3       | Toluene                        | 8.80          | 33.2           |           | 0.41  | 1.88       | ug/m3 |
| 10061-02-6     | t-1,3-Dichloropropene          | 8.90          | 40.4           |           | 0.27  | 2.27       | ug/m3 |
| 10061-01-5     | cis-1,3-Dichloropropene        | 8.80          | 40.0           |           | 0.27  | 2.27       | ug/m3 |
| 79-00-5        | 1,1,2-Trichloroethane          | 9.90          | 54.0           |           | 0.38  | 2.73       | ug/m3 |

## Report of Analysis

|                    |                        |                 |       |
|--------------------|------------------------|-----------------|-------|
| Client:            | RMJ Environomics, Inc. | Date Collected: |       |
| Project:           | 32 Park St Orange NJ   | Date Received:  |       |
| Client Sample ID:  | VL0429ABS01            | SDG No.:        | Q1908 |
| Lab Sample ID:     | VL0429ABS01            | Matrix:         | Air   |
| Analytical Method: | TO-15                  | Test:           | TO-15 |
| Sample Wt/Vol:     | 400                    | Units:          | mL    |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042438.D        | 1         |           | 04/29/25 10:08 | VL042925      |

| CAS Number                | Parameter                 | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|---------------------------|---------------|----------------|-----------|---------------------|------------|---------|
| 124-48-1                  | Dibromochloromethane      | 10.2          | 86.9           |           | 0.60                | 4.26       | ug/m3   |
| 106-93-4                  | 1,2-Dibromoethane         | 9.60          | 73.8           |           | 0.54                | 0.77       | ug/m3   |
| 127-18-4                  | Tetrachloroethene         | 8.00          | 54.3           |           | 0.14                | 0.20       | ug/m3   |
| 108-90-7                  | Chlorobenzene             | 10.3          | 47.4           |           | 0.37                | 2.30       | ug/m3   |
| 100-41-4                  | Ethyl Benzene             | 10.1          | 43.9           |           | 0.52                | 2.17       | ug/m3   |
| 179601-23-1               | m/p-Xylene                | 20.9          | 90.8           |           | 0.91                | 4.34       | ug/m3   |
| 95-47-6                   | o-Xylene                  | 10.6          | 46.0           |           | 0.52                | 2.17       | ug/m3   |
| 100-42-5                  | Styrene                   | 9.20          | 39.2           |           | 0.47                | 2.13       | ug/m3   |
| 75-25-2                   | Bromoform                 | 9.40          | 97.2           |           | 0.62                | 5.17       | ug/m3   |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane | 9.80          | 67.3           |           | 0.070               | 0.21       | ug/m3   |
| 95-49-8                   | 2-Chlorotoluene           | 10.6          | 54.9           |           | 0.57                | 2.59       | ug/m3   |
| 108-67-8                  | 1,3,5-Trimethylbenzene    | 10.4          | 51.1           |           | 0.54                | 2.46       | ug/m3   |
| 95-63-6                   | 1,2,4-Trimethylbenzene    | 9.90          | 48.7           |           | 0.39                | 2.46       | ug/m3   |
| 541-73-1                  | 1,3-Dichlorobenzene       | 9.90          | 59.5           |           | 0.48                | 3.01       | ug/m3   |
| 106-46-7                  | 1,4-Dichlorobenzene       | 9.90          | 59.5           |           | 0.30                | 3.01       | ug/m3   |
| 95-50-1                   | 1,2-Dichlorobenzene       | 10.1          | 60.7           |           | 0.48                | 3.01       | ug/m3   |
| 120-82-1                  | 1,2,4-Trichlorobenzene    | 9.50          | 70.5           |           | 0.67                | 3.71       | ug/m3   |
| 87-68-3                   | Hexachloro-1,3-Butadiene  | 10.0          | 107            |           | 0.96                | 5.33       | ug/m3   |
| 106-99-0                  | 1,3-Butadiene             | 9.90          | 21.9           |           | 0.29                | 1.11       | ug/m3   |
| 91-20-3                   | Naphthalene               | 9.40          | 49.3           |           | 0.42                | 0.52       | ug/m3   |
| 622-96-8                  | 4-Ethyltoluene            | 10.4          | 51.1           |           | 0.59                | 2.46       | ug/m3   |
| 110-54-3                  | Hexane                    | 8.30          | 29.3           |           | 0.39                | 1.76       | ug/m3   |
| 107-05-1                  | Allyl Chloride            | 9.90          | 31.0           |           | 0.47                | 1.57       | ug/m3   |
| 123-91-1                  | 1,4-Dioxane               | 7.50          | 27.0           |           | 0.76                | 1.80       | ug/m3   |
| 80-62-6                   | Methyl Methacrylate       | 8.00          | 32.8           |           | 0.37                | 2.05       | ug/m3   |
| <b>SURROGATES</b>         |                           |               |                |           |                     |            |         |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene   | 11.3          |                |           | 70 (65) - 130 (135) | 113%       | SPK: 10 |
| <b>INTERNAL STANDARDS</b> |                           |               |                |           |                     |            |         |
| 74-97-5                   | Bromochloromethane        | 117000        |                | 2.79      |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene       | 318000        |                | 3.962     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5          | 272000        |                | 8.881     |                     |            |         |

## Report of Analysis

|                    |                        |                 |       |
|--------------------|------------------------|-----------------|-------|
| Client:            | RMJ Environomics, Inc. | Date Collected: |       |
| Project:           | 32 Park St Orange NJ   | Date Received:  |       |
| Client Sample ID:  | VL0429ABS01            | SDG No.:        | Q1908 |
| Lab Sample ID:     | VL0429ABS01            | Matrix:         | Air   |
| Analytical Method: | TO-15                  | Test:           | TO-15 |
| Sample Wt/Vol:     | 400      Units:    mL  |                 |       |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042438.D        | 1         |           | 04/29/25 10:08 | VL042925      |

| CAS Number | Parameter | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|
|------------|-----------|---------------|----------------|-----------|-----|------------|-------|

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\VL042925\  
 Data File : VL042438.D  
 Acq On : 29 Apr 2025 10:08  
 Operator : SY/MD  
 Sample : VL0429ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:17:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 116772   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 317590   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 272312   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 253021 11.307 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 113.100%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 238539  | 11.562 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 192670  | 9.807  | ppbv   | 92     |
| 4) Chloromethane              | 1.534 | 50  | 89832   | 11.003 | ppbv   | 94     |
| 5) Vinyl Chloride             | 1.580 | 62  | 85334   | 9.601  | ppbv   | 99     |
| 6) Bromomethane               | 1.667 | 94  | 40758   | 10.676 | ppbv   | 94     |
| 7) Chloroethane               | 1.706 | 64  | 33756   | 10.502 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 198106  | 11.184 | ppbv   | 95     |
| 9) Propene                    | 1.486 | 41  | 70111   | 7.836  | ppbv   | 97     |
| 10) Heptane                   | 4.981 | 43  | 190583  | 7.582  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 225308  | 11.484 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 174111  | 10.854 | ppbv   | 97     |
| 13) Ethanol                   | 1.722 | 45  | 4137    | 2.909  | ppbv   | 90     |
| 14) Bromoethene               | 1.783 | 108 | 64544   | 10.674 | ppbv # | 98     |
| 15) Acetone                   | 1.835 | 43  | 189432  | 9.910  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 90473   | 9.895  | ppbv   | 93     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 230217  | 9.718  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 76749   | 10.241 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 103692  | 9.765  | ppbv # | 36     |
| 20) Methylene Chloride        | 2.062 | 84  | 67298   | 8.989  | ppbv   | 91     |
| 21) Allyl Chloride            | 2.097 | 41  | 130014  | 9.851  | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 84797   | 9.938  | ppbv   | 90     |
| 23) Vinyl Acetate             | 2.463 | 43  | 61036   | 7.888  | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 177233  | 10.934 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.839 | 43  | 416465  | 8.836  | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 157544  | 8.260  | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.149 | 76  | 211824  | 10.372 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 116769  | 9.344  | ppbv   | 94     |
| 29) Chloroform                | 2.852 | 83  | 286397  | 10.623 | ppbv   | 96     |
| 30) Cyclohexane               | 3.858 | 84  | 132615  | 8.601  | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 174328  | 9.613  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.369 | 97  | 312429  | 10.294 | ppbv   | 99     |
| 34) 2-Butanone                | 2.560 | 43  | 233037  | 9.278  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 317207  | 11.036 | ppbv   | 93     |
| 36) Benzene                   | 3.658 | 78  | 317350  | 9.264  | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 247446  | 12.035 | ppbv # | 96     |
| 38) Trichloroethene           | 4.551 | 130 | 127601  | 8.523  | ppbv   | 91     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 115449  | 9.044  | ppbv   | 92     |
| 40) 1,4-Dioxane               | 4.586 | 88  | 52820   | 7.529  | ppbv # | 92     |
| 41) Tetrahydrofuran           | 3.055 | 42  | 124059  | 8.471  | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.493 | 83  | 317253  | 11.088 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 123817m | 8.020  | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.641 | 57  | 531439  | 8.983  | ppbv   | 95     |
| 45) t-1,3-Dichloropropene     | 6.418 | 75  | 140981  | 8.940  | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042438.D  
 Acq On : 29 Apr 2025 10:08  
 Operator : SY/MD  
 Sample : VL0429ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/30/2025  
 Supervised By : Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:17:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

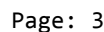
Response via : Initial Calibration

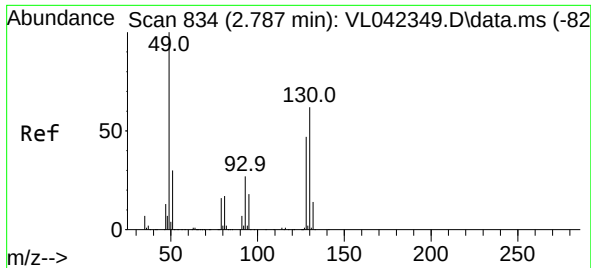
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 170063   | 8.811  | ppbv # | 84       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 128662   | 9.893  | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.389  | 129  | 233350   | 10.156 | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 189484   | 9.431  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 327508   | 7.846  | ppbv   | 98       |
| 51) 2-Hexanone                | 7.438  | 43   | 262697   | 7.018  | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.228  | 164  | 106031   | 8.008  | ppbv   | 90       |
| 53) Toluene                   | 6.936  | 91   | 363707   | 8.848  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 178709   | 9.601  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 180979   | 10.981 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.924  | 112  | 290861   | 10.270 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.357  | 91   | 545497   | 10.111 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.555  | 91   | 906532m  | 20.857 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 465645   | 10.639 | ppbv   | 94       |
| 61) Styrene                   | 9.872  | 104  | 191741   | 9.178  | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.542 | 105  | 667839   | 10.393 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 278491   | 9.819  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 161309   | 9.987  | ppbv   | 91       |
| 65) tert-Butylbenzene         | 11.535 | 119  | 605972   | 10.260 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.620 | 91   | 46913    | 7.229  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 868275   | 10.569 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 733796   | 10.282 | ppbv   | 96       |
| 70) n-Butylbenzene            | 12.283 | 91   | 796622   | 10.717 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 534951   | 10.614 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 553879   | 10.351 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 491459   | 10.403 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 548408   | 9.939  | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 284809   | 9.931  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 285571   | 9.907  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 282424   | 10.128 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 280954   | 9.977  | ppbv   | 98       |
| 79) Naphthalene               | 13.516 | 128  | 621879   | 9.425  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 312733   | 8.317  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 269082   | 9.498  | ppbv   | 99       |

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

## Manual Integrations APPROVED

Quant Time: Apr 30 01:17:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration





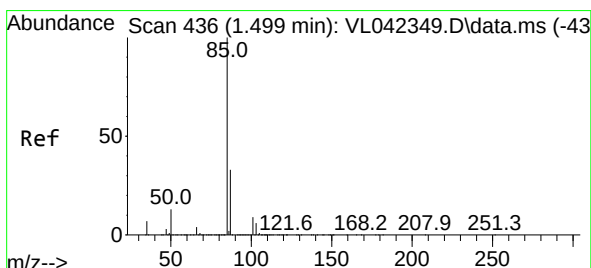
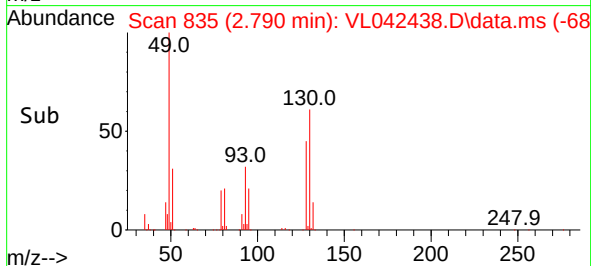
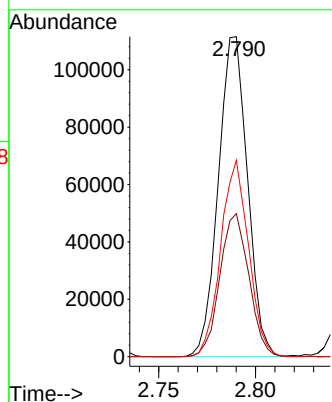
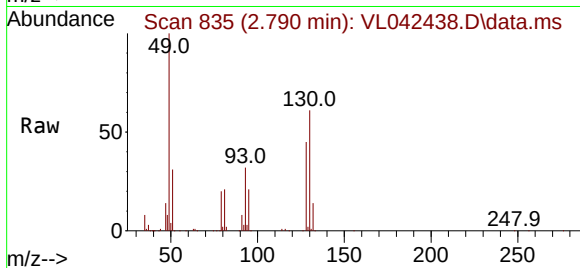
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 834  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 49 Resp: 116772  
Ion Ratio Lower Upper  
49 100  
128 44.5 22.8 68.4  
130 58.8 29.3 88.0

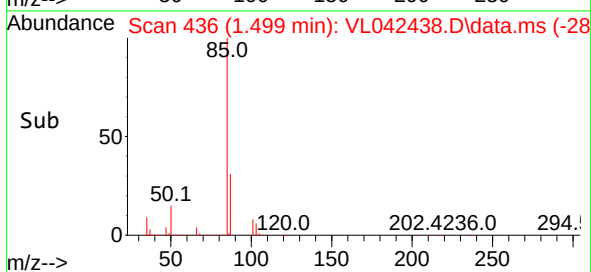
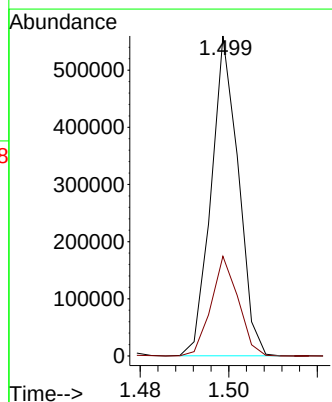
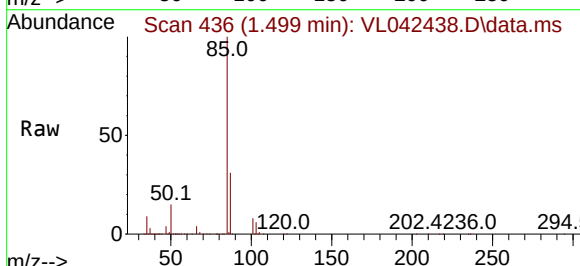
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

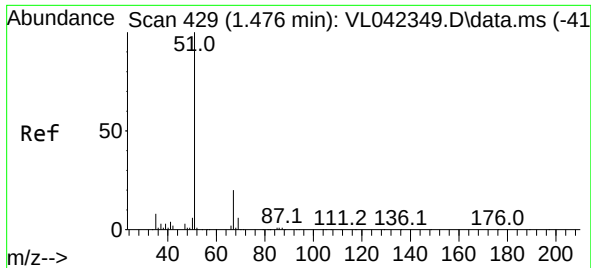


#2  
Dichlorodifluoromethane  
Concen: 11.562 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 238539  
Ion Ratio Lower Upper  
85 100  
87 31.2 26.6 39.8







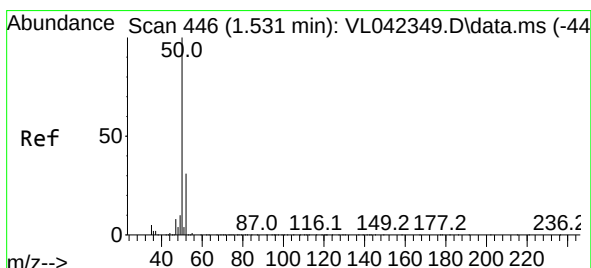
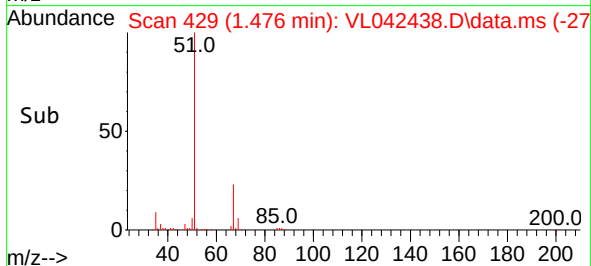
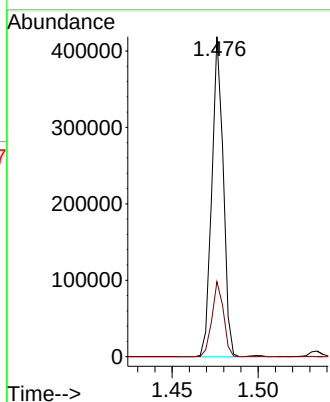
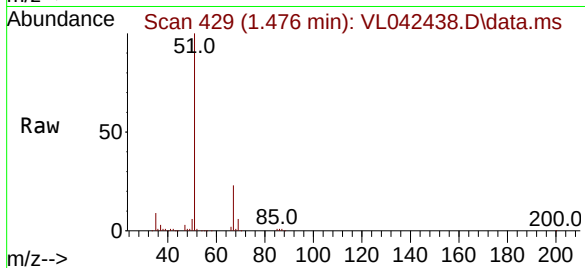
#3  
Chlorodifluoromethane  
Concen: 9.807 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 51 Resp: 192670  
Ion Ratio Lower Upper  
51 100  
67 23.8 16.2 24.4

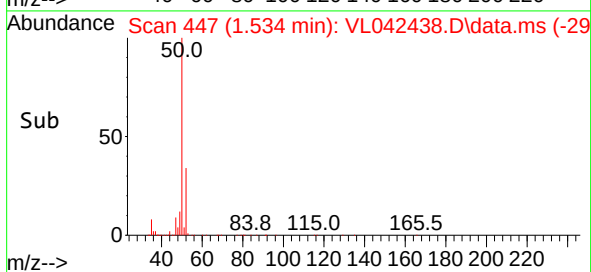
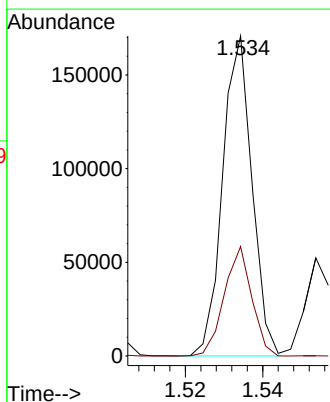
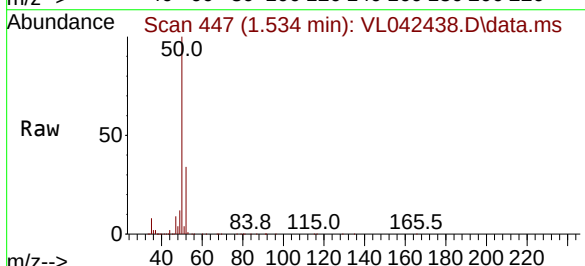
Manual Integrations  
APPROVED

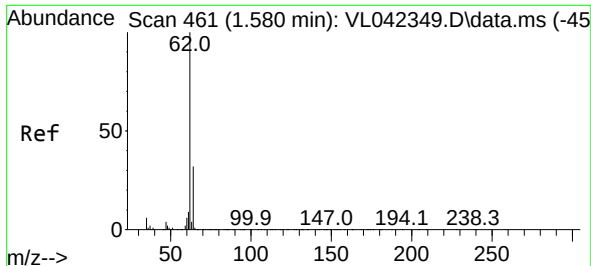
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#4  
Chloromethane  
Concen: 11.003 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

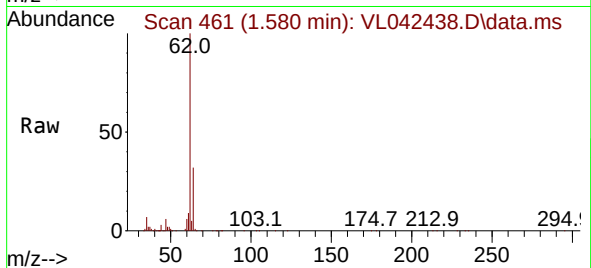
Tgt Ion: 50 Resp: 89832  
Ion Ratio Lower Upper  
50 100  
52 34.2 24.7 37.1





#5  
 Vinyl Chloride  
 Concen: 9.601 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

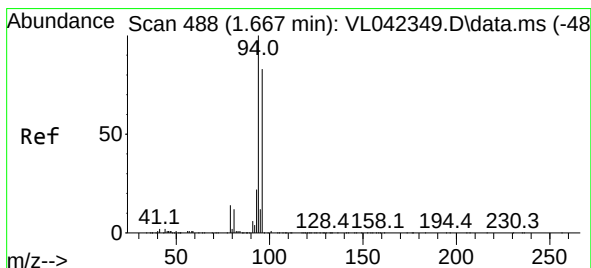
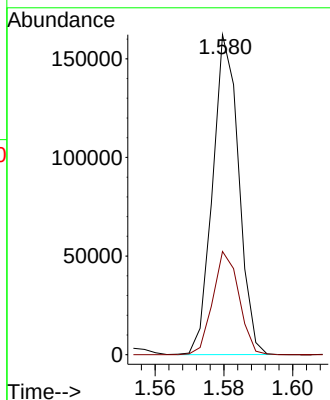
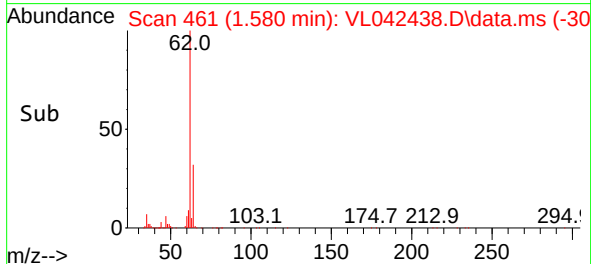
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01



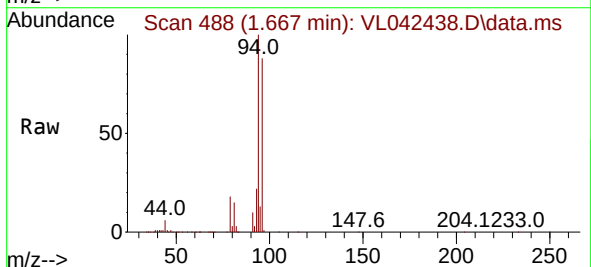
Tgt Ion: 62 Resp: 85334  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 25.4 38.0

Manual Integrations  
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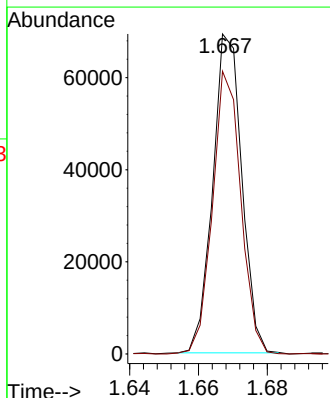
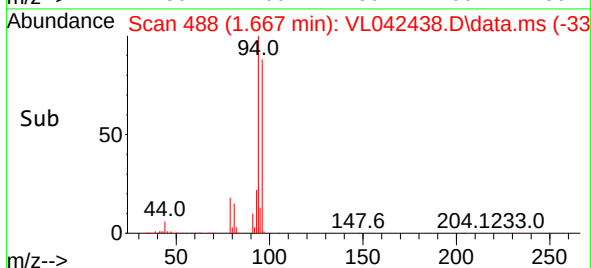
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

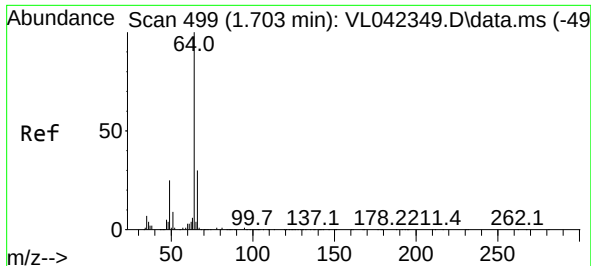


#6  
 Bromomethane  
 Concen: 10.676 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08



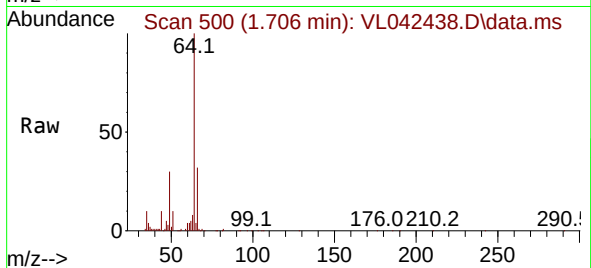
Tgt Ion: 94 Resp: 40758  
 Ion Ratio Lower Upper  
 94 100  
 96 88.5 66.2 99.2





#7  
Chloroethane  
Concen: 10.502 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

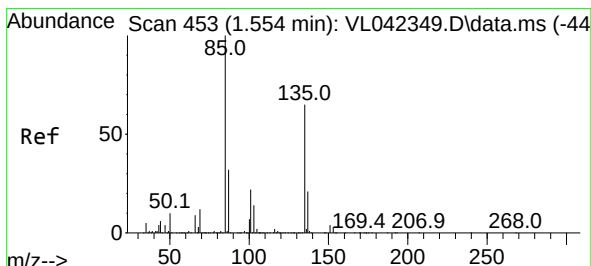
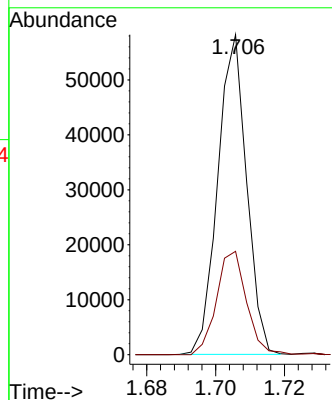
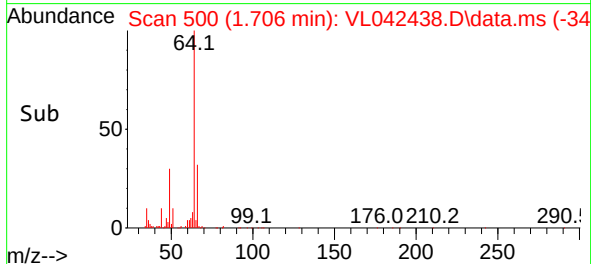
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



Tgt Ion: 64 Resp: 33750  
Ion Ratio Lower Upper  
64 100  
66 32.3 24.6 37.0

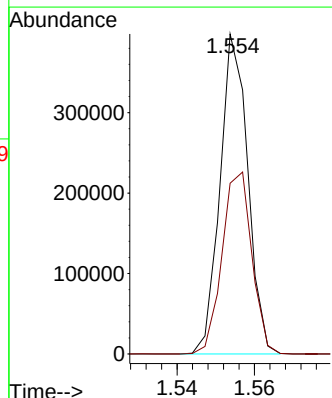
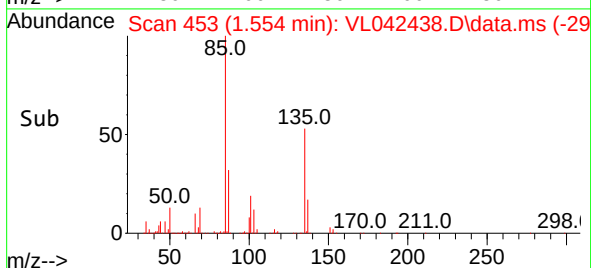
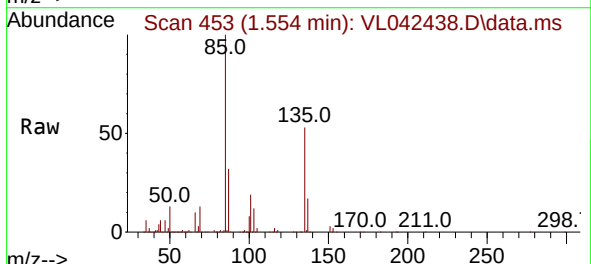
Manual Integrations  
APPROVED

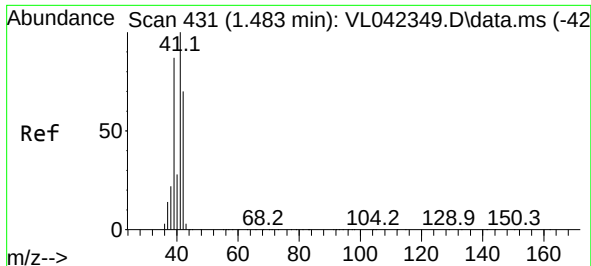
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#8  
Dichlorotetrafluoroethane  
Concen: 11.184 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

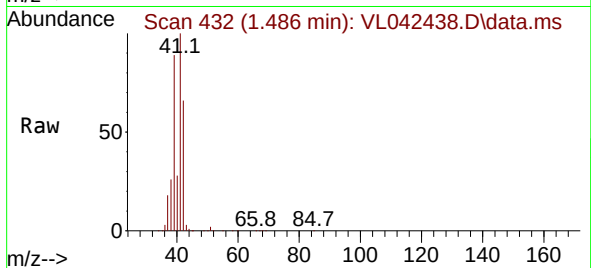
Tgt Ion: 85 Resp: 198106  
Ion Ratio Lower Upper  
85 100  
135 61.2 52.2 78.2





#9  
Propene  
Concen: 7.836 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

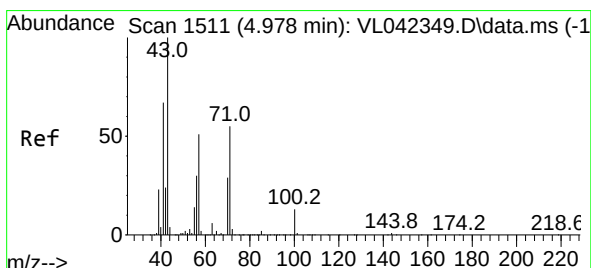
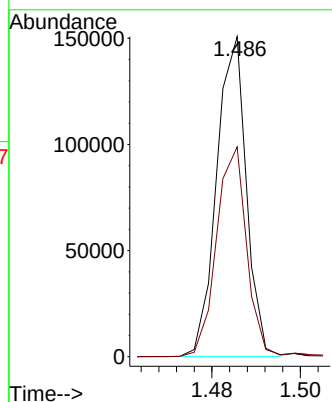
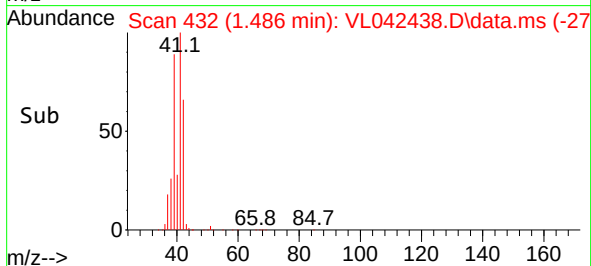
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



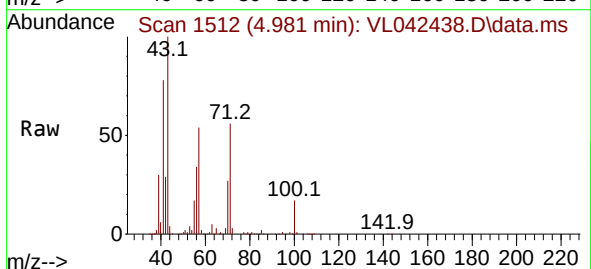
Tgt Ion: 41 Resp: 7011  
Ion Ratio Lower Upper  
41 100  
42 67.7 56.2 84.4

Manual Integrations  
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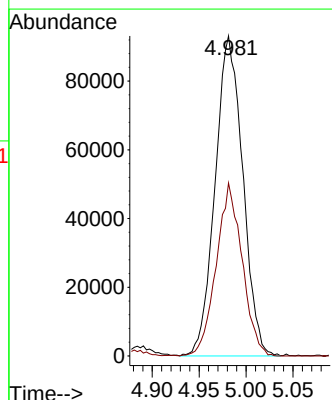
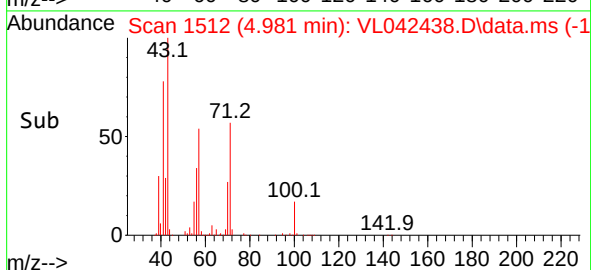
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

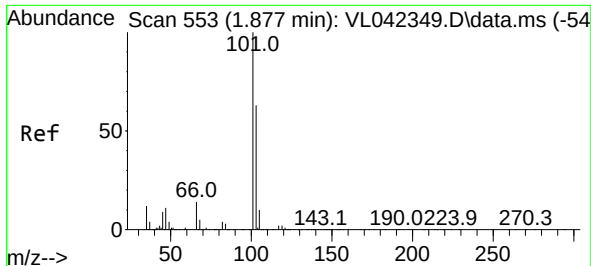


#10  
Heptane  
Concen: 7.582 ppbv  
RT: 4.981 min Scan# 1512  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



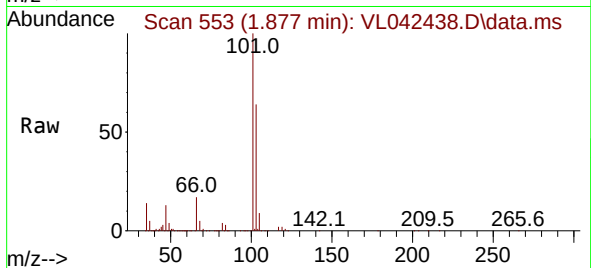
Tgt Ion: 43 Resp: 190583  
Ion Ratio Lower Upper  
43 100  
57 50.6 39.9 59.9





#11  
Trichlorofluoromethane  
Concen: 11.484 ppbv  
RT: 1.877 min Scan# 553  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

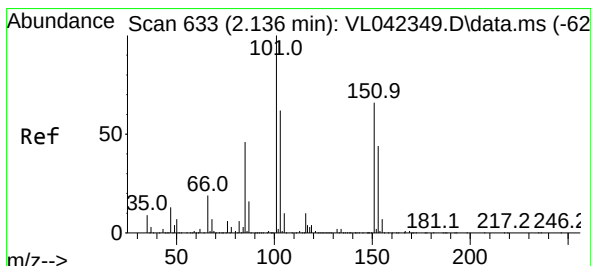
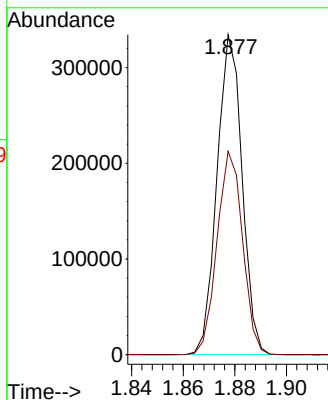
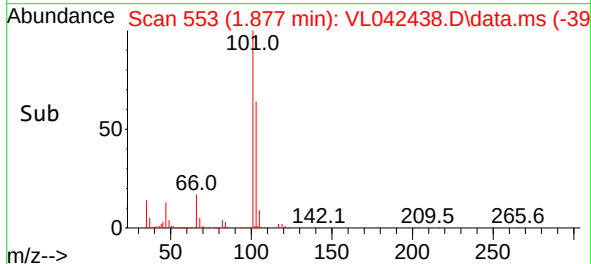
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



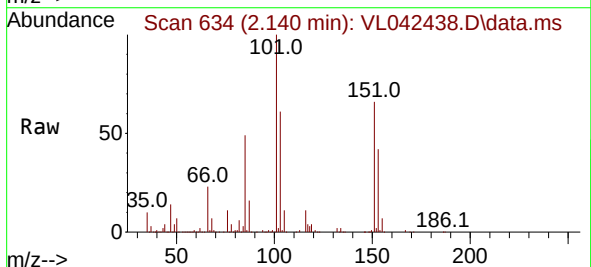
Tgt Ion:101 Resp: 225308  
Ion Ratio Lower Upper  
101 100  
103 63.6 50.1 75.1

Manual Integrations  
APPROVED

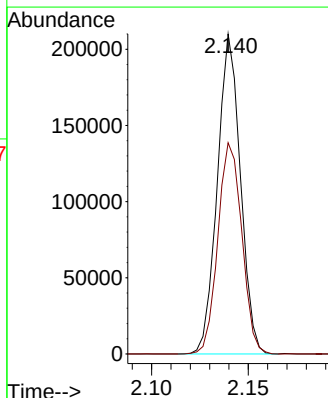
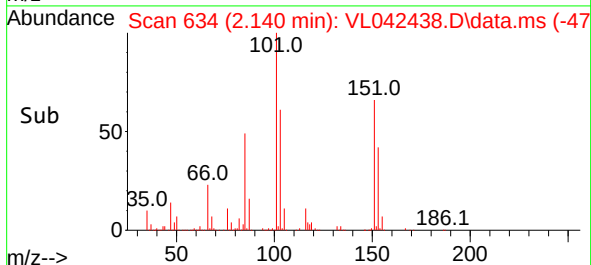
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

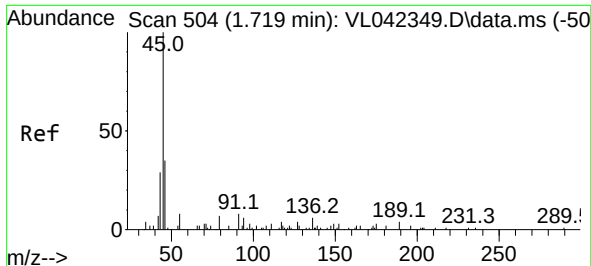


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 10.854 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



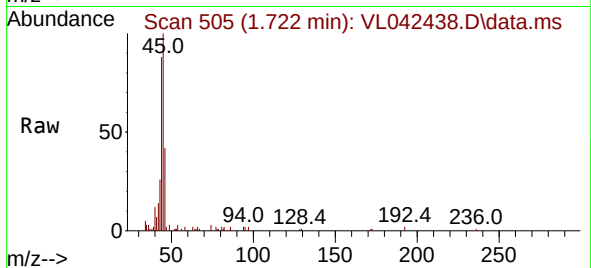
Tgt Ion:101 Resp: 174111  
Ion Ratio Lower Upper  
101 100  
151 68.5 57.0 85.6





#13  
Ethanol  
Concen: 2.909 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

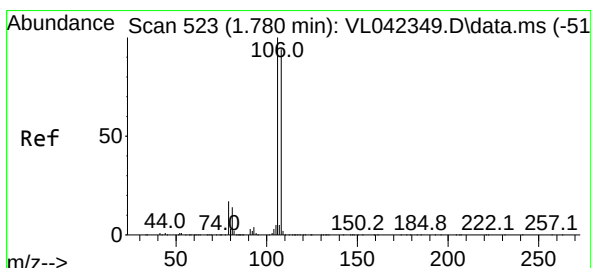
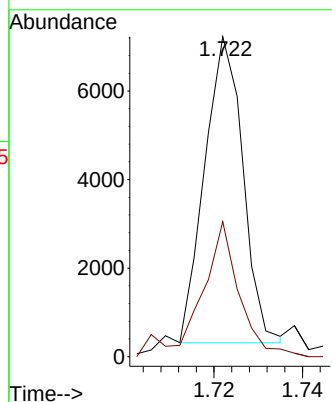
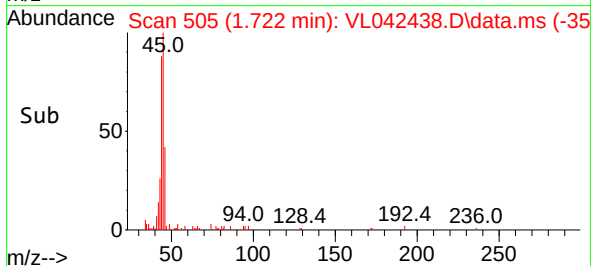
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



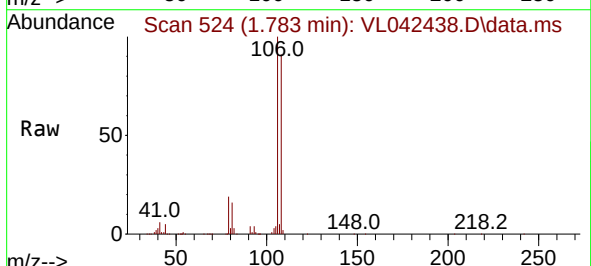
Tgt Ion: 45 Resp: 413  
Ion Ratio Lower Upper  
45 100  
46 47.5 21.9 87.7

Manual Integrations  
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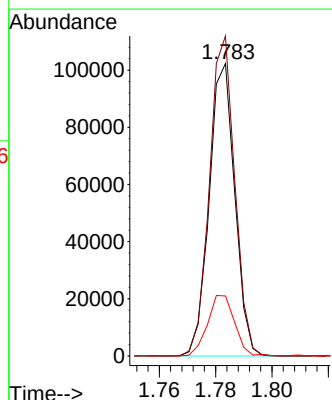
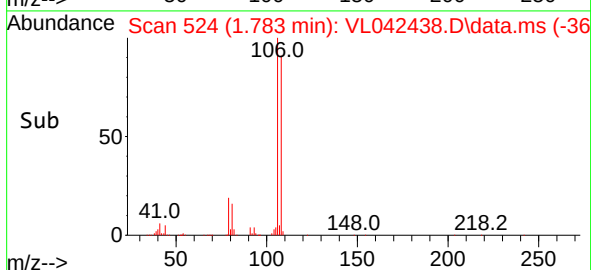
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

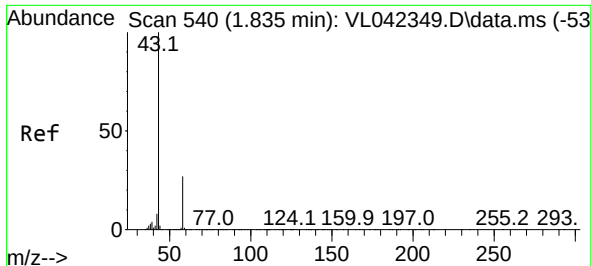


#14  
Bromoethene  
Concen: 10.674 ppbv  
RT: 1.783 min Scan# 524  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



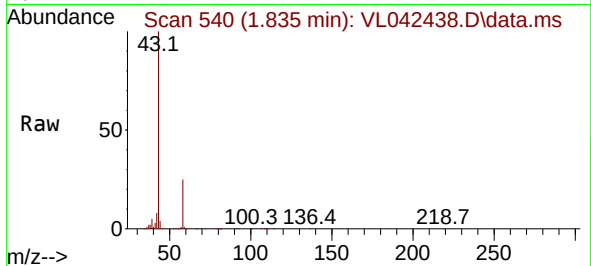
Tgt Ion:108 Resp: 64544  
Ion Ratio Lower Upper  
108 100  
106 108.0 85.9 128.9  
79 22.1 13.9 20.9#





#15  
Acetone  
Concen: 9.910 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

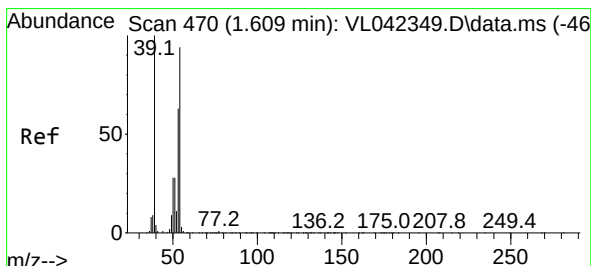
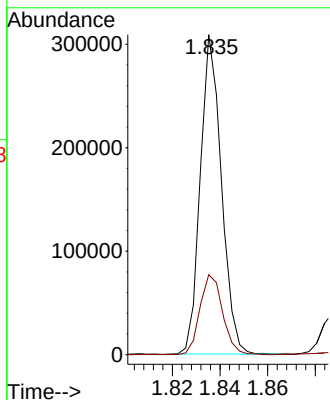
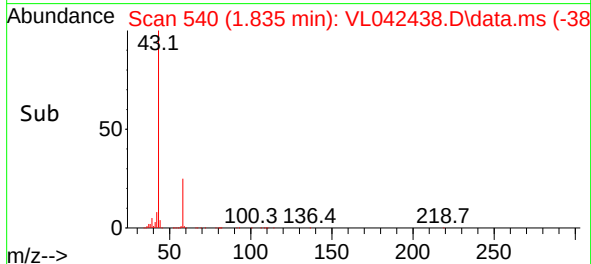
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



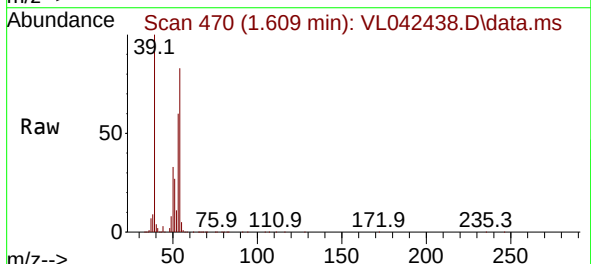
Tgt Ion: 43 Resp: 189432  
Ion Ratio Lower Upper  
43 100  
58 27.1 22.4 33.6

Manual Integrations  
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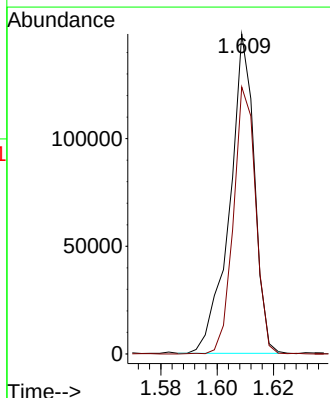
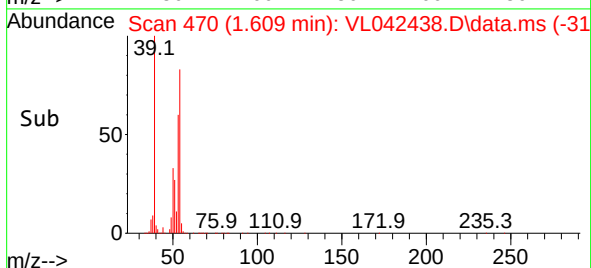
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

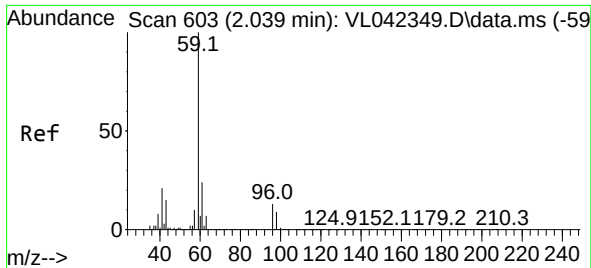


#16  
1,3-Butadiene  
Concen: 9.895 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



Tgt Ion: 39 Resp: 90473  
Ion Ratio Lower Upper  
39 100  
54 75.1 64.9 97.3





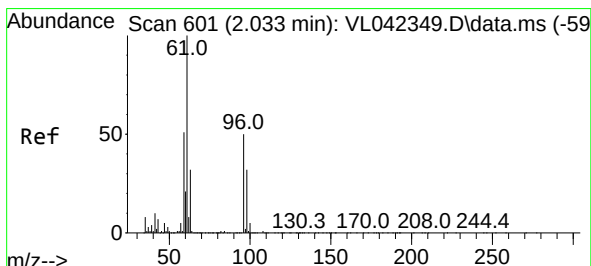
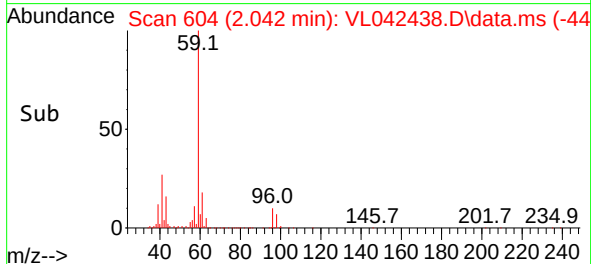
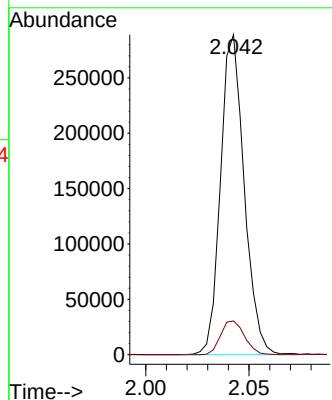
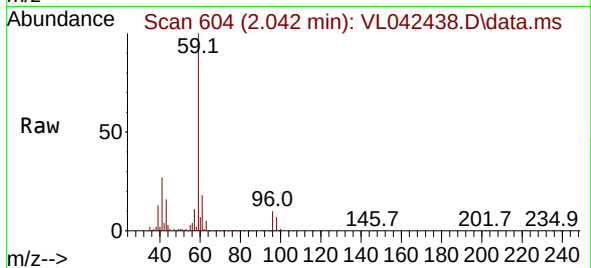
#17  
tert-Butyl alcohol  
Concen: 9.718 ppbv  
RT: 2.042 min Scan# 604  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 59 Resp: 23021  
Ion Ratio Lower Upper  
59 100  
57 10.7 8.7 13.1

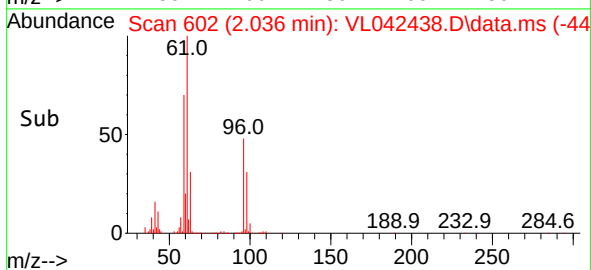
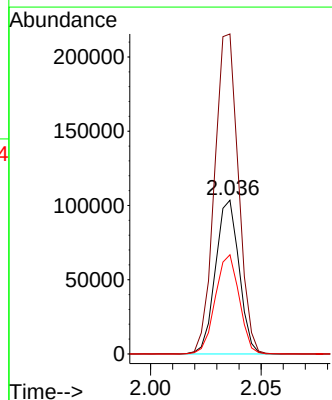
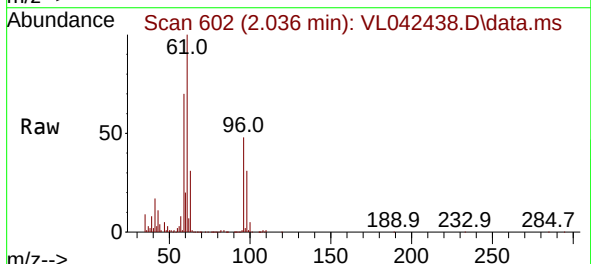
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

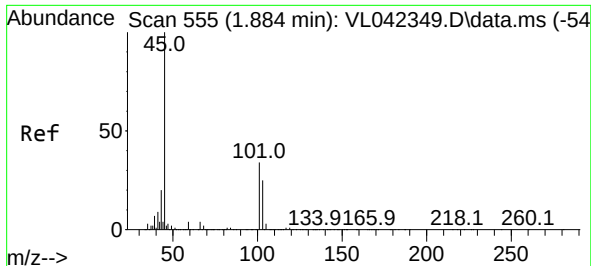


#18  
1,1-Dichloroethene  
Concen: 10.241 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 76749  
Ion Ratio Lower Upper  
96 100  
61 208.1 160.2 240.2  
98 64.5 51.0 76.4

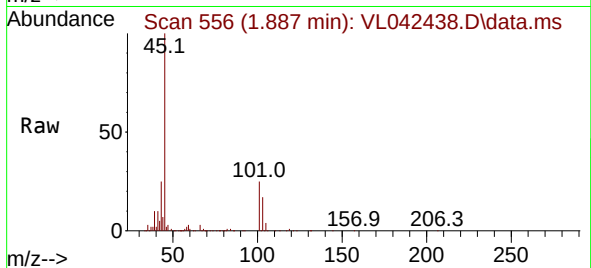






#19  
Isopropyl Alcohol  
Concen: 9.765 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

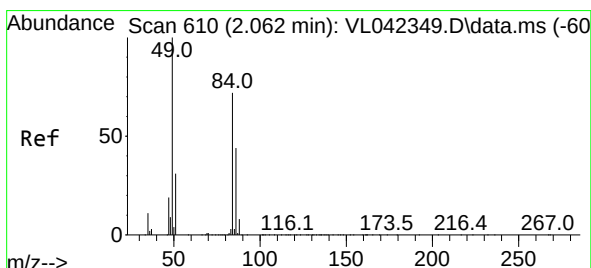
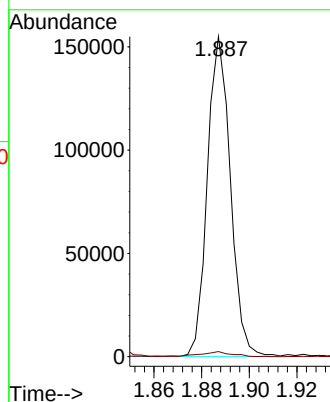
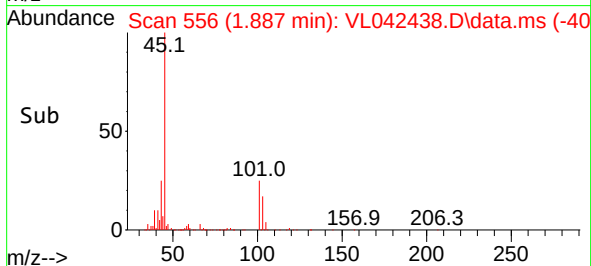
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



Tgt Ion: 45 Resp: 103692  
Ion Ratio Lower Upper  
45 100  
58 2.2 34.5 51.7

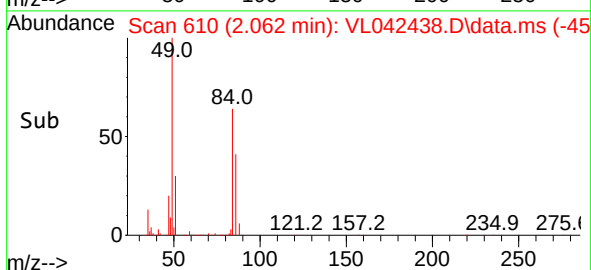
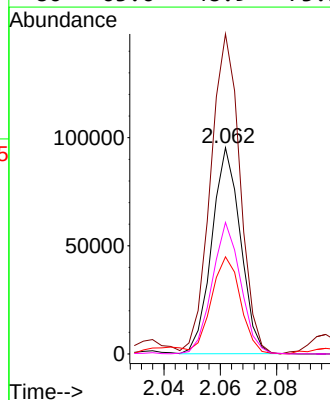
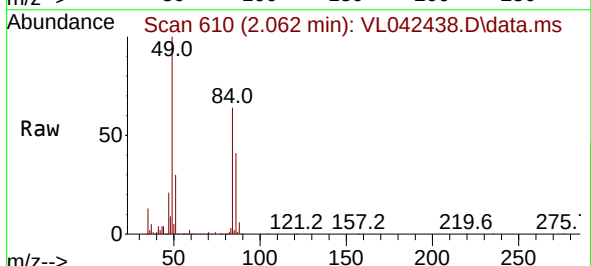
Manual Integrations  
APPROVED

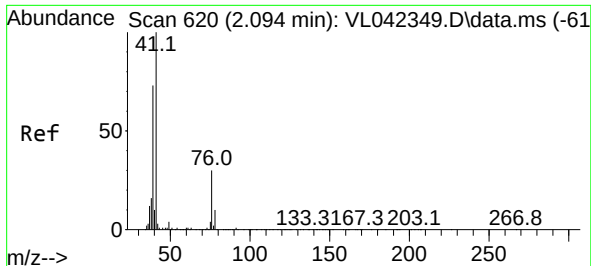
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#20  
Methylene Chloride  
Concen: 8.989 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 67298  
Ion Ratio Lower Upper  
84 100  
49 155.2 111.6 167.4  
51 47.0 35.1 52.7  
86 63.6 48.9 73.3





#21  
 Allyl Chloride  
 Concen: 9.851 ppbv  
 RT: 2.097 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

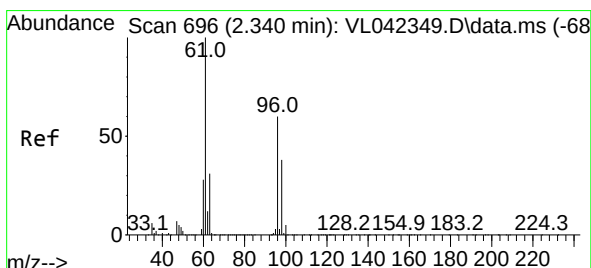
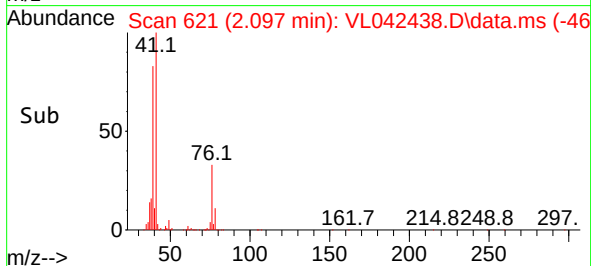
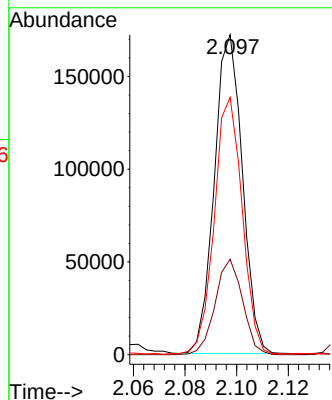
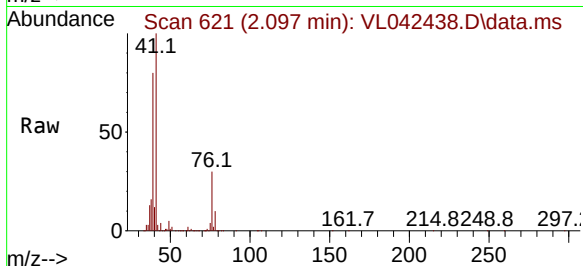
VL0429ABS01

Tgt Ion: 41 Resp: 130014  
 Ion Ratio Lower Upper  
 41 100  
 76 29.2 24.8 37.2  
 39 80.1 60.6 90.8

Manual Integrations

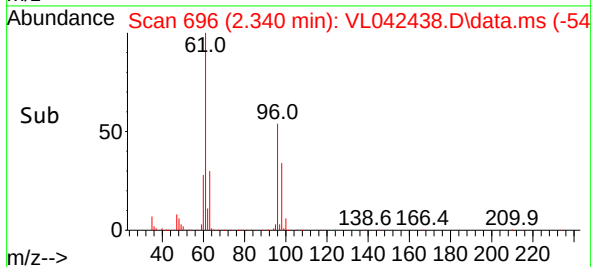
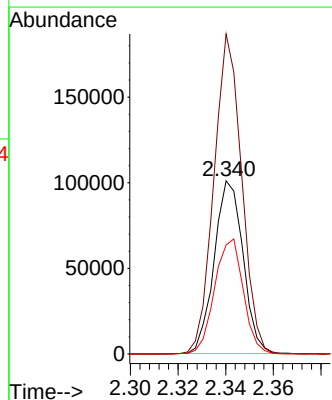
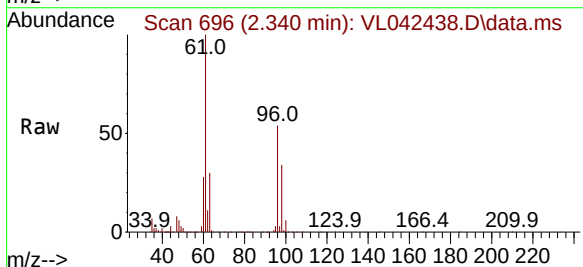
APPROVED

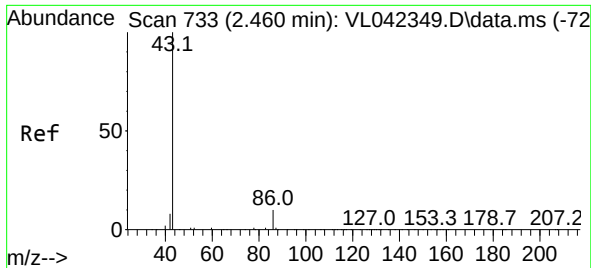
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.938 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

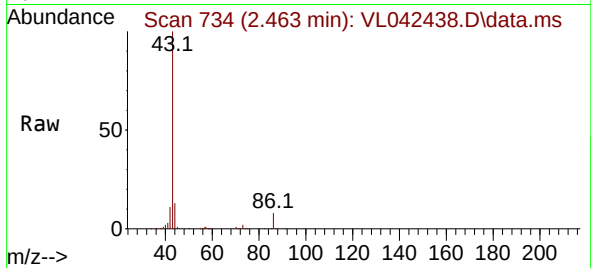
Tgt Ion: 96 Resp: 84797  
 Ion Ratio Lower Upper  
 96 100  
 61 185.1 133.7 200.5  
 98 63.1 50.3 75.5





#23  
 Vinyl Acetate  
 Concen: 7.888 ppbv  
 RT: 2.463 min Scan# 717  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

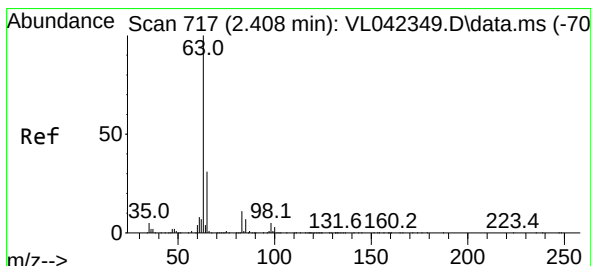
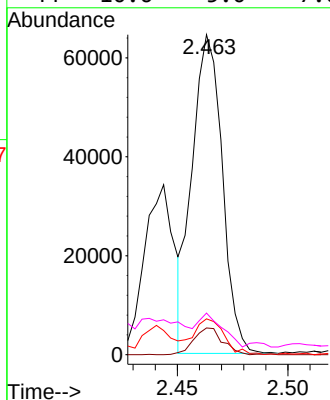
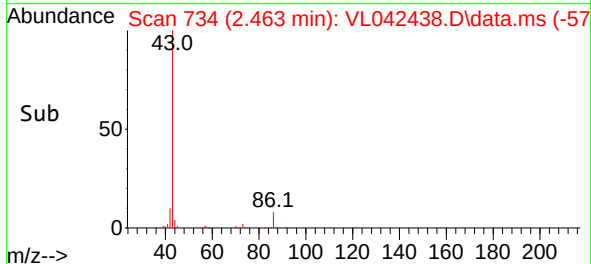
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01



Tgt Ion: 43 Resp: 61030  
 Ion Ratio Lower Upper  
 43 100  
 86 8.4 6.5 9.7  
 42 11.0 7.8 11.8  
 44 10.6 5.0 7.6#

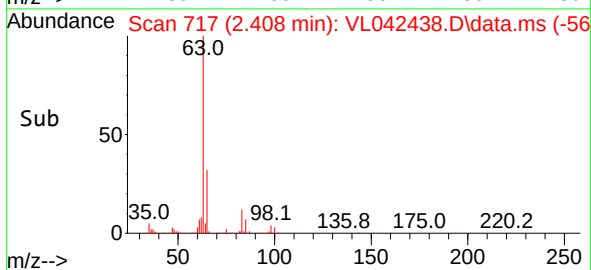
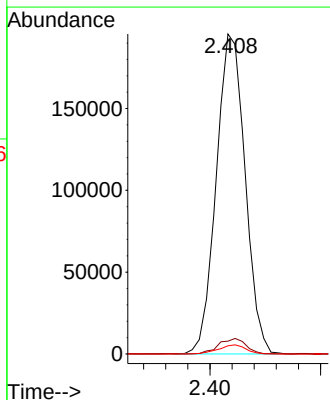
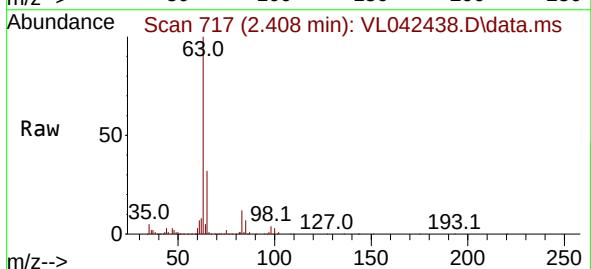
Manual Integrations  
 APPROVED

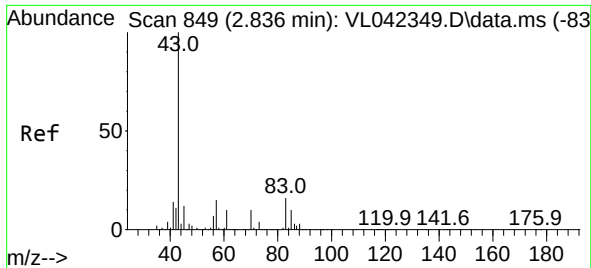
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



#24  
 1,1-Dichloroethane  
 Concen: 10.934 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 63 Resp: 177233  
 Ion Ratio Lower Upper  
 63 100  
 98 4.0 2.3 6.8  
 100 2.6 1.6 4.8





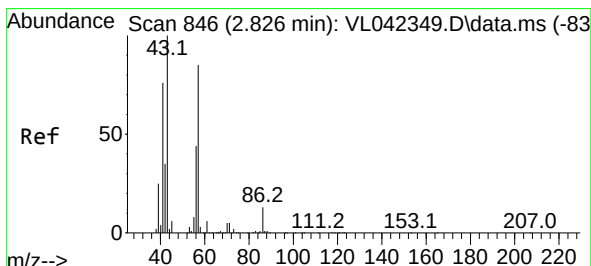
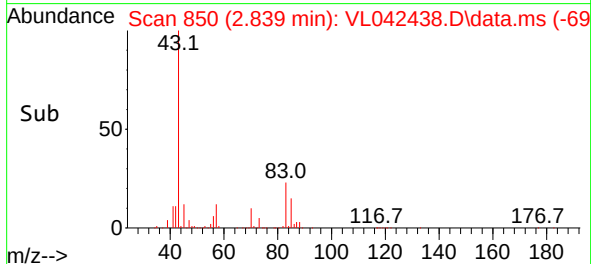
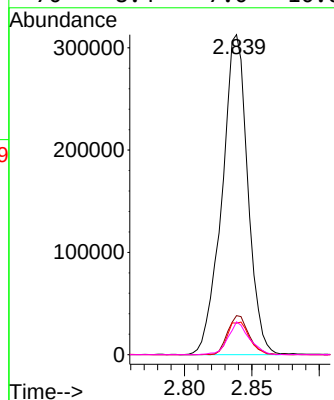
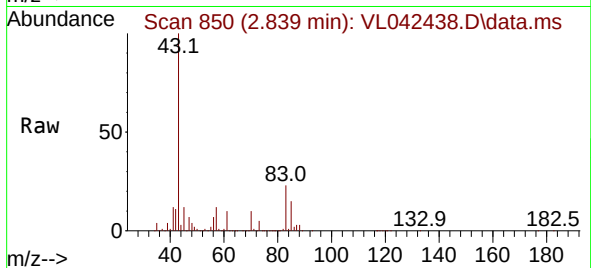
#25  
Ethyl Acetate  
Concen: 8.836 ppbv  
RT: 2.839 min Scan# 849  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 43 Resp: 41646  
Ion Ratio Lower Upper  
43 100  
45 10.0 8.3 12.5  
61 8.8 7.3 10.9  
70 8.4 7.0 10.6

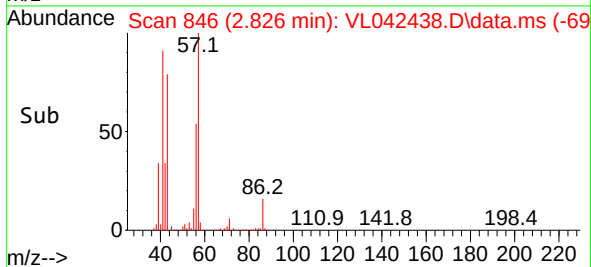
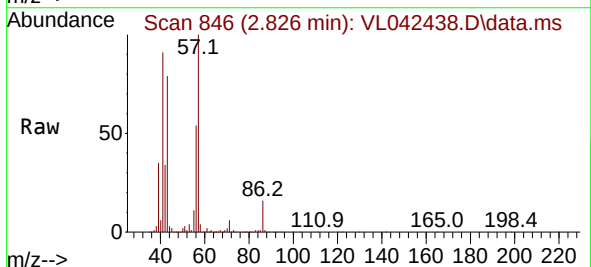
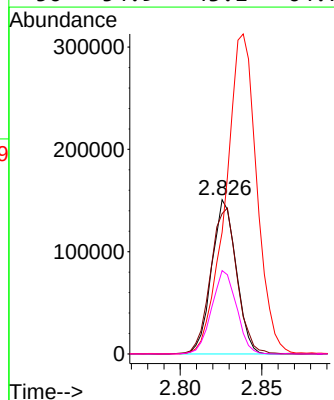
Manual Integrations  
APPROVED

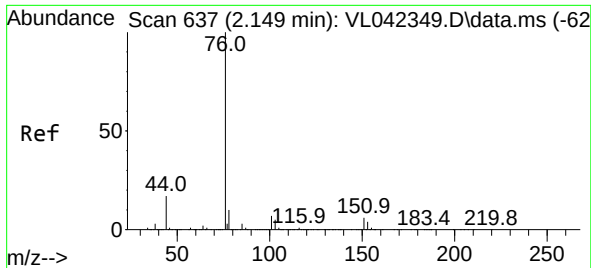
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#26  
Hexane  
Concen: 8.260 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

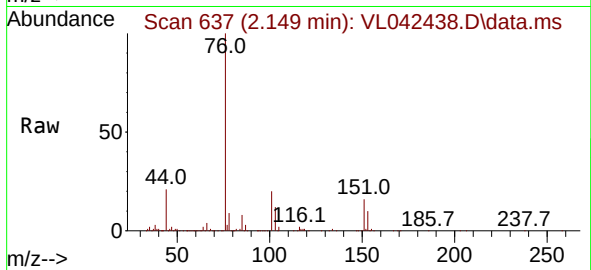
Tgt Ion: 57 Resp: 157544  
Ion Ratio Lower Upper  
57 100  
41 103.2 77.9 116.9  
43 265.6 208.4 312.6  
56 54.9 43.1 64.7





#27  
Carbon Disulfide  
Concen: 10.372 ppbv  
RT: 2.149 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

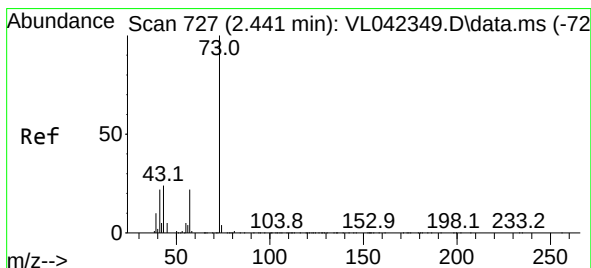
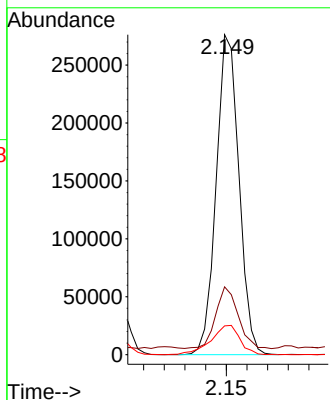
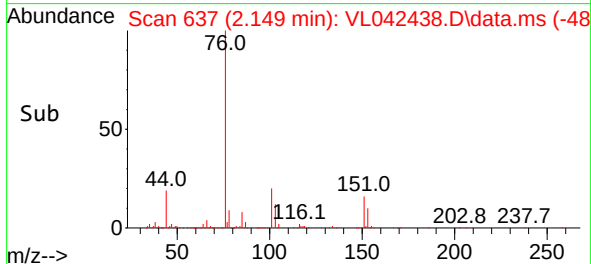
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



Tgt Ion: 76 Resp: 211824  
Ion Ratio Lower Upper  
76 100  
44 19.8 15.5 23.3  
78 11.7 9.3 13.9

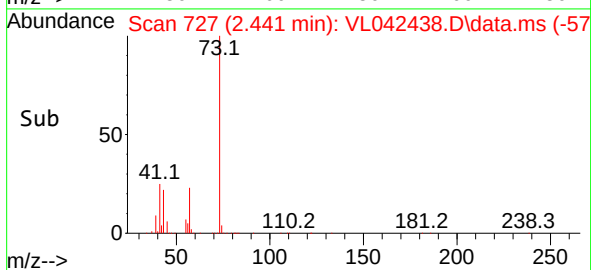
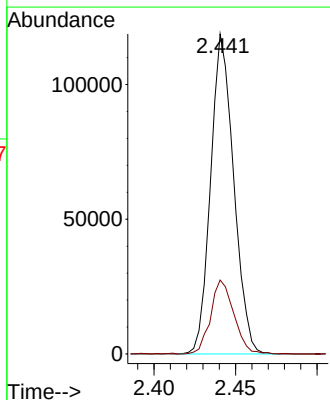
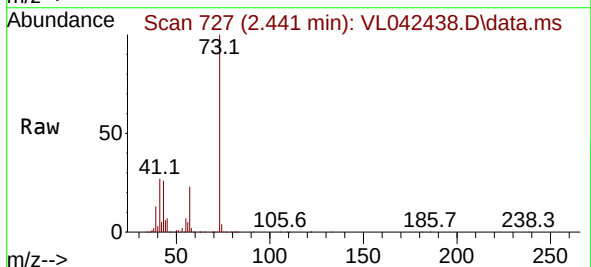
Manual Integrations  
APPROVED

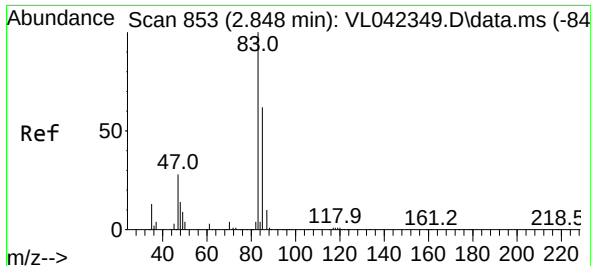
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#28  
Methyl tert-Butyl Ether  
Concen: 9.344 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 73 Resp: 116769  
Ion Ratio Lower Upper  
73 100  
57 23.4 21.3 31.9





#29

Chloroform

Concen: 10.623 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 83 Resp: 28639

Ion Ratio Lower Upper

83 100

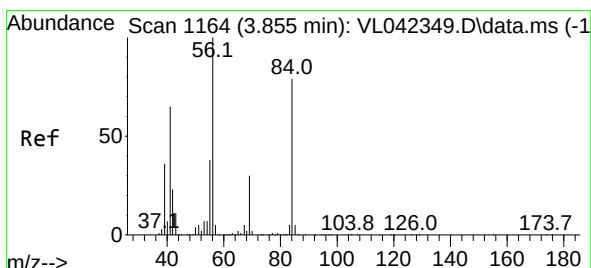
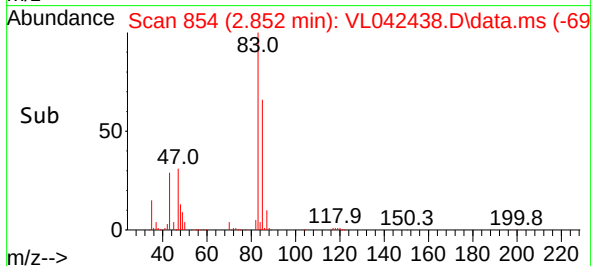
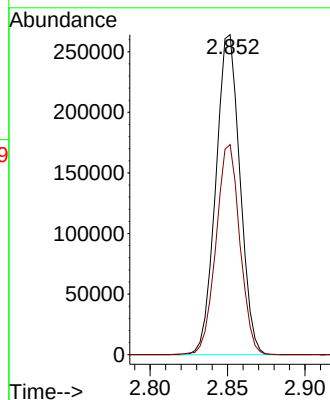
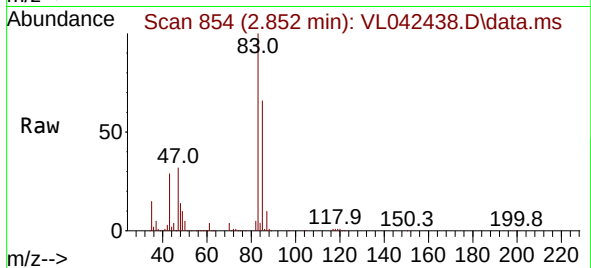
85 65.6 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#30

Cyclohexane

Concen: 8.601 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

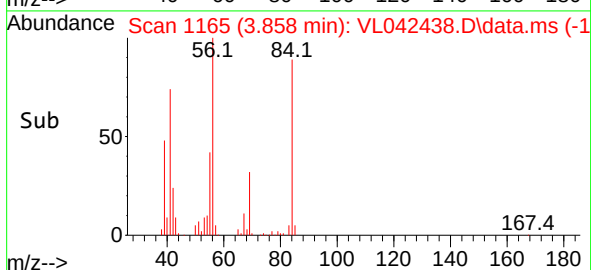
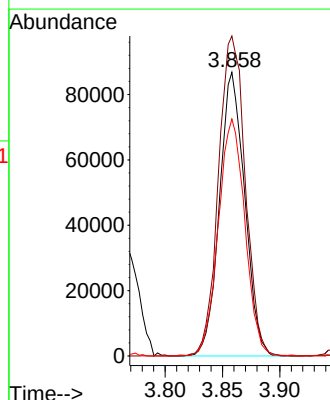
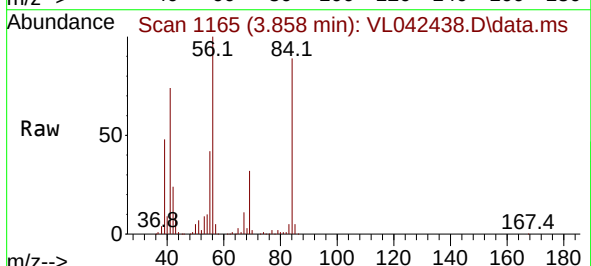
Tgt Ion: 84 Resp: 132615

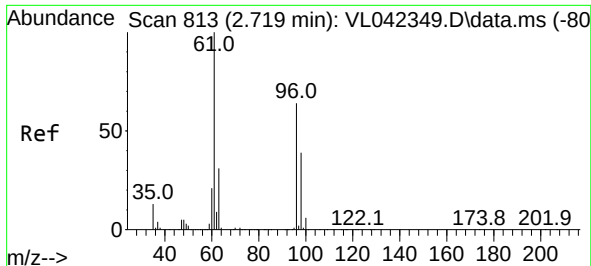
Ion Ratio Lower Upper

84 100

56 119.9 101.0 151.4

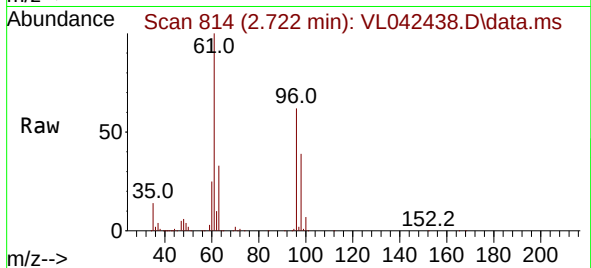
41 88.0 67.4 101.0





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.613 ppbv  
 RT: 2.722 min Scan# 813  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

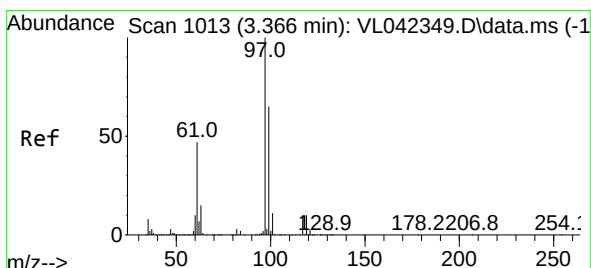
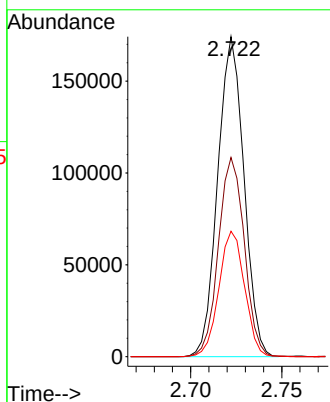
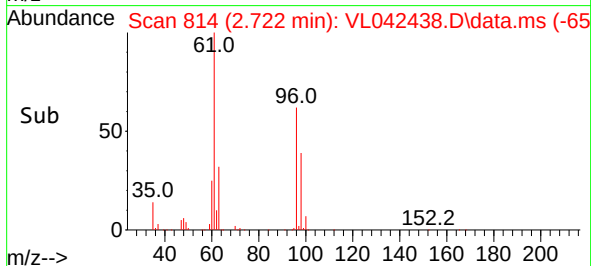
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01



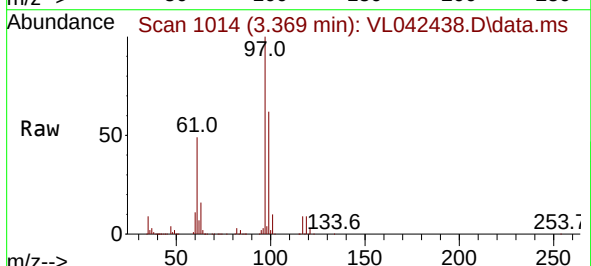
Tgt Ion: 61 Resp: 174328  
 Ion Ratio Lower Upper  
 61 100  
 96 62.3 50.8 76.2  
 98 39.2 30.9 46.3

Manual Integrations  
 APPROVED

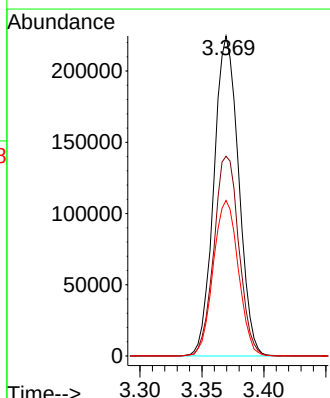
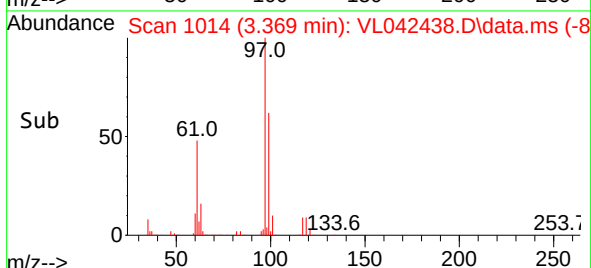
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025

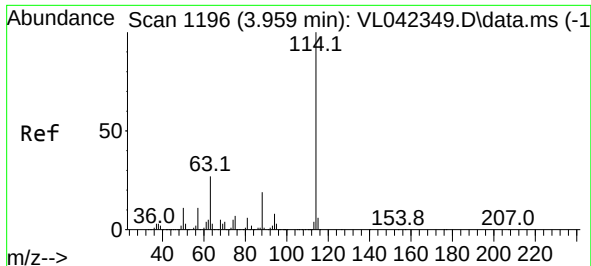


#32  
 1,1,1-Trichloroethane  
 Concen: 10.294 ppbv  
 RT: 3.369 min Scan# 1014  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08



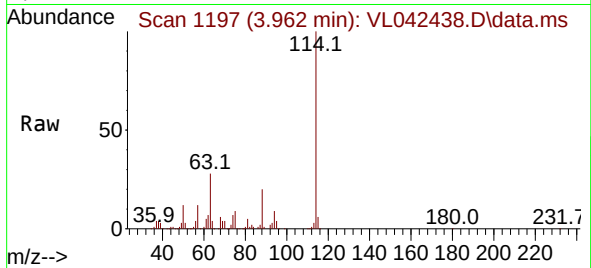
Tgt Ion: 97 Resp: 312429  
 Ion Ratio Lower Upper  
 97 100  
 99 63.2 51.0 76.4  
 61 49.4 38.8 58.2





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1196  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

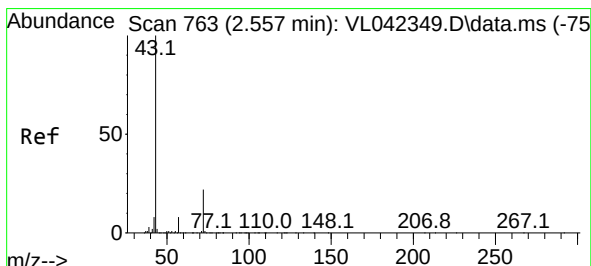
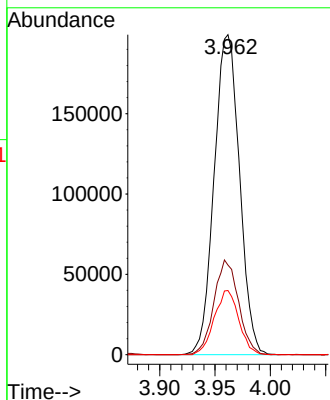
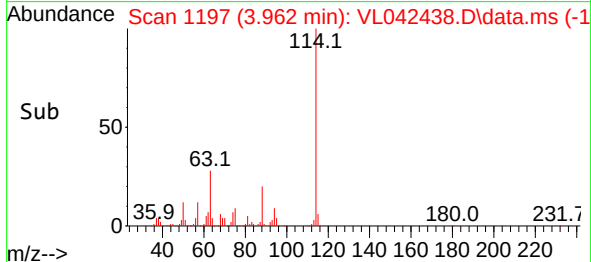
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



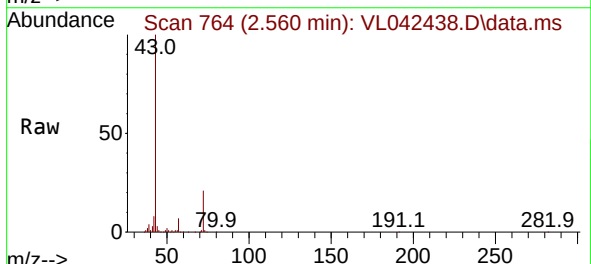
Tgt Ion:114 Resp: 317590  
Ion Ratio Lower Upper  
114 100  
63 28.7 21.8 32.6  
88 19.4 15.5 23.3

Manual Integrations  
APPROVED

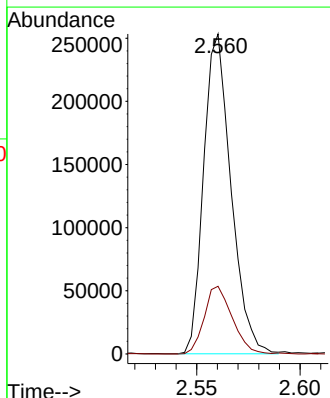
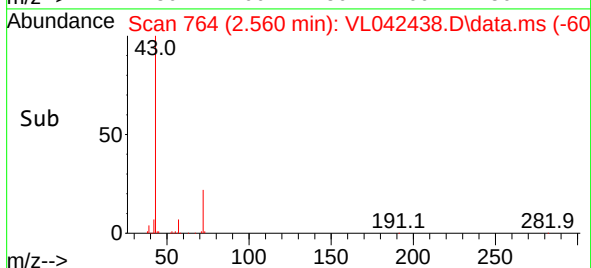
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



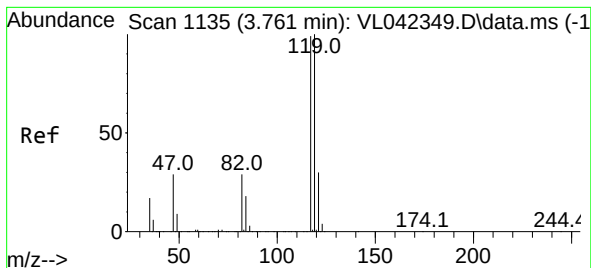
#34  
2-Butanone  
Concen: 9.278 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



Tgt Ion: 43 Resp: 233037  
Ion Ratio Lower Upper  
43 100  
72 21.7 18.2 27.2







#35

Carbon Tetrachloride

Concen: 11.036 ppbv

RT: 3.764 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042438.D

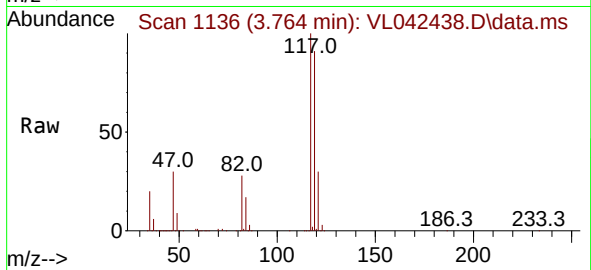
Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01



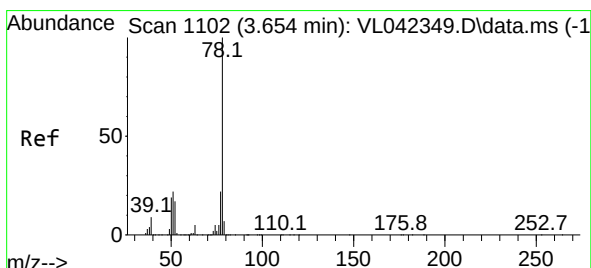
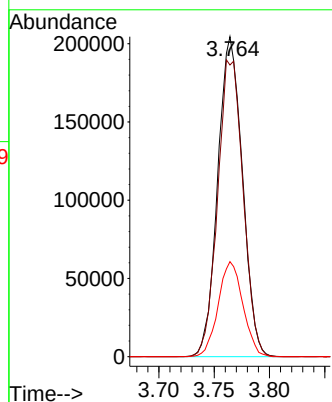
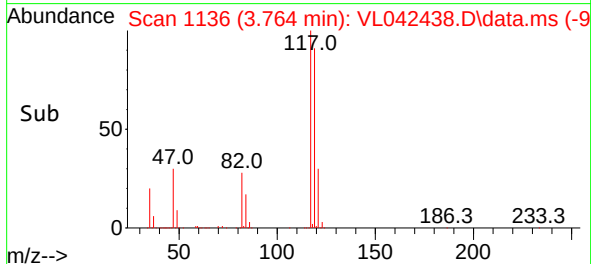
Tgt Ion: 117 Resp: 31720

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 91.1  | 80.5  | 120.7 |
| 121 | 29.7  | 24.2  | 36.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#36

Benzene

Concen: 9.264 ppbv

RT: 3.658 min Scan# 1103

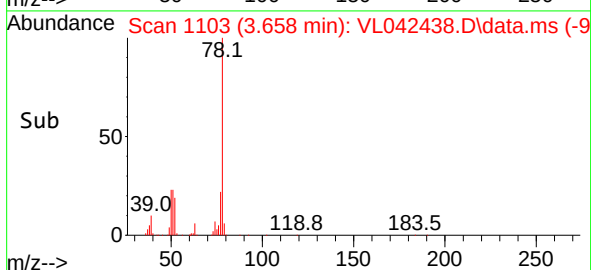
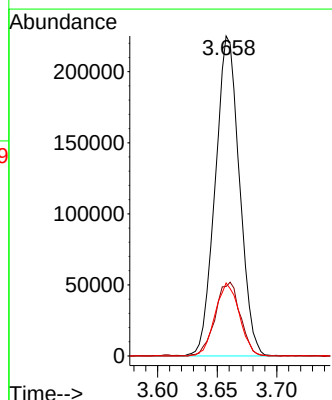
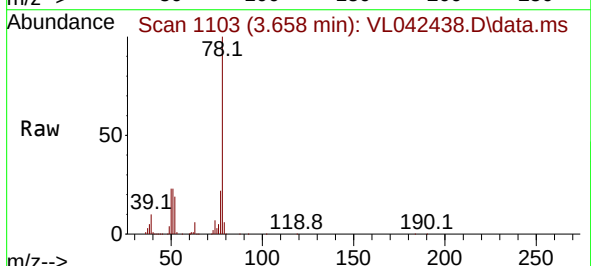
Delta R.T. 0.003 min

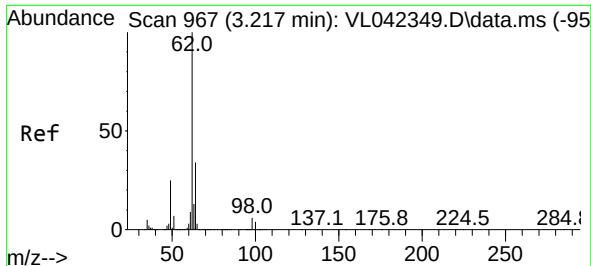
Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion: 78 Resp: 317350

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 21.7  | 17.4  | 26.0  |
| 50  | 22.8  | 15.5  | 23.3  |





#37

1,2-Dichloroethane

Concen: 12.035 ppbv

RT: 3.221 min Scan# 967

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 62 Resp: 247440

Ion Ratio Lower Upper

62 100

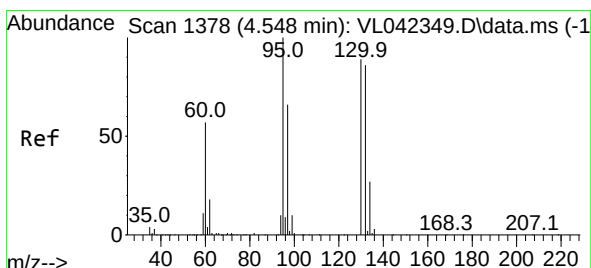
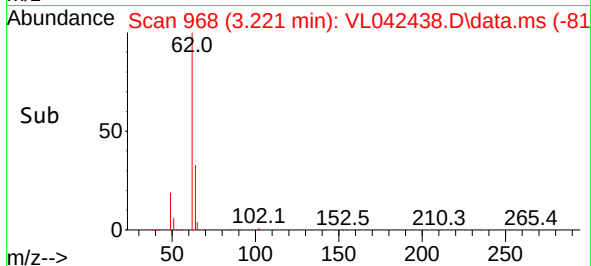
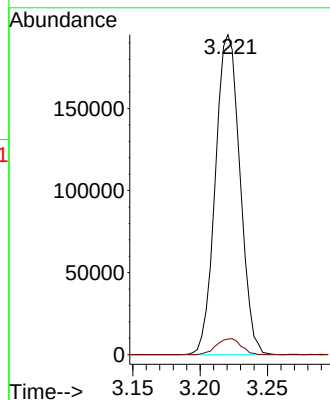
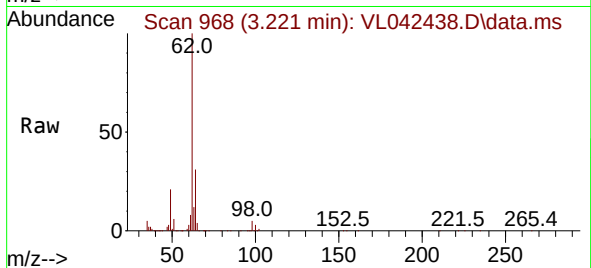
98 5.0 5.1 7.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#38

Trichloroethene

Concen: 8.523 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:130 Resp: 127601

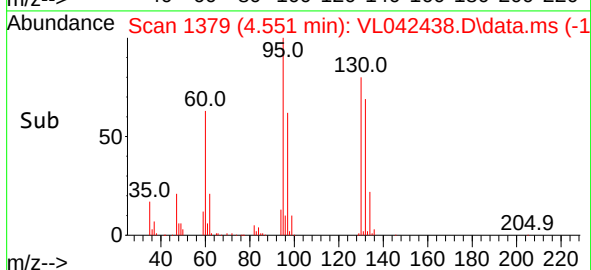
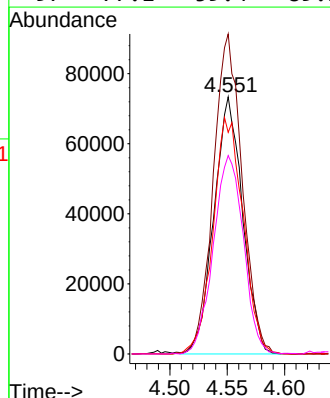
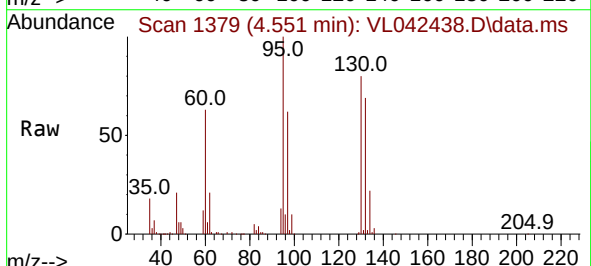
Ion Ratio Lower Upper

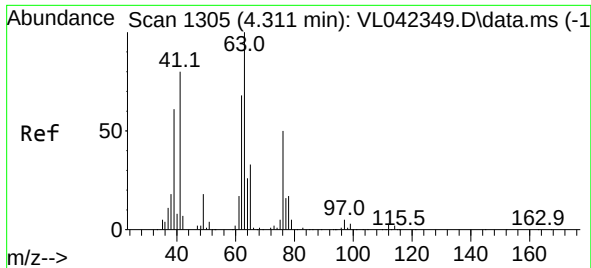
130 100

95 124.2 89.8 134.6

132 86.0 77.7 116.5

97 77.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.044 ppbv

RT: 4.318 min Scan# 115449

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 63 Resp: 115449

Ion Ratio Lower Upper

63 100

41 92.4 64.2 96.2

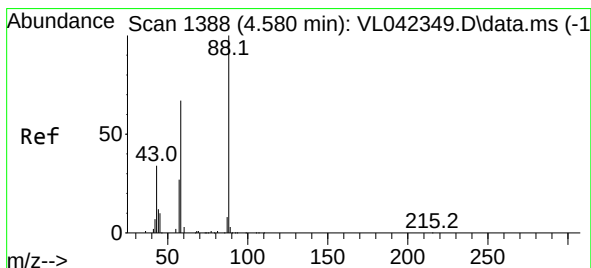
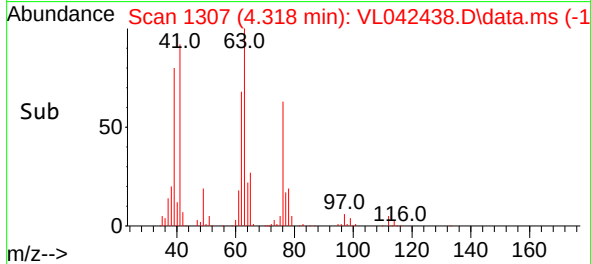
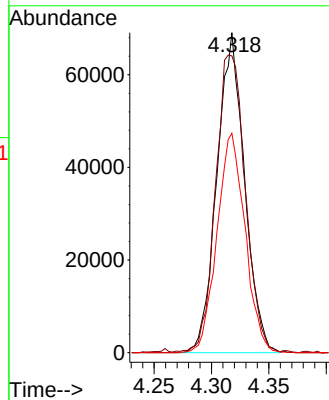
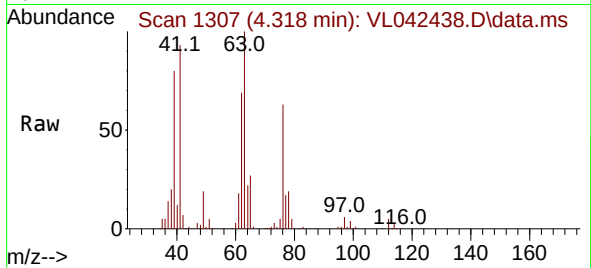
62 68.4 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#40

1,4-Dioxane

Concen: 7.529 ppbv

RT: 4.586 min Scan# 1390

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion: 88 Resp: 52820

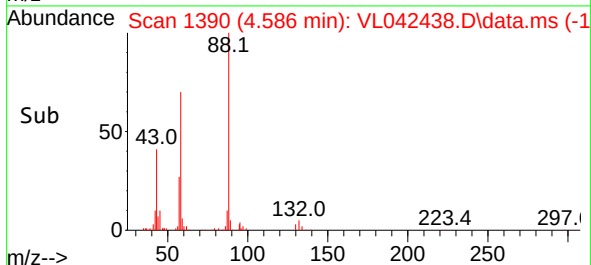
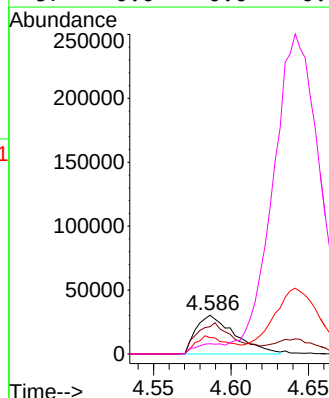
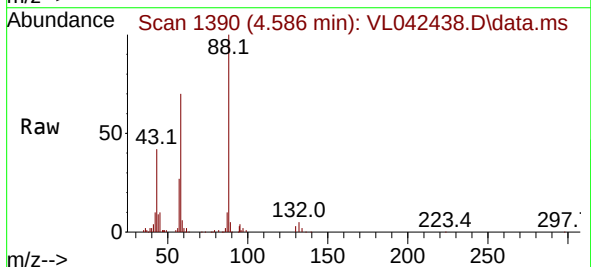
Ion Ratio Lower Upper

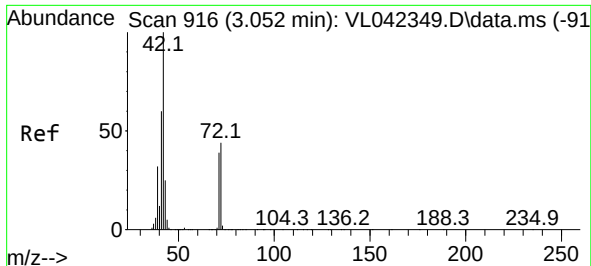
88 100

58 78.5 61.4 92.0

43 41.9 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 8.471 ppbv

RT: 3.055 min Scan# 916

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

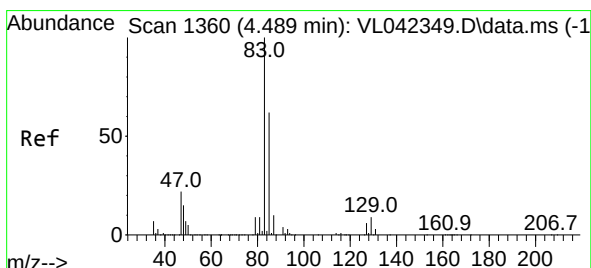
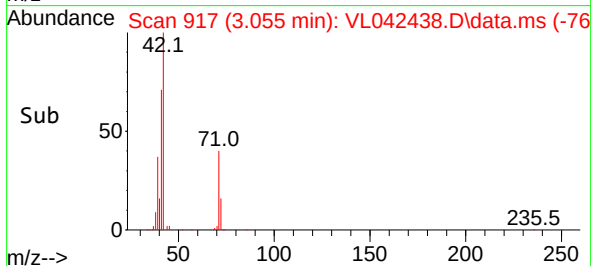
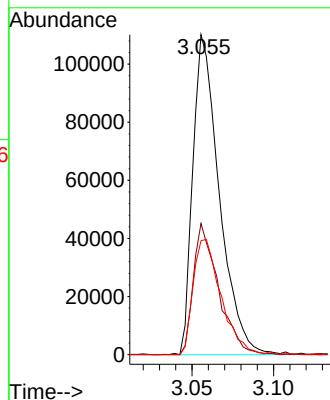
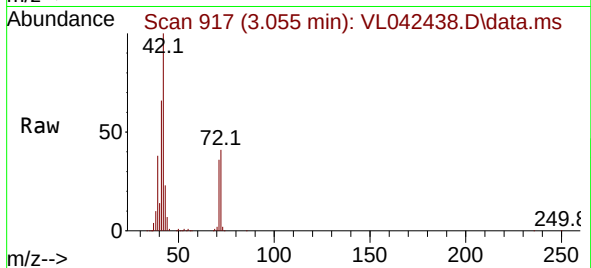
VL0429ABS01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 124059 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 72        | 38.9  | 32.3  | 48.5   |
| 71        | 38.4  | 31.4  | 47.2   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#42

Bromodichloromethane

Concen: 11.088 ppbv

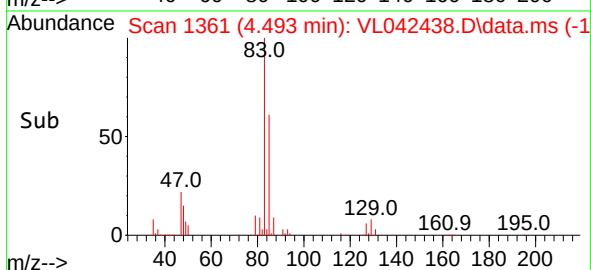
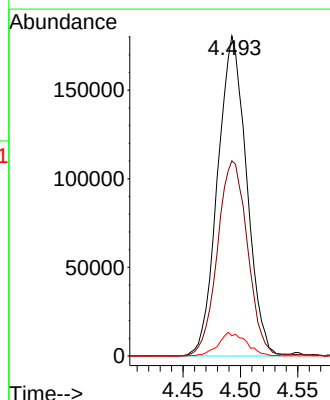
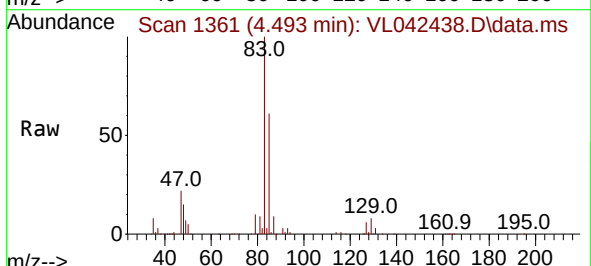
RT: 4.493 min Scan# 1361

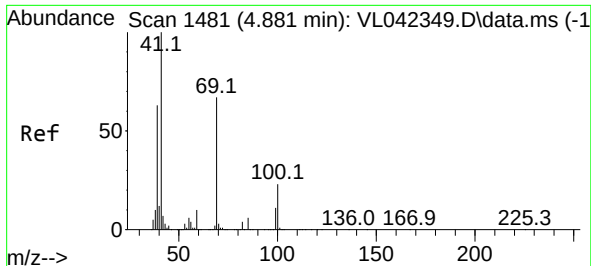
Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

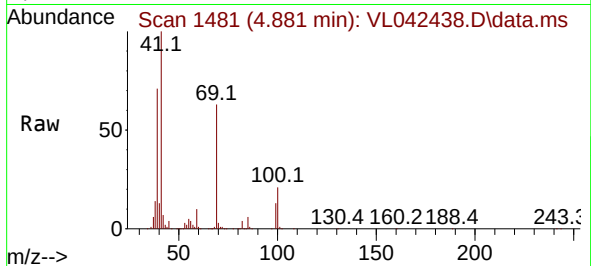
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 317253 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 61.0  | 49.7  | 74.5   |
| 127       | 6.4   | 5.1   | 7.7    |





#43  
Methyl Methacrylate  
Concen: 8.020 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

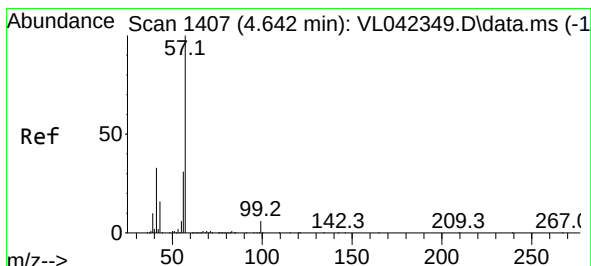
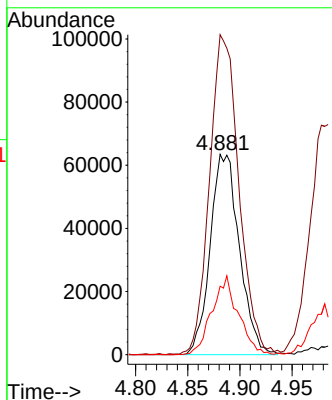
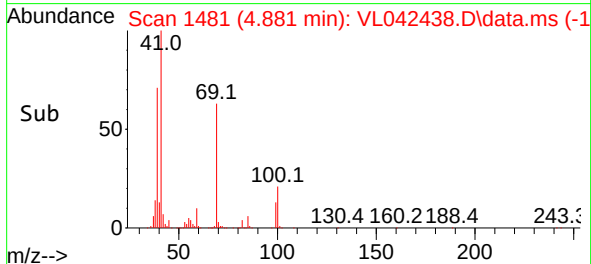
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



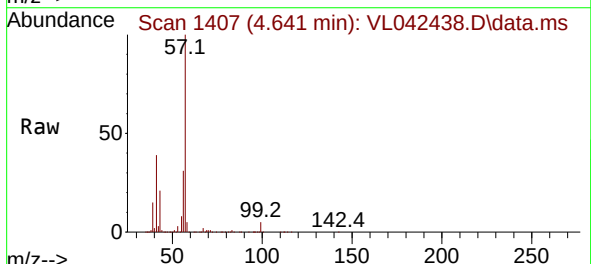
Tgt Ion: 69 Resp: 12381  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.6 177.8  
100 35.4 28.2 42.2

Manual Integrations  
APPROVED

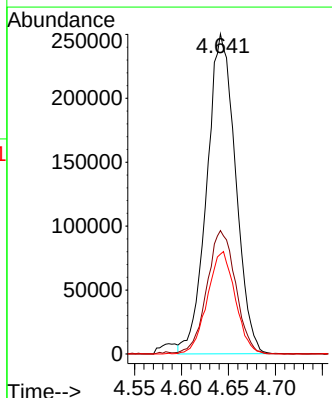
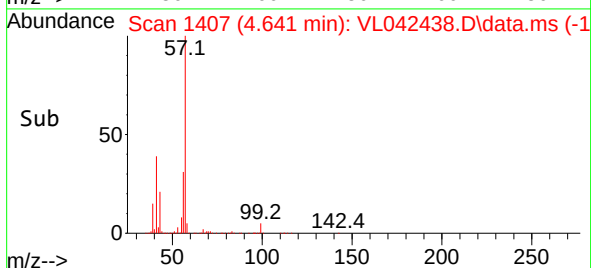
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

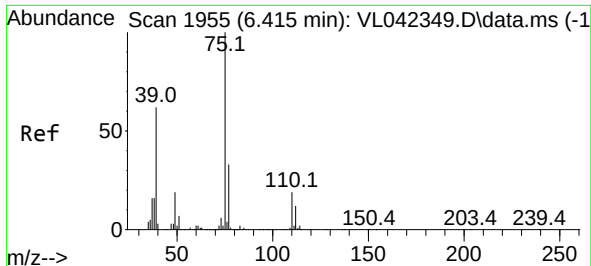


#44  
2,2,4-Trimethylpentane  
Concen: 8.983 ppbv  
RT: 4.641 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



Tgt Ion: 57 Resp: 531439  
Ion Ratio Lower Upper  
57 100  
41 39.1 27.2 40.8  
56 31.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 8.940 ppbv

RT: 6.418 min Scan# 1955

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

Tgt Ion: 75 Resp: 14098

Ion Ratio Lower Upper

75 100

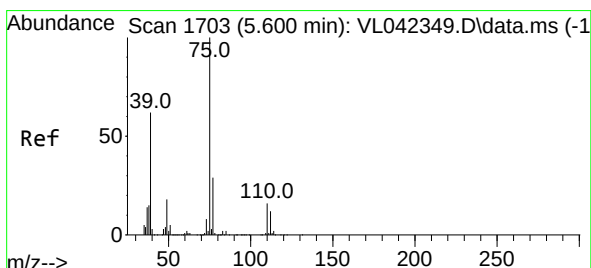
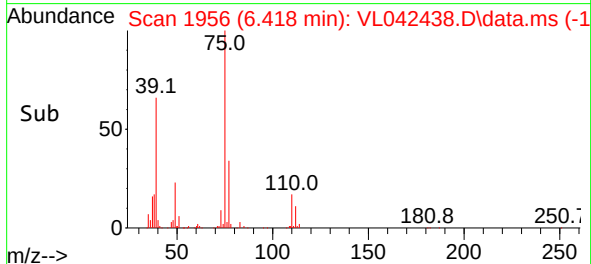
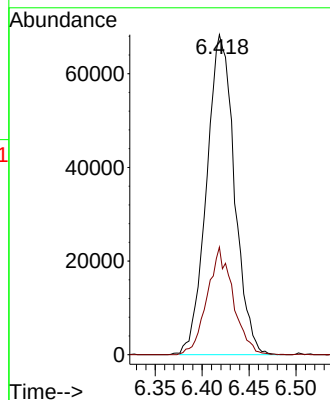
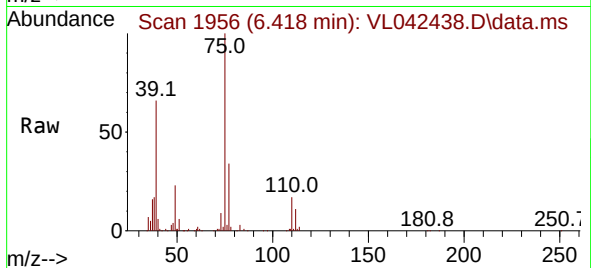
77 33.6 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#46

cis-1,3-Dichloropropene

Concen: 8.811 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

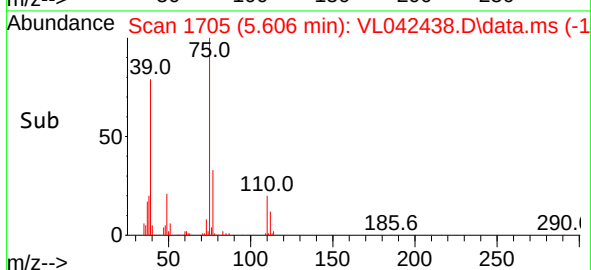
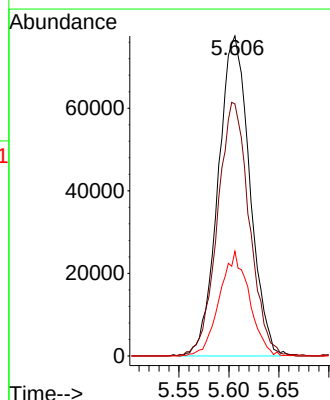
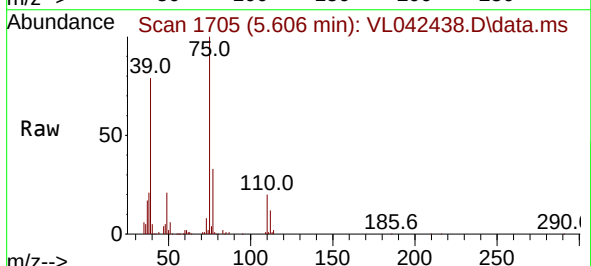
Tgt Ion: 75 Resp: 170063

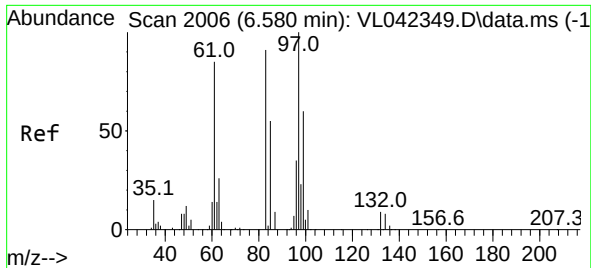
Ion Ratio Lower Upper

75 100

39 78.3 50.0 75.0#

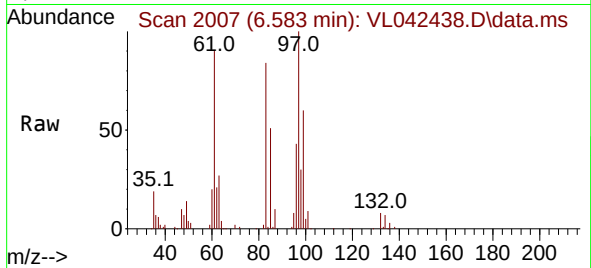
77 32.7 23.0 34.6





#47  
1,1,2-Trichloroethane  
Concen: 9.893 ppbv  
RT: 6.583 min Scan# 2006  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

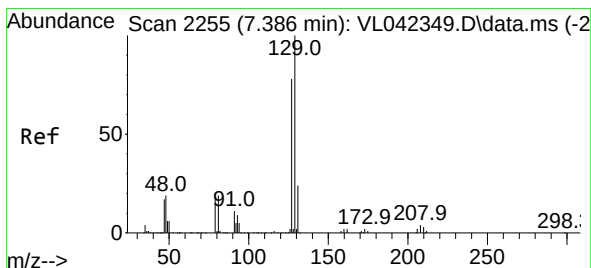
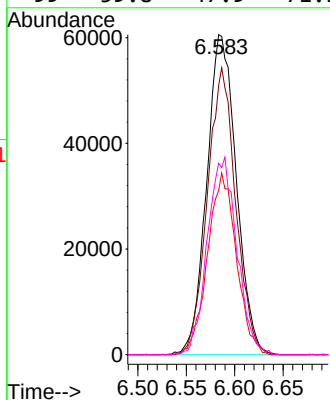
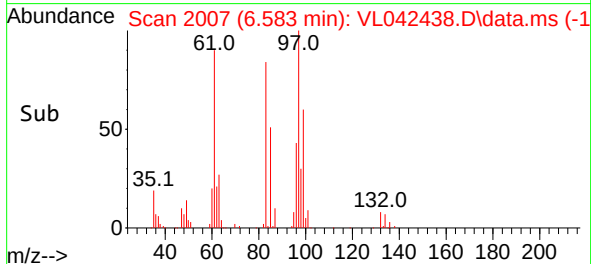
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



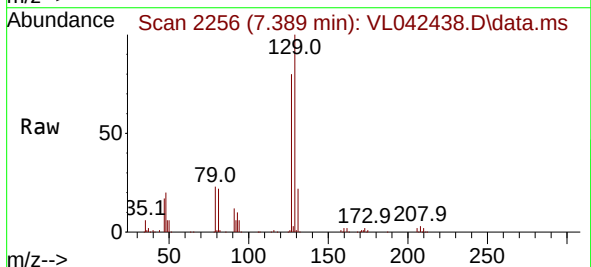
Tgt Ion: 97 Resp: 128662  
Ion Ratio Lower Upper  
97 100  
83 84.0 72.8 109.2  
85 51.4 44.2 66.4  
99 59.8 47.9 71.9

Manual Integrations  
APPROVED

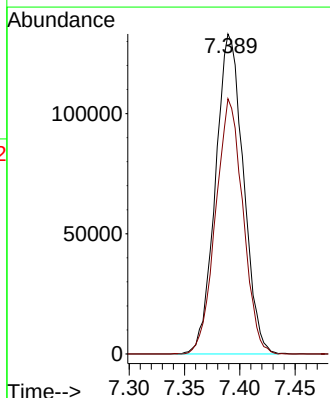
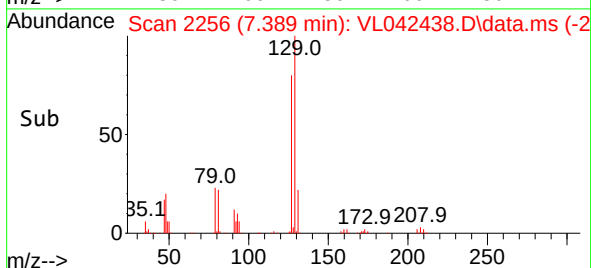
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

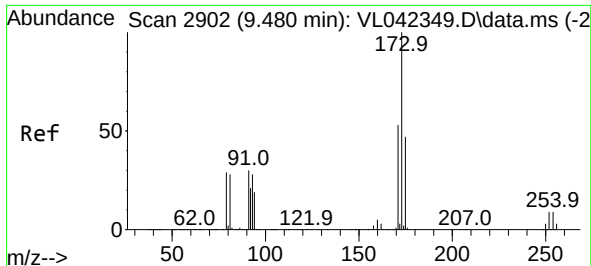


#48  
Dibromochloromethane  
Concen: 10.156 ppbv  
RT: 7.389 min Scan# 2256  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



Tgt Ion:129 Resp: 233350  
Ion Ratio Lower Upper  
129 100  
127 78.1 39.1 117.3





#49

Bromoform

Concen: 9.431 ppbv

RT: 9.487 min Scan# 2902

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

Tgt Ion:173 Resp: 189484

Ion Ratio Lower Upper

173 100

175 48.2 38.2 57.2

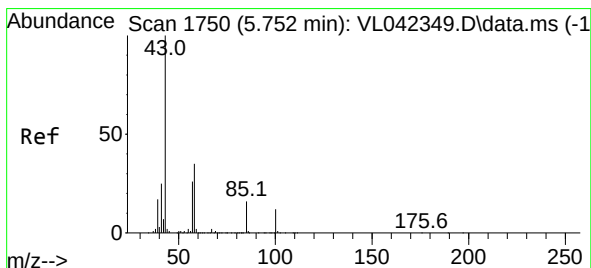
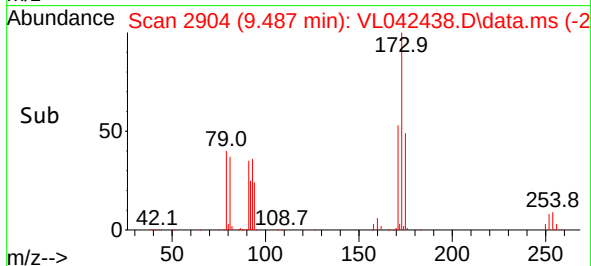
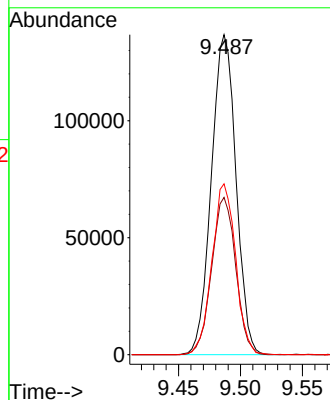
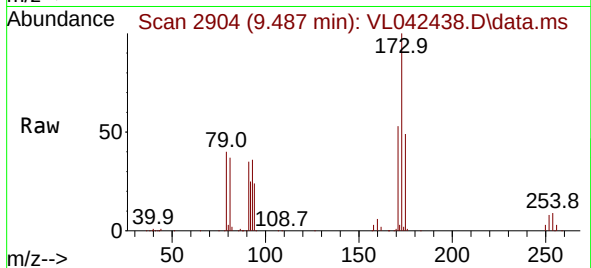
171 51.4 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#50

4-Methyl-2-Pentanone

Concen: 7.846 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. 0.003 min

Lab File: VL042438.D

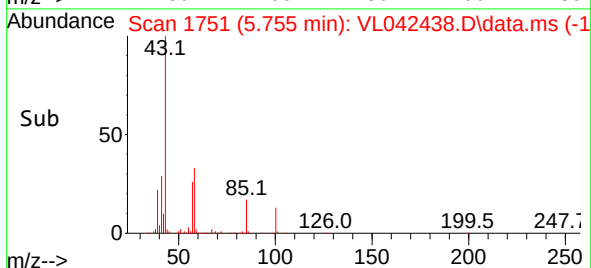
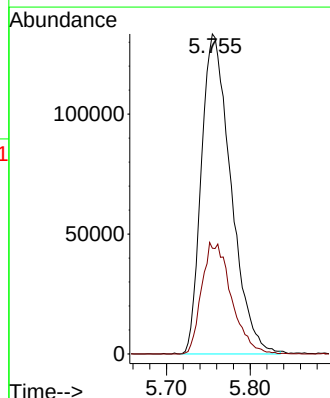
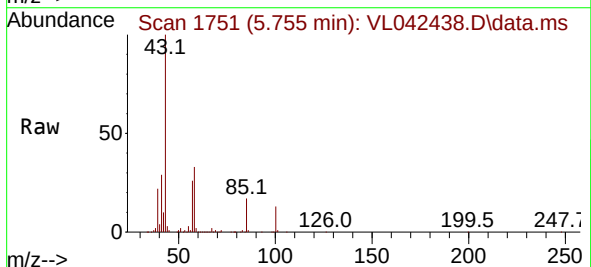
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 327508

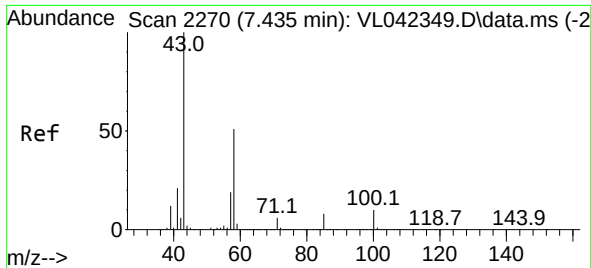
Ion Ratio Lower Upper

43 100

58 34.9 28.6 43.0

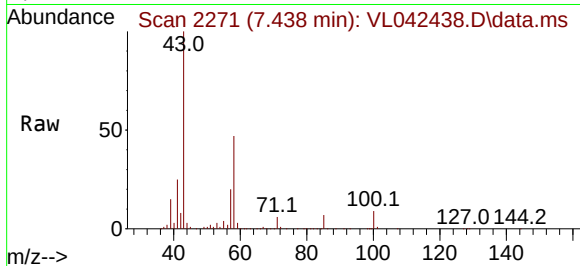






#51  
2-Hexanone  
Concen: 7.018 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

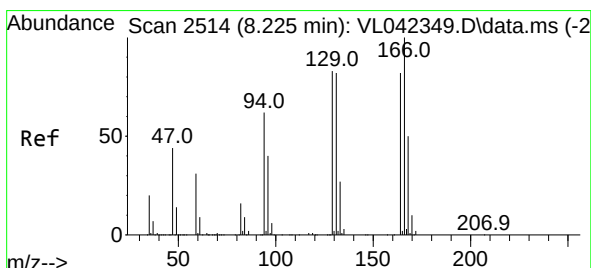
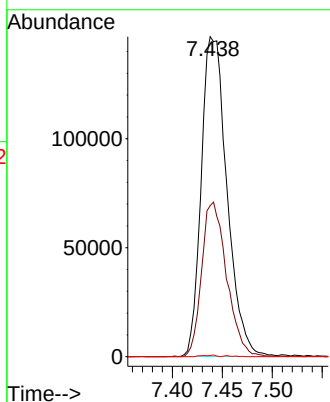
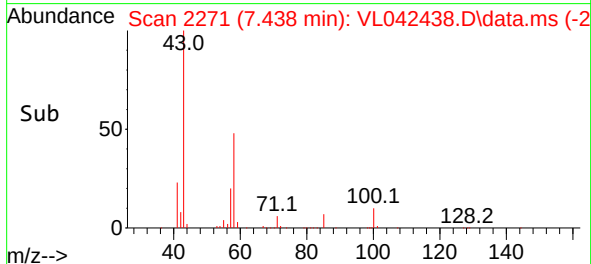
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



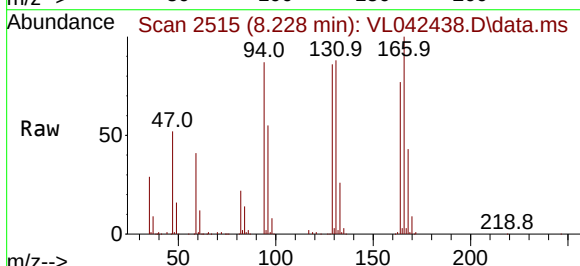
Tgt Ion: 43 Resp: 26269  
Ion Ratio Lower Upper  
43 100  
58 47.0 40.2 60.4  
98 0.4 0.1 0.1

Manual Integrations  
APPROVED

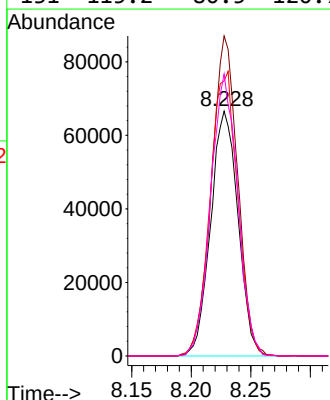
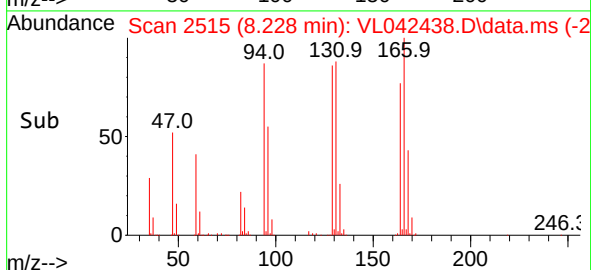
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

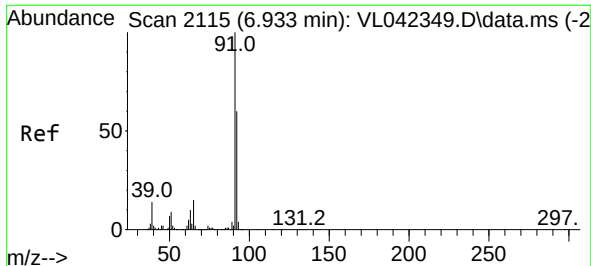


#52  
Tetrachloroethene  
Concen: 8.008 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



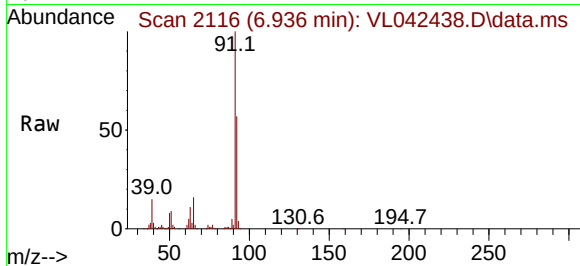
Tgt Ion:164 Resp: 106031  
Ion Ratio Lower Upper  
164 100  
166 130.7 98.2 147.2  
129 112.3 81.8 122.8  
131 115.2 80.5 120.7





#53  
Toluene  
Concen: 8.848 ppbv  
RT: 6.936 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

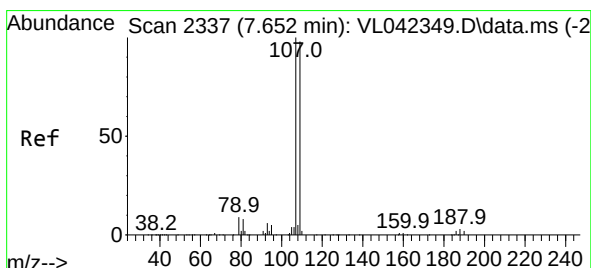
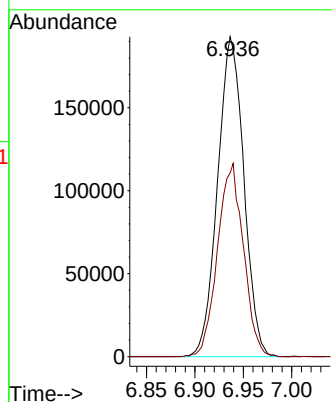
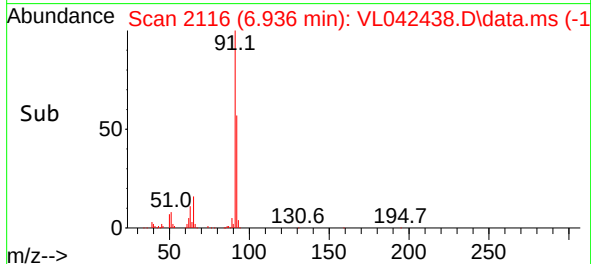
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



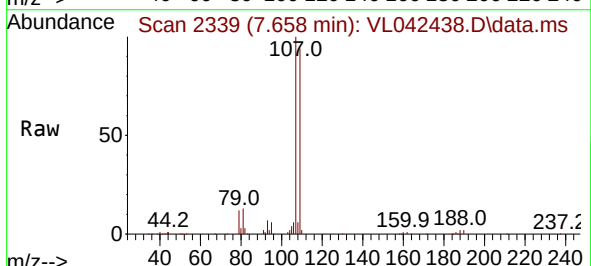
Tgt Ion: 91 Resp: 36370  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.2 72.4

Manual Integrations  
APPROVED

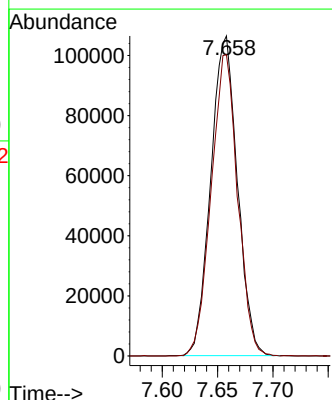
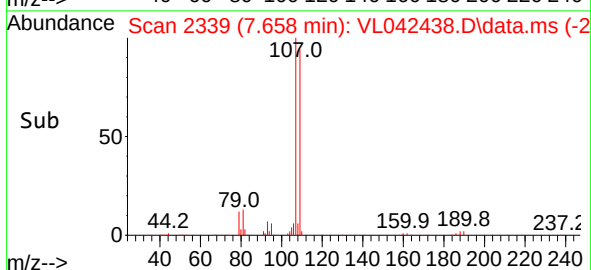
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

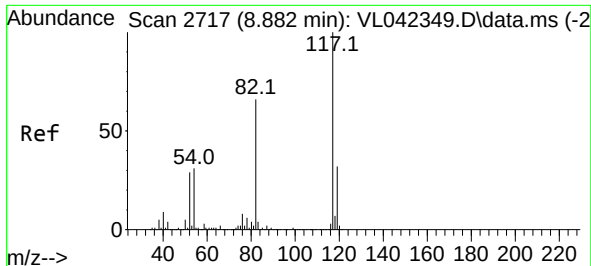


#54  
1,2-Dibromoethane  
Concen: 9.601 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. 0.006 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



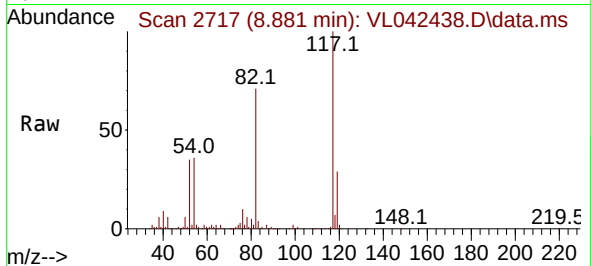
Tgt Ion:107 Resp: 178709  
Ion Ratio Lower Upper  
107 100  
109 94.3 78.2 117.4





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2717  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

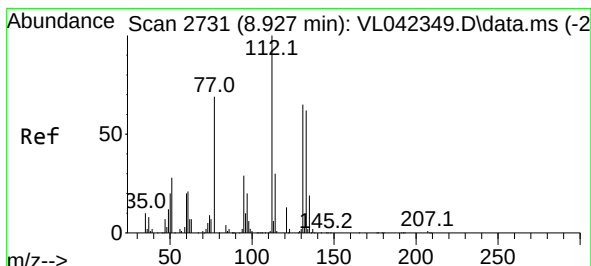
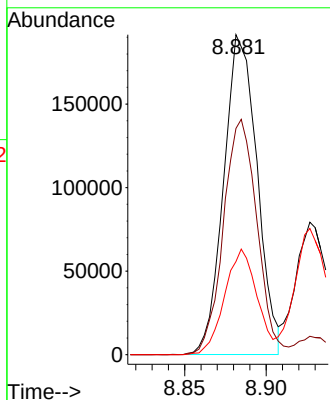
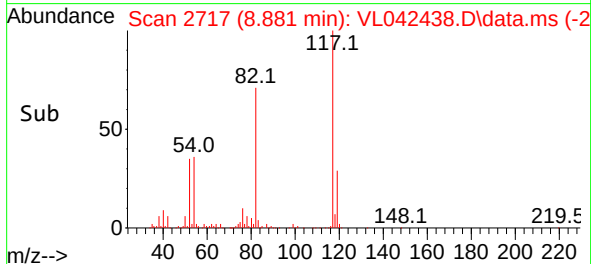
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



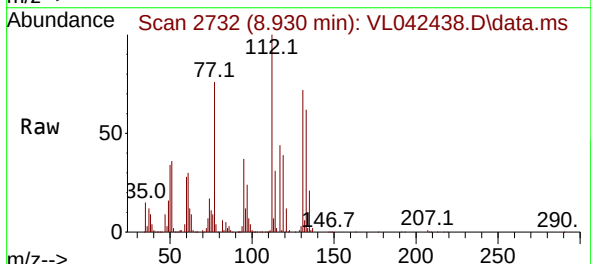
Tgt Ion:117 Resp: 27231  
Ion Ratio Lower Upper  
117 100  
82 79.2 57.8 86.6  
119 32.0 25.2 37.8

Manual Integrations  
APPROVED

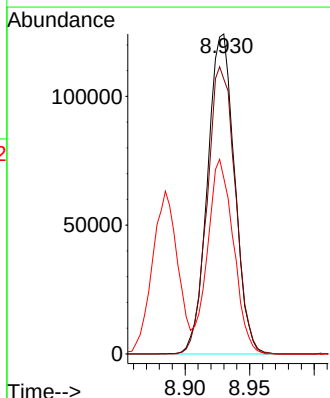
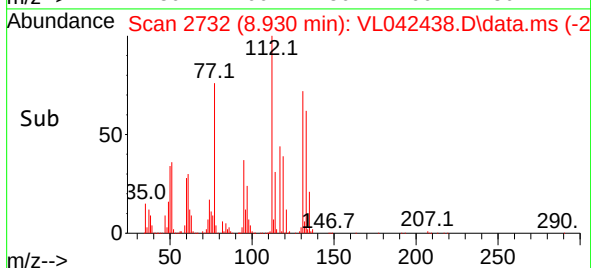
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

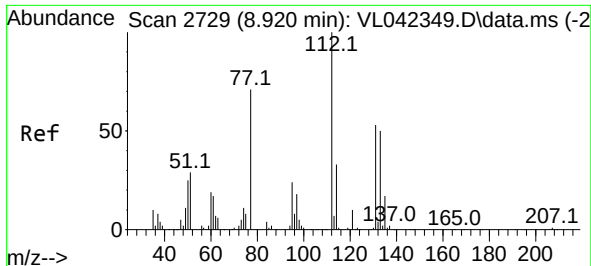


#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.981 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



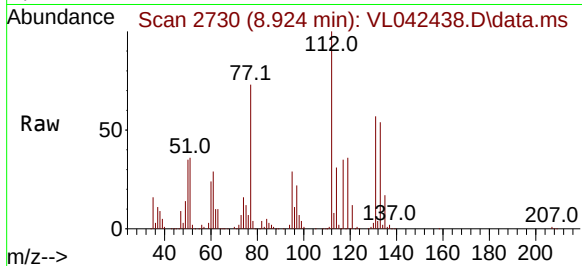
Tgt Ion:131 Resp: 180979  
Ion Ratio Lower Upper  
131 100  
133 93.2 78.3 117.5  
119 58.6 48.7 73.1





#57  
Chlorobenzene  
Concen: 10.270 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

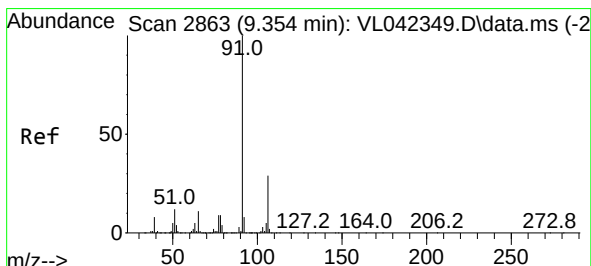
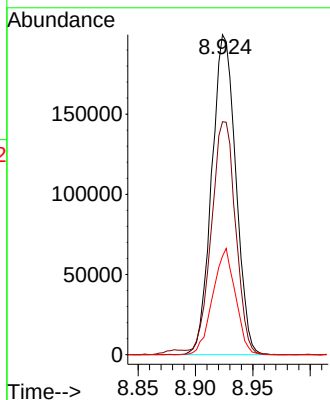
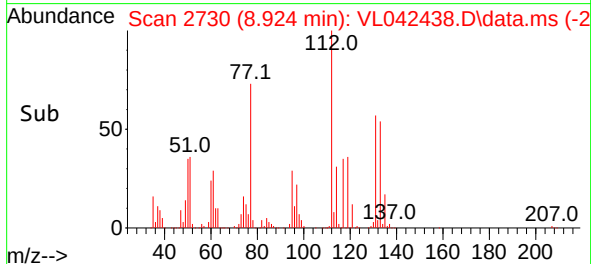
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



Tgt Ion: 112 Resp: 29086  
Ion Ratio Lower Upper  
112 100  
77 72.8 57.8 86.6  
114 30.8 29.3 35.9

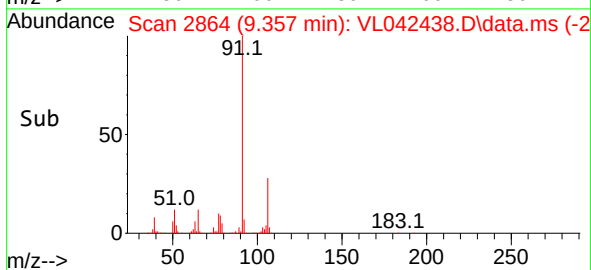
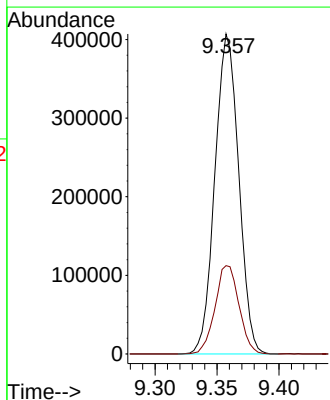
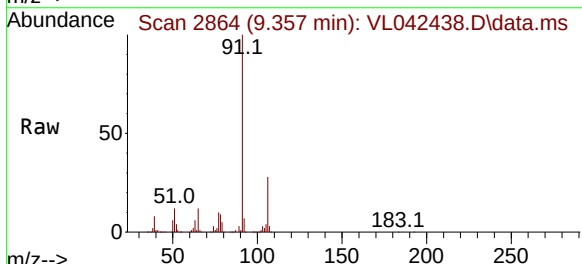
Manual Integrations  
APPROVED

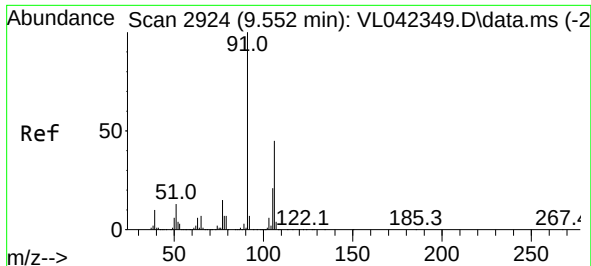
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#58  
Ethyl Benzene  
Concen: 10.111 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 545497  
Ion Ratio Lower Upper  
91 100  
106 27.6 23.0 34.4





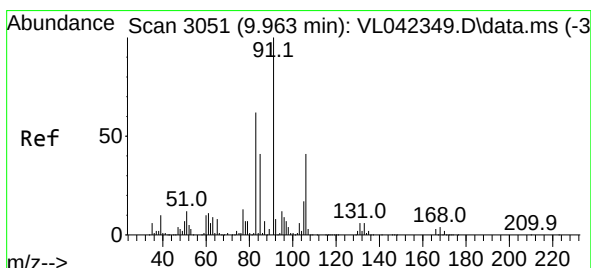
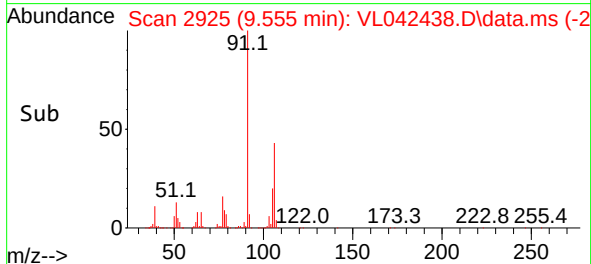
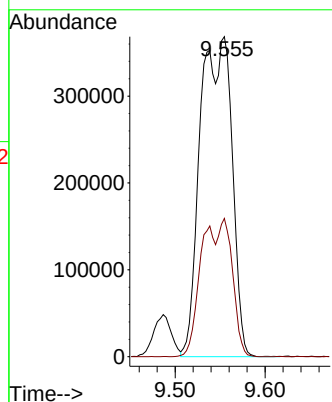
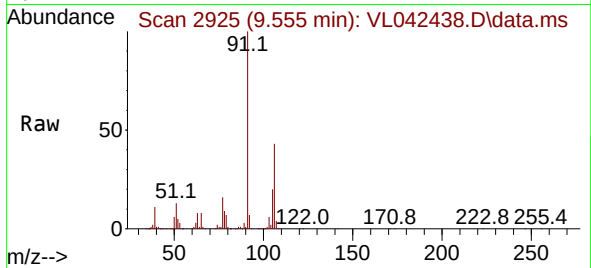
#59  
m/p-Xylene  
Concen: 20.857 ppbv m  
RT: 9.555 min Scan# 2924  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 91 Resp: 906532  
Ion Ratio Lower Upper  
91 100  
106 41.8 35.4 53.2

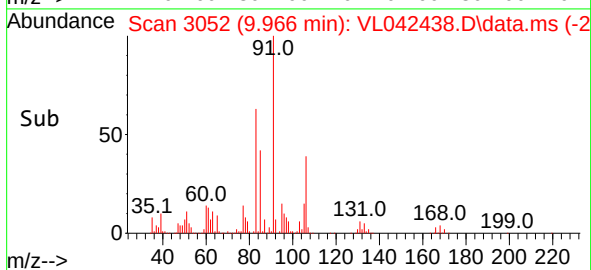
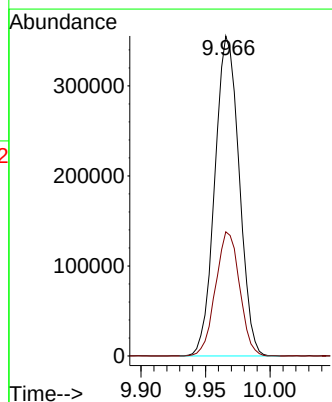
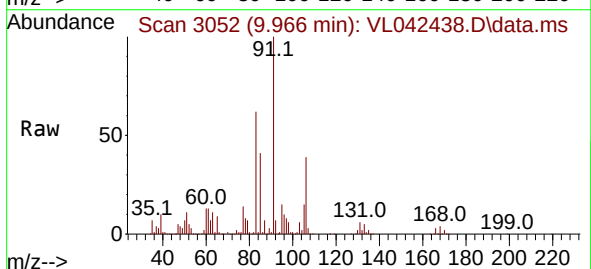
Manual Integrations  
APPROVED

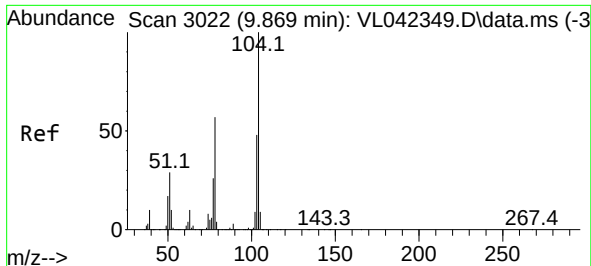
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#60  
o-Xylene  
Concen: 10.639 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 465645  
Ion Ratio Lower Upper  
91 100  
106 38.4 21.1 63.4





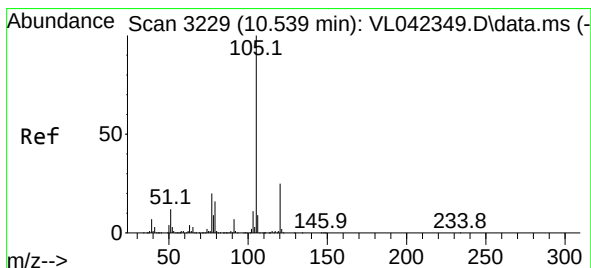
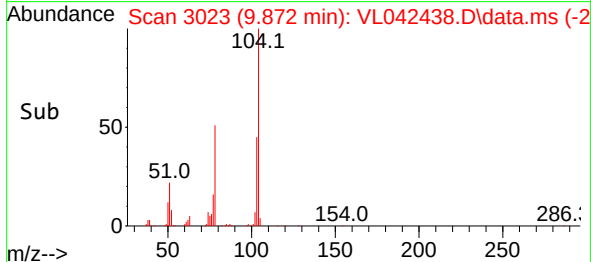
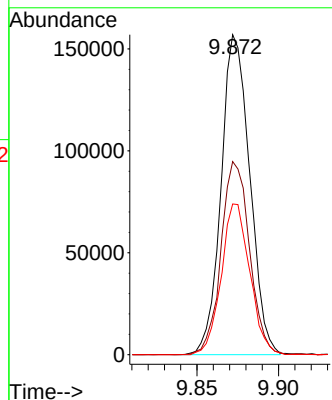
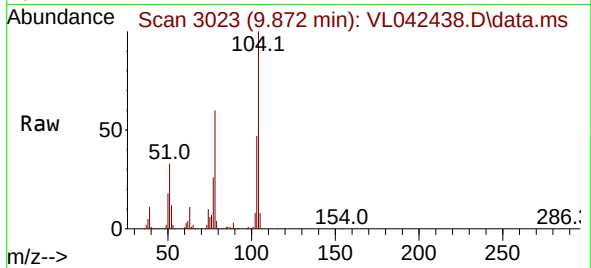
#61  
Styrene  
Concen: 9.178 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion:104 Resp: 19174  
Ion Ratio Lower Upper  
104 100  
78 60.1 44.6 66.8  
103 47.0 37.4 56.0

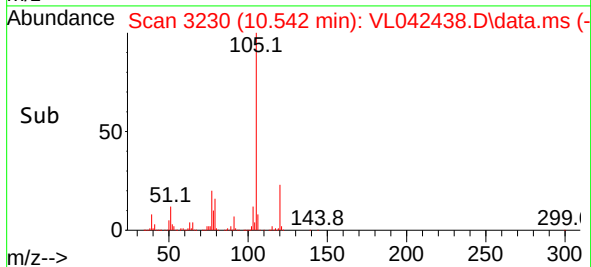
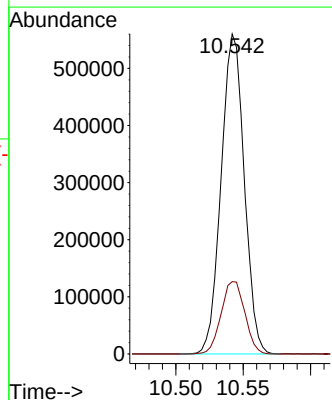
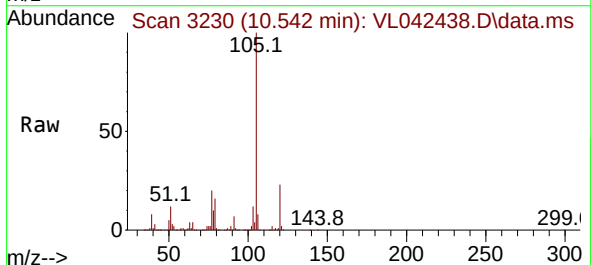
Manual Integrations  
APPROVED

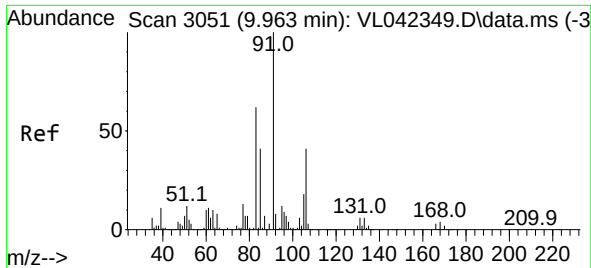
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#62  
Isopropylbenzene  
Concen: 10.393 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

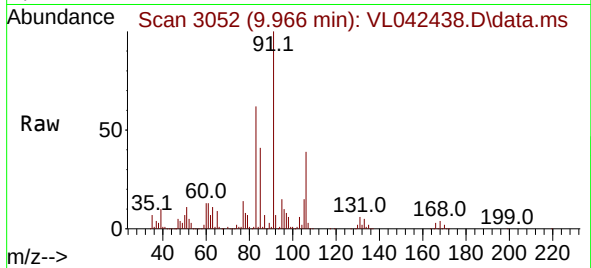
Tgt Ion:105 Resp: 667839  
Ion Ratio Lower Upper  
105 100  
120 23.2 19.8 29.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 9.819 ppbv  
RT: 9.966 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

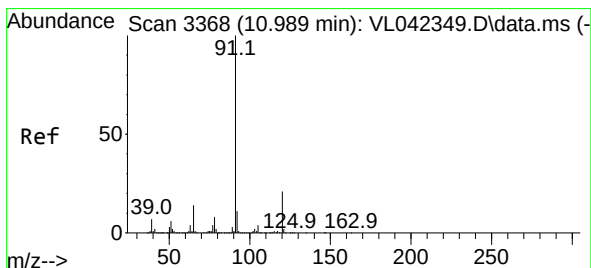
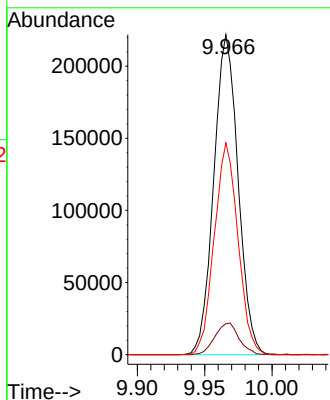
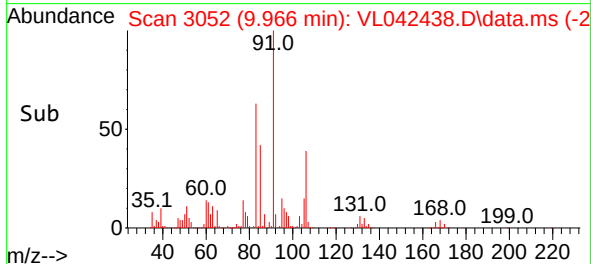
Instrument : MSVOA\_L  
ClientSampleId : VL0429ABS01



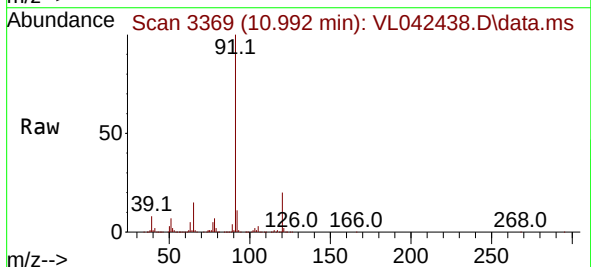
Tgt Ion: 83 Resp: 27849  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.5 13.7  
85 64.4 32.4 97.0

Manual Integrations  
APPROVED

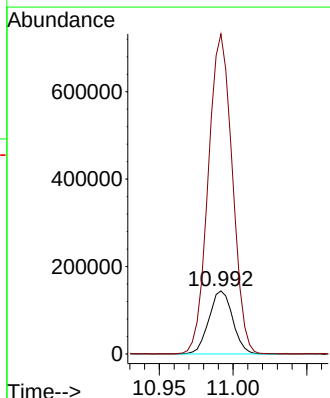
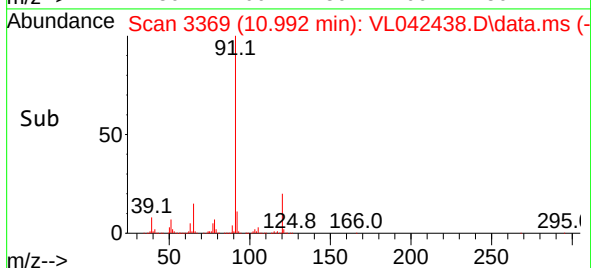
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

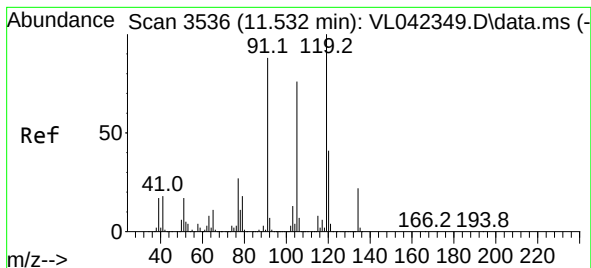


#64  
n-propylbenzene  
Concen: 9.987 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



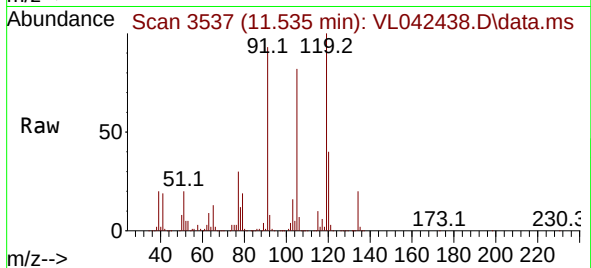
Tgt Ion:120 Resp: 161309  
Ion Ratio Lower Upper  
120 100  
91 515.8 392.4 588.6





#65  
tert-Butylbenzene  
Concen: 10.260 ppbv  
RT: 11.535 min Scan# 3536  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

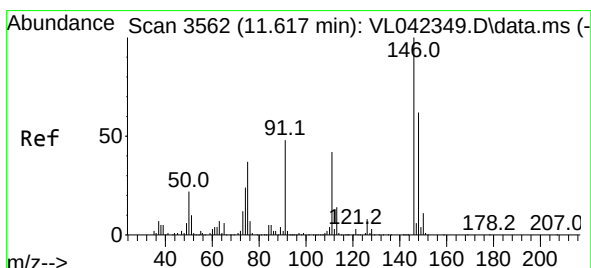
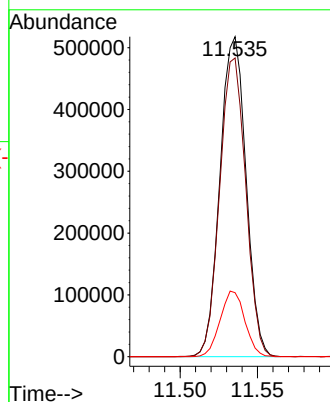
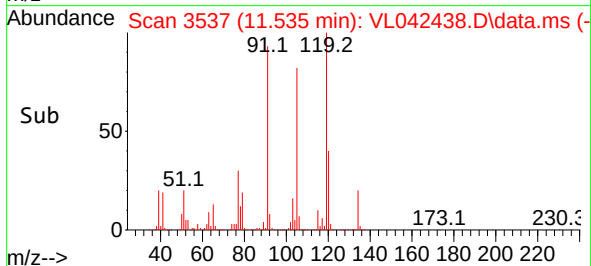
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



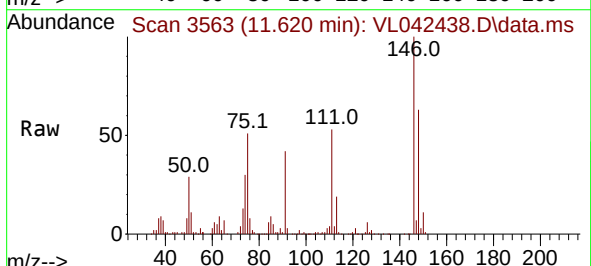
Tgt Ion: 119 Resp: 605972  
Ion Ratio Lower Upper  
119 100  
91 93.3 74.6 111.8  
134 19.5 18.8 28.2

Manual Integrations  
APPROVED

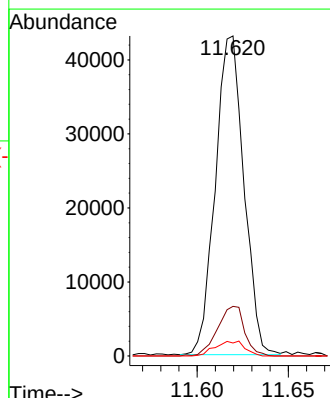
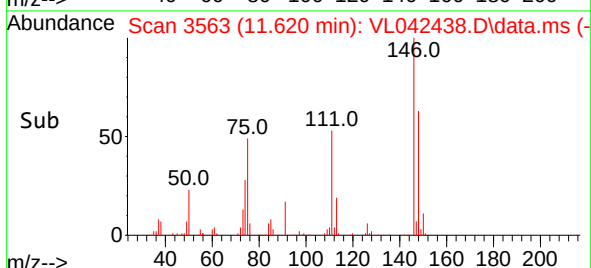
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



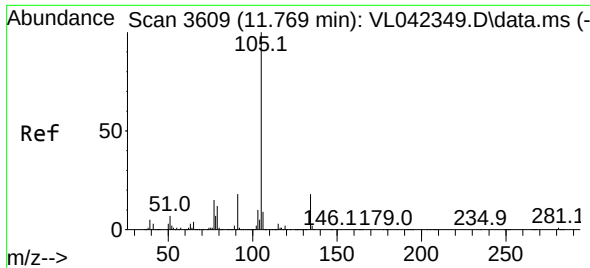
#66  
Benzyl Chloride  
Concen: 7.229 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



Tgt Ion: 91 Resp: 46913  
Ion Ratio Lower Upper  
91 100  
126 14.8 11.8 17.6  
128 4.8 4.5 6.7

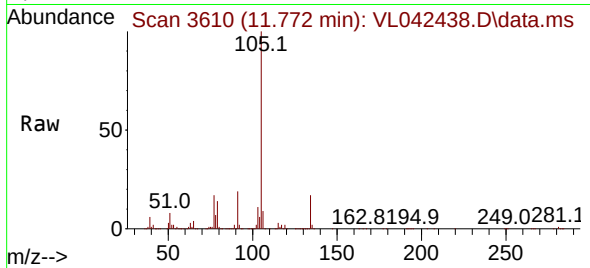






#67  
 sec-Butylbenzene  
 Concen: 10.569 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

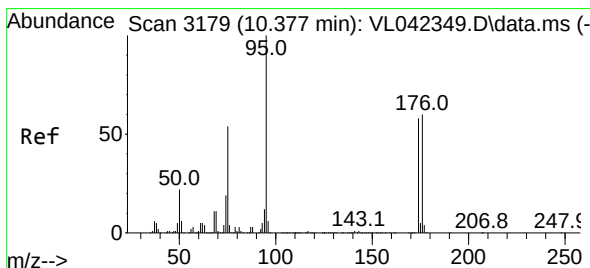
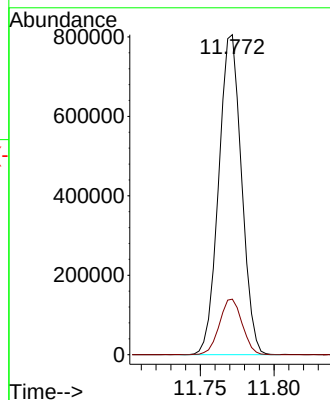
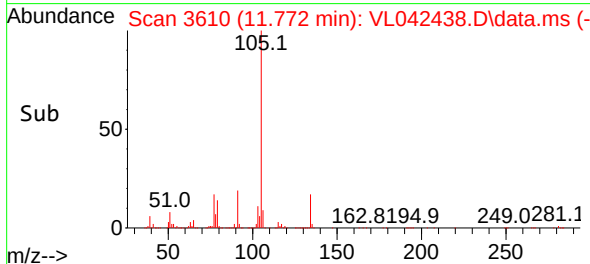
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01



Tgt Ion:105 Resp: 868275  
 Ion Ratio Lower Upper  
 105 100  
 134 17.3 14.6 21.8

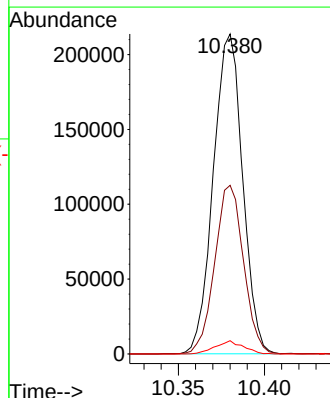
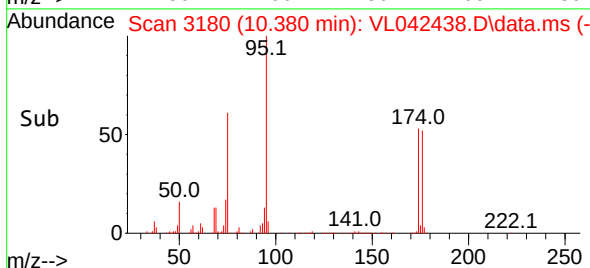
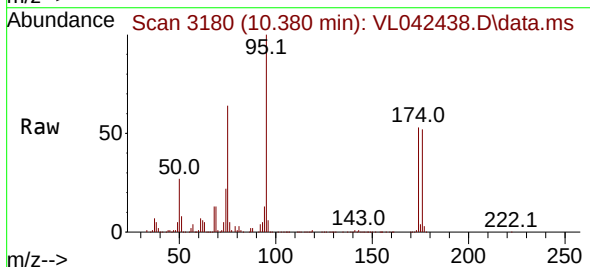
Manual Integrations  
 APPROVED

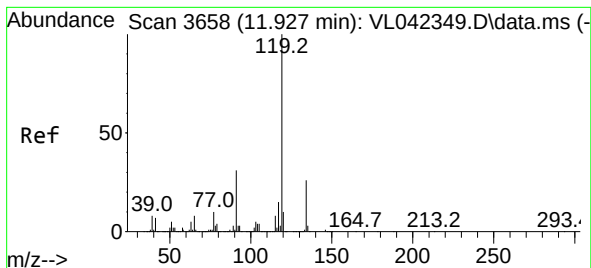
Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.307 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

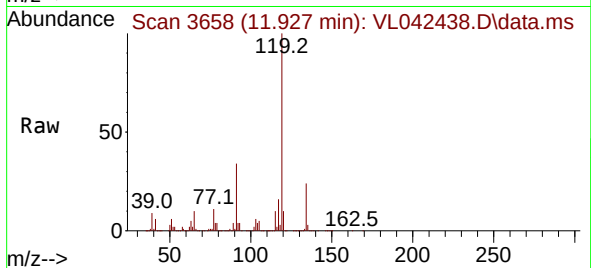
Tgt Ion: 95 Resp: 253021  
 Ion Ratio Lower Upper  
 95 100  
 174 52.0 48.5 72.7  
 175 3.9 3.7 5.5





#69  
p-Isopropyltoluene  
Concen: 10.282 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

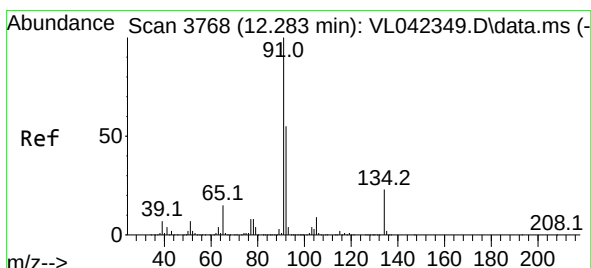
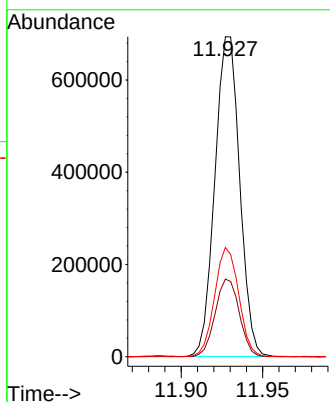
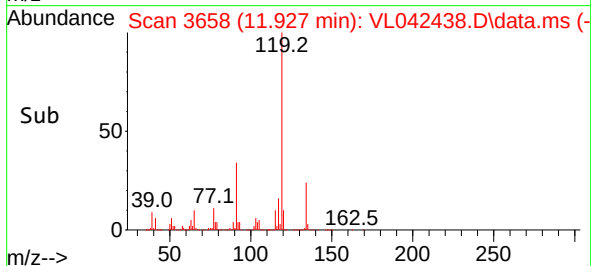
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



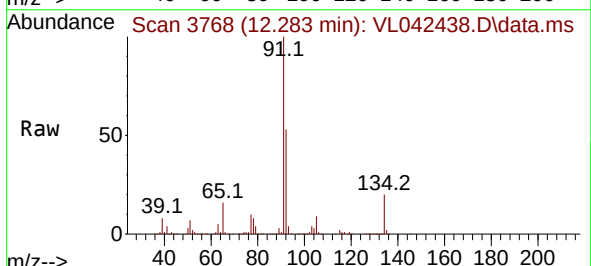
Tgt Ion:119 Resp: 733790  
Ion Ratio Lower Upper  
119 100  
134 23.7 20.0 30.0  
91 33.4 24.4 36.6

Manual Integrations  
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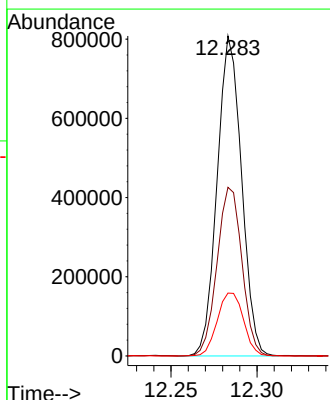
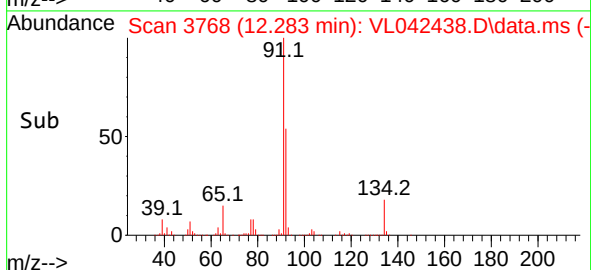
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

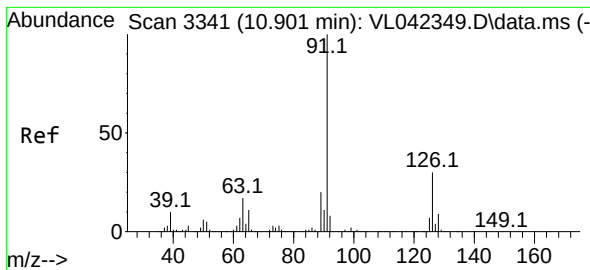


#70  
n-Butylbenzene  
Concen: 10.717 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



Tgt Ion: 91 Resp: 796622  
Ion Ratio Lower Upper  
91 100  
92 54.1 44.2 66.4  
134 21.1 18.2 27.4





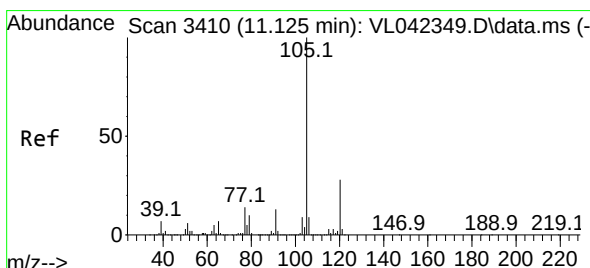
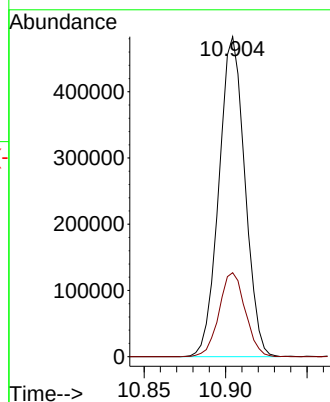
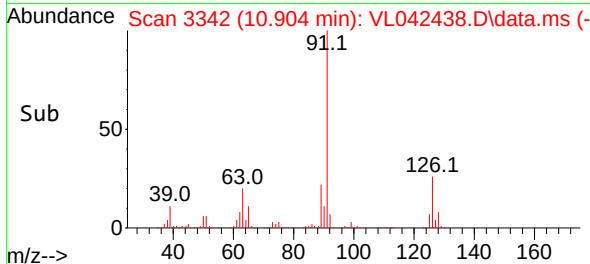
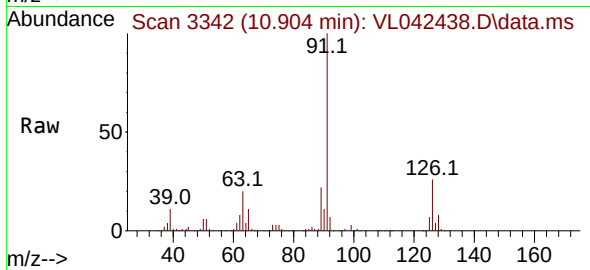
#71  
2-Chlorotoluene  
Concen: 10.614 ppbv  
RT: 10.904 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 91 Resp: 53495  
Ion Ratio Lower Upper  
91 100  
126 26.4 11.4 45.4

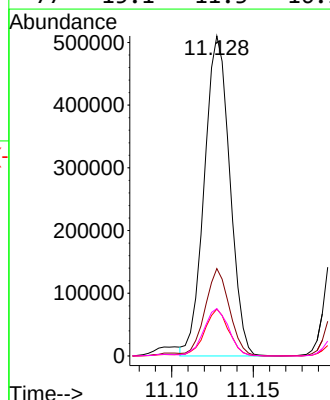
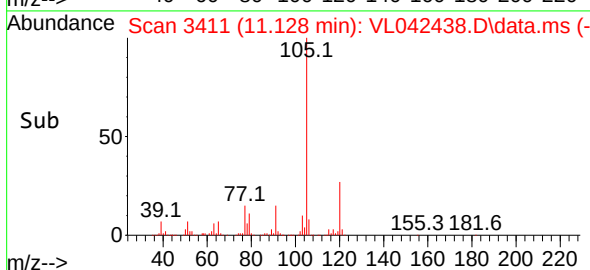
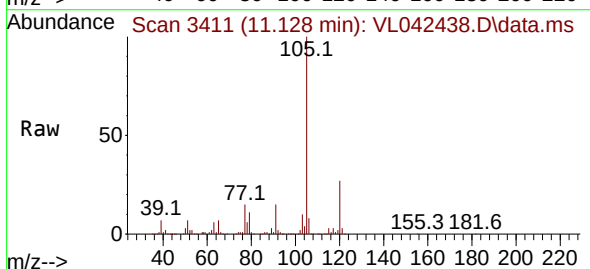
Manual Integrations  
APPROVED

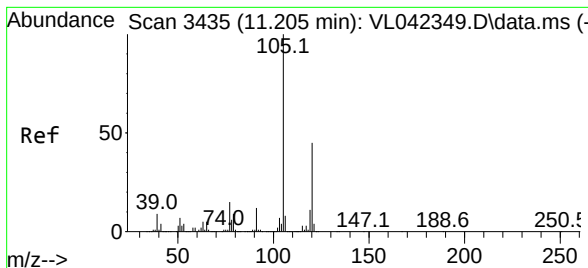
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#72  
4-Ethyltoluene  
Concen: 10.351 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 553879  
Ion Ratio Lower Upper  
105 100  
120 26.9 23.2 34.8  
91 14.3 10.4 15.6  
77 15.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.403 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

Tgt Ion:105 Resp: 491459

Ion Ratio Lower Upper

105 100

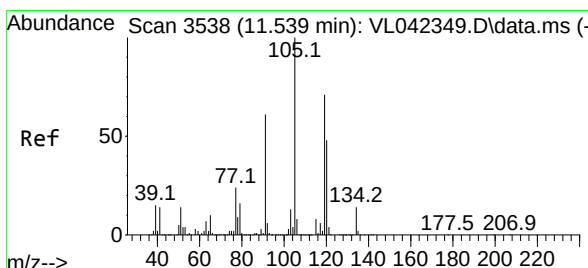
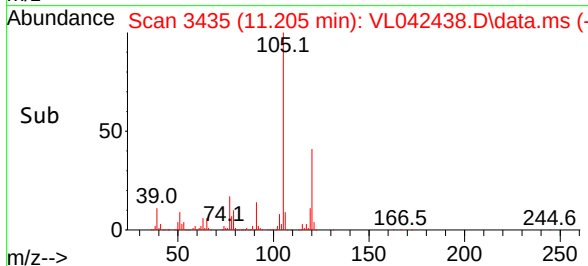
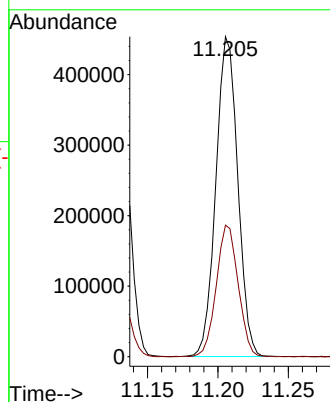
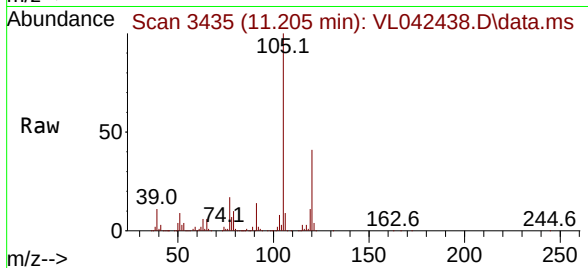
120 41.1 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 9.939 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 548408

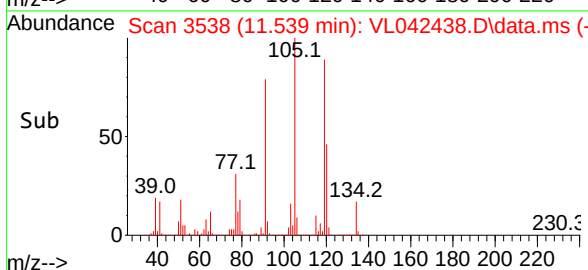
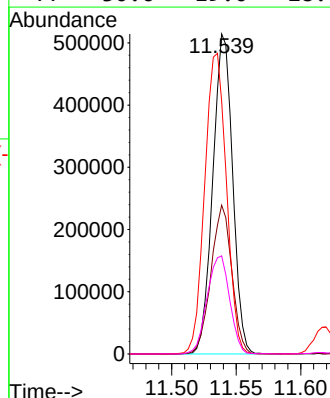
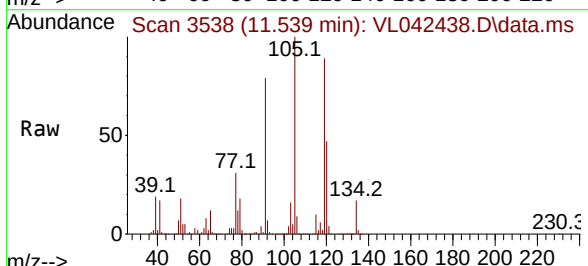
Ion Ratio Lower Upper

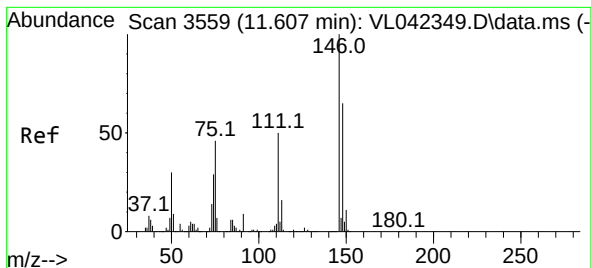
105 100

120 46.5 38.1 57.1

91 79.0 48.8 73.2#

77 30.6 19.0 28.4#





#75

1,3-Dichlorobenzene

Concen: 9.931 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

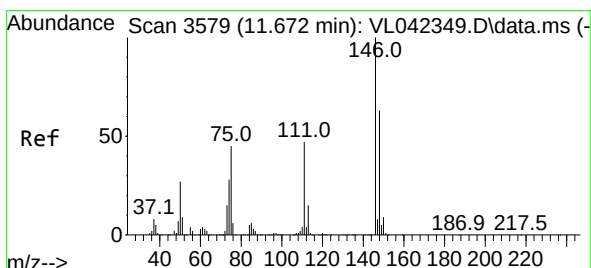
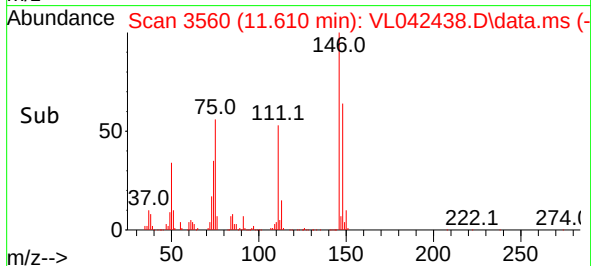
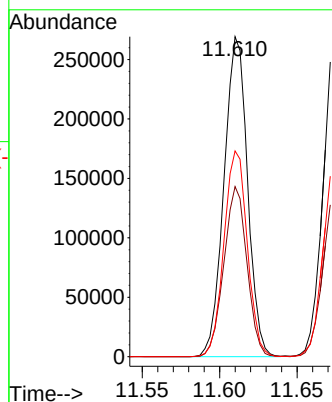
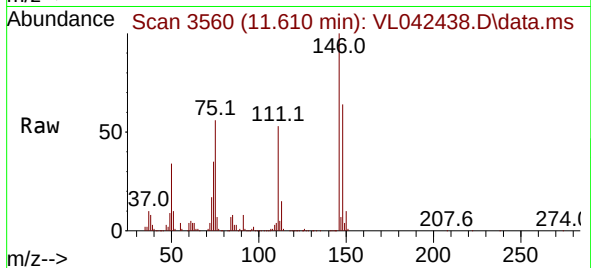
VL0429ABS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 284809 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 52.1  | 24.3  | 72.8   |
| 148      | 63.8  | 31.6  | 94.8   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#76

1,4-Dichlorobenzene

Concen: 9.907 ppbv

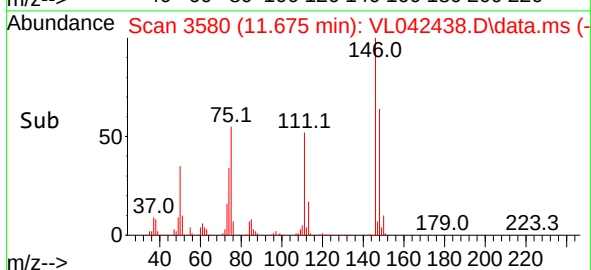
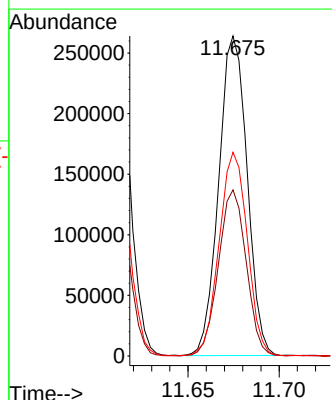
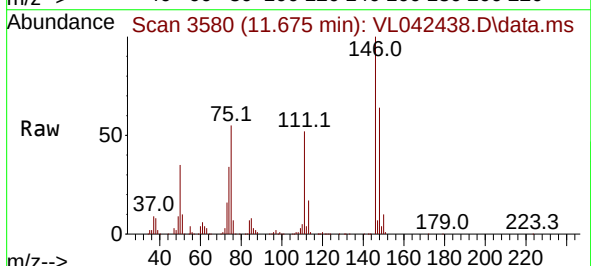
RT: 11.675 min Scan# 3580

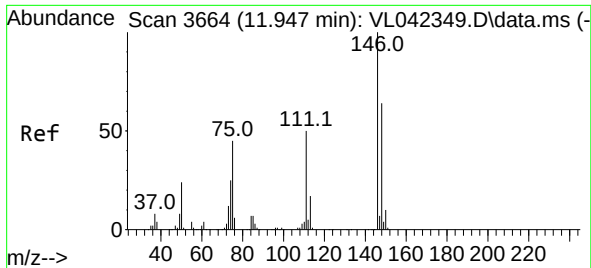
Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

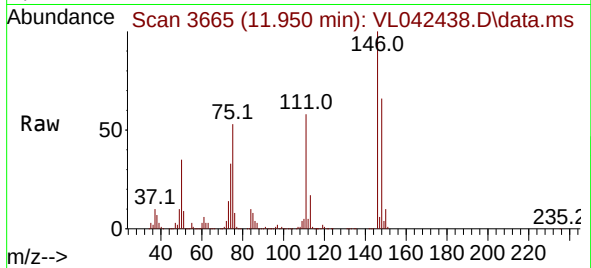
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 285571 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 51.1  | 24.2  | 72.6   |
| 148      | 63.6  | 32.1  | 96.5   |





#77  
1,2-Dichlorobenzene  
Concen: 10.128 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

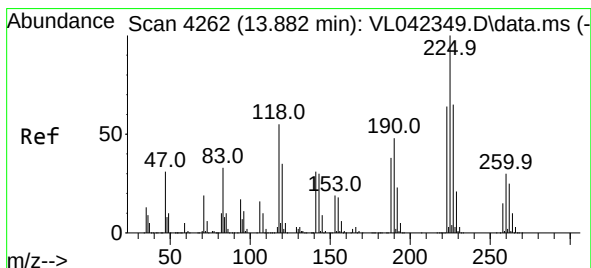
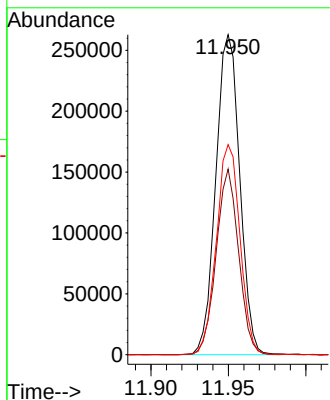
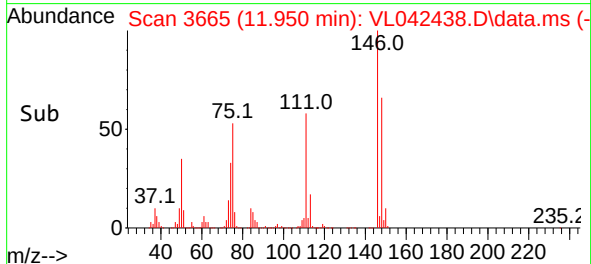
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



Tgt Ion:146 Resp: 282424  
Ion Ratio Lower Upper  
146 100  
111 54.6 25.3 75.9  
148 64.8 31.5 94.5

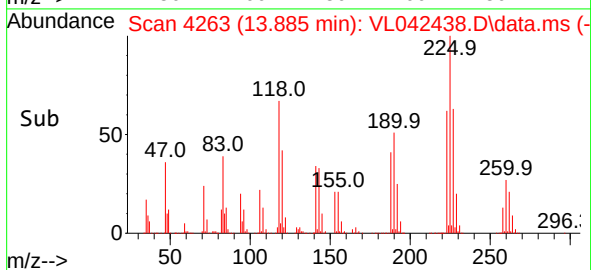
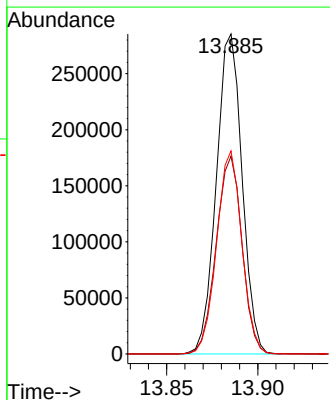
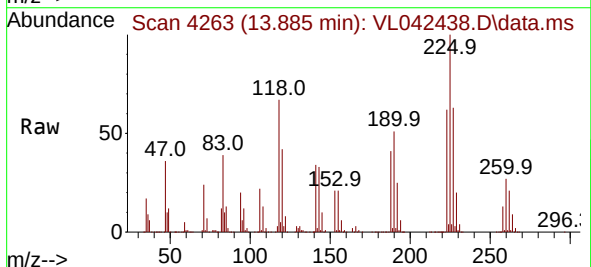
Manual Integrations  
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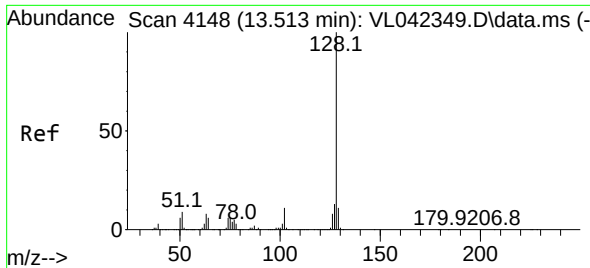
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 9.977 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

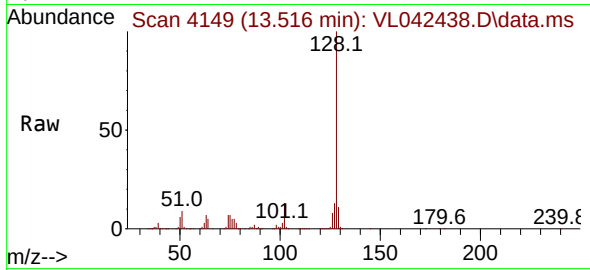
Tgt Ion:225 Resp: 280954  
Ion Ratio Lower Upper  
225 100  
223 61.8 50.3 75.5  
227 61.9 51.5 77.3





#79  
Naphthalene  
Concen: 9.425 ppbv  
RT: 13.516 min Scan# 4148  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

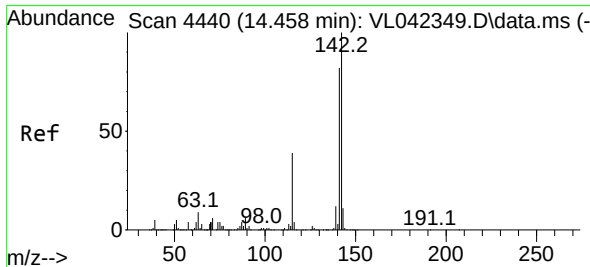
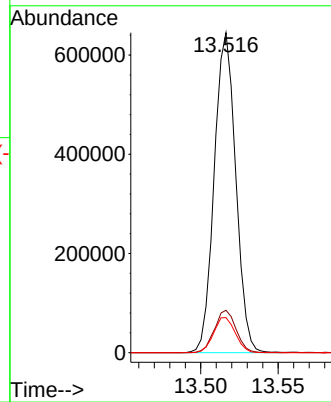
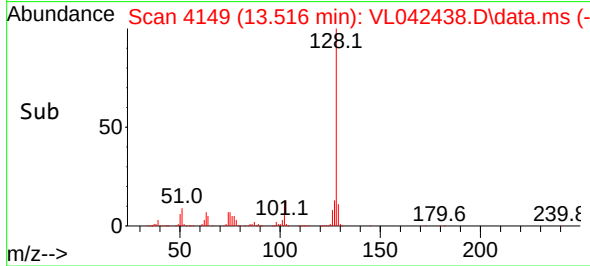
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01



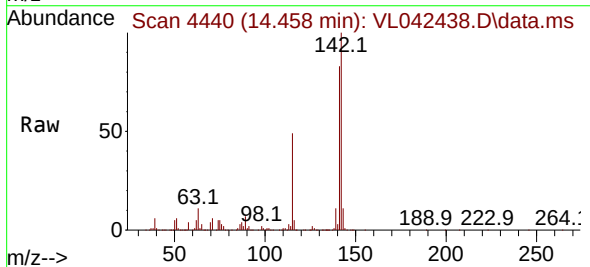
Tgt Ion:128 Resp: 621879  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 11.0 8.6 12.8

Manual Integrations  
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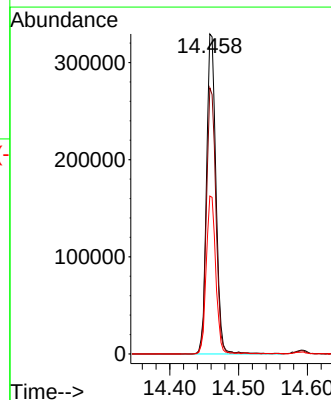
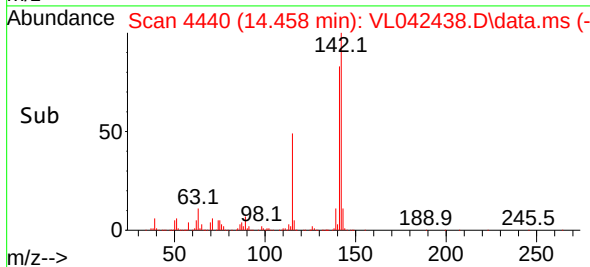
Reviewed By :Semsettin Yesilyurt 04/30/2025  
Supervised By :Mahesh Dadoda 04/30/2025

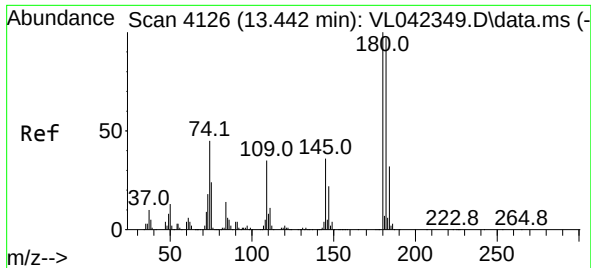


#80  
Naphthalene,2-methyl-  
Concen: 8.317 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08



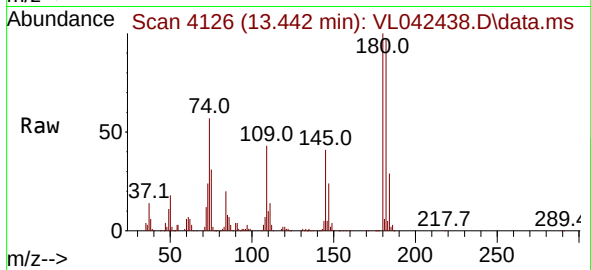
Tgt Ion:142 Resp: 312733  
Ion Ratio Lower Upper  
142 100  
141 84.1 66.8 100.2  
115 49.9 33.4 50.2





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.498 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

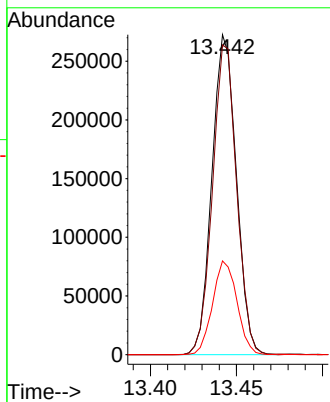
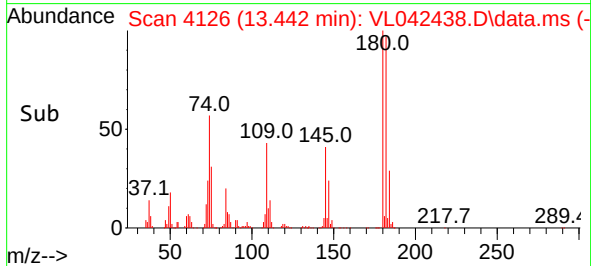
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01



Tgt Ion:180 Resp: 26908  
 Ion Ratio Lower Upper  
 180 100  
 182 95.8 76.8 115.2  
 184 29.3 24.6 36.8

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 04/30/2025  
 Supervised By :Mahesh Dadoda 04/30/2025





## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL041725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter               | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-------------|------------|-------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDICCC010 | VL042349.D | m/p-Xylene              | SAM       | 4/18/2025 4:19:07 PM | MMDadoda      | 4/18/2025 10:45:20 PM | Peak Integrated by Software |
| VSTDICCC002 | VL042350.D | 1,4-Dioxane             | SAM       | 4/18/2025 4:19:12 PM | MMDadoda      | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICCC002 | VL042350.D | cis-1,3-Dichloropropene | SAM       | 4/18/2025 4:19:12 PM | MMDadoda      | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICCC002 | VL042350.D | Ethanol                 | SAM       | 4/18/2025 4:19:12 PM | MMDadoda      | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICCC002 | VL042350.D | Heptane                 | SAM       | 4/18/2025 4:19:12 PM | MMDadoda      | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICCC002 | VL042350.D | m/p-Xylene              | SAM       | 4/18/2025 4:19:12 PM | MMDadoda      | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICCC002 | VL042350.D | Trichloroethene         | SAM       | 4/18/2025 4:19:12 PM | MMDadoda      | 4/18/2025 10:45:17 PM | Peak Integrated by Software |
| VSTDICCC001 | VL042351.D | 1,1,2-Trichloroethane   | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICCC001 | VL042351.D | 1,3-Butadiene           | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICCC001 | VL042351.D | 1,4-Dioxane             | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICCC001 | VL042351.D | 2,2,4-Trimethylpentane  | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICCC001 | VL042351.D | cis-1,3-Dichloropropene | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDICCC001 | VL042351.D | Cyclohexane             | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL041725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter               | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-----------|------------|-------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDIC001 | VL042351.D | Ethanol                 | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDIC001 | VL042351.D | Heptane                 | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDIC001 | VL042351.D | m/p-Xylene              | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDIC001 | VL042351.D | Methyl Methacrylate     | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDIC001 | VL042351.D | t-1,3-Dichloropropene   | SAM       | 4/18/2025 4:19:17 PM | MMDadoda      | 4/18/2025 10:45:15 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | 1,1,2-Trichloroethane   | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | 1,2-Dichloropropane     | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | 1,4-Dioxane             | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | 4-Methyl-2-Pentanone    | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | Chlorobenzene           | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | cis-1,3-Dichloropropene | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | Ethanol                 | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDIC0.5 | VL042352.D | Heptane                 | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL041725 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                 | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-------------|------------|---------------------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDICC0.5  | VL042352.D | m/p-Xylene                | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5  | VL042352.D | Methyl Methacrylate       | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5  | VL042352.D | t-1,3-Dichloropropene     | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.5  | VL042352.D | Tetrahydrofuran           | SAM       | 4/18/2025 4:20:33 PM | MMDadoda      | 4/18/2025 10:45:07 PM | Peak Integrated by Software |
| VSTDICC0.1  | VL042353.D | 1,1,1-Trichloroethane     | SAM       | 4/18/2025 4:20:37 PM | MMDadoda      | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1  | VL042353.D | 1,1,2,2-Tetrachloroethane | SAM       | 4/18/2025 4:20:37 PM | MMDadoda      | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1  | VL042353.D | 1,2-Dibromoethane         | SAM       | 4/18/2025 4:20:37 PM | MMDadoda      | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1  | VL042353.D | Tetrachloroethene         | SAM       | 4/18/2025 4:20:37 PM | MMDadoda      | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.1  | VL042353.D | Trichloroethene           | SAM       | 4/18/2025 4:20:37 PM | MMDadoda      | 4/18/2025 10:45:04 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | 1,1,1-Trichloroethane     | SAM       | 4/18/2025 4:19:24 PM | MMDadoda      | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | 1,1,2,2-Tetrachloroethane | SAM       | 4/18/2025 4:19:24 PM | MMDadoda      | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | Carbon Tetrachloride      | SAM       | 4/18/2025 4:19:24 PM | MMDadoda      | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC0.03 | VL042354.D | Tetrachloroethene         | SAM       | 4/18/2025 4:19:24 PM | MMDadoda      | 4/18/2025 10:45:02 PM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

vl041725

Instrument

MSVOA\_I

| Sample ID   | File ID    | Parameter       | Review By | Review On            | Supervised By | Supervised On         | Reason                      |
|-------------|------------|-----------------|-----------|----------------------|---------------|-----------------------|-----------------------------|
| VSTDICC0.03 | VL042354.D | Trichloroethene | SAM       | 4/18/2025 4:19:24 PM | MMDadoda      | 4/18/2025 10:45:02 PM | Peak Integrated by Software |
| VSTDICC015  | VL042355.D | m/p-Xylene      | SAM       | 4/18/2025 4:21:35 PM | MMDadoda      | 4/18/2025 10:44:59 PM | Peak Integrated by Software |
| VSTDICV010  | VL042356.D | m/p-Xylene      | SAM       | 4/18/2025 4:20:42 PM | MMDadoda      | 4/18/2025 10:44:57 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL042925 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter             | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|-----------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDCCC010  | VL042436.D | 1,1,2-Trichloroethane | SAM       | 4/30/2025 7:49:08 AM | MMDadoda      | 4/30/2025 2:26:33 PM | Peak Integrated by Software |
| VSTDCCC010  | VL042436.D | m/p-Xylene            | SAM       | 4/30/2025 7:49:08 AM | MMDadoda      | 4/30/2025 2:26:33 PM | Peak Integrated by Software |
| VL0429ABS01 | VL042438.D | m/p-Xylene            | SAM       | 4/30/2025 7:49:14 AM | MMDadoda      | 4/30/2025 2:26:38 PM | Peak Integrated by Software |
| VL0429ABS01 | VL042438.D | Methyl Methacrylate   | SAM       | 4/30/2025 7:49:14 AM | MMDadoda      | 4/30/2025 2:26:38 PM | Peak Integrated by Software |
| Q1908-01    | VL042443.D | Chlorodifluoromethane | SAM       | 4/30/2025 7:51:56 AM | MMDadoda      | 4/30/2025 2:27:05 PM | Peak Integrated by Software |
| Q1908-01    | VL042443.D | Hexane                | SAM       | 4/30/2025 7:51:56 AM | MMDadoda      | 4/30/2025 2:27:05 PM | Peak Integrated by Software |
| Q1908-01    | VL042443.D | Tetrachloroethene     | SAM       | 4/30/2025 7:51:56 AM | MMDadoda      | 4/30/2025 2:27:05 PM | Peak Integrated by Software |
| Q1908-01    | VL042443.D | Toluene               | SAM       | 4/30/2025 7:51:56 AM | MMDadoda      | 4/30/2025 2:27:05 PM | Peak Integrated by Software |
| Q1908-03    | VL042445.D | Carbon Tetrachloride  | SAM       | 4/30/2025 7:51:26 AM | MMDadoda      | 4/30/2025 2:27:19 PM | Peak Integrated by Software |
| Q1908-03    | VL042445.D | Chlorodifluoromethane | SAM       | 4/30/2025 7:51:26 AM | MMDadoda      | 4/30/2025 2:27:19 PM | Peak Integrated by Software |
| Q1908-03    | VL042445.D | Isopropyl Alcohol     | SAM       | 4/30/2025 7:51:26 AM | MMDadoda      | 4/30/2025 2:27:19 PM | Peak Integrated by Software |
| Q1908-01DUP | VL042454.D | Carbon Tetrachloride  | SAM       | 4/30/2025 7:53:16 AM | MMDadoda      | 4/30/2025 2:27:58 PM | Peak Integrated by Software |
| Q1908-01DUP | VL042454.D | Chlorodifluoromethane | SAM       | 4/30/2025 7:53:16 AM | MMDadoda      | 4/30/2025 2:27:58 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl042925 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| Q1908-01DUP | VL042454.D | Tetrachloroethene      | SAM       | 4/30/2025 7:53:16 AM | MMDadoda      | 4/30/2025 2:27:58 PM | Peak Integrated by Software |
| Q1908-01DUP | VL042454.D | Toluene                | SAM       | 4/30/2025 7:53:16 AM | MMDadoda      | 4/30/2025 2:27:58 PM | Peak Integrated by Software |
| Q1908-01DUP | VL042454.D | Trichlorofluoromethane | SAM       | 4/30/2025 7:53:16 AM | MMDadoda      | 4/30/2025 2:27:58 PM | Peak Integrated by Software |
| Q1908-02    | VL042456.D | Carbon Tetrachloride   | SAM       | 4/30/2025 7:49:27 AM | MMDadoda      | 4/30/2025 2:28:06 PM | Peak Integrated by Software |
| Q1908-02    | VL042456.D | Chlorodifluoromethane  | SAM       | 4/30/2025 7:49:27 AM | MMDadoda      | 4/30/2025 2:28:06 PM | Peak Integrated by Software |

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041725**

|                          |                     |                      |                       |                      |               |
|--------------------------|---------------------|----------------------|-----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 4/18/2025 4:23:02 PM  |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 4/18/2025 10:46:12 PM |                      |               |
| SubDirectory             | VL041725            | HP Acquire Method    | TO15AIR.M             | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                     | STD REF.#            |                       |                      |               |
| Tune/Reschk              |                     | AP2590               |                       |                      |               |
| Initial Calibration Stds |                     | AP2598,AP2599,AP2600 |                       |                      |               |
| CCC                      |                     | AP2598               |                       |                      |               |
| Internal Standard/PEM    |                     | AP2590               |                       |                      |               |
| ICV/I.BLK                |                     | AP2601               |                       |                      |               |
| Surrogate Standard       |                     |                      |                       |                      |               |
| MS/MSD Standard          |                     |                      |                       |                      |               |
| LCS Standard             |                     |                      |                       |                      |               |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | BFB          | VL042348.D     | 17 Apr 2025 07:50 | SY/MD    | Ok       |
| 2   | VSTDICCC010  | VL042349.D     | 17 Apr 2025 09:44 | SY/MD    | Ok,M     |
| 3   | VSTDICCC002  | VL042350.D     | 17 Apr 2025 10:17 | SY/MD    | Ok,M     |
| 4   | VSTDICCC001  | VL042351.D     | 17 Apr 2025 10:48 | SY/MD    | Ok,M     |
| 5   | VSTDICCC0.5  | VL042352.D     | 17 Apr 2025 11:19 | SY/MD    | Ok,M     |
| 6   | VSTDICCC0.1  | VL042353.D     | 17 Apr 2025 11:50 | SY/MD    | Ok,M     |
| 7   | VSTDICCC0.03 | VL042354.D     | 17 Apr 2025 12:22 | SY/MD    | Ok,M     |
| 8   | VSTDICCC015  | VL042355.D     | 17 Apr 2025 12:54 | SY/MD    | Ok,M     |
| 9   | VSTDICV010   | VL042356.D     | 17 Apr 2025 13:43 | SY/MD    | Ok,M     |
| 10  | VL0417ABL01  | VL042357.D     | 17 Apr 2025 14:23 | SY/MD    | Ok       |
| 11  | VL0417ABS01  | VL042358.D     | 17 Apr 2025 15:39 | SY/MD    | Ok,M     |
| 12  | Q1665-15     | VL042359.D     | 17 Apr 2025 16:12 | SY/MD    | Dilution |
| 13  | Q1665-15DL   | VL042360.D     | 17 Apr 2025 16:44 | SY/MD    | Ok,M     |
| 14  | Q1668-01     | VL042361.D     | 17 Apr 2025 17:17 | SY/MD    | Dilution |
| 15  | Q1668-01DUP  | VL042362.D     | 17 Apr 2025 17:51 | SY/MD    | Ok,M     |
| 16  | Q1668-03     | VL042363.D     | 17 Apr 2025 18:24 | SY/MD    | Dilution |
| 17  | Q1668-04     | VL042364.D     | 17 Apr 2025 18:58 | SY/MD    | Ok,M     |
| 18  | Q1668-02     | VL042365.D     | 17 Apr 2025 19:31 | SY/MD    | Ok,M     |
| 19  | Q1726-01     | VL042366.D     | 17 Apr 2025 20:05 | SY/MD    | Dilution |
| 20  | Q1726-02     | VL042367.D     | 17 Apr 2025 20:38 | SY/MD    | Dilution |
| 21  | Q1726-03     | VL042368.D     | 17 Apr 2025 21:12 | SY/MD    | Dilution |

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041725**

| Review By                | Semsettin Yesilyurt  | Review On         | 4/18/2025 4:23:02 PM  |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Supervise By             | Maresh Dadoda        | Supervise On      | 4/18/2025 10:46:12 PM |                      |               |
| SubDirectory             | VL041725             | HP Acquire Method | TO15AIR.M             | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                      | STD REF.#         |                       |                      |               |
| Tune/Reschk              | AP2590               |                   |                       |                      |               |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |                   |                       |                      |               |
| CCC                      | AP2598               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2590               |                   |                       |                      |               |
| ICV/I.BLK                | AP2601               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

|    |            |            |                   |       |          |
|----|------------|------------|-------------------|-------|----------|
| 22 | Q1726-04   | VL042369.D | 17 Apr 2025 21:45 | SY/MD | Dilution |
| 23 | Q1726-05   | VL042370.D | 17 Apr 2025 22:19 | SY/MD | Dilution |
| 24 | Q1726-06   | VL042371.D | 17 Apr 2025 22:52 | SY/MD | Dilution |
| 25 | Q1726-07   | VL042372.D | 17 Apr 2025 23:26 | SY/MD | Dilution |
| 26 | Q1726-07DL | VL042373.D | 17 Apr 2025 23:57 | SY/MD | Dilution |
| 27 | Q1668-01DL | VL042374.D | 18 Apr 2025 00:28 | SY/MD | Ok,M     |
| 28 | Q1668-03DL | VL042375.D | 18 Apr 2025 00:59 | SY/MD | Ok,M     |
| 29 | Q1726-01DL | VL042376.D | 18 Apr 2025 01:30 | SY/MD | Dilution |
| 30 | Q1726-02DL | VL042377.D | 18 Apr 2025 02:01 | SY/MD | Dilution |
| 31 | Q1726-03DL | VL042378.D | 18 Apr 2025 02:32 | SY/MD | Dilution |
| 32 | Q1726-04DL | VL042379.D | 18 Apr 2025 03:03 | SY/MD | Dilution |
| 33 | Q1726-05DL | VL042380.D | 18 Apr 2025 03:34 | SY/MD | Dilution |
| 34 | Q1726-06DL | VL042381.D | 18 Apr 2025 04:05 | SY/MD | Dilution |

M : Manual Integration



Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL042925**

|                          |                      |                   |                      |                      |               |
|--------------------------|----------------------|-------------------|----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt  | Review On         | 4/30/2025 2:23:53 PM |                      |               |
| Supervise By             | Maresh Dadoda        | Supervise On      | 4/30/2025 2:28:33 PM |                      |               |
| SubDirectory             | VL042925             | HP Acquire Method | TO15AIR.M            | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                      | STD REF.#         |                      |                      |               |
| Tune/Reschk              | AP2602               |                   |                      |                      |               |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |                   |                      |                      |               |
| CCC                      | AP2598               |                   |                      |                      |               |
| Internal Standard/PEM    | AP2602               |                   |                      |                      |               |
| ICV/I.BLK                | AP2601               |                   |                      |                      |               |
| Surrogate Standard       |                      |                   |                      |                      |               |
| MS/MSD Standard          |                      |                   |                      |                      |               |
| LCS Standard             |                      |                   |                      |                      |               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | BFB         | VL042435.D     | 29 Apr 2025 07:55 | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VL042436.D     | 29 Apr 2025 08:39 | SY/MD    | Ok,M     |
| 3   | VL0429ABL01 | VL042437.D     | 29 Apr 2025 09:25 | SY/MD    | Ok       |
| 4   | VL0429ABS01 | VL042438.D     | 29 Apr 2025 10:08 | SY/MD    | Ok,M     |
| 5   | Q1880-04    | VL042439.D     | 29 Apr 2025 10:59 | SY/MD    | Ok,M     |
| 6   | Q1880-05DL  | VL042440.D     | 29 Apr 2025 11:30 | SY/MD    | Not Ok   |
| 7   | Q1880-07DL  | VL042441.D     | 29 Apr 2025 12:02 | SY/MD    | Ok,M     |
| 8   | Q1880-11DL  | VL042442.D     | 29 Apr 2025 12:33 | SY/MD    | Not Ok   |
| 9   | Q1908-01    | VL042443.D     | 29 Apr 2025 13:11 | SY/MD    | Ok,M     |
| 10  | Q1908-02    | VL042444.D     | 29 Apr 2025 13:45 | SY/MD    | Not Ok   |
| 11  | Q1908-03    | VL042445.D     | 29 Apr 2025 14:19 | SY/MD    | Ok,M     |
| 12  | Q1908-03DL  | VL042446.D     | 29 Apr 2025 14:51 | SY/MD    | Not Ok   |
| 13  | Q1880-05    | VL042447.D     | 29 Apr 2025 15:24 | SY/MD    | Ok,M     |
| 14  | Q1880-07    | VL042448.D     | 29 Apr 2025 15:58 | SY/MD    | Dilution |
| 15  | Q1880-11    | VL042449.D     | 29 Apr 2025 16:32 | SY/MD    | Ok,M     |
| 16  | Q1880-01DL  | VL042450.D     | 29 Apr 2025 17:04 | SY/MD    | Ok       |
| 17  | Q1665-07DL  | VL042451.D     | 29 Apr 2025 17:37 | SY/MD    | Ok,M     |
| 18  | Q1665-19DL  | VL042452.D     | 29 Apr 2025 18:09 | SY/MD    | Ok,M     |
| 19  | Q1665-21DL  | VL042453.D     | 29 Apr 2025 18:42 | SY/MD    | Ok,M     |
| 20  | Q1908-01DUP | VL042454.D     | 29 Apr 2025 19:57 | SY/MD    | Ok,M     |
| 21  | Q1908-02DL  | VL042455.D     | 29 Apr 2025 20:30 | SY/MD    | Not Ok   |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL042925**

| Review By                | Semsettin Yesilyurt | Review On            | 4/30/2025 2:23:53 PM |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda       | Supervise On         | 4/30/2025 2:28:33 PM |                      |               |
| SubDirectory             | VL042925            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2602               |                      |                      |               |
| Initial Calibration Stds |                     | AP2598,AP2599,AP2600 |                      |                      |               |
| CCC                      |                     | AP2598               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2602               |                      |                      |               |
| ICV/I.BLK                |                     | AP2601               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

|    |          |            |                   |       |      |
|----|----------|------------|-------------------|-------|------|
| 22 | Q1908-02 | VL042456.D | 29 Apr 2025 21:58 | SY/MD | Ok,M |
|----|----------|------------|-------------------|-------|------|

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041725**

|              |                     |                   |                                              |
|--------------|---------------------|-------------------|----------------------------------------------|
| Review By    | Semsettin Yesilyurt | Review On         | 4/18/2025 4:23:02 PM                         |
| Supervise By | Maresh Dadoda       | Supervise On      | 4/18/2025 10:46:12 PM                        |
| SubDirectory | VL041725            | HP Acquire Method | TO15AIR.M HP Processing Method VL041725AIR.M |

| STD. NAME                | STD REF.#            |
|--------------------------|----------------------|
| Tune/Reschk              | AP2590               |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC                      | AP2598               |
| Internal Standard/PEM    | AP2590               |
| ICV/I.BLK                | AP2601               |
| Surrogate Standard       |                      |
| MS/MSD Standard          |                      |
| LCS Standard             |                      |

| Sr# | SampleID    | ClientID           | Data File Name | Date-Time         | Comment  | Operator | Status   |
|-----|-------------|--------------------|----------------|-------------------|----------|----------|----------|
| 1   | BFB         | BFB                | VL042348.D     | 17 Apr 2025 07:50 |          | SY/MD    | Ok       |
| 2   | VSTDICCC010 | VSTDICCC010        | VL042349.D     | 17 Apr 2025 09:44 |          | SY/MD    | Ok,M     |
| 3   | VSTDICC002  | VSTDICC002         | VL042350.D     | 17 Apr 2025 10:17 |          | SY/MD    | Ok,M     |
| 4   | VSTDICC001  | VSTDICC001         | VL042351.D     | 17 Apr 2025 10:48 |          | SY/MD    | Ok,M     |
| 5   | VSTDICC0.5  | VSTDICC0.5         | VL042352.D     | 17 Apr 2025 11:19 |          | SY/MD    | Ok,M     |
| 6   | VSTDICC0.1  | VSTDICC0.1         | VL042353.D     | 17 Apr 2025 11:50 |          | SY/MD    | Ok,M     |
| 7   | VSTDICC0.03 | VSTDICC0.03        | VL042354.D     | 17 Apr 2025 12:22 |          | SY/MD    | Ok,M     |
| 8   | VSTDICC015  | VSTDICC015         | VL042355.D     | 17 Apr 2025 12:54 |          | SY/MD    | Ok,M     |
| 9   | VSTDICV010  | ICVVL041725        | VL042356.D     | 17 Apr 2025 13:43 |          | SY/MD    | Ok,M     |
| 10  | VL0417ABL01 | VL0417ABL01        | VL042357.D     | 17 Apr 2025 14:23 |          | SY/MD    | Ok       |
| 11  | VL0417ABS01 | VL0417ABS01        | VL042358.D     | 17 Apr 2025 15:39 |          | SY/MD    | Ok,M     |
| 12  | Q1665-15    | IA-B14-1-3242025   | VL042359.D     | 17 Apr 2025 16:12 | Need 10X | SY/MD    | Dilution |
| 13  | Q1665-15DL  | IA-B14-1-3242025DL | VL042360.D     | 17 Apr 2025 16:44 |          | SY/MD    | Ok,M     |
| 14  | Q1668-01    | IA-B1-4-3252025    | VL042361.D     | 17 Apr 2025 17:17 | Need 4X  | SY/MD    | Dilution |
| 15  | Q1668-01DUP | IA-B1-4-3252025DUP | VL042362.D     | 17 Apr 2025 17:51 |          | SY/MD    | Ok,M     |
| 16  | Q1668-03    | IA-B1-3-3252025    | VL042363.D     | 17 Apr 2025 18:24 | Need 4X  | SY/MD    | Dilution |
| 17  | Q1668-04    | IA-B1-1-3252025    | VL042364.D     | 17 Apr 2025 18:58 |          | SY/MD    | Ok,M     |
| 18  | Q1668-02    | IA-B1-2-3252025    | VL042365.D     | 17 Apr 2025 19:31 |          | SY/MD    | Ok,M     |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041725**

| Review By                | Semsettin Yesilyurt | Review On            | 4/18/2025 4:23:02 PM  |                      |               |
|--------------------------|---------------------|----------------------|-----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda       | Supervise On         | 4/18/2025 10:46:12 PM |                      |               |
| SubDirectory             | VL041725            | HP Acquire Method    | TO15AIR.M             | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                     | STD REF.#            |                       |                      |               |
| Tune/Reschk              |                     | AP2590               |                       |                      |               |
| Initial Calibration Stds |                     | AP2598,AP2599,AP2600 |                       |                      |               |
| CCC                      |                     | AP2598               |                       |                      |               |
| Internal Standard/PEM    |                     | AP2590               |                       |                      |               |
| ICV/I.BLK                |                     | AP2601               |                       |                      |               |
| Surrogate Standard       |                     |                      |                       |                      |               |
| MS/MSD Standard          |                     |                      |                       |                      |               |
| LCS Standard             |                     |                      |                       |                      |               |

|    |            |                     |            |                   |           |       |          |
|----|------------|---------------------|------------|-------------------|-----------|-------|----------|
| 19 | Q1726-01   | IA-DUP-3-03312025   | VL042366.D | 17 Apr 2025 20:05 | Need 20X  | SY/MD | Dilution |
| 20 | Q1726-02   | IA-B2-6-03312025    | VL042367.D | 17 Apr 2025 20:38 | Need 20X  | SY/MD | Dilution |
| 21 | Q1726-03   | IA-B2-2-03312025    | VL042368.D | 17 Apr 2025 21:12 | Need 20X  | SY/MD | Dilution |
| 22 | Q1726-04   | IA-B2-5-03312025    | VL042369.D | 17 Apr 2025 21:45 | Need 20X  | SY/MD | Dilution |
| 23 | Q1726-05   | IA-B2-1-03312025    | VL042370.D | 17 Apr 2025 22:19 | Need 20X  | SY/MD | Dilution |
| 24 | Q1726-06   | IA-B2-3-03312025    | VL042371.D | 17 Apr 2025 22:52 | Need 20X  | SY/MD | Dilution |
| 25 | Q1726-07   | IA-B2-4-03312025    | VL042372.D | 17 Apr 2025 23:26 | Need 20X  | SY/MD | Dilution |
| 26 | Q1726-07DL | IA-B2-4-03312025DL  | VL042373.D | 17 Apr 2025 23:57 | Need 40X  | SY/MD | Dilution |
| 27 | Q1668-01DL | IA-B1-4-3252025DL   | VL042374.D | 18 Apr 2025 00:28 |           | SY/MD | Ok,M     |
| 28 | Q1668-03DL | IA-B1-3-3252025DL   | VL042375.D | 18 Apr 2025 00:59 |           | SY/MD | Ok,M     |
| 29 | Q1726-01DL | IA-DUP-3-03312025DL | VL042376.D | 18 Apr 2025 01:30 | Need 40X  | SY/MD | Dilution |
| 30 | Q1726-02DL | IA-B2-6-03312025DL  | VL042377.D | 18 Apr 2025 02:01 | Need 40X  | SY/MD | Dilution |
| 31 | Q1726-03DL | IA-B2-2-03312025DL  | VL042378.D | 18 Apr 2025 02:32 | Need 100X | SY/MD | Dilution |
| 32 | Q1726-04DL | IA-B2-5-03312025DL  | VL042379.D | 18 Apr 2025 03:03 | Need 40X  | SY/MD | Dilution |
| 33 | Q1726-05DL | IA-B2-1-03312025DL  | VL042380.D | 18 Apr 2025 03:34 | Need 100X | SY/MD | Dilution |
| 34 | Q1726-06DL | IA-B2-3-03312025DL  | VL042381.D | 18 Apr 2025 04:05 | Need 100X | SY/MD | Dilution |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL042925**

|              |                     |                      |                      |
|--------------|---------------------|----------------------|----------------------|
| Review By    | Semsettin Yesilyurt | Review On            | 4/30/2025 2:23:53 PM |
| Supervise By | Maresh Dadoda       | Supervise On         | 4/30/2025 2:28:33 PM |
| SubDirectory | VL042925            | HP Acquire Method    | TO15AIR.M            |
|              |                     | HP Processing Method | VL041725AIR.M        |

| STD. NAME                | STD REF.#            |
|--------------------------|----------------------|
| Tune/Reschk              | AP2602               |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |
| CCC                      | AP2598               |
| Internal Standard/PEM    | AP2602               |
| ICV/I.BLK                | AP2601               |
| Surrogate Standard       |                      |
| MS/MSD Standard          |                      |
| LCS Standard             |                      |

| Sr# | SampleID    | ClientID            | Data File Name | Date-Time         | Comment               | Operator | Status   |
|-----|-------------|---------------------|----------------|-------------------|-----------------------|----------|----------|
| 1   | BFB         | BFB                 | VL042435.D     | 29 Apr 2025 07:55 |                       | SY/MD    | Ok       |
| 2   | VSTDCCC010  | VSTDCCC010          | VL042436.D     | 29 Apr 2025 08:39 |                       | SY/MD    | Ok,M     |
| 3   | VL0429ABL01 | VL0429ABL01         | VL042437.D     | 29 Apr 2025 09:25 |                       | SY/MD    | Ok       |
| 4   | VL0429ABS01 | VL0429ABS01         | VL042438.D     | 29 Apr 2025 10:08 |                       | SY/MD    | Ok,M     |
| 5   | Q1880-04    | EBR-P08-SC-SS01-202 | VL042439.D     | 29 Apr 2025 10:59 |                       | SY/MD    | Ok,M     |
| 6   | Q1880-05DL  | EBR-SC-SS-DUP01-202 | VL042440.D     | 29 Apr 2025 11:30 | Need Straight Run     | SY/MD    | Not Ok   |
| 7   | Q1880-07DL  | EBR-P16-SC-SS01-202 | VL042441.D     | 29 Apr 2025 12:02 |                       | SY/MD    | Ok,M     |
| 8   | Q1880-11DL  | EBR-P02-SC-SS01-202 | VL042442.D     | 29 Apr 2025 12:33 | Need Straight Run     | SY/MD    | Not Ok   |
| 9   | Q1908-01    | B-1                 | VL042443.D     | 29 Apr 2025 13:11 |                       | SY/MD    | Ok,M     |
| 10  | Q1908-02    | B-2                 | VL042444.D     | 29 Apr 2025 13:45 | rerun confirmation,4X | SY/MD    | Not Ok   |
| 11  | Q1908-03    | B-3                 | VL042445.D     | 29 Apr 2025 14:19 |                       | SY/MD    | Ok,M     |
| 12  | Q1908-03DL  | B-3DL               | VL042446.D     | 29 Apr 2025 14:51 | Not Required          | SY/MD    | Not Ok   |
| 13  | Q1880-05    | EBR-SC-SS-DUP01-202 | VL042447.D     | 29 Apr 2025 15:24 |                       | SY/MD    | Ok,M     |
| 14  | Q1880-07    | EBR-P16-SC-SS01-202 | VL042448.D     | 29 Apr 2025 15:58 | Need 10X              | SY/MD    | Dilution |
| 15  | Q1880-11    | EBR-P02-SC-SS01-202 | VL042449.D     | 29 Apr 2025 16:32 |                       | SY/MD    | Ok,M     |
| 16  | Q1880-01DL  | EBR-P11-SC-SS01-202 | VL042450.D     | 29 Apr 2025 17:04 |                       | SY/MD    | Ok       |
| 17  | Q1665-07DL  | IA-DUP-1-3242025DL  | VL042451.D     | 29 Apr 2025 17:37 |                       | SY/MD    | Ok,M     |
| 18  | Q1665-19DL  | IA-B2-2-3242025DL   | VL042452.D     | 29 Apr 2025 18:09 |                       | SY/MD    | Ok,M     |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL042925**

| Review By                | Semsettin Yesilyurt  | Review On         | 4/30/2025 2:23:53 PM |                      |               |
|--------------------------|----------------------|-------------------|----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda        | Supervise On      | 4/30/2025 2:28:33 PM |                      |               |
| SubDirectory             | VL042925             | HP Acquire Method | TO15AIR.M            | HP Processing Method | VL041725AIR.M |
| STD. NAME                | STD REF.#            |                   |                      |                      |               |
| Tune/Reschk              | AP2602               |                   |                      |                      |               |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |                   |                      |                      |               |
| CCC                      | AP2598               |                   |                      |                      |               |
| Internal Standard/PEM    | AP2602               |                   |                      |                      |               |
| ICV/I.BLK                | AP2601               |                   |                      |                      |               |
| Surrogate Standard       |                      |                   |                      |                      |               |
| MS/MSD Standard          |                      |                   |                      |                      |               |
| LCS Standard             |                      |                   |                      |                      |               |

|    |             |                   |            |                   |                         |       |        |
|----|-------------|-------------------|------------|-------------------|-------------------------|-------|--------|
| 19 | Q1665-21DL  | IA-B2-1-3242025DL | VL042453.D | 29 Apr 2025 18:42 |                         | SY/MD | Ok,M   |
| 20 | Q1908-01DUP | B-1DUP            | VL042454.D | 29 Apr 2025 19:57 |                         | SY/MD | Ok,M   |
| 21 | Q1908-02DL  | B-2DL             | VL042455.D | 29 Apr 2025 20:30 | not required ,not match | SY/MD | Not Ok |
| 22 | Q1908-02    | B-2               | VL042456.D | 29 Apr 2025 21:58 |                         | SY/MD | Ok,M   |

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** Q1908

**Test :** TO-15

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** vI042925,

**Standard ID :**

AP2598,AP2599,AP2600,AP2601,AP2602,

**Chemical ID :**

A1117,A1135,A1136,A1137,

## 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="#">AP2598</a> | 04/16/2025       | 05/17/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                       |                        |                  |                        |                     |                |                  | 04/18/2025           |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = 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> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2397             | TO-15 -2 PPBV CAL.MIX | <a href="#">AP2599</a> | 04/16/2025       | 05/17/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                       |                        |                  |                        |                     |                |                  | 04/18/2025           |

**FROM** 26.00000psi of A1117 + 4.00000psi of AP2598 = 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> |
|------------------|------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2668             | 0.5 PPBV CAL.MIX | <a href="#">AP2600</a> | 04/16/2025       | 05/17/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                  |                        |                  |                        |                     |                |                  | 04/18/2025           |

**FROM** 29.00000psi of A1117 + 1.00000psi of AP2598 = 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="#">AP2601</a> | 04/16/2025       | 05/17/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                       |                        |                  |                        |                     |                |                  | 04/18/2025           |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = 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>        |
|--------------------------------------------------------------------------------------------|-----------------------------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 47                                                                                         | Internal Standard/Surrogate Mix-80 ppbv | <a href="#">AP2602</a> | 04/18/2025       | 05/18/2025             | Semsettin Yesilyurt | None           | None             | Mahesh Dadoda<br>04/22/2025 |
| <b><u>FROM</u></b> 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi |                                         |                        |                  |                        |                     |                |                  |                             |

## 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 | 07/16/2025      | 07/22/2024 / SAM        | 07/22/2024 / SAM            | A1135          |

| 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) | 040424-003A | 07/16/2025      | 07/25/2024 / SAM        | 07/22/2024 / SAM            | A1136          |

| 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) | 040424-003B | 07/16/2025      | 07/25/2024 / SAM        | 07/22/2024 / SAM            | A1137          |

# CUSTOMGAS SOLUTIONS



1750 East Club Boulevard

Durham, NC 27704

Phone: (919) 220-2570

Fax: (919) 220-4540

## 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: 07/16/2025

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:

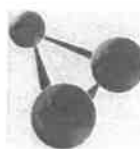
Signature:

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

### Certificate of Analysis

#### Customer:

ChemTech  
284 Sheffield Street  
Mountainside, NJ 07092

Cylinder Number: BC917782  
Cylinder Size/CGA: 170/180  
Fill Pressure: 1815 PSIA  
Gas Volume: 110 liters  
Date of Mfg: 07/16/2024  
Expiration Date: 07/16/2025  
Lot Number: 040424-003A

Ship To : Chemtech  
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           |
|-------------------------------|-----------------------|-----------------------|------------------------|
| Acetone                       | 500 ppb               | 517 ppb +/- 50 ppb    | Gravimetric Master Gas |
| Acetonitrile                  | 500 ppb               | 534 ppb +/- 50 ppb    |                        |
| Acrolein                      | 500 ppb               | 545 ppb +/- 50 ppb    |                        |
| Acrylonitrile                 | 500 ppb               | 539 ppb +/- 50 ppb    | -                      |
| Allyl chloride                | 500 ppb               | 509 ppb +/- 50 ppb    |                        |
| Benzene                       | 500 ppb               | 483 ppb +/- 50 ppb    |                        |
| Benzyl Chloride               | 500 ppb               | 489 ppb +/- 50 ppb    |                        |
| Bromodichloromethane          | 500 ppb               | 509 ppb +/- 50 ppb    |                        |
| Bromoform                     | 500 ppb               | 495 ppb +/- 50 ppb    |                        |
| 1,3-Butadiene                 | 500 ppb               | 504 ppb +/- 50 ppb    |                        |
| tert-Butyl alcohol            | 500 ppb               | 532 ppb +/- 50 ppb    |                        |
| n-Butyl benzene               | 500 ppb               | 529 ppb +/- 50 ppb    |                        |
| sec-Butyl benzene             | 500 ppb               | 529 ppb +/- 50 ppb    |                        |
| tert-Butyl benzene            | 500 ppb               | 529 ppb +/- 50 ppb    |                        |
| Carbon disulfide              | 500 ppb               | 485 ppb +/- 50 ppb    |                        |
| Carbon tetrachloride          | 500 ppb               | 506 ppb +/- 50 ppb    |                        |
| Chlorobenzene                 | 500 ppb               | 491 ppb +/- 50 ppb    |                        |
| Chlorodibromomethane          | 500 ppb               | 488 ppb +/- 50 ppb    |                        |
| Chloroform                    | 500 ppb               | 492 ppb +/- 50 ppb    |                        |
| 2-Chlorotoluene               | 500 ppb               | 532 ppb +/- 50 ppb    |                        |
| Cyclohexane                   | 500 ppb               | 482 ppb +/- 50 ppb    |                        |
| 1,2-Dibromoethane             | 500 ppb               | 491 ppb +/- 50 ppb    |                        |
| 1,2-Dichlorobenzene           | 500 ppb               | 510 ppb +/- 50 ppb    |                        |
| 1,3-Dichlorobenzene           | 500 ppb               | 489 ppb +/- 50 ppb    |                        |
| 1,4-Dichlorobenzene           | 500 ppb               | 490 ppb +/- 50 ppb    |                        |
| Dichlorodifluoromethane (R12) | 500 ppb               | 508 ppb +/- 50 ppb    |                        |

|                                |         |                    |  |
|--------------------------------|---------|--------------------|--|
| 1,1-Dichloroethane             | 500 ppb | 492 ppb +/- 50 ppb |  |
| 1,2-Dichloroethane             | 500 ppb | 497 ppb +/- 50 ppb |  |
| 1,1-Dichloroethylene           | 500 ppb | 493 ppb +/- 50 ppb |  |
| cis 1,2-Dichloroethylene       | 500 ppb | 488 ppb +/- 50 ppb |  |
| trans 1,2-Dichloroethylene     | 500 ppb | 488 ppb +/- 50 ppb |  |
| 1,2-Dichloropropane            | 500 ppb | 490 ppb +/- 50 ppb |  |
| cis 1,3-Dichloropropylene      | 500 ppb | 516 ppb +/- 50 ppb |  |
| trans 1,3-Dichloropropylene    | 500 ppb | 466 ppb +/- 50 ppb |  |
| 1,2-Dichlorotetrafluoroethane  | 500 ppb | 505 ppb +/- 50 ppb |  |
| 1,4-Dioxane                    | 500 ppb | 484 ppb +/- 50 ppb |  |
| Ethyl acetate                  | 500 ppb | 486 ppb +/- 50 ppb |  |
| Ethyl Alcohol                  | 500 ppb | 555 ppb +/- 50 ppb |  |
| Ethyl benzene                  | 500 ppb | 497 ppb +/- 50 ppb |  |
| Ethyl Chloride                 | 500 ppb | 506 ppb +/- 50 ppb |  |
| 4-Ethyltoluene                 | 500 ppb | 485 ppb +/- 50 ppb |  |
| n-Heptane                      | 500 ppb | 487 ppb +/- 50 ppb |  |
| Hexachloro-1,3-butadiene       | 500 ppb | 489 ppb +/- 50 ppb |  |
| 2-Hexanone                     | 500 ppb | 490 ppb +/- 50 ppb |  |
| n-Hexane                       | 500 ppb | 485 ppb +/- 50 ppb |  |
| Isopropyl alcohol              | 500 ppb | 511 ppb +/- 50 ppb |  |
| Isopropyl benzene              | 500 ppb | 527 ppb +/- 50 ppb |  |
| p-Isopropyl toluene            | 500 ppb | 534 ppb +/- 50 ppb |  |
| Methyl Bromide                 | 500 ppb | 505 ppb +/- 50 ppb |  |
| Methyl Chloride                | 500 ppb | 509 ppb +/- 50 ppb |  |
| Methyl ethyl ketone            | 500 ppb | 496 ppb +/- 50 ppb |  |
| Methyl isobutyl ketone         | 500 ppb | 493 ppb +/- 50 ppb |  |
| Methyl methacrylate            | 500 ppb | 532 ppb +/- 50 ppb |  |
| Methyl tertiary butyl ether    | 500 ppb | 483 ppb +/- 50 ppb |  |
| Methylene chloride             | 500 ppb | 498 ppb +/- 50 ppb |  |
| Naphthalene                    | 500 ppb | 542 ppb +/- 50 ppb |  |
| n-Propylbenzene                | 500 ppb | 529 ppb +/- 50 ppb |  |
| Propylene                      | 500 ppb | 508 ppb +/- 50 ppb |  |
| Styrene                        | 500 ppb | 485 ppb +/- 50 ppb |  |
| 1,1,1,2-Tetrachloroethane      | 500 ppb | 483 ppb +/- 50 ppb |  |
| 1,1,2,2-Tetrachloroethane      | 500 ppb | 534 ppb +/- 50 ppb |  |
| Tetrachloroethylene            | 500 ppb | 487 ppb +/- 50 ppb |  |
| Tetrahydrofuran                | 500 ppb | 535 ppb +/- 50 ppb |  |
| Toluene                        | 500 ppb | 491 ppb +/- 50 ppb |  |
| 1,2,4-Trichlorobenzene         | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,1,1-Trichloroethane          | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,1,2-Trichloroethane          | 500 ppb | 494 ppb +/- 50 ppb |  |
| Trichloroethylene              | 500 ppb | 488 ppb +/- 50 ppb |  |
| Trichlorofluoromethane         | 500 ppb | 508 ppb +/- 50 ppb |  |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 495 ppb +/- 50 ppb |  |
| 1,2,4-Trimethylbenzene         | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,3,5-Trimethylbenzene         | 500 ppb | 498 ppb +/- 50 ppb |  |
| 2,2,4-Trimethylpentane         | 500 ppb | 489 ppb +/- 50 ppb |  |
| Vinyl acetate                  | 500 ppb | 499 ppb +/- 50 ppb |  |
| Vinyl bromide                  | 500 ppb | 505 ppb +/- 50 ppb |  |
| Vinyl chloride                 | 500 ppb | 507 ppb +/- 50 ppb |  |
| m-Xylene                       | 500 ppb | 492 ppb +/- 50 ppb |  |
| o-Xylene                       | 500 ppb | 480 ppb +/- 50 ppb |  |
| p-Xylene                       | 500 ppb | 486 ppb +/- 50 ppb |  |
| 2-Methyl Naphthalene           | 500 ppb | 498 ppb +/- 50 ppb |  |
| R-22                           | 500 ppb | 590 ppb +/- 50 ppb |  |
| Nitrogen                       | balance | balance            |  |
|                                |         |                    |  |
|                                |         |                    |  |

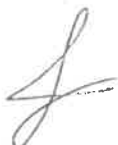
**NOTES:** Blend Tolerance: +/- 20 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:** 

**Signature:**

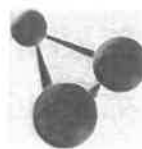
**Date:** 07/16/2024



\*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

### Certificate of Analysis

#### Customer:

ChemTech  
284 Sheffield Street  
Mountainside, NJ 07092

Cylinder Number: BC169552  
Cylinder Size/CGA: 170/180  
Fill Pressure: 1815 PSIA  
Gas Volume: 110 liters  
Date of Mfg: 07/16/2024  
Expiration Date: 07/16/2025  
Lot Number: 040424-003B

Ship To : Chemtech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.    | Customer PO | Mixture Type |
|-----------------|----------|------------|-------------|--------------|
| 00107092NJ      | Best Way | 040424-003 | 240404-10   | Gravimetric  |

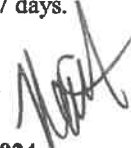
| Component                     | Nominal Concentration | Actual Concentration* | Mixture Type           |
|-------------------------------|-----------------------|-----------------------|------------------------|
| Acetone                       | 500 ppb               | 502 ppb +/- 50 ppb    | Gravimetric Master Gas |
| Acetonitrile                  | 500 ppb               | 530 ppb +/- 50 ppb    |                        |
| Acrolein                      | 500 ppb               | 540 ppb +/- 50 ppb    |                        |
| Acrylonitrile                 | 500 ppb               | 535 ppb +/- 50 ppb    |                        |
| Allyl chloride                | 500 ppb               | 494 ppb +/- 50 ppb    |                        |
| Benzene                       | 500 ppb               | 470 ppb +/- 50 ppb    |                        |
| Benzyl Chloride               | 500 ppb               | 476 ppb +/- 50 ppb    |                        |
| Bromodichloromethane          | 500 ppb               | 495 ppb +/- 50 ppb    |                        |
| Bromoform                     | 500 ppb               | 481 ppb +/- 50 ppb    |                        |
| 1,3-Butadiene                 | 500 ppb               | 490 ppb +/- 50 ppb    |                        |
| tert-Butyl alcohol            | 500 ppb               | 527 ppb +/- 50 ppb    |                        |
| n-Butyl benzene               | 500 ppb               | 525 ppb +/- 50 ppb    |                        |
| sec-Butyl benzene             | 500 ppb               | 525 ppb +/- 50 ppb    |                        |
| tert-Butyl benzene            | 500 ppb               | 525 ppb +/- 50 ppb    |                        |
| Carbon disulfide              | 500 ppb               | 471 ppb +/- 50 ppb    |                        |
| Carbon tetrachloride          | 500 ppb               | 492 ppb +/- 50 ppb    |                        |
| Chlorobenzene                 | 500 ppb               | 478 ppb +/- 50 ppb    |                        |
| Chlorodibromomethane          | 500 ppb               | 474 ppb +/- 50 ppb    |                        |
| Chloroform                    | 500 ppb               | 478 ppb +/- 50 ppb    |                        |
| 2-Chlorotoluene               | 500 ppb               | 527 ppb +/- 50 ppb    |                        |
| Cyclohexane                   | 500 ppb               | 469 ppb +/- 50 ppb    |                        |
| 1,2-Dibromoethane             | 500 ppb               | 477 ppb +/- 50 ppb    |                        |
| 1,2-Dichlorobenzene           | 500 ppb               | 495 ppb +/- 50 ppb    |                        |
| 1,3-Dichlorobenzene           | 500 ppb               | 475 ppb +/- 50 ppb    |                        |
| 1,4-Dichlorobenzene           | 500 ppb               | 476 ppb +/- 50 ppb    |                        |
| Dichlorodifluoromethane (R12) | 500 ppb               | 494 ppb +/- 50 ppb    |                        |



|                                |         |                    |  |
|--------------------------------|---------|--------------------|--|
| 1,1-Dichloroethane             | 500 ppb | 478 ppb +/- 50 ppb |  |
| 1,2-Dichloroethane             | 500 ppb | 483 ppb +/- 50 ppb |  |
| 1,1-Dichloroethylene           | 500 ppb | 479 ppb +/- 50 ppb |  |
| cis 1,2-Dichloroethylene       | 500 ppb | 475 ppb +/- 50 ppb |  |
| trans 1,2-Dichloroethylene     | 500 ppb | 475 ppb +/- 50 ppb |  |
| 1,2-Dichloropropane            | 500 ppb | 476 ppb +/- 50 ppb |  |
| cis 1,3-Dichloropropylene      | 500 ppb | 501 ppb +/- 50 ppb |  |
| trans 1,3-Dichloropropylene    | 500 ppb | 466 ppb +/- 50 ppb |  |
| 1,2-Dichlorotetrafluoroethane  | 500 ppb | 491 ppb +/- 50 ppb |  |
| 1,4-Dioxane                    | 500 ppb | 470 ppb +/- 50 ppb |  |
| Ethyl acetate                  | 500 ppb | 472 ppb +/- 50 ppb |  |
| Ethyl Alcohol                  | 500 ppb | 550 ppb +/- 50 ppb |  |
| Ethyl benzene                  | 500 ppb | 483 ppb +/- 50 ppb |  |
| Ethyl Chloride                 | 500 ppb | 492 ppb +/- 50 ppb |  |
| 4-Ethyltoluene                 | 500 ppb | 472 ppb +/- 50 ppb |  |
| n-Heptane                      | 500 ppb | 473 ppb +/- 50 ppb |  |
| Hexachloro-1,3-butadiene       | 500 ppb | 475 ppb +/- 50 ppb |  |
| 2-Hexanone                     | 500 ppb | 477 ppb +/- 50 ppb |  |
| n-Hexane                       | 500 ppb | 471 ppb +/- 50 ppb |  |
| Isopropyl alcohol              | 500 ppb | 497 ppb +/- 50 ppb |  |
| Isopropyl benzene              | 500 ppb | 522 ppb +/- 50 ppb |  |
| p-Isopropyl toluene            | 500 ppb | 530 ppb +/- 50 ppb |  |
| Methyl Bromide                 | 500 ppb | 491 ppb +/- 50 ppb |  |
| Methyl Chloride                | 500 ppb | 494 ppb +/- 50 ppb |  |
| Methyl ethyl ketone            | 500 ppb | 482 ppb +/- 50 ppb |  |
| Methyl isobutyl ketone         | 500 ppb | 479 ppb +/- 50 ppb |  |
| Methyl methacrylate            | 500 ppb | 527 ppb +/- 50 ppb |  |
| Methyl tertiary butyl ether    | 500 ppb | 470 ppb +/- 50 ppb |  |
| Methylene chloride             | 500 ppb | 484 ppb +/- 50 ppb |  |
| Naphthalene                    | 500 ppb | 537 ppb +/- 50 ppb |  |
| n-Propylbenzene                | 500 ppb | 525 ppb +/- 50 ppb |  |
| Propylene                      | 500 ppb | 494 ppb +/- 50 ppb |  |
| Styrene                        | 500 ppb | 472 ppb +/- 50 ppb |  |
| 1,1,1,2-Tetrachloroethane      | 500 ppb | 530 ppb +/- 50 ppb |  |
| 1,1,2,2-Tetrachloroethane      | 500 ppb | 470 ppb +/- 50 ppb |  |
| Tetrachloroethylene            | 500 ppb | 473 ppb +/- 50 ppb |  |
| Tetrahydrofuran                | 500 ppb | 520 ppb +/- 50 ppb |  |
| Toluene                        | 500 ppb | 477 ppb +/- 50 ppb |  |
| 1,2,4-Trichlorobenzene         | 500 ppb | 480 ppb +/- 50 ppb |  |
| 1,1,1-Trichloroethane          | 500 ppb | 480 ppb +/- 50 ppb |  |
| 1,1,2-Trichloroethane          | 500 ppb | 481 ppb +/- 50 ppb |  |
| Trichloroethylene              | 500 ppb | 474 ppb +/- 50 ppb |  |
| Trichlorofluoromethane         | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 481 ppb +/- 50 ppb |  |
| 1,2,4-Trimethylbenzene         | 500 ppb | 480 ppb +/- 50 ppb |  |
| 1,3,5-Trimethylbenzene         | 500 ppb | 484 ppb +/- 50 ppb |  |
| 2,2,4-Trimethylpentane         | 500 ppb | 475 ppb +/- 50 ppb |  |
| Vinyl acetate                  | 500 ppb | 485 ppb +/- 50 ppb |  |
| Vinyl bromide                  | 500 ppb | 491 ppb +/- 50 ppb |  |
| Vinyl chloride                 | 500 ppb | 493 ppb +/- 50 ppb |  |
| m-Xylene                       | 500 ppb | 479 ppb +/- 50 ppb |  |
| o-Xylene                       | 500 ppb | 466 ppb +/- 50 ppb |  |
| p-Xylene                       | 500 ppb | 473 ppb +/- 50 ppb |  |
| 2-Methyl Naphthalene           | 500 ppb | 497 ppb +/- 50 ppb |  |
| R-22                           | 500 ppb | 589 ppb +/- 50 ppb |  |
| Nitrogen                       | balance | balance            |  |
|                                |         |                    |  |
|                                |         |                    |  |

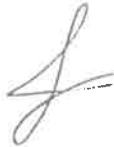
**NOTES:** Blend Tolerance: +/- 20 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:** 

**Signature:**

**Date:** 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.

## Process Report

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

**Order ID : Q1908**

| Date       | Bottle ID | Lab Sample Number                       | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-----------------------------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 04/29/2025 | B2504043  | <del>Q1908-03</del><br>Q1908-01<br>10-2 | -6.3            | 10598       | 6 L      | 10701  |          | C2504008   | <b>VL042399.D</b><br>Seq :VL042125<br>TUNE : VL042394.D<br>ICAL : VL042354.D<br>CCAL : VL042395.D<br>MB : VL042396.D |
| 04/29/2025 | B2504043  | Q1908-02                                | -5.5            | 10595       | 6 L      | 10533  |          | C2504007   | <b>VL042330.D</b><br>Seq :VL041525<br>TUNE : VL042325.D<br>ICAL : VL042177.D<br>CCAL : VL042326.D<br>MB : VL042327.D |
| 04/29/2025 | B2504043  | <del>Q1908-01</del><br>Q1908-03<br>21   | -5.1            | 10297       | 6 L      | 10615  |          | C2504008   | <b>VL042399.D</b><br>Seq :VL042125<br>TUNE : VL042394.D<br>ICAL : VL042354.D<br>CCAL : VL042395.D<br>MB : VL042396.D |



## Canister Cleaning

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

**Canister Batch :** C2504007

**Type of Canister :** 6 L

**Cleaning Date :** 04/14/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum<br>After<br>Cleaning<br>("Hg) | Vaccum<br>After<br>Cleaning<br>Date | Analysis<br>Date | VAC<br>24Hr<br>("Hg) | Vaccum<br>After<br>24hr<br>Date | New<br>Sample<br>Number | QC<br>Canister | File       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10599    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      |                         | 10401          | VL042330.D |
| 10595    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      | Q1908-02                | 10401          | VL042330.D |
| 10268    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      | Q1880-02                | 10401          | VL042330.D |
| 10323    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      | Q1880-03                | 10401          | VL042330.D |
| 10258    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      | Q1880-01                | 10401          | VL042330.D |
| 10198    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      |                         | 10401          | VL042330.D |
| 10053    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      |                         | 10401          | VL042330.D |
| 10401    | -30                                  | 04/15/2025                          | 04/15/2025       | -30                  | 04/16/2025                      | Q1880-05                | 10401          | VL042330.D |



## Canister Cleaning

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

**Canister Batch :** C2504008

**Type of Canister :** 6 L

**Cleaning Date :** 04/16/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

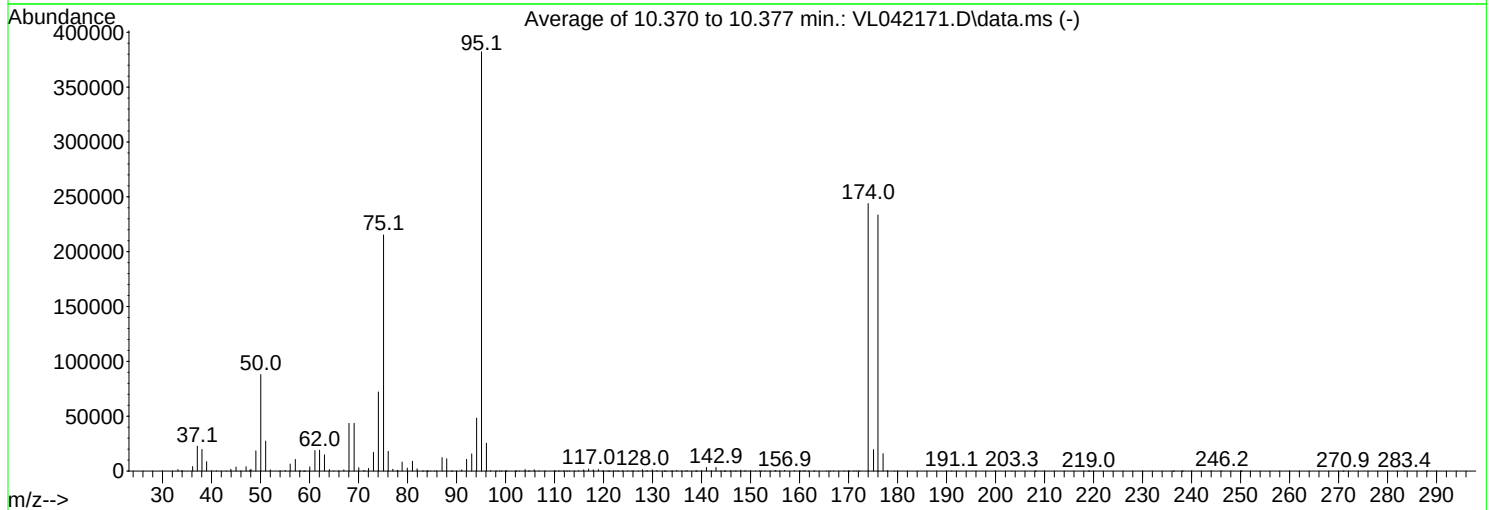
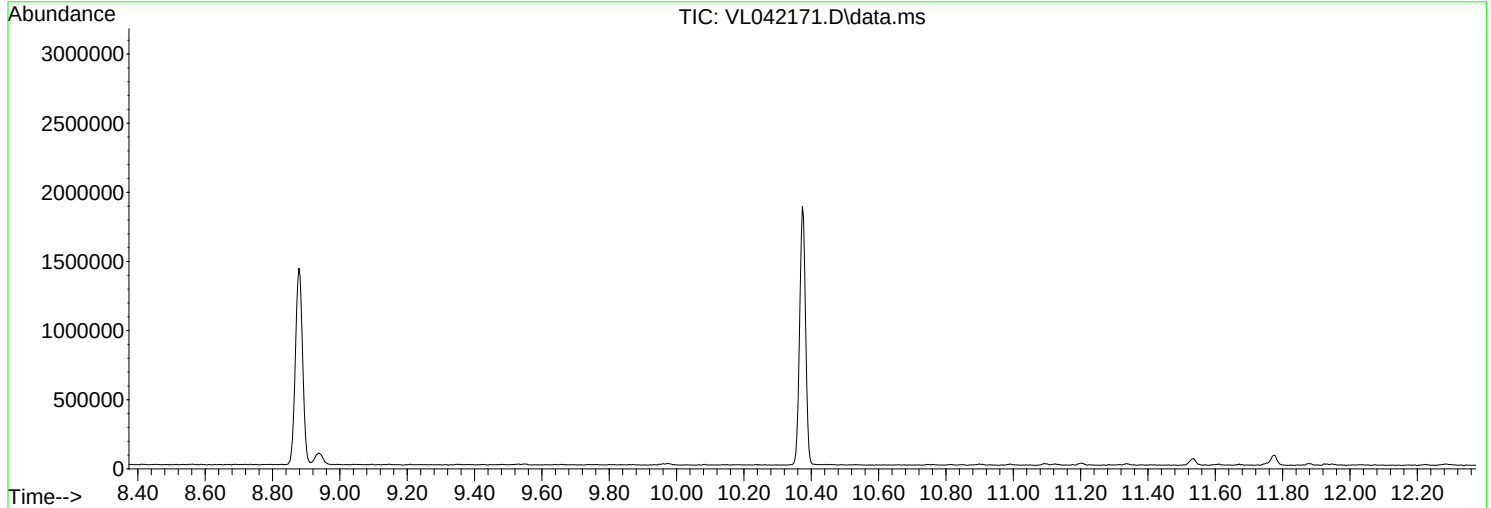
| Canister | Vaccum<br>After<br>Cleaning<br>("Hg) | Vaccum<br>After<br>Cleaning<br>Date | Analysis<br>Date | VAC<br>24Hr<br>("Hg) | Vaccum<br>After<br>24hr<br>Date | New<br>Sample<br>Number | QC<br>Canister | File       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10329    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      |                         | 10329          | VL042399.D |
| 10334    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      |                         | 10329          | VL042399.D |
| 10285    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      |                         | 10329          | VL042399.D |
| 10297    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      | Q1908-03                | 10329          | VL042399.D |
| 10154    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      |                         | 10329          | VL042399.D |
| 10439    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      |                         | 10329          | VL042399.D |
| 10598    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      | Q1908-01                | 10329          | VL042399.D |
| 10609    | -30                                  | 04/17/2025                          | 04/21/2025       | -30                  | 04/18/2025                      |                         | 10329          | VL042399.D |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042171.D  
Acq On : 27 Mar 2025 07:44  
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\VL032725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

| 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              | 23.0         | 87995      | PASS                |
| 75             | 95              | 30              | 66              | 56.3         | 215296     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 382268     | PASS                |
| 96             | 95              | 5               | 9               | 6.6          | 25383      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 174            | 95              | 50              | 120             | 63.8         | 243904     | PASS                |
| 175            | 174             | 4               | 9               | 8.0          | 19539      | PASS                |
| 176            | 174             | 93              | 101             | 95.7         | 233493     | PASS                |
| 177            | 176             | 5               | 9               | 6.8          | 15877      | PASS                |

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

Method File : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.602 | 1.514 | 1.482 | 1.404 | 1.380 | 1.476 | 6.03  |
| 3) Chlorodifluoro...      |                |       | 1.622 | 1.541 | 1.514 | 1.457 | 1.408 | 1.508 | 5.41  |
| 4) Chloromethane          |                |       | 0.660 | 0.597 | 0.618 | 0.573 | 0.570 | 0.603 | 6.17  |
| 5) T Vinyl Chloride       | 0.882          | 0.705 | 0.635 | 0.576 | 0.584 | 0.549 | 0.546 | 0.639 | 18.84 |
| 6) T Bromomethane         |                |       | 0.327 | 0.268 | 0.266 | 0.256 | 0.250 | 0.273 | 11.20 |
| 7) Chloroethane           |                |       | 0.286 | 0.248 | 0.223 | 0.227 | 0.226 | 0.242 | 10.92 |
| 8) T Dichlorotetra...     |                |       | 1.306 | 1.283 | 1.274 | 1.214 | 1.211 | 1.257 | 3.40  |
| 9) T Propene              |                |       | 0.734 | 0.736 | 0.698 | 0.660 | 0.630 | 0.691 | 6.69  |
| 10) T Heptane             |                |       | 1.847 | 1.940 | 1.897 | 1.792 | 1.719 | 1.839 | 4.73  |
| 11) T Trichlorofluor...   |                |       | 1.562 | 1.457 | 1.480 | 1.339 | 1.346 | 1.437 | 6.59  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.247 | 1.215 | 1.188 | 1.120 | 1.135 | 1.181 | 4.52  |
| 13) Ethanol               |                |       | 0.110 | 0.086 | 0.073 | 0.029 | 0.028 | 0.065 | 55.48 |
| 14) T Bromoethene         |                |       | 0.529 | 0.447 | 0.460 | 0.417 | 0.409 | 0.452 | 10.47 |
| 15) T Acetone             |                |       | 1.699 | 1.573 | 1.469 | 1.113 | 1.139 | 1.399 | 18.73 |
| 16) T 1,3-Butadiene       |                |       | 0.952 | 0.705 | 0.608 | 0.573 | 0.577 | 0.683 | 23.38 |
| 17) tert-Butyl alc...     |                |       | 1.935 | 1.799 | 1.756 | 1.618 | 1.601 | 1.742 | 7.91  |
| 18) T 1,1-Dichloroet...   |                |       | 0.624 | 0.565 | 0.560 | 0.504 | 0.507 | 0.552 | 8.99  |
| 19) T Isopropyl Alcohol   |                |       | 1.016 | 0.800 | 0.738 | 0.702 | 0.689 | 0.789 | 16.99 |
| 20) T Methylene Chlo...   |                |       | 0.624 | 0.563 | 0.545 | 0.438 | 0.435 | 0.521 | 15.85 |
| 21) T Allyl Chloride      |                |       | 1.067 | 1.022 | 1.020 | 0.902 | 0.921 | 0.986 | 7.25  |
| 22) T trans-1,2-Dich...   |                |       | 0.704 | 0.701 | 0.621 | 0.590 | 0.575 | 0.638 | 9.56  |
| 23) T Vinyl Acetate       |                |       | 0.754 | 0.692 | 0.550 | 0.498 | 0.532 | 0.605 | 18.40 |
| 24) T 1,1-Dichloroet...   |                |       | 1.247 | 1.208 | 1.187 | 1.122 | 1.149 | 1.183 | 4.17  |
| 25) T Ethyl Acetate       |                |       | 4.017 | 3.619 | 3.703 | 3.457 | 3.353 | 3.630 | 7.06  |
| 26) T Hexane              |                |       | 1.507 | 1.462 | 1.383 | 1.333 | 1.325 | 1.402 | 5.71  |
| 27) T Carbon Disulfide    |                |       | 1.608 | 1.512 | 1.538 | 1.436 | 1.423 | 1.503 | 5.07  |
| 28) T Methyl tert-Bu...   |                |       | 0.921 | 0.886 | 0.894 | 0.831 | 0.832 | 0.873 | 4.56  |
| 29) T Chloroform          |                |       | 2.233 | 2.068 | 2.071 | 1.932 | 1.956 | 2.052 | 5.81  |
| 30) T Cyclohexane         |                |       | 1.337 | 1.238 | 1.211 | 1.162 | 1.140 | 1.217 | 6.33  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.507 | 1.460 | 1.426 | 1.371 | 1.353 | 1.423 | 4.44  |
| 32) T 1,1,1-Trichlor...   | 3.151          | 2.495 | 2.279 | 2.201 | 2.152 | 2.062 | 2.105 | 2.349 | 16.23 |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.754 | 0.771 | 0.770 | 0.667 | 0.664 | 0.725 | 7.58  |
| 35) T Carbon Tetrach...   | 1.069          | 0.782 | 0.709 | 0.732 | 0.748 | 0.703 | 0.725 | 0.781 | 16.60 |
| 36) T Benzene             |                |       | 1.049 | 1.027 | 1.013 | 0.934 | 0.934 | 0.991 | 5.47  |
| 37) T 1,2-Dichloroet...   |                |       | 0.613 | 0.569 | 0.563 | 0.537 | 0.556 | 0.568 | 4.95  |
| 38) T Trichloroethene     | 0.463          | 0.437 | 0.438 | 0.408 | 0.398 | 0.374 | 0.378 | 0.414 | 8.00  |
| 39) T 1,2-Dichloropr...   |                |       | 0.386 | 0.373 | 0.365 | 0.337 | 0.344 | 0.361 | 5.68  |

|                                                  |   |                   |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |   |                   |       |       |       |       |       |       |       |       |       |
| Method File : VL032725AIR.M                      |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                              | T | 1,4-Dioxane       |       |       | 0.234 | 0.197 | 0.191 | 0.169 | 0.167 | 0.192 | 14.08 |
| 41)                                              | T | Tetrahydrofuran   |       |       | 0.439 | 0.425 | 0.432 | 0.398 | 0.393 | 0.418 | 4.98  |
| 42)                                              | T | Bromodichlorom... |       |       | 0.778 | 0.779 | 0.802 | 0.769 | 0.785 | 0.782 | 1.58  |
| 43)                                              |   | Methyl Methacr... |       |       | 0.442 | 0.451 | 0.408 | 0.403 | 0.394 | 0.420 | 6.03  |
| 44)                                              | T | 2,2,4-Trimethy... |       |       | 1.781 | 1.689 | 1.723 | 1.608 | 1.576 | 1.675 | 5.00  |
| 45)                                              | T | t-1,3-Dichloro... |       |       | 0.474 | 0.447 | 0.453 | 0.439 | 0.440 | 0.450 | 3.15  |
| 46)                                              | T | cis-1,3-Dichlo... |       |       | 0.549 | 0.560 | 0.566 | 0.550 | 0.535 | 0.552 | 2.12  |
| 47)                                              | T | 1,1,2-Trichlor... |       |       | 0.419 | 0.382 | 0.379 | 0.364 | 0.365 | 0.382 | 5.88  |
| 48)                                              | T | Dibromochlorom... |       |       | 0.651 | 0.641 | 0.663 | 0.636 | 0.644 | 0.647 | 1.62  |
| 49)                                              | T | Bromoform         |       |       | 0.566 | 0.588 | 0.597 | 0.582 | 0.570 | 0.581 | 2.18  |
| 50)                                              | T | 4-Methyl-2-Pen... |       |       | 1.286 | 1.214 | 1.211 | 1.027 | 1.008 | 1.149 | 10.79 |
| 51)                                              | T | 2-Hexanone        |       |       | 0.999 | 1.018 | 1.031 | 0.844 | 0.827 | 0.944 | 10.56 |
| 52)                                              | T | Tetrachloroethene | 0.572 | 0.359 | 0.401 | 0.361 | 0.371 | 0.343 | 0.345 | 0.393 | 20.64 |
| 53)                                              | T | Toluene           |       |       | 1.239 | 1.203 | 1.202 | 1.125 | 1.108 | 1.175 | 4.76  |
| 54)                                              | T | 1,2-Dibromoethane | 0.574 |       | 0.543 | 0.538 | 0.520 | 0.508 | 0.510 | 0.532 | 4.74  |
| -----ISTD-----                                   |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                              | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                              |   | 1,1,1,2-Tetrac... |       |       | 0.576 | 0.575 | 0.576 | 0.510 | 0.515 | 0.550 | 6.30  |
| 57)                                              | T | Chlorobenzene     |       |       | 1.024 | 0.979 | 0.994 | 0.875 | 0.871 | 0.949 | 7.46  |
| 58)                                              | T | Ethyl Benzene     |       |       | 1.850 | 1.822 | 1.894 | 1.671 | 1.645 | 1.776 | 6.28  |
| 59)                                              | T | m/p-Xylene        |       |       | 1.505 | 1.472 | 1.484 | 1.321 | 1.309 | 1.418 | 6.71  |
| 60)                                              | T | o-Xylene          |       |       | 1.521 | 1.475 | 1.499 | 1.328 | 1.287 | 1.422 | 7.50  |
| 61)                                              | T | Styrene           |       |       | 0.709 | 0.722 | 0.735 | 0.683 | 0.668 | 0.703 | 3.92  |
| 62)                                              |   | Isopropylbenzene  |       |       | 2.290 | 2.199 | 2.261 | 1.962 | 1.920 | 2.126 | 8.14  |
| 63)                                              | T | 1,1,2,2-Tetrac... | 0.986 | 0.800 | 0.907 | 0.889 | 0.893 | 0.796 | 0.777 | 0.864 | 8.78  |
| 64)                                              |   | n-propylbenzene   |       |       | 0.578 | 0.581 | 0.576 | 0.499 | 0.502 | 0.547 | 7.81  |
| 65)                                              |   | tert-Butylbenzene |       |       | 2.190 | 2.071 | 2.144 | 1.736 | 1.691 | 1.966 | 11.96 |
| 66)                                              | T | Benzyl Chloride   |       |       | 0.217 | 0.213 | 0.221 | 0.203 | 0.189 | 0.209 | 6.06  |
| 67)                                              |   | sec-Butylbenzene  |       |       | 3.005 | 2.994 | 2.947 | 2.404 | 2.316 | 2.733 | 12.54 |
| 68)                                              | S | 1-Bromo-4-Fluo... | 0.820 | 0.827 | 0.832 | 0.810 | 0.828 | 0.813 | 0.820 | 0.821 | 0.98  |
| 69)                                              |   | p-Isopropyltol... |       |       | 2.554 | 2.551 | 2.560 | 2.078 | 2.025 | 2.354 | 11.74 |
| 70)                                              |   | n-Butylbenzene    |       |       | 2.536 | 2.598 | 2.682 | 2.137 | 2.082 | 2.407 | 11.51 |
| 71)                                              |   | 2-Chlorotoluene   |       |       | 1.717 | 1.728 | 1.759 | 1.538 | 1.510 | 1.650 | 7.07  |
| 72)                                              | T | 4-Ethyltoluene    |       |       | 1.834 | 1.859 | 1.929 | 1.629 | 1.601 | 1.770 | 8.26  |
| 73)                                              | T | 1,3,5-Trimethy... |       |       | 1.616 | 1.671 | 1.677 | 1.387 | 1.381 | 1.546 | 9.71  |
| 74)                                              | T | 1,2,4-Trimethy... |       |       | 1.994 | 1.958 | 1.966 | 1.510 | 1.478 | 1.781 | 14.74 |
| 75)                                              | T | 1,3-Dichlorobe... |       |       | 1.036 | 1.022 | 1.063 | 0.882 | 0.882 | 0.977 | 8.99  |
| 76)                                              | T | 1,4-Dichlorobe... |       |       | 1.030 | 1.017 | 1.040 | 0.888 | 0.886 | 0.972 | 8.05  |
| 77)                                              | T | 1,2-Dichlorobe... |       |       | 1.012 | 1.031 | 1.014 | 0.850 | 0.850 | 0.951 | 9.78  |
| 78)                                              | T | Hexachloro-1,3... |       |       | 1.057 | 1.113 | 1.086 | 0.802 | 0.784 | 0.968 | 16.65 |
| 79)                                              | T | Naphthalene       | 1.637 |       | 1.979 | 2.181 | 2.314 | 1.806 | 1.773 | 1.948 | 13.31 |
| 80)                                              | T | Naphthalene,2-... |       |       | 0.721 | 0.891 | 1.163 | 0.990 | 1.013 | 0.955 | 17.09 |
| 81)                                              | T | 1,2,4-Trichlor... |       |       | 0.821 | 0.941 | 1.028 | 0.859 | 0.843 | 0.899 | 9.51  |

(#) = Out of Range



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042172.D  
 Acq On : 27 Mar 2025 08:26  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 187002   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 545068   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 519536   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95    | 422410   | 9.901    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.000% |

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 262496 | 9.507 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 272522 | 9.662 | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 107099 | 9.491 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.577 | 62  | 102699 | 8.925 | ppbv   | 100    |
| 6) Bromomethane               | 1.664 | 94  | 47950  | 9.377 | ppbv   | 100    |
| 7) Chloroethane               | 1.703 | 64  | 42516  | 9.387 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 227041 | 9.656 | ppbv   | 100    |
| 9) Propene                    | 1.483 | 41  | 123386 | 9.709 | ppbv   | 100    |
| 10) Heptane                   | 4.972 | 43  | 335086 | 9.744 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 250349 | 9.318 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 209365 | 9.481 | ppbv   | 100    |
| 13) Ethanol                   | 1.719 | 45  | 5338   | 5.364 | ppbv   | 100    |
| 14) Bromoethene               | 1.777 | 108 | 77999  | 9.220 | ppbv   | 100    |
| 15) Acetone                   | 1.832 | 43  | 208061 | 7.955 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.606 | 39  | 107104 | 9.105 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 302616 | 9.290 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 94236  | 9.128 | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 131359 | 8.902 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.059 | 84  | 81828  | 8.401 | ppbv   | 100    |
| 21) Allyl Chloride            | 2.091 | 41  | 168602 | 9.141 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 110371 | 9.149 | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.460 | 43  | 93080  | 8.563 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 209753 | 9.484 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.833 | 43  | 646501 | 9.524 | ppbv   | 100    |
| 26) Hexane                    | 2.823 | 57  | 249331 | 9.510 | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.146 | 76  | 268507 | 9.550 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.438 | 73  | 155398 | 9.520 | ppbv   | 100    |
| 29) Chloroform                | 2.845 | 83  | 361264 | 9.415 | ppbv   | 100    |
| 30) Cyclohexane               | 3.852 | 84  | 217215 | 9.537 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 256425 | 9.634 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 385628 | 8.784 | ppbv   | 100    |
| 34) 2-Butanone                | 2.554 | 43  | 363735 | 9.203 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.758 | 117 | 382925 | 9.129 | ppbv   | 100    |
| 36) Benzene                   | 3.651 | 78  | 508860 | 9.417 | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 292937 | 9.469 | ppbv   | 100    |
| 38) Trichloroethene           | 4.545 | 130 | 204027 | 9.045 | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 183439 | 9.321 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.577 | 88  | 92327  | 9.042 | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.049 | 42  | 216851 | 9.643 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.483 | 83  | 418887 | 9.822 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.872 | 69  | 219399 | 9.618 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 876649 | 9.600 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.406 | 75  | 239180 | 9.746 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042172.D  
 Acq On : 27 Mar 2025 08:26  
 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 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 300021   | 9.973  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 198176   | 9.526  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.380  | 129  | 346499   | 9.828  | ppbv   | 100      |
| 49) Bromoform                 | 9.477  | 173  | 317189   | 10.021 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.745  | 43   | 559800   | 8.934  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.432  | 43   | 460013   | 8.848  | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.218  | 164  | 186912   | 8.722  | ppbv   | 100      |
| 53) Toluene                   | 6.927  | 91   | 613378   | 9.576  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.649  | 107  | 276797   | 9.536  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 265037   | 9.268  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.917  | 112  | 454511   | 9.223  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.351  | 91   | 868003   | 9.406  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.549  | 91   | 1372806m | 18.607 | ppbv   |          |
| 60) o-Xylene                  | 9.960  | 91   | 689933   | 9.340  | ppbv   | 100      |
| 61) Styrene                   | 9.866  | 104  | 354697   | 9.706  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.536 | 105  | 1019255  | 9.227  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.960  | 83   | 413392   | 9.210  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.986 | 120  | 259405   | 9.122  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.529 | 119  | 901951   | 8.828  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.610 | 91   | 105411   | 9.724  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.766 | 105  | 1249106  | 8.796  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 1079675  | 8.830  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.277 | 91   | 1110351  | 8.879  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 799102   | 9.320  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.122 | 105  | 846232   | 9.200  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 720566   | 8.970  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 784745   | 8.480  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 458226   | 9.028  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.669 | 146  | 461371   | 9.134  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.944 | 146  | 441473   | 8.933  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 416735   | 8.284  | ppbv   | 100      |
| 79) Naphthalene               | 13.510 | 128  | 938470   | 9.271  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 514394   | 10.436 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 446420   | 9.561  | ppbv   | 100      |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042173.D  
 Acq On : 27 Mar 2025 08:59  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 188395   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 546394   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 504538   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 417532 10.077 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 55859  | 2.008 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 57045  | 2.007 | ppbv   | 99     |
| 4) Chloromethane              | 1.531 | 50  | 23293  | 2.049 | ppbv   | 94     |
| 5) Vinyl Chloride             | 1.576 | 62  | 21989  | 1.897 | ppbv   | 99     |
| 6) Bromomethane               | 1.664 | 94  | 10027  | 1.946 | ppbv   | 98     |
| 7) Chloroethane               | 1.703 | 64  | 8413   | 1.844 | ppbv   | 92     |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 48008  | 2.027 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 26295  | 2.054 | ppbv   | 94     |
| 10) Heptane                   | 4.972 | 43  | 71466  | 2.063 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 55754  | 2.060 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 44761  | 2.012 | ppbv   | 98     |
| 13) Ethanol                   | 1.719 | 45  | 2748m  | 2.741 | ppbv   |        |
| 14) Bromoethene               | 1.780 | 108 | 17323  | 2.033 | ppbv # | 89     |
| 15) Acetone                   | 1.832 | 43  | 55365  | 2.101 | ppbv   | 95     |
| 16) 1,3-Butadiene             | 1.606 | 39  | 22894  | 1.932 | ppbv   | 95     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 66174  | 2.016 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 21103  | 2.029 | ppbv   | 95     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 27804  | 1.870 | ppbv # | 35     |
| 20) Methylene Chloride        | 2.059 | 84  | 20518  | 2.091 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.094 | 41  | 38425  | 2.068 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 23384  | 1.924 | ppbv   | 92     |
| 23) Vinyl Acetate             | 2.460 | 43  | 20736  | 1.894 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 44740  | 2.008 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.832 | 43  | 139516 | 2.040 | ppbv   | 99     |
| 26) Hexane                    | 2.823 | 57  | 52095  | 1.972 | ppbv   | 92     |
| 27) Carbon Disulfide          | 2.146 | 76  | 57969  | 2.047 | ppbv # | 76     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 33703  | 2.049 | ppbv   | 99     |
| 29) Chloroform                | 2.845 | 83  | 78043  | 2.019 | ppbv   | 95     |
| 30) Cyclohexane               | 3.852 | 84  | 45641  | 1.989 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 53713  | 2.003 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 81070  | 1.833 | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43  | 84157  | 2.124 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.758 | 117 | 81735  | 1.944 | ppbv   | 96     |
| 36) Benzene                   | 3.651 | 78  | 110727 | 2.044 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 61476  | 1.982 | ppbv   | 97     |
| 38) Trichloroethene           | 4.541 | 130 | 43501  | 1.924 | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 39912  | 2.023 | ppbv   | 93     |
| 40) 1,4-Dioxane               | 4.587 | 88  | 20884m | 2.040 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.056 | 42  | 47262  | 2.097 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.483 | 83  | 87640  | 2.050 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 44624  | 1.952 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 188282 | 2.057 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.406 | 75  | 49461  | 2.011 | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042173.D  
 Acq On : 27 Mar 2025 08:59  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|-------|-------|----------|-----|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 61829    | 2.050 | ppbv  | #        | 91  |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 41387    | 1.985 | ppbv  |          | 95  |
| 48) Dibromochloromethane      | 7.383  | 129  | 72441    | 2.050 | ppbv  |          | 100 |
| 49) Bromoform                 | 9.477  | 173  | 65221    | 2.056 | ppbv  |          | 98  |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 132328   | 2.107 | ppbv  |          | 99  |
| 51) 2-Hexanone                | 7.435  | 43   | 112681   | 2.162 | ppbv  | #        | 99  |
| 52) Tetrachloroethene         | 8.221  | 164  | 40558    | 1.888 | ppbv  |          | 98  |
| 53) Toluene                   | 6.923  | 91   | 131314   | 2.045 | ppbv  |          | 99  |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 56799    | 1.952 | ppbv  |          | 90  |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 58141    | 2.093 | ppbv  |          | 97  |
| 57) Chlorobenzene             | 8.914  | 112  | 100308   | 2.096 | ppbv  | #        | 94  |
| 58) Ethyl Benzene             | 9.351  | 91   | 191114   | 2.132 | ppbv  |          | 96  |
| 59) m/p-Xylene                | 9.548  | 91   | 299531m  | 4.181 | ppbv  |          |     |
| 60) o-Xylene                  | 9.959  | 91   | 151292   | 2.109 | ppbv  |          | 98  |
| 61) Styrene                   | 9.865  | 104  | 74134    | 2.089 | ppbv  |          | 98  |
| 62) Isopropylbenzene          | 10.535 | 105  | 228191   | 2.127 | ppbv  |          | 99  |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 90114    | 2.067 | ppbv  |          | 99  |
| 64) n-propylbenzene           | 10.985 | 120  | 58105    | 2.104 | ppbv  |          | 92  |
| 65) tert-Butylbenzene         | 11.529 | 119  | 216336   | 2.180 | ppbv  |          | 99  |
| 66) Benzyl Chloride           | 11.610 | 91   | 22272    | 2.116 | ppbv  |          | 95  |
| 67) sec-Butylbenzene          | 11.762 | 105  | 297381   | 2.156 | ppbv  |          | 99  |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 258357   | 2.176 | ppbv  |          | 100 |
| 70) n-Butylbenzene            | 12.277 | 91   | 270616   | 2.228 | ppbv  |          | 99  |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 177487   | 2.132 | ppbv  |          | 100 |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 194660   | 2.179 | ppbv  |          | 99  |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 169221   | 2.169 | ppbv  |          | 96  |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 198351   | 2.207 | ppbv  |          | 96  |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 107217   | 2.175 | ppbv  |          | 97  |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 104925   | 2.139 | ppbv  |          | 99  |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 102310   | 2.132 | ppbv  |          | 99  |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 109539   | 2.242 | ppbv  |          | 99  |
| 79) Naphthalene               | 13.510 | 128  | 233451   | 2.375 | ppbv  |          | 97  |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 117313   | 2.451 | ppbv  |          | 99  |
| 81) 1,2,4-Trichlorobenzene    | 13.435 | 180  | 103765   | 2.288 | ppbv  |          | 97  |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042174.D  
 Acq On : 27 Mar 2025 09:30  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 186244   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 537244   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.879 | 117  | 499830   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95    | 404753   | 9.861    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.600% |

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 28203  | 1.026 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 28693  | 1.021 | ppbv   | 94     |
| 4) Chloromethane              | 1.531 | 50  | 11111  | 0.989 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.577 | 62  | 10723  | 0.936 | ppbv   | 98     |
| 6) Bromomethane               | 1.667 | 94  | 4984   | 0.979 | ppbv   | 97     |
| 7) Chloroethane               | 1.703 | 64  | 4622   | 1.025 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 23886  | 1.020 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 13699m | 1.082 | ppbv   |        |
| 10) Heptane                   | 4.975 | 43  | 36132  | 1.055 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.875 | 101 | 27136  | 1.014 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 22629  | 1.029 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 1610m  | 1.624 | ppbv   |        |
| 14) Bromoethene               | 1.781 | 108 | 8330   | 0.989 | ppbv # | 82     |
| 15) Acetone                   | 1.836 | 43  | 29294  | 1.125 | ppbv   | 95     |
| 16) 1,3-Butadiene             | 1.606 | 39  | 13133  | 1.121 | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 33500  | 1.033 | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 10532  | 1.024 | ppbv   | 89     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 14903  | 1.014 | ppbv # | 38     |
| 20) Methylene Chloride        | 2.059 | 84  | 10481  | 1.080 | ppbv   | 93     |
| 21) Allyl Chloride            | 2.095 | 41  | 19039  | 1.036 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 13051m | 1.086 | ppbv   |        |
| 23) Vinyl Acetate             | 2.464 | 43  | 12883m | 1.190 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 22505  | 1.022 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.836 | 43  | 67402  | 0.997 | ppbv # | 96     |
| 26) Hexane                    | 2.823 | 57  | 27223  | 1.043 | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.146 | 76  | 28167  | 1.006 | ppbv # | 47     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 16501  | 1.015 | ppbv   | 95     |
| 29) Chloroform                | 2.845 | 83  | 38516  | 1.008 | ppbv   | 96     |
| 30) Cyclohexane               | 3.852 | 84  | 23052  | 1.016 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 27187  | 1.026 | ppbv   | 89     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 40993  | 0.938 | ppbv   | 99     |
| 34) 2-Butanone                | 2.557 | 43  | 41423  | 1.063 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.758 | 117 | 39345  | 0.952 | ppbv   | 93     |
| 36) Benzene                   | 3.651 | 78  | 55156  | 1.036 | ppbv   | 94     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 30543  | 1.002 | ppbv   | 98     |
| 38) Trichloroethene           | 4.545 | 130 | 21906  | 0.985 | ppbv   | 93     |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 20020  | 1.032 | ppbv   | 99     |
| 40) 1,4-Dioxane               | 4.593 | 88  | 10592m | 1.052 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.056 | 42  | 22818  | 1.029 | ppbv   | 97     |
| 42) Bromodichloromethane      | 4.483 | 83  | 41864  | 0.996 | ppbv   | 90     |
| 43) Methyl Methacrylate       | 4.875 | 69  | 24233m | 1.078 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 90727  | 1.008 | ppbv   | 96     |
| 45) t-1,3-Dichloropropene     | 6.403 | 75  | 23993m | 0.992 | ppbv   |        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042174.D  
 Acq On : 27 Mar 2025 09:30  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 30063    | 1.014 | ppbv   | 93       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 20546    | 1.002 | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.383  | 129  | 34425    | 0.991 | ppbv   | 100      |
| 49) Bromoform                 | 9.481  | 173  | 31610    | 1.013 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 65226m   | 1.056 | ppbv   |          |
| 51) 2-Hexanone                | 7.438  | 43   | 54680    | 1.067 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.222  | 164  | 19415    | 0.919 | ppbv   | 95       |
| 53) Toluene                   | 6.927  | 91   | 64612    | 1.023 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 28879    | 1.009 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 28764    | 1.045 | ppbv # | 87       |
| 57) Chlorobenzene             | 8.917  | 112  | 48930    | 1.032 | ppbv   | 93       |
| 58) Ethyl Benzene             | 9.348  | 91   | 91086    | 1.026 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.529  | 91   | 147162m  | 2.073 | ppbv   |          |
| 60) o-Xylene                  | 9.960  | 91   | 73702    | 1.037 | ppbv   | 96       |
| 61) Styrene                   | 9.866  | 104  | 36110    | 1.027 | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.536 | 105  | 109897   | 1.034 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.960  | 83   | 44431    | 1.029 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.986 | 120  | 29054    | 1.062 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.526 | 119  | 103520   | 1.053 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.614 | 91   | 10660    | 1.022 | ppbv # | 93       |
| 67) sec-Butylbenzene          | 11.762 | 105  | 149660   | 1.095 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 127509   | 1.084 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 129860   | 1.079 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 86356    | 1.047 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.122 | 105  | 92912    | 1.050 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 83497    | 1.080 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 11.533 | 105  | 97858    | 1.099 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 51096    | 1.046 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.669 | 146  | 50841    | 1.046 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.944 | 146  | 51523    | 1.084 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 55611    | 1.149 | ppbv   | 97       |
| 79) Naphthalene               | 13.510 | 128  | 109031   | 1.120 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 44518    | 0.939 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.436 | 180  | 47040    | 1.047 | ppbv   | 98       |

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



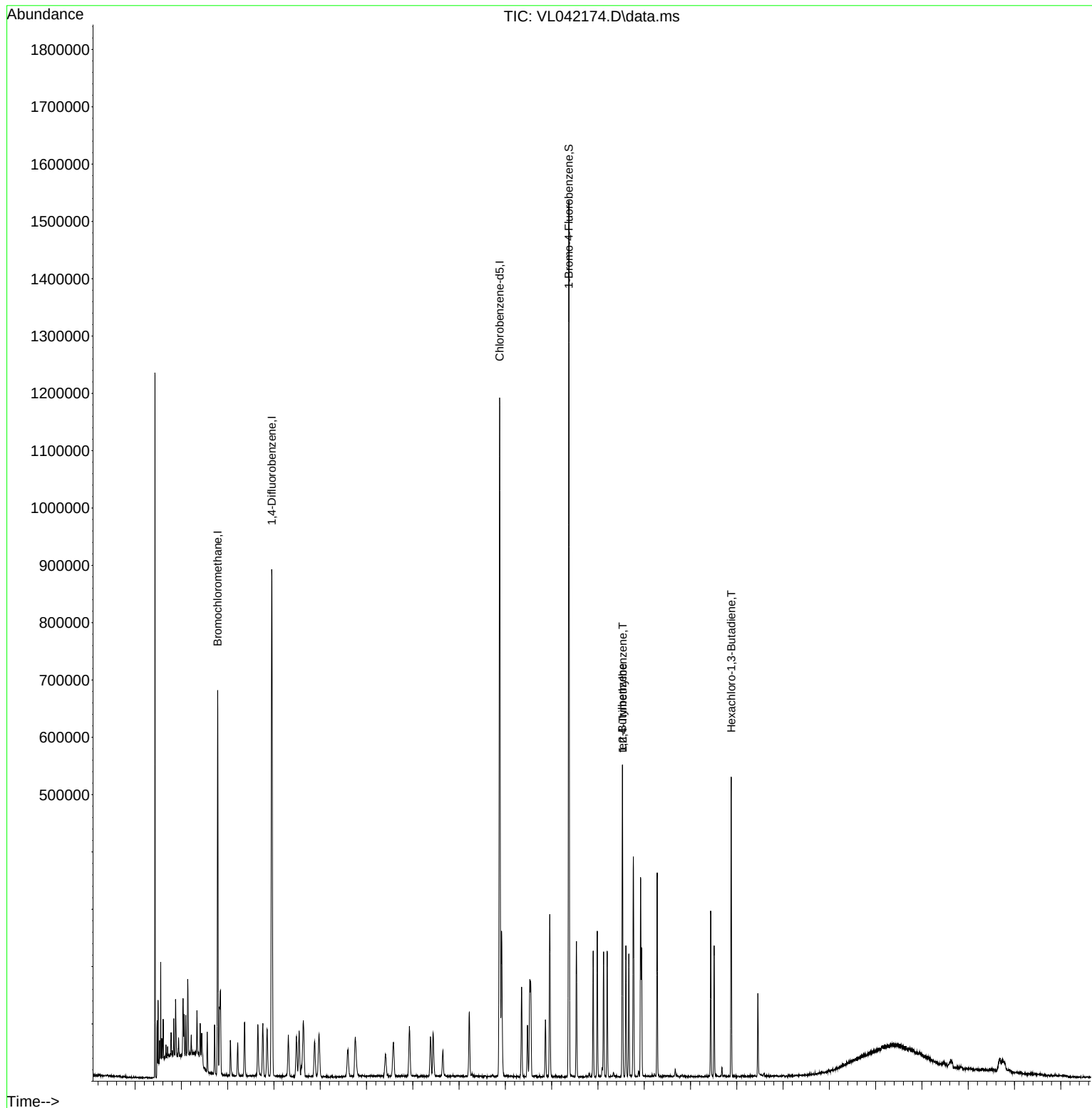
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042174.D  
Acq On : 27 Mar 2025 09:30  
Operator : SY/MD  
Sample : VSTDIC001  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042175.D  
 Acq On : 27 Mar 2025 10:01  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 180502   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 523832   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 485078   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

|                               |       |     |        |       | Qvalue |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 14455  | 0.542 | ppbv   | 95  |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 14637  | 0.538 | ppbv # | 89  |
| 4) Chloromethane              | 1.531 | 50  | 5956   | 0.547 | ppbv   | 94  |
| 5) Vinyl Chloride             | 1.577 | 62  | 5732   | 0.516 | ppbv   | 92  |
| 6) Bromomethane               | 1.664 | 94  | 2949   | 0.597 | ppbv   | 95  |
| 7) Chloroethane               | 1.703 | 64  | 2582   | 0.591 | ppbv # | 87  |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 11783  | 0.519 | ppbv   | 98  |
| 9) Propene                    | 1.483 | 41  | 6622m  | 0.540 | ppbv   |     |
| 10) Heptane                   | 4.972 | 43  | 16673  | 0.502 | ppbv   | 89  |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 14099  | 0.544 | ppbv   | 92  |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 11252  | 0.528 | ppbv   | 99  |
| 13) Ethanol                   | 1.722 | 45  | 997    | 1.038 | ppbv # | 36  |
| 14) Bromoethene               | 1.780 | 108 | 4770   | 0.584 | ppbv # | 86  |
| 15) Acetone                   | 1.835 | 43  | 15331  | 0.607 | ppbv # | 85  |
| 16) 1,3-Butadiene             | 1.606 | 39  | 8594   | 0.757 | ppbv   | 82  |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 17467  | 0.556 | ppbv   | 97  |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 5634   | 0.565 | ppbv # | 92  |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 9171   | 0.644 | ppbv # | 39  |
| 20) Methylene Chloride        | 2.059 | 84  | 5634   | 0.599 | ppbv # | 93  |
| 21) Allyl Chloride            | 2.091 | 41  | 9632   | 0.541 | ppbv   | 89  |
| 22) trans-1,2-Dichloroethene  | 2.334 | 96  | 6353   | 0.546 | ppbv   | 83  |
| 23) Vinyl Acetate             | 2.457 | 43  | 6809   | 0.649 | ppbv # | 91  |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 11258  | 0.527 | ppbv   | 97  |
| 25) Ethyl Acetate             | 2.836 | 43  | 36258  | 0.553 | ppbv   | 98  |
| 26) Hexane                    | 2.823 | 57  | 13605  | 0.538 | ppbv   | 92  |
| 27) Carbon Disulfide          | 2.146 | 76  | 14510  | 0.535 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 8310   | 0.527 | ppbv # | 89  |
| 29) Chloroform                | 2.845 | 83  | 20149  | 0.544 | ppbv   | 98  |
| 30) Cyclohexane               | 3.852 | 84  | 12063m | 0.549 | ppbv   |     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 13601  | 0.529 | ppbv   | 92  |
| 32) 1,1,1-Trichloroethane     | 3.360 | 97  | 20567  | 0.485 | ppbv   | 100 |
| 34) 2-Butanone                | 2.557 | 43  | 19739  | 0.520 | ppbv   | 96  |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 18558  | 0.460 | ppbv   | 93  |
| 36) Benzene                   | 3.651 | 78  | 27488  | 0.529 | ppbv # | 87  |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 16062  | 0.540 | ppbv   | 100 |
| 38) Trichloroethene           | 4.538 | 130 | 11460m | 0.529 | ppbv   |     |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 10123  | 0.535 | ppbv   | 92  |
| 40) 1,4-Dioxane               | 4.593 | 88  | 6121m  | 0.624 | ppbv   |     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 11509m | 0.533 | ppbv   |     |
| 42) Bromodichloromethane      | 4.483 | 83  | 20374  | 0.497 | ppbv # | 98  |
| 43) Methyl Methacrylate       | 4.875 | 69  | 11583m | 0.528 | ppbv   |     |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57  | 46646  | 0.532 | ppbv   | 95  |
| 45) t-1,3-Dichloropropene     | 6.406 | 75  | 12404  | 0.526 | ppbv # | 79  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042175.D  
 Acq On : 27 Mar 2025 10:01  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 14374m   | 0.497 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 10972m   | 0.549 | ppbv   |          |
| 48) Dibromochloromethane      | 7.380  | 129  | 17042    | 0.503 | ppbv   | 99       |
| 49) Bromoform                 | 9.480  | 173  | 14828    | 0.487 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 33674    | 0.559 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.438  | 43   | 26154    | 0.523 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.218  | 164  | 10502    | 0.510 | ppbv   | 94       |
| 53) Toluene                   | 6.923  | 91   | 32444    | 0.527 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 14220    | 0.510 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 13959    | 0.523 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.914  | 112  | 24826    | 0.540 | ppbv # | 91       |
| 58) Ethyl Benzene             | 9.348  | 91   | 44862    | 0.521 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.542  | 91   | 73028m   | 1.060 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 36879    | 0.535 | ppbv   | 98       |
| 61) Styrene                   | 9.866  | 104  | 17198    | 0.504 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.536 | 105  | 55531    | 0.538 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 21989    | 0.525 | ppbv   | 96       |
| 64) n-propylbenzene           | 10.985 | 120  | 14030    | 0.528 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 11.526 | 119  | 53115    | 0.557 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.613 | 91   | 5263     | 0.520 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.762 | 105  | 72879    | 0.550 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 61933    | 0.542 | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.277 | 91   | 61507    | 0.527 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.895 | 91   | 41637    | 0.520 | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 44473    | 0.518 | ppbv # | 94       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 39190    | 0.523 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 48370    | 0.560 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.600 | 146  | 25122    | 0.530 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 24991    | 0.530 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 24548    | 0.532 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 25636    | 0.546 | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 47990    | 0.508 | ppbv   | 95       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 17486    | 0.380 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.436 | 180  | 19924    | 0.457 | ppbv   | 97       |

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

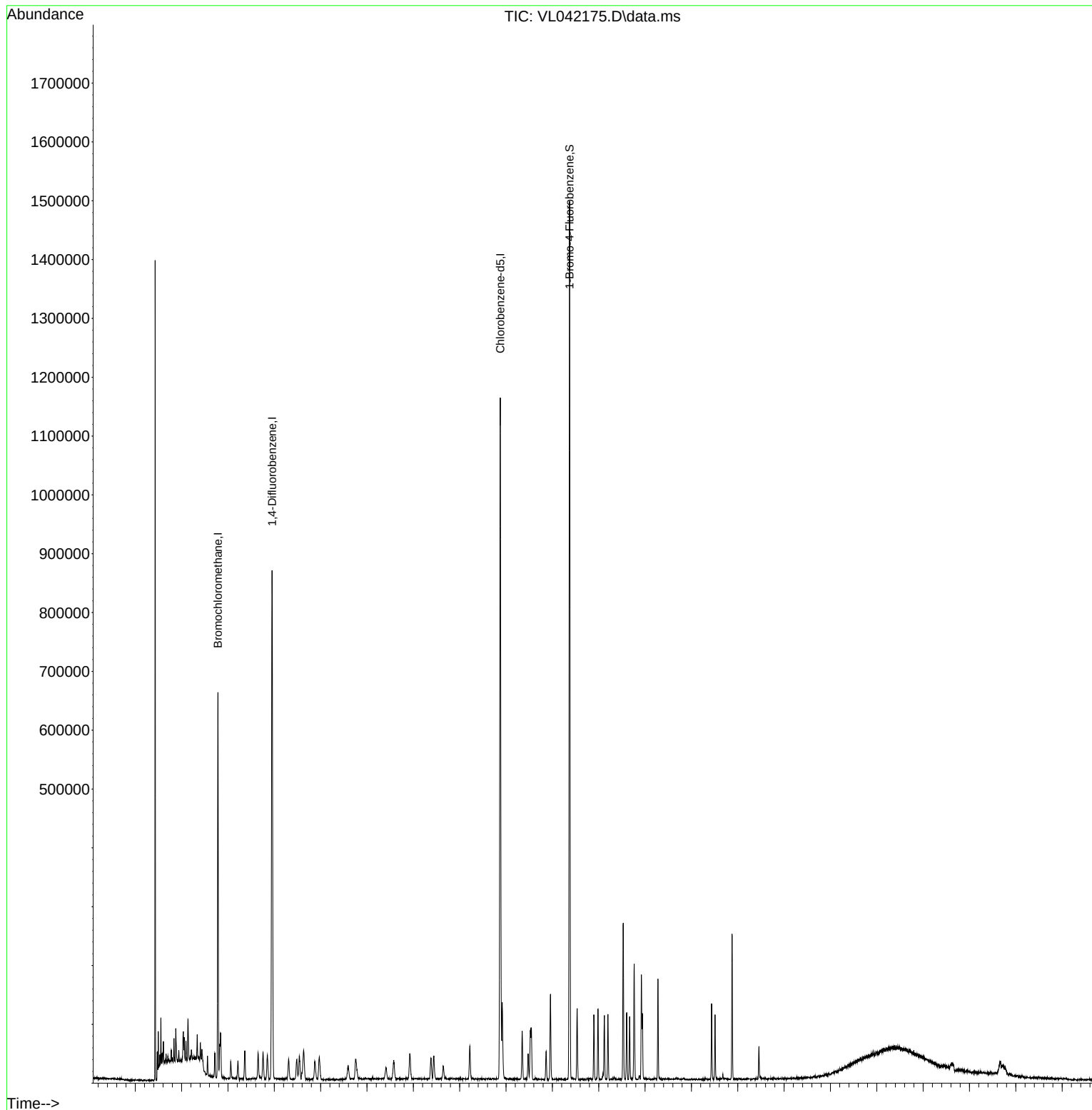
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042175.D  
Acq On : 27 Mar 2025 10:01  
Operator : SY/MD  
Sample : VSTDICC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042176.D  
 Acq On : 27 Mar 2025 10:32  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 180740   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 528028   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 481506   | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 398069   | 10.067   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 100.700% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 1274     | 0.115    | ppbv # | 42       |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 4509m    | 0.106    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 4131m    | 0.102    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 2306m    | 0.106    | ppbv   |          |
| 52) Tetrachloroethene         | 8.225  | 164   | 1895m    | 0.091    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.652  | 107   | 3033m    | 0.108    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 3852m    | 0.093    | ppbv   |          |
| 79) Naphthalene               | 13.513 | 128   | 7882     | 0.084    | ppbv # | 92       |
| -----                         |        |       |          |          |        |          |

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

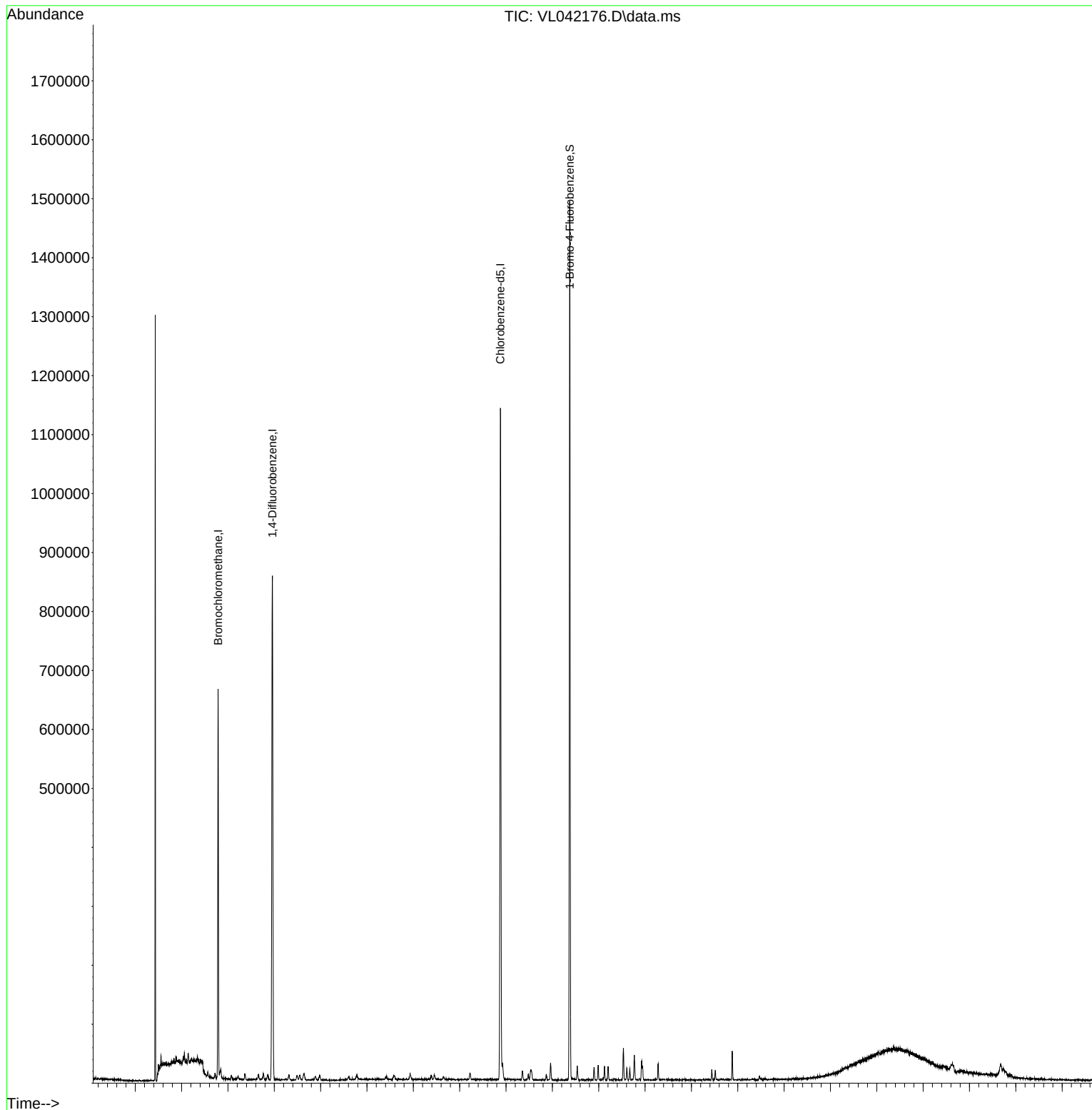
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042176.D  
Acq On : 27 Mar 2025 10:32  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042177.D  
 Acq On : 27 Mar 2025 11:03  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 178058   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.955  | 114   | 512915   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 475617   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 389935   | 9.983    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 471m     | 0.043    | ppbv   |          |
| 32) 1,1,1-Trichloroethane     | 3.366  | 97    | 1683m    | 0.040    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.758  | 117   | 1645m    | 0.042    | ppbv   |          |
| 38) Trichloroethene           | 4.541  | 130   | 712m     | 0.034    | ppbv   |          |
| 52) Tetrachloroethene         | 8.208  | 164   | 880m     | 0.044    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83    | 1407m    | 0.034    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

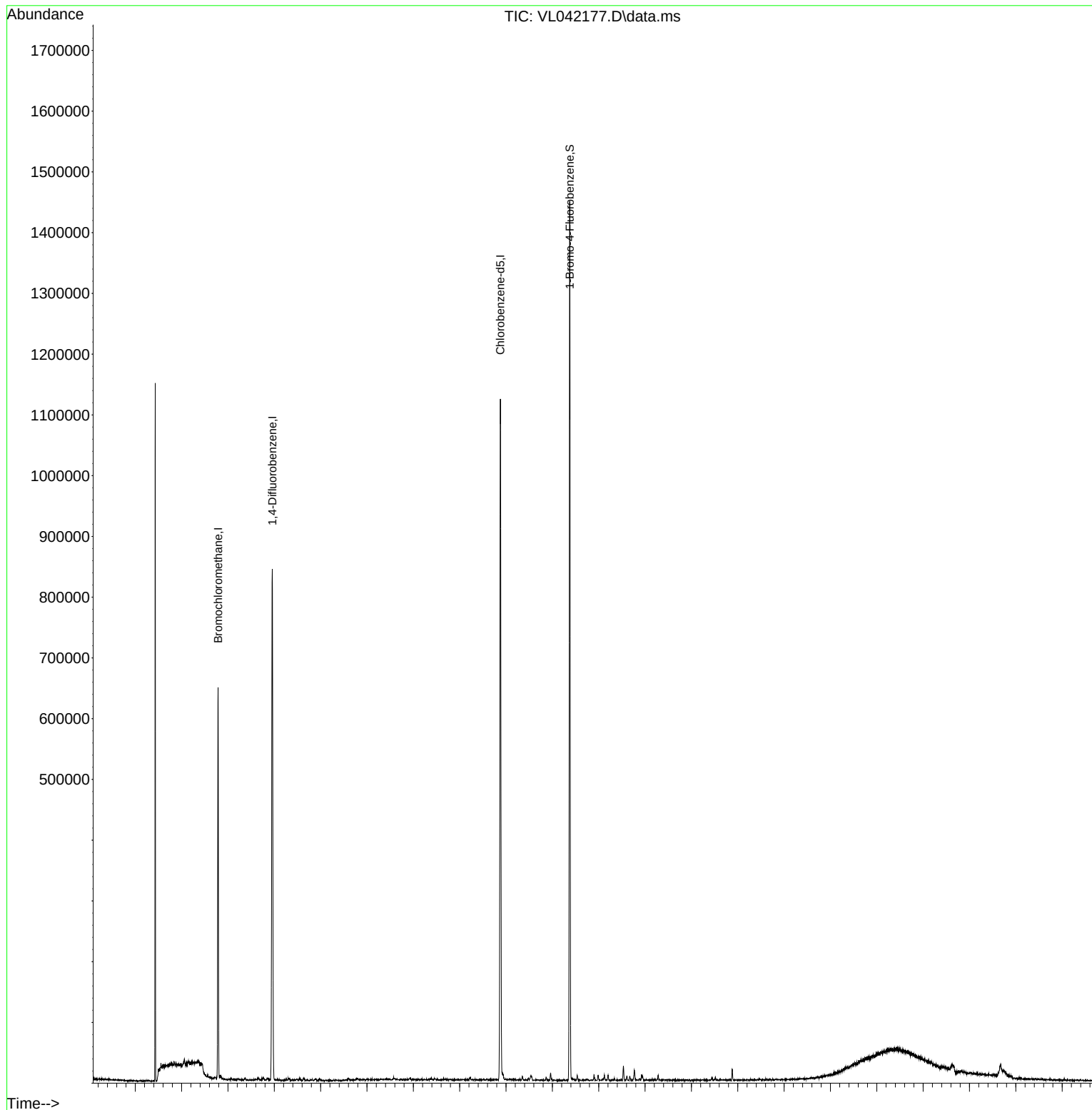
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042177.D  
Acq On : 27 Mar 2025 11:03  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042178.D  
 Acq On : 27 Mar 2025 11:36  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Mar 28 01:37:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Mar 28 01:31:23 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.784  | 49    | 173372   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.952  | 114   | 499360   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.878  | 117   | 473077   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.374 | 95    | 387777   | 9.981    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.495  | 85    | 358962   | 14.023   | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.473  | 51    | 366164   | 14.002   | ppbv   | 98       |
| 4) Chloromethane              | 1.531  | 50    | 148133   | 14.160   | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.576  | 62    | 141938   | 13.304   | ppbv   | 97       |
| 6) Bromomethane               | 1.667  | 94    | 65113    | 13.734   | ppbv   | 99       |
| 7) Chloroethane               | 1.703  | 64    | 58820    | 14.007   | ppbv   | 99       |
| 8) Dichlorotetrafluoroethane  | 1.550  | 85    | 314834   | 14.442   | ppbv   | 98       |
| 9) Propene                    | 1.482  | 41    | 163799   | 13.902   | ppbv   | 95       |
| 10) Heptane                   | 4.972  | 43    | 446949   | 14.019   | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.874  | 101   | 349967   | 14.050   | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.136  | 101   | 295217   | 14.419   | ppbv   | 99       |
| 13) Ethanol                   | 1.719  | 45    | 7382     | 8.001    | ppbv   | 92       |
| 14) Bromoethene               | 1.780  | 108   | 106436   | 13.571   | ppbv   | 98       |
| 15) Acetone                   | 1.832  | 43    | 296254   | 12.218   | ppbv   | 98       |
| 16) 1,3-Butadiene             | 1.605  | 39    | 150122   | 13.766   | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 416362   | 13.787   | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 2.029  | 96    | 131720   | 13.762   | ppbv   | 99       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 179117   | 13.093   | ppbv   | 100      |
| 20) Methylene Chloride        | 2.059  | 84    | 113183   | 12.533   | ppbv   | 95       |
| 21) Allyl Chloride            | 2.094  | 41    | 239440   | 14.002   | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.337  | 96    | 149455   | 13.362   | ppbv   | 98       |
| 23) Vinyl Acetate             | 2.460  | 43    | 138419   | 13.736   | ppbv # | 96       |
| 24) 1,1-Dichloroethane        | 2.405  | 63    | 298760   | 14.570   | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.832  | 43    | 871882   | 13.855   | ppbv   | 100      |
| 26) Hexane                    | 2.822  | 57    | 344636   | 14.178   | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.146  | 76    | 370022   | 14.196   | ppbv   | 97       |
| 28) Methyl tert-Butyl Ether   | 2.437  | 73    | 216463   | 14.303   | ppbv   | 95       |
| 29) Chloroform                | 2.845  | 83    | 508614   | 14.297   | ppbv   | 100      |
| 30) Cyclohexane               | 3.852  | 84    | 296458   | 14.040   | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 351945   | 14.262   | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.363  | 97    | 547329   | 13.448   | ppbv   | 99       |
| 34) 2-Butanone                | 2.554  | 43    | 497020   | 13.726   | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.758  | 117   | 543385   | 14.140   | ppbv   | 100      |
| 36) Benzene                   | 3.651  | 78    | 699549   | 14.131   | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.214  | 62    | 416544   | 14.697   | ppbv   | 99       |
| 38) Trichloroethene           | 4.541  | 130   | 283430   | 13.715   | ppbv   | 98       |
| 39) 1,2-Dichloropropane       | 4.308  | 63    | 257891   | 14.304   | ppbv   | 99       |
| 40) 1,4-Dioxane               | 4.577  | 88    | 124925   | 13.354   | ppbv # | 91       |
| 41) Tetrahydrofuran           | 3.049  | 42    | 294634   | 14.301   | ppbv   | 100      |
| 42) Bromodichloromethane      | 4.483  | 83    | 587772   | 15.043   | ppbv   | 99       |
| 43) Methyl Methacrylate       | 4.874  | 69    | 295300   | 14.130   | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.635  | 57    | 1180275  | 14.108   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.405  | 75    | 329360   | 14.649   | ppbv   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042178.D  
 Acq On : 27 Mar 2025 11:36  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Manual Integrations  
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 400813   | 14.542 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 273137   | 14.331 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.383  | 129  | 482431   | 14.936 | ppbv   | 100      |
| 49) Bromoform                 | 9.480  | 173  | 427143   | 14.730 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.745  | 43   | 755146   | 13.155 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.431  | 43   | 619419   | 13.005 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.221  | 164  | 258356   | 13.159 | ppbv   | 95       |
| 53) Toluene                   | 6.926  | 91   | 829648   | 14.137 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 381823   | 14.359 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 365410   | 14.032 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.917  | 112  | 618201   | 13.777 | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.351  | 91   | 1167096  | 13.889 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.548  | 91   | 1857561m | 27.651 | ppbv   |          |
| 60) o-Xylene                  | 9.962  | 91   | 913234   | 13.577 | ppbv   | 99       |
| 61) Styrene                   | 9.865  | 104  | 474195   | 14.250 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.535 | 105  | 1362416  | 13.544 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 551386   | 13.491 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 356118   | 13.753 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 1200149  | 12.901 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 134397   | 13.615 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.765 | 105  | 1643629  | 12.711 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 1437016  | 12.906 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 1477443  | 12.975 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 1071432  | 13.724 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 1136415  | 13.569 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 979783   | 13.395 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.535 | 105  | 1048874  | 12.447 | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 626015   | 13.545 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 628694   | 13.668 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 602844   | 13.396 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 556392   | 12.147 | ppbv   | 99       |
| 79) Naphthalene               | 13.513 | 128  | 1258479  | 13.653 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 718900   | 16.018 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 598416   | 14.075 | ppbv   | 99       |

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

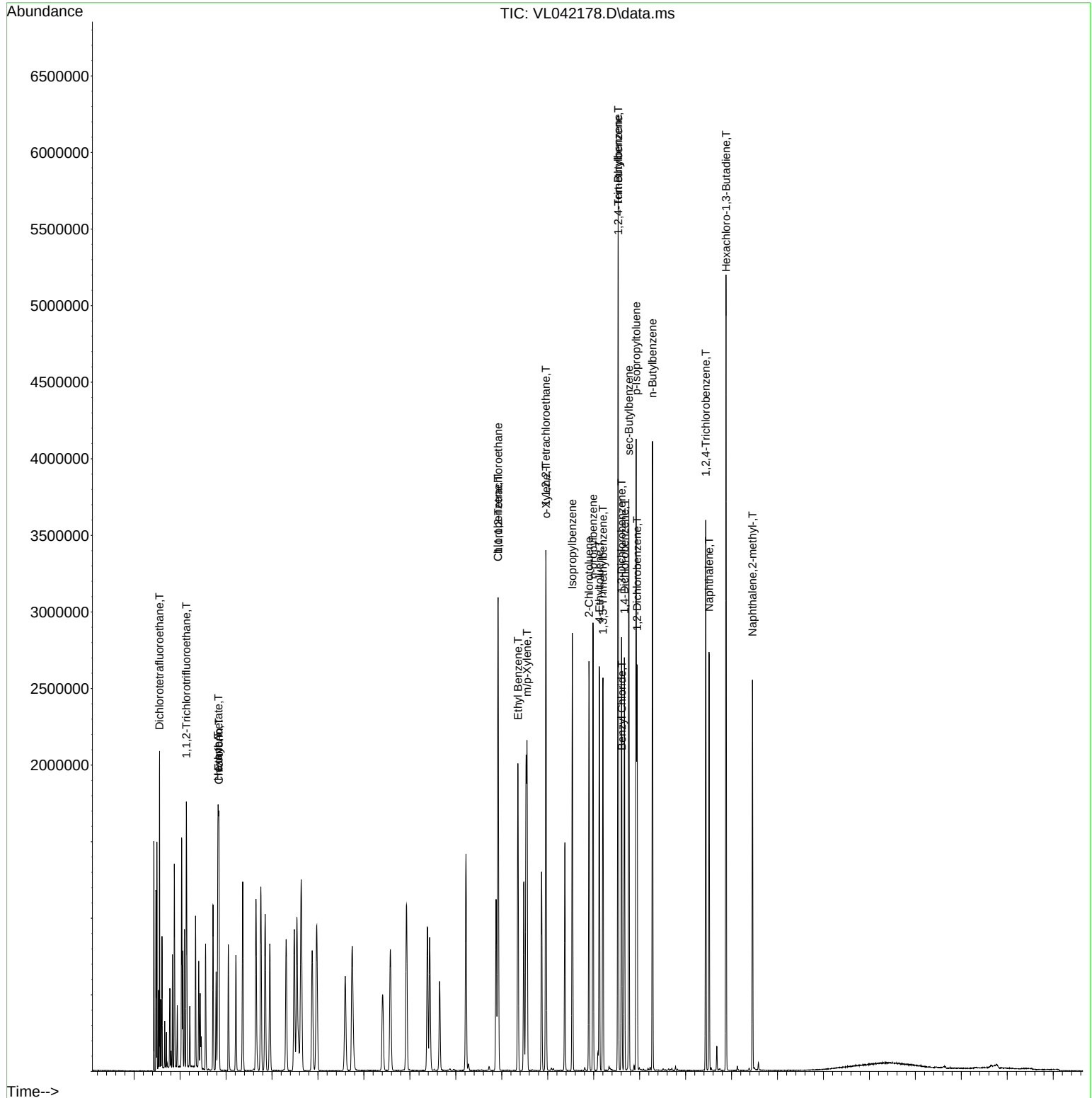
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042178.D  
Acq On : 27 Mar 2025 11:36  
Operator : SY/MD  
Sample : VSTDIC015  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:37:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 01:31:23 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042179.D  
 Acq On : 27 Mar 2025 12:23  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL032725

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 174350   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 498105   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 473357   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 379929   | 9.774    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.700% |

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 245714 | 9.545 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 247046 | 9.394 | ppbv   | 97     |
| 4) Chloromethane              | 1.531 | 50  | 98527  | 9.365 | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.577 | 62  | 95578  | 8.573 | ppbv   | 97     |
| 6) Bromomethane               | 1.667 | 94  | 41950  | 8.799 | ppbv   | 97     |
| 7) Chloroethane               | 1.703 | 64  | 37400  | 8.856 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 213819 | 9.753 | ppbv   | 95     |
| 9) Propene                    | 1.483 | 41  | 105338 | 8.739 | ppbv   | 99     |
| 10) Heptane                   | 4.972 | 43  | 298768 | 9.318 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 236793 | 9.453 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 193965 | 9.421 | ppbv   | 98     |
| 13) Ethanol                   | 1.719 | 45  | 5773   | 5.066 | ppbv   | 97     |
| 14) Bromoethene               | 1.780 | 108 | 73572  | 9.328 | ppbv   | 97     |
| 15) Acetone                   | 1.832 | 43  | 198300 | 8.132 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.606 | 39  | 97840  | 8.216 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 276195 | 9.094 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 87137  | 9.053 | ppbv   | 89     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 122768 | 8.923 | ppbv   | 98     |
| 20) Methylene Chloride        | 2.059 | 84  | 72813  | 8.018 | ppbv   | 97     |
| 21) Allyl Chloride            | 2.094 | 41  | 157418 | 9.154 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 101141 | 9.092 | ppbv   | 93     |
| 23) Vinyl Acetate             | 2.460 | 43  | 90260  | 8.553 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 197968 | 9.600 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.832 | 43  | 592585 | 9.364 | ppbv   | 99     |
| 26) Hexane                    | 2.823 | 57  | 231125 | 9.455 | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.146 | 76  | 248834 | 9.493 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 146470 | 9.624 | ppbv   | 95     |
| 29) Chloroform                | 2.845 | 83  | 344106 | 9.619 | ppbv   | 100    |
| 30) Cyclohexane               | 3.852 | 84  | 197897 | 9.323 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 234487 | 9.449 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 365364 | 8.921 | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43  | 331236 | 9.171 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.758 | 117 | 363392 | 9.339 | ppbv   | 98     |
| 36) Benzene                   | 3.651 | 78  | 461261 | 9.341 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 273559 | 9.676 | ppbv   | 99     |
| 38) Trichloroethene           | 4.541 | 130 | 191746 | 9.306 | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 170839 | 9.500 | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.577 | 88  | 80592  | 8.443 | ppbv # | 97     |
| 41) Tetrahydrofuran           | 3.052 | 42  | 196163 | 9.431 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.486 | 83  | 384006 | 9.853 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.878 | 69  | 195339 | 9.344 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 787400 | 9.436 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 212335 | 9.467 | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042179.D  
 Acq On : 27 Mar 2025 12:23  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL032725

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025  
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 265101   | 9.643  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 183228   | 9.638  | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.383  | 129  | 322766   | 10.018 | ppbv   | 100      |
| 49) Bromoform                 | 9.480  | 173  | 285149   | 9.858  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.749  | 43   | 500791   | 8.749  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.432  | 43   | 410889   | 8.741  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.221  | 164  | 173420   | 8.855  | ppbv   | 93       |
| 53) Toluene                   | 6.927  | 91   | 556897   | 9.514  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 256930   | 9.695  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 249270   | 9.567  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.917  | 112  | 422531   | 9.411  | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.351  | 91   | 791360   | 9.412  | ppbv   | 98       |
| 59) m/p-Xylene                | 9.548  | 91   | 1260340m | 18.772 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 632918   | 9.404  | ppbv   | 99       |
| 61) Styrene                   | 9.866  | 104  | 315910   | 9.488  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 944938   | 9.388  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 382635   | 9.357  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 244547   | 9.439  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 843828   | 9.065  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 86804    | 8.789  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 1172636  | 9.063  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 1019694  | 9.153  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.280 | 91   | 1038548  | 9.115  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 732874   | 9.382  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 785185   | 9.370  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 673541   | 9.203  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 729155   | 8.648  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 426573   | 9.224  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 426318   | 9.263  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 412180   | 9.154  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 356386   | 7.776  | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 773311   | 8.385  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 323443   | 7.151  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 363863   | 8.553  | ppbv   | 98       |

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

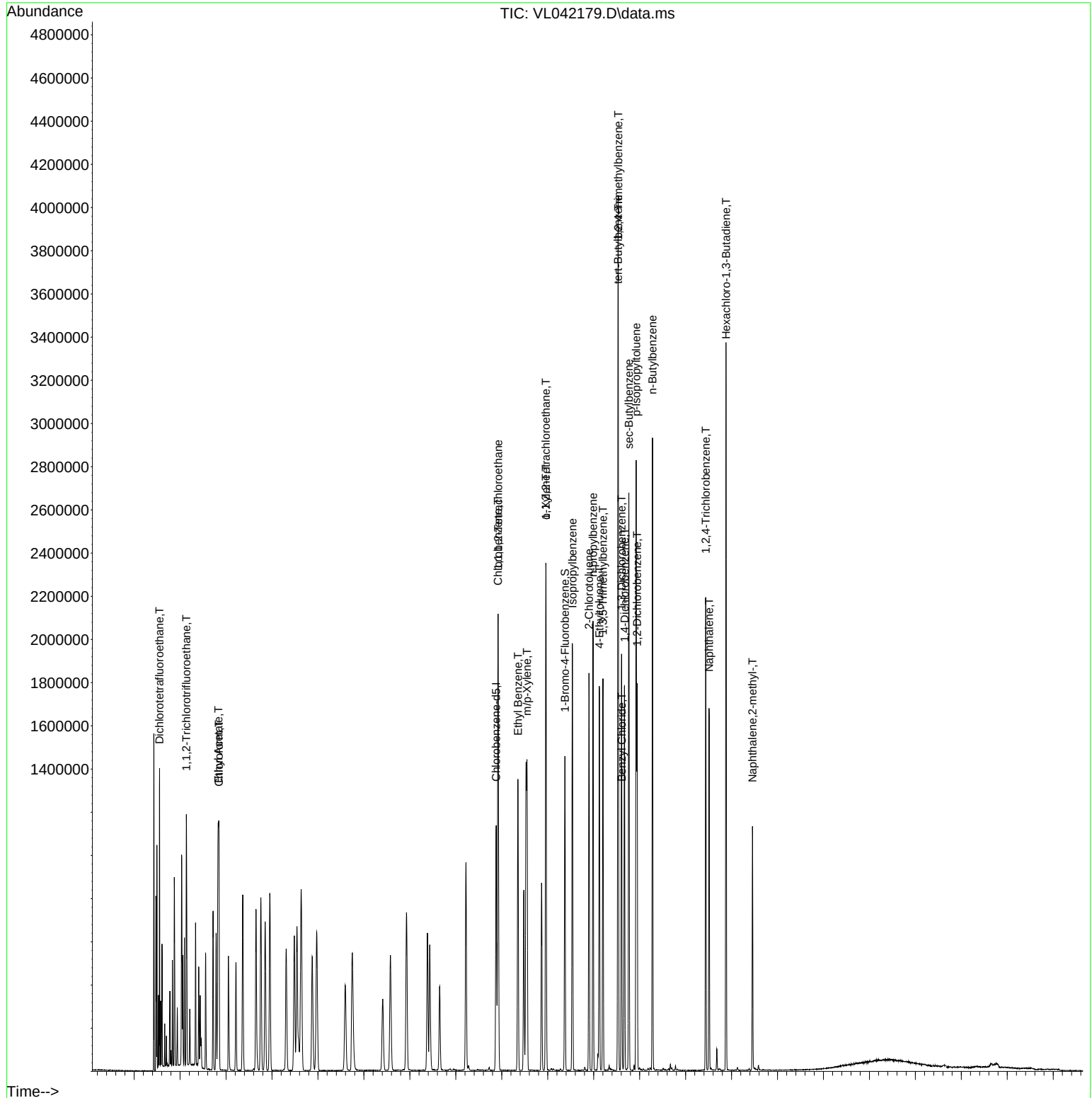
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
Data File : VL042179.D  
Acq On : 27 Mar 2025 12:23  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL032725

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025  
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042179.D  
 Acq On : 27 Mar 2025 12:23  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 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   | 93    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.476 | 1.409  | 4.5   | 94    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.508 | 1.417  | 6.0   | 91    | 0.00     |
| 4    | Chloromethane               | 0.603 | 0.565  | 6.3   | 92    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.639 | 0.548  | 14.2  | 93    | 0.00     |
| 6 T  | Bromomethane                | 0.273 | 0.241  | 11.7  | 87    | 0.00     |
| 7    | Chloroethane                | 0.242 | 0.215  | 11.2  | 88    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.257 | 1.226  | 2.5   | 94    | 0.00     |
| 9 T  | Propene                     | 0.691 | 0.604  | 12.6  | 85    | 0.00     |
| 10 T | Heptane                     | 1.839 | 1.714  | 6.8   | 89    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.437 | 1.358  | 5.5   | 95    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 1.113  | 5.8   | 93    | 0.00     |
| 13   | Ethanol                     | 0.065 | 0.033# | 49.2# | 108   | 0.00     |
| 14 T | Bromoethene                 | 0.452 | 0.422  | 6.6   | 94    | 0.00     |
| 15 T | Acetone                     | 1.399 | 1.137  | 18.7  | 95    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.683 | 0.561  | 17.9  | 91    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.742 | 1.584  | 9.1   | 91    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.552 | 0.500  | 9.4   | 92    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.789 | 0.704  | 10.8  | 93    | 0.00     |
| 20 T | Methylene Chloride          | 0.521 | 0.418  | 19.8  | 89    | 0.00     |
| 21 T | Allyl Chloride              | 0.986 | 0.903  | 8.4   | 93    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.638 | 0.580  | 9.1   | 92    | 0.00     |
| 23 T | Vinyl Acetate               | 0.605 | 0.518  | 14.4  | 97    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.183 | 1.135  | 4.1   | 94    | 0.00     |
| 25 T | Ethyl Acetate               | 3.630 | 3.399  | 6.4   | 92    | 0.00     |
| 26 T | Hexane                      | 1.402 | 1.326  | 5.4   | 93    | 0.00     |
| 27 T | Carbon Disulfide            | 1.503 | 1.427  | 5.1   | 93    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.873 | 0.840  | 3.8   | 94    | 0.00     |
| 29 T | Chloroform                  | 2.052 | 1.974  | 3.8   | 95    | 0.00     |
| 30 T | Cyclohexane                 | 1.217 | 1.135  | 6.7   | 91    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.423 | 1.345  | 5.5   | 91    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.349 | 2.096  | 10.8  | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 91    | 0.00     |
| 34 T | 2-Butanone                  | 0.725 | 0.665  | 8.3   | 91    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.781 | 0.730  | 6.5   | 95    | 0.00     |
| 36 T | Benzene                     | 0.991 | 0.926  | 6.6   | 91    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.568 | 0.549  | 3.3   | 93    | 0.00     |
| 38 T | Trichloroethene             | 0.414 | 0.385  | 7.0   | 94    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.361 | 0.343  | 5.0   | 93    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.192 | 0.162  | 15.6  | 87    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.418 | 0.394  | 5.7   | 90    | 0.00     |
| 42 T | Bromodichloromethane        | 0.782 | 0.771  | 1.4   | 92    | 0.00     |
| 43   | Methyl Methacrylate         | 0.420 | 0.392  | 6.7   | 89    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.675 | 1.581  | 5.6   | 90    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.450 | 0.426  | 5.3   | 89    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.552 | 0.532  | 3.6   | 88    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.382 | 0.368  | 3.7   | 92    | 0.00     |
| 48 T | Dibromochloromethane        | 0.647 | 0.648  | -0.2  | 93    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032725\  
 Data File : VL042179.D  
 Acq On : 27 Mar 2025 12:23  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 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                 | 0.581 | 0.572 | 1.5  | 90    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.149 | 1.005 | 12.5 | 89    | 0.00     |
| 51 T | 2-Hexanone                | 0.944 | 0.825 | 12.6 | 89    | 0.00     |
| 52 T | Tetrachloroethene         | 0.393 | 0.348 | 11.5 | 93    | 0.00     |
| 53 T | Toluene                   | 1.175 | 1.118 | 4.9  | 91    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.532 | 0.516 | 3.0  | 93    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.550 | 0.527 | 4.2  | 94    | 0.00     |
| 57 T | Chlorobenzene             | 0.949 | 0.893 | 5.9  | 93    | 0.00     |
| 58 T | Ethyl Benzene             | 1.776 | 1.672 | 5.9  | 91    | 0.00     |
| 59 T | m/p-Xylene                | 1.418 | 1.331 | 6.1  | 92    | 0.00     |
| 60 T | o-Xylene                  | 1.422 | 1.337 | 6.0  | 92    | 0.00     |
| 61 T | Styrene                   | 0.703 | 0.667 | 5.1  | 89    | 0.00     |
| 62   | Isopropylbenzene          | 2.126 | 1.996 | 6.1  | 93    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.864 | 0.808 | 6.5  | 93    | 0.00     |
| 64   | n-propylbenzene           | 0.547 | 0.517 | 5.5  | 94    | 0.00     |
| 65   | tert-Butylbenzene         | 1.966 | 1.783 | 9.3  | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 0.209 | 0.183 | 12.4 | 82    | 0.00     |
| 67   | sec-Butylbenzene          | 2.733 | 2.477 | 9.4  | 94    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.821 | 0.803 | 2.2  | 90    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.354 | 2.154 | 8.5  | 94    | 0.00     |
| 70   | n-Butylbenzene            | 2.407 | 2.194 | 8.8  | 94    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.650 | 1.548 | 6.2  | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.770 | 1.659 | 6.3  | 93    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.546 | 1.423 | 8.0  | 93    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.781 | 1.540 | 13.5 | 93    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.977 | 0.901 | 7.8  | 93    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.972 | 0.901 | 7.3  | 92    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.951 | 0.871 | 8.4  | 93    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.968 | 0.753 | 22.2 | 86    | 0.00     |
| 79 T | Naphthalene               | 1.948 | 1.634 | 16.1 | 82    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.955 | 0.683 | 28.5 | 63    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.899 | 0.769 | 14.5 | 82    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

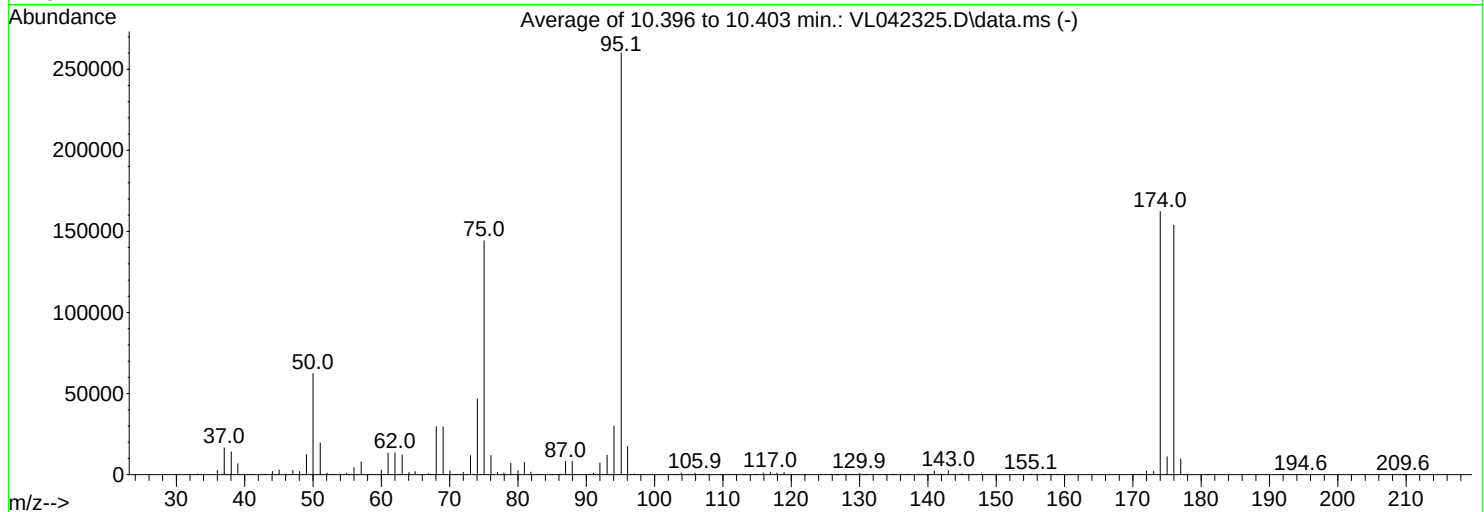
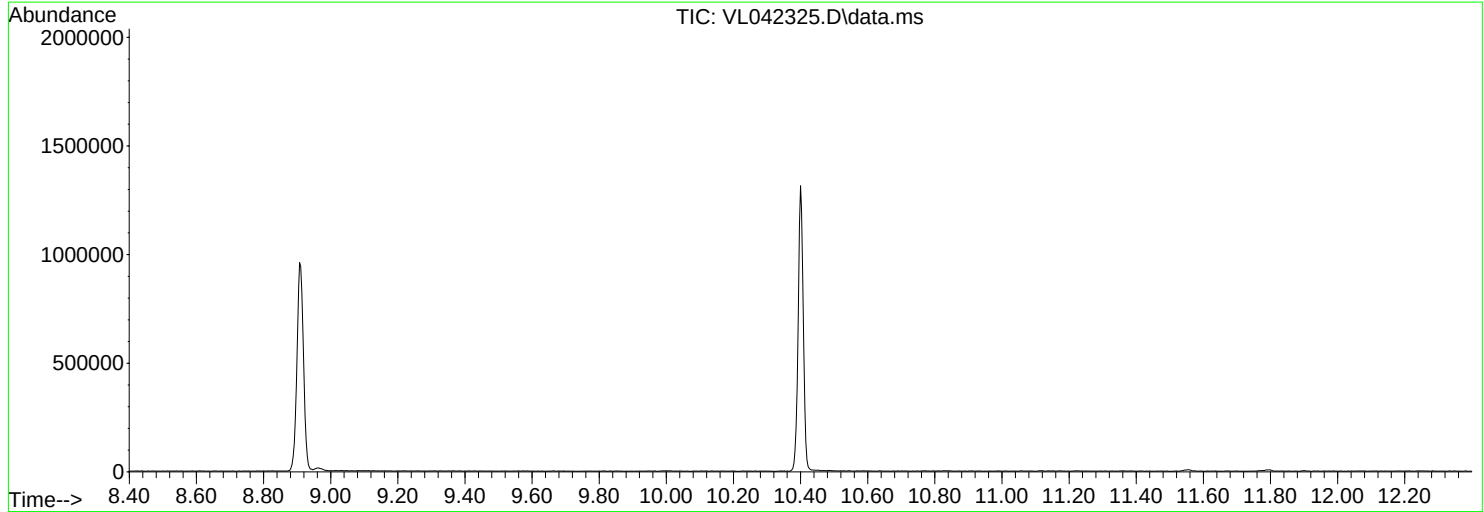


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
Data File : VL042325.D  
Acq On : 15 Apr 2025 07:45  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3185, 3186, 3187; Background Corrected with Scan 3171

| 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              | 24.0         | 62363      | PASS                |
| 75             | 95              | 30              | 66              | 55.5         | 144299     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 260117     | PASS                |
| 96             | 95              | 5               | 9               | 6.7          | 17331      | PASS                |
| 173            | 174             | 0.00            | 2               | 1.3          | 2038       | PASS                |
| 174            | 95              | 50              | 120             | 62.4         | 162261     | PASS                |
| 175            | 174             | 4               | 9               | 6.8          | 11092      | PASS                |
| 176            | 174             | 93              | 101             | 94.8         | 153792     | PASS                |
| 177            | 176             | 5               | 9               | 6.2          | 9603       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042326.D  
 Acq On : 15 Apr 2025 11:30  
 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 04/16/2025  
 Supervised By : Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:29:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.806 | 49   | 172263   | 10.000 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 3.988 | 114  | 457227   | 10.000 | ppbv  | 0.04     |
| 55) Chlorobenzene-d5    | 8.911 | 117  | 411493   | 10.000 | ppbv  | 0.04     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.403 95 325960 9.646 ppbv 0.03  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.500%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.505 | 85  | 214541 | 8.435 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.483 | 51  | 235250 | 9.054 | ppbv   | 98     |
| 4) Chloromethane              | 1.541 | 50  | 89653  | 8.625 | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.589 | 62  | 83204  | 7.554 | ppbv   | 96     |
| 6) Bromomethane               | 1.677 | 94  | 36297  | 7.705 | ppbv   | 99     |
| 7) Chloroethane               | 1.716 | 64  | 32145  | 7.704 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.564 | 85  | 182884 | 8.443 | ppbv   | 94     |
| 9) Propene                    | 1.492 | 41  | 101034 | 8.483 | ppbv   | 98     |
| 10) Heptane                   | 5.020 | 43  | 276748 | 8.736 | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 1.887 | 101 | 202387 | 8.178 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.153 | 101 | 157030 | 7.719 | ppbv   | 98     |
| 13) Ethanol                   | 1.732 | 45  | 4440   | 3.944 | ppbv   | 93     |
| 14) Bromoethene               | 1.793 | 108 | 59588  | 7.646 | ppbv   | 99     |
| 15) Acetone                   | 1.845 | 43  | 183439 | 7.614 | ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.619 | 39  | 90954  | 7.731 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.052 | 59  | 209737 | 6.990 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.046 | 96  | 72322  | 7.605 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 1.897 | 45  | 104424 | 7.682 | ppbv   | 98     |
| 20) Methylene Chloride        | 2.075 | 84  | 60337  | 6.725 | ppbv   | 90     |
| 21) Allyl Chloride            | 2.111 | 41  | 132956 | 7.825 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.357 | 96  | 81572  | 7.422 | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.480 | 43  | 72160  | 6.920 | ppbv   | 97     |
| 24) 1,1-Dichloroethane        | 2.425 | 63  | 169411 | 8.315 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.855 | 43  | 564611 | 9.030 | ppbv   | 99     |
| 26) Hexane                    | 2.845 | 57  | 213782 | 8.851 | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.166 | 76  | 195452 | 7.547 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.457 | 73  | 116301 | 7.734 | ppbv   | 96     |
| 29) Chloroform                | 2.868 | 83  | 314164 | 8.888 | ppbv   | 100    |
| 30) Cyclohexane               | 3.884 | 84  | 173360 | 8.266 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.739 | 61  | 208160 | 8.490 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 3.392 | 97  | 311758 | 7.704 | ppbv   | 98     |
| 34) 2-Butanone                | 2.577 | 43  | 317117 | 9.565 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.790 | 117 | 317942 | 8.902 | ppbv   | 99     |
| 36) Benzene                   | 3.684 | 78  | 424254 | 9.360 | ppbv   | 94     |
| 37) 1,2-Dichloroethane        | 3.243 | 62  | 239556 | 9.231 | ppbv   | 100    |
| 38) Trichloroethene           | 4.583 | 130 | 172146 | 9.102 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.350 | 63  | 151707 | 9.190 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.622 | 88  | 72075  | 8.226 | ppbv # | 98     |
| 41) Tetrahydrofuran           | 3.075 | 42  | 181471 | 9.505 | ppbv   | 95     |
| 42) Bromodichloromethane      | 4.525 | 83  | 333167 | 9.313 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.923 | 69  | 155399 | 8.098 | ppbv   | 96     |
| 44) 2,2,4-Trimethylpentane    | 4.677 | 57  | 728571 | 9.511 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.461 | 75  | 151063 | 7.338 | ppbv   | 96     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042326.D  
 Acq On : 15 Apr 2025 11:30  
 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 04/16/2025  
 Supervised By : Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:29:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.648  | 75   | 204339   | 8.097  | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.626  | 97   | 163132   | 9.348  | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.425  | 129  | 272592   | 9.217  | ppbv   | 99       |
| 49) Bromoform                 | 9.513  | 173  | 238880   | 8.997  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.800  | 43   | 442851   | 8.428  | ppbv   | 97       |
| 51) 2-Hexanone                | 7.474  | 43   | 353471   | 8.192  | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.260  | 164  | 144481   | 8.037  | ppbv   | 98       |
| 53) Toluene                   | 6.975  | 91   | 461854   | 8.595  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.687  | 107  | 220075   | 9.047  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.956  | 131  | 214175   | 9.455  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.953  | 112  | 375357   | 9.617  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.383  | 91   | 639857   | 8.754  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.581  | 91   | 1063509m | 18.222 | ppbv   |          |
| 60) o-Xylene                  | 9.992  | 91   | 528896   | 9.040  | ppbv   | 95       |
| 61) Styrene                   | 9.898  | 104  | 245300   | 8.474  | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.565 | 105  | 794408   | 9.079  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.992  | 83   | 343786   | 9.671  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.015 | 120  | 212879   | 9.452  | ppbv   | 95       |
| 65) tert-Butylbenzene         | 11.555 | 119  | 721078   | 8.911  | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.639 | 91   | 54427    | 6.339  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.791 | 105  | 1026079  | 9.123  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.947 | 119  | 865385   | 8.935  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.303 | 91   | 884265   | 8.928  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.927 | 91   | 599592   | 8.830  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.147 | 105  | 657765   | 9.029  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.228 | 105  | 557593   | 8.764  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.558 | 105  | 623563   | 8.507  | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 11.630 | 146  | 381572   | 9.492  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.694 | 146  | 380035   | 9.499  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.969 | 146  | 379896   | 9.706  | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.902 | 225  | 311900   | 7.828  | ppbv   | 99       |
| 79) Naphthalene               | 13.533 | 128  | 760876   | 9.490  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.478 | 142  | 365398   | 9.294  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.461 | 180  | 337032   | 9.114  | ppbv   | 99       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042326.D  
 Acq On : 15 Apr 2025 11:30  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 16 01:29:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 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   | 92    | 0.02     |
| 2 T  | Dichlorodifluoromethane     | 1.476 | 1.245  | 15.7  | 82    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.508 | 1.366  | 9.4   | 86    | 0.00     |
| 4    | Chloromethane               | 0.603 | 0.520  | 13.8  | 84    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.639 | 0.483  | 24.4  | 81    | 0.01     |
| 6 T  | Bromomethane                | 0.273 | 0.211  | 22.7  | 76    | 0.01     |
| 7    | Chloroethane                | 0.242 | 0.187  | 22.7  | 76    | 0.01     |
| 8 T  | Dichlorotetrafluoroethane   | 1.257 | 1.062  | 15.5  | 81    | 0.01     |
| 9 T  | Propene                     | 0.691 | 0.587  | 15.1  | 82    | 0.00     |
| 10 T | Heptane                     | 1.839 | 1.607  | 12.6  | 83    | 0.05     |
| 11 T | Trichlorofluoromethane      | 1.437 | 1.175  | 18.2  | 81    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.181 | 0.912  | 22.8  | 75    | 0.02     |
| 13   | Ethanol                     | 0.065 | 0.026# | 60.0# | 83    | 0.01     |
| 14 T | Bromoethene                 | 0.452 | 0.346  | 23.5  | 76    | 0.02     |
| 15 T | Acetone                     | 1.399 | 1.065  | 23.9  | 88    | 0.01     |
| 16 T | 1,3-Butadiene               | 0.683 | 0.528  | 22.7  | 85    | 0.01     |
| 17   | tert-Butyl alcohol          | 1.742 | 1.218  | 30.1# | 69    | 0.02     |
| 18 T | 1,1-Dichloroethene          | 0.552 | 0.420  | 23.9  | 77    | 0.02     |
| 19 T | Isopropyl Alcohol           | 0.789 | 0.606  | 23.2  | 79    | 0.01     |
| 20 T | Methylene Chloride          | 0.521 | 0.350  | 32.8# | 74    | 0.02     |
| 21 T | Allyl Chloride              | 0.986 | 0.772  | 21.7  | 79    | 0.02     |
| 22 T | trans-1,2-Dichloroethene    | 0.638 | 0.474  | 25.7  | 74    | 0.02     |
| 23 T | Vinyl Acetate               | 0.605 | 0.419  | 30.7# | 78    | 0.02     |
| 24 T | 1,1-Dichloroethane          | 1.183 | 0.983  | 16.9  | 81    | 0.02     |
| 25 T | Ethyl Acetate               | 3.630 | 3.278  | 9.7   | 87    | 0.02     |
| 26 T | Hexane                      | 1.402 | 1.241  | 11.5  | 86    | 0.02     |
| 27 T | Carbon Disulfide            | 1.503 | 1.135  | 24.5  | 73    | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 0.873 | 0.675  | 22.7  | 75    | 0.02     |
| 29 T | Chloroform                  | 2.052 | 1.824  | 11.1  | 87    | 0.02     |
| 30 T | Cyclohexane                 | 1.217 | 1.006  | 17.3  | 80    | 0.03     |
| 31 T | cis-1,2-Dichloroethene      | 1.423 | 1.208  | 15.1  | 81    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 2.349 | 1.810  | 22.9  | 81    | 0.03     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 84    | 0.04     |
| 34 T | 2-Butanone                  | 0.725 | 0.694  | 4.3   | 87    | 0.02     |
| 35 T | Carbon Tetrachloride        | 0.781 | 0.695  | 11.0  | 83    | 0.03     |
| 36 T | Benzene                     | 0.991 | 0.928  | 6.4   | 83    | 0.03     |
| 37 T | 1,2-Dichloroethane          | 0.568 | 0.524  | 7.7   | 82    | 0.03     |
| 38 T | Trichloroethene             | 0.414 | 0.377  | 8.9   | 84    | 0.04     |
| 39 T | 1,2-Dichloropropane         | 0.361 | 0.332  | 8.0   | 83    | 0.04     |
| 40 T | 1,4-Dioxane                 | 0.192 | 0.158  | 17.7  | 78    | 0.05     |
| 41 T | Tetrahydrofuran             | 0.418 | 0.397  | 5.0   | 84    | 0.03     |
| 42 T | Bromodichloromethane        | 0.782 | 0.729  | 6.8   | 80    | 0.04     |
| 43   | Methyl Methacrylate         | 0.420 | 0.340  | 19.0  | 71    | 0.05     |
| 44 T | 2,2,4-Trimethylpentane      | 1.675 | 1.593  | 4.9   | 83    | 0.04     |
| 45 T | t-1,3-Dichloropropene       | 0.450 | 0.330  | 26.7  | 63    | 0.05     |
| 46 T | cis-1,3-Dichloropropene     | 0.552 | 0.447  | 19.0  | 68    | 0.05     |
| 47 T | 1,1,2-Trichloroethane       | 0.382 | 0.357  | 6.5   | 82    | 0.05     |
| 48 T | Dibromochloromethane        | 0.647 | 0.596  | 7.9   | 79    | 0.05     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042326.D  
 Acq On : 15 Apr 2025 11:30  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 16 01:29:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 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                 | 0.581 | 0.522 | 10.2  | 75    | 0.04     |
| 50 T | 4-Methyl-2-Pentanone      | 1.149 | 0.969 | 15.7  | 79    | 0.05     |
| 51 T | 2-Hexanone                | 0.944 | 0.773 | 18.1  | 77    | 0.04     |
| 52 T | Tetrachloroethene         | 0.393 | 0.316 | 19.6  | 77    | 0.04     |
| 53 T | Toluene                   | 1.175 | 1.010 | 14.0  | 75    | 0.05     |
| 54 T | 1,2-Dibromoethane         | 0.532 | 0.481 | 9.6   | 80    | 0.04     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 79    | 0.04     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.550 | 0.520 | 5.5   | 81    | 0.04     |
| 57 T | Chlorobenzene             | 0.949 | 0.912 | 3.9   | 83    | 0.04     |
| 58 T | Ethyl Benzene             | 1.776 | 1.555 | 12.4  | 74    | 0.03     |
| 59 T | m/p-Xylene                | 1.418 | 1.292 | 8.9   | 77    | 0.03     |
| 60 T | o-Xylene                  | 1.422 | 1.285 | 9.6   | 77    | 0.03     |
| 61 T | Styrene                   | 0.703 | 0.596 | 15.2  | 69    | 0.03     |
| 62   | Isopropylbenzene          | 2.126 | 1.931 | 9.2   | 78    | 0.03     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.864 | 0.835 | 3.4   | 83    | 0.03     |
| 64   | n-propylbenzene           | 0.547 | 0.517 | 5.5   | 82    | 0.03     |
| 65   | tert-Butylbenzene         | 1.966 | 1.752 | 10.9  | 80    | 0.03     |
| 66 T | Benzyl Chloride           | 0.209 | 0.132 | 36.8# | 52    | 0.03     |
| 67   | sec-Butylbenzene          | 2.733 | 2.494 | 8.7   | 82    | 0.03     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.821 | 0.792 | 3.5   | 77    | 0.03     |
| 69   | p-Isopropyltoluene        | 2.354 | 2.103 | 10.7  | 80    | 0.02     |
| 70   | n-Butylbenzene            | 2.407 | 2.149 | 10.7  | 80    | 0.03     |
| 71   | 2-Chlorotoluene           | 1.650 | 1.457 | 11.7  | 75    | 0.03     |
| 72 T | 4-Ethyltoluene            | 1.770 | 1.598 | 9.7   | 78    | 0.03     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.546 | 1.355 | 12.4  | 77    | 0.03     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.781 | 1.515 | 14.9  | 79    | 0.02     |
| 75 T | 1,3-Dichlorobenzene       | 0.977 | 0.927 | 5.1   | 83    | 0.03     |
| 76 T | 1,4-Dichlorobenzene       | 0.972 | 0.924 | 4.9   | 82    | 0.03     |
| 77 T | 1,2-Dichlorobenzene       | 0.951 | 0.923 | 2.9   | 86    | 0.03     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.968 | 0.758 | 21.7  | 75    | 0.02     |
| 79 T | Naphthalene               | 1.948 | 1.849 | 5.1   | 81    | 0.02     |
| 80 T | Naphthalene,2-methyl-     | 0.955 | 0.888 | 7.0   | 71    | 0.02     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.899 | 0.819 | 8.9   | 75    | 0.02     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042327.D  
 Acq On : 15 Apr 2025 12:12  
 Operator : SY/MD  
 Sample : VL0415ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0415ABL01

Quant Time: Apr 16 01:30:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.813 | 49   | 173729   | 10.000 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 3.994 | 114  | 447320   | 10.000 | ppbv  | 0.04     |
| 55) Chlorobenzene-d5    | 8.917 | 117  | 385318   | 10.000 | ppbv  | 0.04     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95    | 292759   | 9.252    | ppbv | 0.04    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 92.500% |

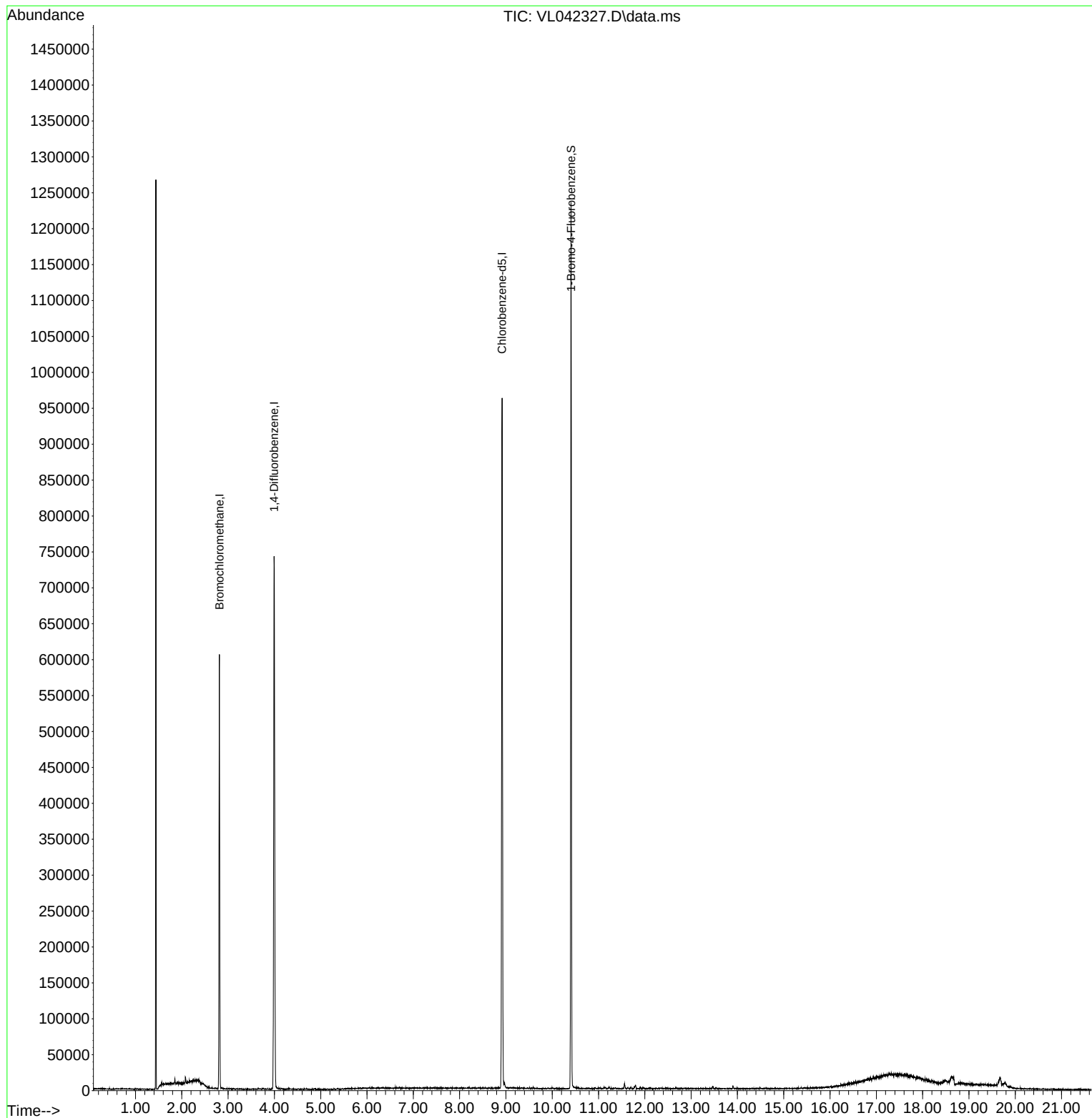
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
Data File : VL042327.D  
Acq On : 15 Apr 2025 12:12  
Operator : SY/MD  
Sample : VL0415ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0415ABL01

Quant Time: Apr 16 01:30:06 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042328.D  
 Acq On : 15 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VL0415ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0415ABS01

Quant Time: Apr 16 01:30:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/16/2025  
 Supervised By : Mahesh Dadoda 04/16/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.810 | 49   | 171986   | 10.000 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 3.994 | 114  | 444595   | 10.000 | ppbv  | 0.04     |
| 55) Chlorobenzene-d5    | 8.917 | 117  | 399604   | 10.000 | ppbv  | 0.04     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95    | 318902   | 9.718    | ppbv | 0.04    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.200% |

|                               |       |     |        |       |        |        |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| Target Compounds              |       |     |        |       |        | Qvalue |
| 2) Dichlorodifluoromethane    | 1.509 | 85  | 214241 | 8.437 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.486 | 51  | 234966 | 9.058 | ppbv   | 97     |
| 4) Chloromethane              | 1.541 | 50  | 88230  | 8.502 | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.589 | 62  | 82221  | 7.476 | ppbv   | 94     |
| 6) Bromomethane               | 1.680 | 94  | 36050  | 7.665 | ppbv   | 100    |
| 7) Chloroethane               | 1.716 | 64  | 33039  | 7.931 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.564 | 85  | 178173 | 8.239 | ppbv   | 95     |
| 9) Propene                    | 1.492 | 41  | 94136  | 7.917 | ppbv   | 99     |
| 10) Heptane                   | 5.027 | 43  | 267288 | 8.451 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.890 | 101 | 201665 | 8.162 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.156 | 101 | 154306 | 7.598 | ppbv   | 98     |
| 13) Ethanol                   | 1.732 | 45  | 4407   | 3.921 | ppbv   | 97     |
| 14) Bromoethene               | 1.793 | 108 | 57635  | 7.408 | ppbv   | 99     |
| 15) Acetone                   | 1.848 | 43  | 178724 | 7.430 | ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.619 | 39  | 89479  | 7.617 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.055 | 59  | 202421 | 6.757 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.049 | 96  | 69013  | 7.269 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 1.900 | 45  | 100289 | 7.390 | ppbv   | 97     |
| 20) Methylene Chloride        | 2.075 | 84  | 60054  | 6.704 | ppbv   | 88     |
| 21) Allyl Chloride            | 2.111 | 41  | 127800 | 7.534 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.360 | 96  | 78991  | 7.198 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.483 | 43  | 64777  | 6.222 | ppbv   | 98     |
| 24) 1,1-Dichloroethane        | 2.428 | 63  | 168373 | 8.277 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.861 | 43  | 545140 | 8.732 | ppbv   | 99     |
| 26) Hexane                    | 2.848 | 57  | 205629 | 8.528 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.166 | 76  | 191388 | 7.402 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.460 | 73  | 107667 | 7.172 | ppbv   | 96     |
| 29) Chloroform                | 2.874 | 83  | 309262 | 8.763 | ppbv   | 100    |
| 30) Cyclohexane               | 3.891 | 84  | 165914 | 7.924 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.742 | 61  | 197651 | 8.074 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.395 | 97  | 304143 | 7.528 | ppbv   | 97     |
| 34) 2-Butanone                | 2.580 | 43  | 300576 | 9.323 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.797 | 117 | 314849 | 9.065 | ppbv   | 99     |
| 36) Benzene                   | 3.690 | 78  | 407959 | 9.256 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.247 | 62  | 235609 | 9.337 | ppbv   | 99     |
| 38) Trichloroethene           | 4.590 | 130 | 164664 | 8.954 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.354 | 63  | 149260 | 9.299 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.625 | 88  | 68773  | 8.072 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.082 | 42  | 173776 | 9.361 | ppbv   | 95     |
| 42) Bromodichloromethane      | 4.532 | 83  | 327497 | 9.414 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.930 | 69  | 151531 | 8.121 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 4.680 | 57  | 707832 | 9.503 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.470 | 75  | 143714 | 7.179 | ppbv   | 91     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042328.D  
 Acq On : 15 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VL0415ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0415ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025  
 Supervised By :Mahesh Dadoda 04/16/2025

Quant Time: Apr 16 01:30:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.658  | 75   | 192419   | 7.841  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.635  | 97   | 163251   | 9.621  | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.428  | 129  | 266192   | 9.256  | ppbv   | 100      |
| 49) Bromoform                 | 9.519  | 173  | 236686   | 9.168  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.807  | 43   | 429988   | 8.416  | ppbv   | 95       |
| 51) 2-Hexanone                | 7.480  | 43   | 344172   | 8.203  | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.263  | 164  | 139845   | 8.000  | ppbv   | 95       |
| 53) Toluene                   | 6.978  | 91   | 447178   | 8.559  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.694  | 107  | 214982   | 9.089  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.959  | 131  | 216770   | 9.855  | ppbv   | 98       |
| 57) Chlorobenzene             | 8.956  | 112  | 369132   | 9.739  | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.390  | 91   | 618669   | 8.716  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.584  | 91   | 1049238m | 18.512 | ppbv   |          |
| 60) o-Xylene                  | 9.995  | 91   | 517471   | 9.107  | ppbv   | 96       |
| 61) Styrene                   | 9.904  | 104  | 229601   | 8.168  | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.568 | 105  | 785673   | 9.247  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.995  | 83   | 351308   | 10.176 | ppbv   | 99       |
| 64) n-propylbenzene           | 11.018 | 120  | 210294   | 9.615  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.558 | 119  | 718948   | 9.149  | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.642 | 91   | 55150    | 6.614  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.795 | 105  | 1018861  | 9.328  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.950 | 119  | 863264   | 9.179  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.306 | 91   | 891883   | 9.273  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.930 | 91   | 590408   | 8.953  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.150 | 105  | 652962   | 9.230  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.231 | 105  | 559451   | 9.055  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.565 | 105  | 632271   | 8.883  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.633 | 146  | 381882   | 9.782  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.697 | 146  | 383116   | 9.861  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.973 | 146  | 386768   | 10.175 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.905 | 225  | 314860   | 8.138  | ppbv   | 100      |
| 79) Naphthalene               | 13.539 | 128  | 777722   | 9.989  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.481 | 142  | 375541   | 9.836  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.465 | 180  | 343011   | 9.551  | ppbv   | 99       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
 Data File : VL042330.D  
 Acq On : 15 Apr 2025 13:57  
 Operator : SY/MD  
 Sample : QC041425 CAN 10401  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC041425 CAN 10401

Quant Time: Apr 16 01:31:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.813 | 49   | 162884   | 10.000 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 3.997 | 114  | 405181   | 10.000 | ppbv  | 0.05     |
| 55) Chlorobenzene-d5    | 8.917 | 117  | 353699   | 10.000 | ppbv  | 0.04     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.406 | 95    | 273327   | 9.410    | ppbv | 0.04    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.100% |

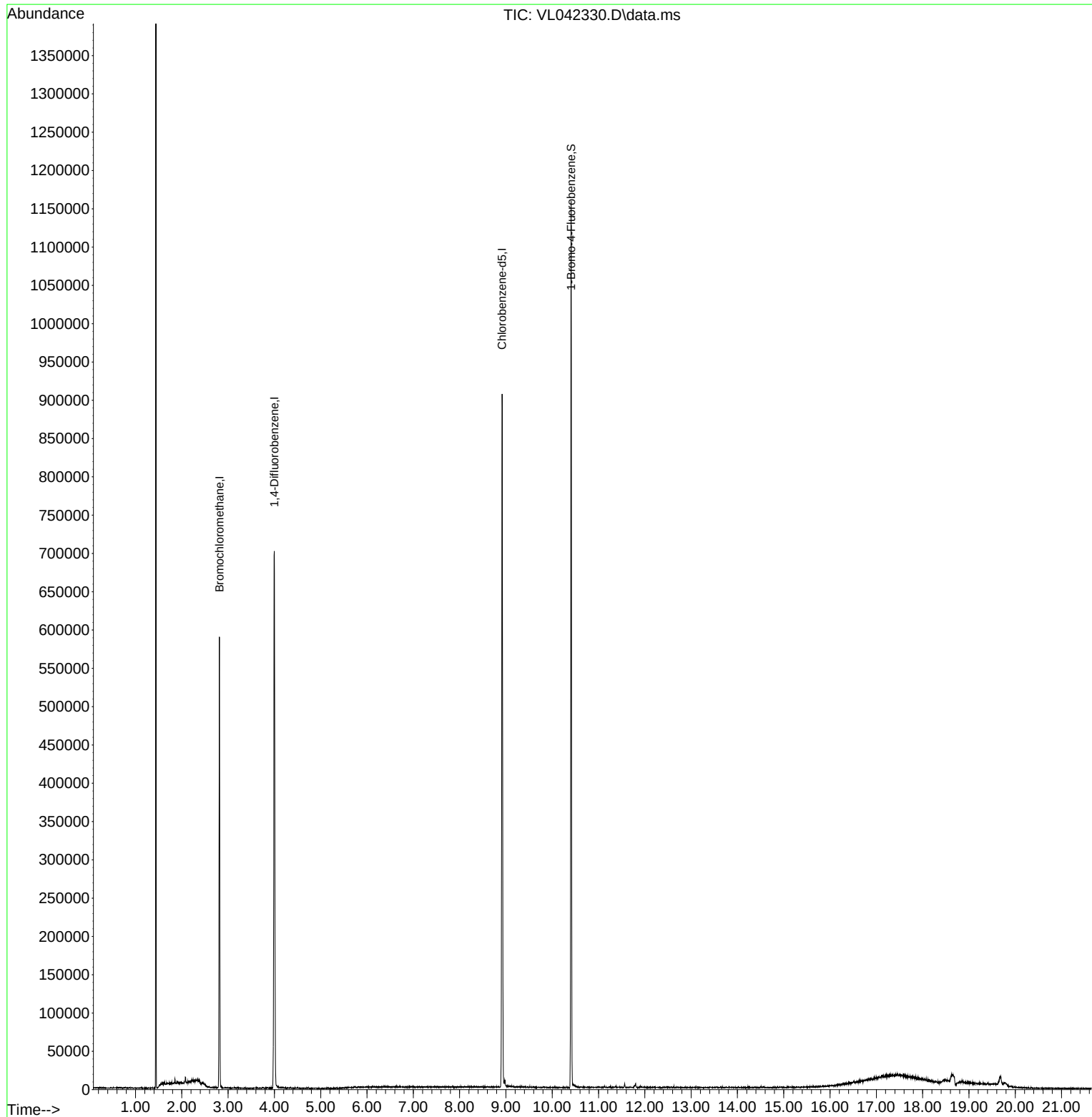
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041525\  
Data File : VL042330.D  
Acq On : 15 Apr 2025 13:57  
Operator : SY/MD  
Sample : QC041425 CAN 10401  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC041425 CAN 10401

Quant Time: Apr 16 01:31:42 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

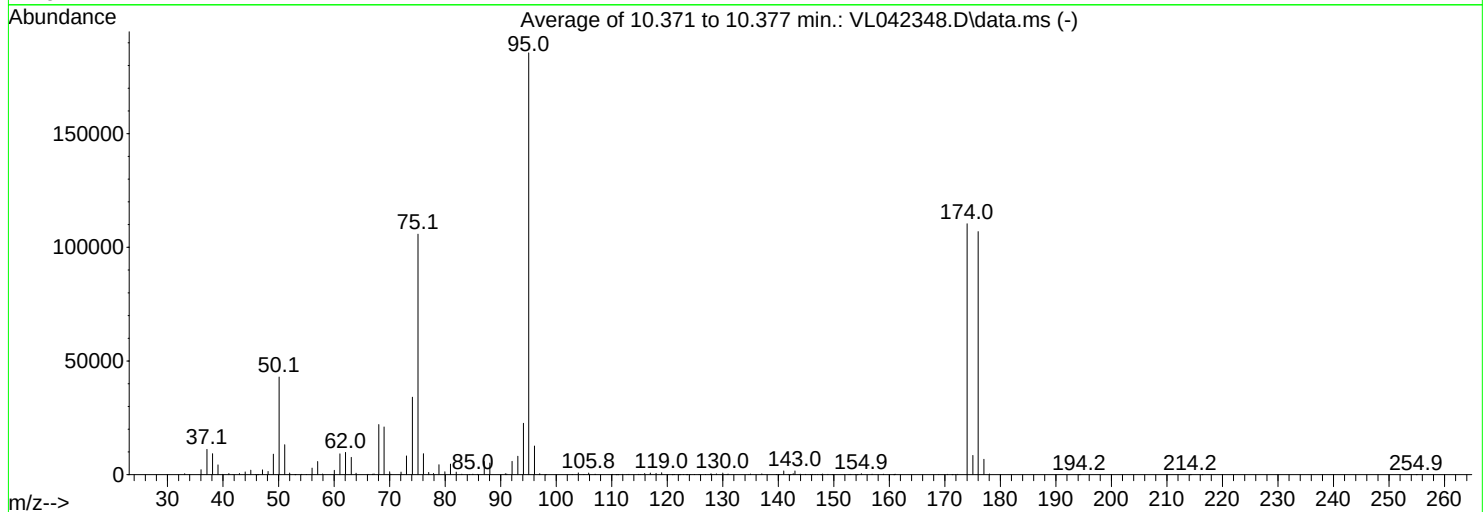
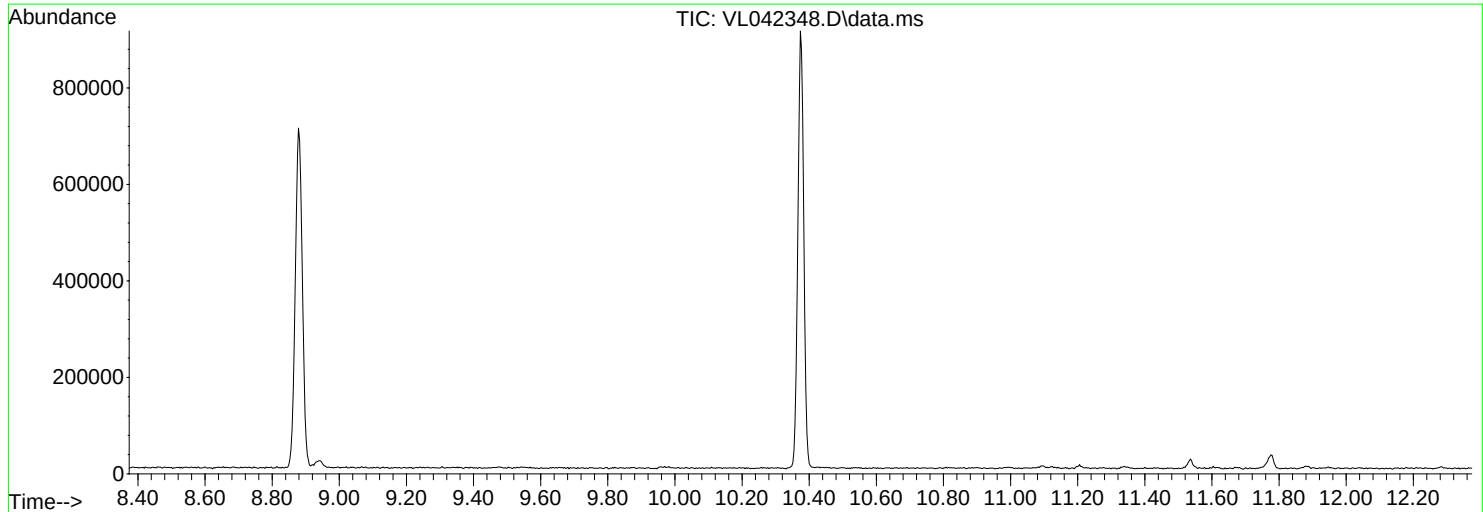


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042348.D  
Acq On : 17 Apr 2025 07:50  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; 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     | 23.1  | 42933  | PASS      |
| 75     | 95      | 30     | 66     | 57.0  | 105781 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 185564 | PASS      |
| 96     | 95      | 5      | 9      | 6.8   | 12627  | PASS      |
| 173    | 174     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 174    | 95      | 50     | 120    | 59.5  | 110360 | PASS      |
| 175    | 174     | 4      | 9      | 7.6   | 8420   | PASS      |
| 176    | 174     | 93     | 101    | 96.9  | 106933 | PASS      |
| 177    | 176     | 5      | 9      | 6.3   | 6744   | PASS      |

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

Method File : VL041725AIR.M

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

Last Update : Fri Apr 18 02:14:00 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.831 | 1.837 | 1.827 | 1.658 | 1.682 | 1.767 | 5.05  |
| 3) Chlorodifluoro...      |                |       | 1.876 | 1.657 | 1.698 | 1.573 | 1.608 | 1.682 | 7.01  |
| 4) Chloromethane          |                |       | 0.752 | 0.725 | 0.701 | 0.652 | 0.665 | 0.699 | 5.93  |
| 5) T Vinyl Chloride       | 1.002          | 0.911 | 0.731 | 0.709 | 0.689 | 0.638 | 0.647 | 0.761 | 18.39 |
| 6) T Bromomethane         |                |       | 0.397 | 0.330 | 0.300 | 0.304 | 0.303 | 0.327 | 12.56 |
| 7) Chloroethane           |                |       | 0.303 | 0.287 | 0.280 | 0.253 | 0.255 | 0.275 | 7.76  |
| 8) T Dichlorotetra...     |                |       | 1.556 | 1.550 | 1.581 | 1.432 | 1.465 | 1.517 | 4.25  |
| 9) T Propene              |                |       | 0.880 | 0.797 | 0.758 | 0.690 | 0.707 | 0.766 | 9.95  |
| 10) T Heptane             |                |       | 2.444 | 2.296 | 2.209 | 1.884 | 1.931 | 2.153 | 11.14 |
| 11) T Trichlorofluor...   |                |       | 1.684 | 1.806 | 1.746 | 1.567 | 1.597 | 1.680 | 5.95  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.389 | 1.439 | 1.437 | 1.281 | 1.323 | 1.374 | 5.11  |
| 13) Ethanol               |                |       | 0.275 | 0.139 | 0.123 | 0.035 | 0.036 | 0.122 | 80.54 |
| 14) T Bromoethene         |                |       | 0.537 | 0.545 | 0.530 | 0.490 | 0.487 | 0.518 | 5.24  |
| 15) T Acetone             |                |       | 1.968 | 1.895 | 1.743 | 1.263 | 1.316 | 1.637 | 20.03 |
| 16) T 1,3-Butadiene       |                |       | 1.015 | 0.836 | 0.735 | 0.651 | 0.678 | 0.783 | 18.90 |
| 17) tert-Butyl alc...     |                |       | 2.263 | 2.132 | 2.103 | 1.804 | 1.841 | 2.029 | 9.76  |
| 18) T 1,1-Dichloroet...   |                |       | 0.735 | 0.635 | 0.637 | 0.583 | 0.618 | 0.642 | 8.79  |
| 19) T Isopropyl Alcohol   |                |       | 1.050 | 0.980 | 0.897 | 0.821 | 0.798 | 0.909 | 11.66 |
| 20) T Methylene Chlo...   |                |       | 0.875 | 0.728 | 0.582 | 0.498 | 0.523 | 0.641 | 24.71 |
| 21) T Allyl Chloride      |                |       | 1.276 | 1.213 | 1.110 | 0.973 | 1.080 | 1.130 | 10.44 |
| 22) T trans-1,2-Dich...   |                |       | 0.814 | 0.759 | 0.736 | 0.664 | 0.681 | 0.731 | 8.32  |
| 23) T Vinyl Acetate       |                |       | 0.656 | 0.744 | 0.749 | 0.555 | 0.610 | 0.663 | 12.72 |
| 24) T 1,1-Dichloroet...   |                |       | 1.452 | 1.469 | 1.383 | 1.284 | 1.352 | 1.388 | 5.43  |
| 25) T Ethyl Acetate       |                |       | 4.428 | 4.147 | 4.118 | 3.677 | 3.812 | 4.036 | 7.34  |
| 26) T Hexane              |                |       | 1.899 | 1.719 | 1.625 | 1.424 | 1.499 | 1.633 | 11.45 |
| 27) T Carbon Disulfide    |                |       | 1.903 | 1.670 | 1.785 | 1.668 | 1.718 | 1.749 | 5.63  |
| 28) T Methyl tert-Bu...   |                |       | 1.134 | 1.141 | 1.132 | 0.940 | 1.004 | 1.070 | 8.64  |
| 29) T Chloroform          |                |       | 2.458 | 2.333 | 2.392 | 2.145 | 2.215 | 2.309 | 5.54  |
| 30) T Cyclohexane         |                |       | 1.422 | 1.333 | 1.347 | 1.252 | 1.249 | 1.320 | 5.50  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.588 | 1.603 | 1.593 | 1.459 | 1.522 | 1.553 | 3.95  |
| 32) T 1,1,1-Trichlor...   | 3.110          | 2.840 | 2.557 | 2.549 | 2.493 | 2.274 | 2.369 | 2.599 | 11.03 |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.886 | 0.826 | 0.818 | 0.687 | 0.737 | 0.791 | 9.94  |
| 35) T Carbon Tetrach...   | 1.319          | 0.914 | 0.832 | 0.830 | 0.847 | 0.770 | 0.823 | 0.905 | 20.70 |
| 36) T Benzene             |                |       | 1.146 | 1.075 | 1.121 | 1.002 | 1.048 | 1.079 | 5.31  |
| 37) T 1,2-Dichloroet...   |                |       | 0.691 | 0.647 | 0.666 | 0.592 | 0.641 | 0.647 | 5.63  |
| 38) T Trichloroethene     | 0.643          | 0.505 | 0.443 | 0.448 | 0.447 | 0.395 | 0.419 | 0.471 | 17.59 |
| 39) T 1,2-Dichloropr...   |                |       | 0.441 | 0.413 | 0.405 | 0.370 | 0.381 | 0.402 | 6.97  |

|                                                  |   |                   |       |       |       |       |       |       |       |       |       |
|--------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ |   |                   |       |       |       |       |       |       |       |       |       |
| Method File : VL041725AIR.M                      |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                              | T | 1,4-Dioxane       |       |       | 0.263 | 0.243 | 0.232 | 0.182 | 0.185 | 0.221 | 16.27 |
| 41)                                              | T | Tetrahydrofuran   |       |       | 0.518 | 0.480 | 0.468 | 0.409 | 0.432 | 0.461 | 9.20  |
| 42)                                              | T | Bromodichlorom... |       |       | 0.943 | 0.909 | 0.912 | 0.852 | 0.889 | 0.901 | 3.71  |
| 43)                                              |   | Methyl Methacr... |       |       | 0.545 | 0.520 | 0.495 | 0.430 | 0.441 | 0.486 | 10.21 |
| 44)                                              | T | 2,2,4-Trimethy... |       |       | 1.935 | 1.916 | 1.962 | 1.708 | 1.794 | 1.863 | 5.79  |
| 45)                                              | T | t-1,3-Dichloro... |       |       | 0.514 | 0.510 | 0.509 | 0.459 | 0.491 | 0.497 | 4.60  |
| 46)                                              | T | cis-1,3-Dichlo... |       |       | 0.613 | 0.617 | 0.637 | 0.570 | 0.603 | 0.608 | 4.05  |
| 47)                                              | T | 1,1,2-Trichlor... |       |       | 0.423 | 0.429 | 0.420 | 0.376 | 0.399 | 0.410 | 5.32  |
| 48)                                              | T | Dibromochlorom... |       |       | 0.743 | 0.721 | 0.746 | 0.679 | 0.729 | 0.723 | 3.70  |
| 49)                                              | T | Bromoform         |       |       | 0.622 | 0.623 | 0.675 | 0.616 | 0.627 | 0.633 | 3.82  |
| 50)                                              | T | 4-Methyl-2-Pen... |       |       | 1.541 | 1.382 | 1.435 | 1.082 | 1.132 | 1.314 | 15.12 |
| 51)                                              | T | 2-Hexanone        |       |       | 1.341 | 1.311 | 1.411 | 0.893 | 0.938 | 1.179 | 20.69 |
| 52)                                              | T | Tetrachloroethene | 0.543 | 0.452 | 0.420 | 0.393 | 0.391 | 0.357 | 0.363 | 0.417 | 15.46 |
| 53)                                              | T | Toluene           |       |       | 1.371 | 1.295 | 1.370 | 1.193 | 1.244 | 1.294 | 6.03  |
| 54)                                              | T | 1,2-Dibromoethane |       | 0.621 | 0.582 | 0.605 | 0.606 | 0.539 | 0.562 | 0.586 | 5.27  |
| -----ISTD-----                                   |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                              | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                              |   | 1,1,1,2-Tetrac... |       |       | 0.621 | 0.640 | 0.635 | 0.550 | 0.581 | 0.605 | 6.37  |
| 57)                                              | T | Chlorobenzene     |       |       | 1.129 | 1.067 | 1.068 | 0.956 | 0.981 | 1.040 | 6.79  |
| 58)                                              | T | Ethyl Benzene     |       |       | 2.029 | 2.088 | 2.068 | 1.832 | 1.890 | 1.981 | 5.73  |
| 59)                                              | T | m/p-Xylene        |       |       | 1.685 | 1.682 | 1.658 | 1.456 | 1.500 | 1.596 | 6.86  |
| 60)                                              | T | o-Xylene          |       |       | 1.740 | 1.697 | 1.668 | 1.442 | 1.490 | 1.607 | 8.25  |
| 61)                                              | T | Styrene           |       |       | 0.792 | 0.776 | 0.808 | 0.726 | 0.734 | 0.767 | 4.68  |
| 62)                                              |   | Isopropylbenzene  |       |       | 2.517 | 2.470 | 2.439 | 2.170 | 2.202 | 2.360 | 6.83  |
| 63)                                              | T | 1,1,2,2-Tetrac... | 1.407 | 1.176 | 0.990 | 0.985 | 0.968 | 0.873 | 0.892 | 1.042 | 18.12 |
| 64)                                              |   | n-propylbenzene   |       |       | 0.645 | 0.605 | 0.610 | 0.542 | 0.564 | 0.593 | 6.81  |
| 65)                                              |   | tert-Butylbenzene |       |       | 2.319 | 2.358 | 2.315 | 1.907 | 1.945 | 2.169 | 10.27 |
| 66)                                              | T | Benzyl Chloride   |       |       | 0.241 | 0.239 | 0.258 | 0.246 | 0.208 | 0.238 | 7.84  |
| 67)                                              |   | sec-Butylbenzene  |       |       | 3.242 | 3.219 | 3.253 | 2.662 | 2.709 | 3.017 | 10.05 |
| 68)                                              | S | 1-Bromo-4-Fluo... | 0.819 | 0.814 | 0.824 | 0.818 | 0.822 | 0.831 | 0.825 | 0.822 | 0.69  |
| 69)                                              |   | p-Isopropyltol... |       |       | 2.834 | 2.818 | 2.811 | 2.304 | 2.338 | 2.621 | 10.46 |
| 70)                                              |   | n-Butylbenzene    |       |       | 2.985 | 2.926 | 2.953 | 2.370 | 2.414 | 2.730 | 11.33 |
| 71)                                              |   | 2-Chlorotoluene   |       |       | 1.972 | 1.924 | 1.920 | 1.695 | 1.744 | 1.851 | 6.65  |
| 72)                                              | T | 4-Ethyltoluene    |       |       | 2.055 | 2.118 | 2.054 | 1.765 | 1.833 | 1.965 | 7.92  |
| 73)                                              | T | 1,3,5-Trimethy... |       |       | 1.894 | 1.851 | 1.841 | 1.517 | 1.570 | 1.735 | 10.19 |
| 74)                                              | T | 1,2,4-Trimethy... |       |       | 2.348 | 2.245 | 2.168 | 1.671 | 1.698 | 2.026 | 15.71 |
| 75)                                              | T | 1,3-Dichlorobe... |       |       | 1.119 | 1.121 | 1.119 | 0.948 | 0.960 | 1.053 | 8.64  |
| 76)                                              | T | 1,4-Dichlorobe... |       |       | 1.138 | 1.115 | 1.122 | 0.944 | 0.974 | 1.059 | 8.69  |
| 77)                                              | T | 1,2-Dichlorobe... |       |       | 1.085 | 1.093 | 1.114 | 0.904 | 0.924 | 1.024 | 9.88  |
| 78)                                              | T | Hexachloro-1,3... |       |       | 1.163 | 1.136 | 1.135 | 0.863 | 0.874 | 1.034 | 14.66 |
| 79)                                              | T | Naphthalene       |       | 2.433 | 2.395 | 2.756 | 2.909 | 2.004 | 2.040 | 2.423 | 15.11 |
| 80)                                              | T | Naphthalene,2-... |       |       | 1.311 | 1.534 | 1.777 | 1.115 | 1.168 | 1.381 | 19.88 |
| 81)                                              | T | 1,2,4-Trichlor... |       |       | 1.026 | 1.117 | 1.224 | 0.905 | 0.929 | 1.040 | 12.75 |

(#) = Out of Range



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042349.D  
 Acq On : 17 Apr 2025 09:44  
 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 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 125455   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 366544   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 338126   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 281013 10.114 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 207962 | 9.382 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 197334 | 9.350 | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 81843  | 9.330 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.580 | 62  | 80068  | 8.385 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 38128  | 9.219 | ppbv   | 100    |
| 7) Chloroethane               | 1.703 | 64  | 31705  | 9.182 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 179696 | 9.442 | ppbv   | 100    |
| 9) Propene                    | 1.483 | 41  | 86530  | 9.002 | ppbv   | 100    |
| 10) Heptane                   | 4.978 | 43  | 236341 | 9.138 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 196596 | 9.327 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 160682 | 9.323 | ppbv   | 100    |
| 13) Ethanol                   | 1.719 | 45  | 4439   | 5.651 | ppbv   | 100    |
| 14) Bromoethene               | 1.780 | 108 | 61493  | 9.466 | ppbv   | 100    |
| 15) Acetone                   | 1.835 | 43  | 158490 | 7.717 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 81688  | 8.470 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 226280 | 8.891 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 73186  | 8.833 | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 103029 | 9.031 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 62414  | 7.760 | ppbv   | 100    |
| 21) Allyl Chloride            | 2.094 | 41  | 122115 | 8.611 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 83278  | 9.084 | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.460 | 43  | 69649  | 8.378 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 161102 | 9.251 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.836 | 43  | 461315 | 9.110 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 178691 | 8.720 | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.149 | 76  | 209297 | 9.539 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 117924 | 8.783 | ppbv   | 100    |
| 29) Chloroform                | 2.848 | 83  | 269088 | 9.290 | ppbv   | 100    |
| 30) Cyclohexane               | 3.855 | 84  | 157035 | 9.517 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 183082 | 9.397 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 285336 | 9.187 | ppbv   | 100    |
| 34) 2-Butanone                | 2.557 | 43  | 251704 | 8.683 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 282402 | 8.513 | ppbv   | 100    |
| 36) Benzene                   | 3.654 | 78  | 367355 | 9.292 | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 216999 | 9.145 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 144767 | 8.352 | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 135605 | 9.197 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.580 | 88  | 66662  | 8.348 | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.052 | 42  | 149905 | 8.950 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.489 | 83  | 312268 | 9.456 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.881 | 69  | 157501 | 8.876 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 626085 | 9.157 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 168223 | 9.233 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042349.D  
 Acq On : 17 Apr 2025 09:44  
 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 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 208811   | 9.377  | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 137898   | 9.181  | ppbv  | 100      |
| 48) Dibromochloromethane      | 7.386  | 129  | 248954   | 9.388  | ppbv  | 100      |
| 49) Bromoform                 | 9.480  | 173  | 225706   | 9.734  | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 396548   | 8.215  | ppbv  | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 327165   | 7.511  | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.225  | 164  | 130720   | 8.553  | ppbv  | 100      |
| 53) Toluene                   | 6.933  | 91   | 437258   | 9.216  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 197665   | 9.235  | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 186041   | 9.091  | ppbv  | 100      |
| 57) Chlorobenzene             | 8.920  | 112  | 323084   | 9.187  | ppbv  | 100      |
| 58) Ethyl Benzene             | 9.354  | 91   | 619581   | 9.248  | ppbv  | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 984458m  | 18.187 | ppbv  |          |
| 60) o-Xylene                  | 9.963  | 91   | 487616   | 8.972  | ppbv  | 100      |
| 61) Styrene                   | 9.869  | 104  | 245487   | 9.464  | ppbv  | 100      |
| 62) Isopropylbenzene          | 10.539 | 105  | 733788   | 9.197  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 295041   | 8.355  | ppbv  | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 183390   | 9.144  | ppbv  | 100      |
| 65) tert-Butylbenzene         | 11.532 | 119  | 644953   | 8.795  | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.617 | 91   | 83269    | 10.333 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 11.769 | 105  | 900074   | 8.824  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 778987   | 8.790  | ppbv  | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 801364   | 8.682  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 573039   | 9.157  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 596757   | 8.982  | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 512855   | 8.743  | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 565064   | 8.248  | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 320380   | 8.997  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 319089   | 8.915  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 305822   | 8.832  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 291833   | 8.346  | ppbv  | 100      |
| 79) Naphthalene               | 13.513 | 128  | 677578   | 8.271  | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 376995   | 8.074  | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 306119   | 8.702  | ppbv  | 100      |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042350.D  
 Acq On : 17 Apr 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 123206   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 355918   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 335603   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 275715   | 9.998    | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.000% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 45008  | 2.068 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 41853  | 2.019 | ppbv   | 97     |
| 4) Chloromethane              | 1.534 | 50  | 17272  | 2.005 | ppbv   | 93     |
| 5) Vinyl Chloride             | 1.580 | 62  | 16979  | 1.811 | ppbv   | 92     |
| 6) Bromomethane               | 1.667 | 94  | 7398   | 1.821 | ppbv # | 80     |
| 7) Chloroethane               | 1.706 | 64  | 6889   | 2.031 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 38955  | 2.084 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 18671  | 1.978 | ppbv   | 97     |
| 10) Heptane                   | 4.978 | 43  | 54438m | 2.143 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 43035  | 2.079 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 35415  | 2.092 | ppbv   | 100    |
| 13) Ethanol                   | 1.722 | 45  | 3034m  | 3.933 | ppbv   |        |
| 14) Bromoethene               | 1.780 | 108 | 13049  | 2.045 | ppbv # | 92     |
| 15) Acetone                   | 1.835 | 43  | 42949  | 2.129 | ppbv   | 93     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 18110  | 1.912 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 51829  | 2.074 | ppbv # | 94     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 15690  | 1.928 | ppbv   | 87     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 22106  | 1.973 | ppbv # | 38     |
| 20) Methylene Chloride        | 2.062 | 84  | 14329  | 1.814 | ppbv # | 82     |
| 21) Allyl Chloride            | 2.098 | 41  | 27340  | 1.963 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 18142  | 2.015 | ppbv   | 97     |
| 23) Vinyl Acetate             | 2.463 | 43  | 18454  | 2.260 | ppbv # | 91     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 34077  | 1.993 | ppbv   | 96     |
| 25) Ethyl Acetate             | 2.835 | 43  | 101467 | 2.040 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 40046  | 1.990 | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.149 | 76  | 43975  | 2.041 | ppbv # | 64     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 27905  | 2.116 | ppbv   | 97     |
| 29) Chloroform                | 2.848 | 83  | 58946  | 2.072 | ppbv   | 100    |
| 30) Cyclohexane               | 3.858 | 84  | 33195  | 2.048 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 39249  | 2.051 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 61442  | 2.014 | ppbv   | 99     |
| 34) 2-Butanone                | 2.560 | 43  | 58249  | 2.069 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 60291  | 1.872 | ppbv   | 88     |
| 36) Benzene                   | 3.658 | 78  | 79814  | 2.079 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 47398  | 2.057 | ppbv   | 100    |
| 38) Trichloroethene           | 4.544 | 130 | 31826m | 1.891 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 28806  | 2.012 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.593 | 88  | 16536m | 2.133 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.059 | 42  | 33298  | 2.047 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.489 | 83  | 64941  | 2.025 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 35256  | 2.046 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 139641 | 2.103 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 36265  | 2.050 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042350.D  
 Acq On : 17 Apr 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:26:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 45327m   | 2.096 | ppbv  |          |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 29879    | 2.049 | ppbv  | 88       |
| 48) Dibromochloromethane      | 7.389  | 129  | 53069    | 2.061 | ppbv  | 100      |
| 49) Bromoform                 | 9.483  | 173  | 48069    | 2.135 | ppbv  | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 102182   | 2.180 | ppbv  | 99       |
| 51) 2-Hexanone                | 7.441  | 43   | 100443   | 2.375 | ppbv  | 98       |
| 52) Tetrachloroethene         | 8.228  | 164  | 27854    | 1.877 | ppbv  | 96       |
| 53) Toluene                   | 6.933  | 91   | 97493    | 2.116 | ppbv  | 98       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 43153    | 2.076 | ppbv  | 87       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 42601    | 2.097 | ppbv  | 95       |
| 57) Chlorobenzene             | 8.924  | 112  | 71685    | 2.054 | ppbv  | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 138810   | 2.088 | ppbv  | 98       |
| 59) m/p-Xylene                | 9.532  | 91   | 222542m  | 4.142 | ppbv  |          |
| 60) o-Xylene                  | 9.963  | 91   | 111972   | 2.076 | ppbv  | 98       |
| 61) Styrene                   | 9.872  | 104  | 54229    | 2.106 | ppbv  | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 163716   | 2.067 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 64952    | 1.853 | ppbv  | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 40956    | 2.058 | ppbv  | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 155401   | 2.135 | ppbv  | 92       |
| 66) Benzyl Chloride           | 11.616 | 91   | 17300    | 2.163 | ppbv  | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 218327   | 2.156 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 188657   | 2.145 | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 198221   | 2.164 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 128858   | 2.075 | ppbv  | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 137872   | 2.091 | ppbv  | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 123580   | 2.123 | ppbv  | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 145510   | 2.140 | ppbv  | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 75082    | 2.124 | ppbv  | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 75323    | 2.120 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 74786    | 2.176 | ppbv  | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 76158    | 2.194 | ppbv  | 100      |
| 79) Naphthalene               | 13.513 | 128  | 195233   | 2.401 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 119262   | 2.574 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 82156    | 2.353 | ppbv  | 99       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Apr 18 01:27:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 124177   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 359907   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 329090   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 269087   | 9.950    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.500% |

|                               |       |     |        |       |        |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| Target Compounds              |       |     |        |       | Qvalue |     |
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 22816  | 1.040 | ppbv   | 93  |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 20573  | 0.985 | ppbv   | 97  |
| 4) Chloromethane              | 1.535 | 50  | 9008   | 1.038 | ppbv   | 99  |
| 5) Vinyl Chloride             | 1.580 | 62  | 8807   | 0.932 | ppbv   | 98  |
| 6) Bromomethane               | 1.671 | 94  | 4099   | 1.001 | ppbv   | 91  |
| 7) Chloroethane               | 1.706 | 64  | 3559   | 1.041 | ppbv   | 90  |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 19251  | 1.022 | ppbv   | 100 |
| 9) Propene                    | 1.486 | 41  | 9892   | 1.040 | ppbv   | 92  |
| 10) Heptane                   | 4.982 | 43  | 28507m | 1.114 | ppbv   |     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 22428  | 1.075 | ppbv   | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 17865  | 1.047 | ppbv   | 98  |
| 13) Ethanol                   | 1.722 | 45  | 1730m  | 2.225 | ppbv   |     |
| 14) Bromoethene               | 1.784 | 108 | 6766   | 1.052 | ppbv # | 89  |
| 15) Acetone                   | 1.839 | 43  | 23537  | 1.158 | ppbv   | 97  |
| 16) 1,3-Butadiene             | 1.609 | 39  | 10377m | 1.087 | ppbv   |     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 26477  | 1.051 | ppbv # | 90  |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 7890   | 0.962 | ppbv   | 94  |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 12175  | 1.078 | ppbv # | 39  |
| 20) Methylene Chloride        | 2.062 | 84  | 9046   | 1.136 | ppbv   | 87  |
| 21) Allyl Chloride            | 2.098 | 41  | 15057  | 1.073 | ppbv   | 91  |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 9421   | 1.038 | ppbv   | 96  |
| 23) Vinyl Acetate             | 2.467 | 43  | 9234   | 1.122 | ppbv # | 90  |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 18236  | 1.058 | ppbv   | 99  |
| 25) Ethyl Acetate             | 2.842 | 43  | 51494  | 1.027 | ppbv # | 97  |
| 26) Hexane                    | 2.826 | 57  | 21350  | 1.053 | ppbv   | 95  |
| 27) Carbon Disulfide          | 2.153 | 76  | 20739  | 0.955 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 14164  | 1.066 | ppbv # | 85  |
| 29) Chloroform                | 2.852 | 83  | 28973  | 1.011 | ppbv   | 100 |
| 30) Cyclohexane               | 3.862 | 84  | 16547m | 1.013 | ppbv   |     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 19904  | 1.032 | ppbv   | 97  |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 31653  | 1.030 | ppbv   | 98  |
| 34) 2-Butanone                | 2.564 | 43  | 29735  | 1.045 | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 29875  | 0.917 | ppbv   | 94  |
| 36) Benzene                   | 3.661 | 78  | 38707  | 0.997 | ppbv   | 95  |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 23284  | 0.999 | ppbv   | 97  |
| 38) Trichloroethene           | 4.551 | 130 | 16119  | 0.947 | ppbv   | 96  |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 14866  | 1.027 | ppbv   | 96  |
| 40) 1,4-Dioxane               | 4.597 | 88  | 8737m  | 1.114 | ppbv   |     |
| 41) Tetrahydrofuran           | 3.062 | 42  | 17259  | 1.049 | ppbv   | 96  |
| 42) Bromodichloromethane      | 4.490 | 83  | 32721  | 1.009 | ppbv # | 98  |
| 43) Methyl Methacrylate       | 4.885 | 69  | 18699m | 1.073 | ppbv   |     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 68946m | 1.027 | ppbv   |     |
| 45) t-1,3-Dichloropropene     | 6.416 | 75  | 18347m | 1.026 | ppbv   |     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 22189m   | 1.015 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 15457m   | 1.048 | ppbv   |          |
| 48) Dibromochloromethane      | 7.390  | 129  | 25948    | 0.997 | ppbv   | 100      |
| 49) Bromoform                 | 9.484  | 173  | 22413    | 0.984 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 49725    | 1.049 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.445  | 43   | 47178    | 1.103 | ppbv   | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 14154    | 0.943 | ppbv   | 93       |
| 53) Toluene                   | 6.940  | 91   | 46611    | 1.001 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 21780    | 1.036 | ppbv   | 93       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 21052    | 1.057 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.921  | 112  | 35113    | 1.026 | ppbv # | 95       |
| 58) Ethyl Benzene             | 9.354  | 91   | 68703    | 1.054 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.552  | 91   | 110702m  | 2.101 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 55831    | 1.056 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 25544    | 1.012 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.542 | 105  | 81286    | 1.047 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 32410    | 0.943 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 19898    | 1.019 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 77598    | 1.087 | ppbv   | 92       |
| 66) Benzyl Chloride           | 11.617 | 91   | 7864     | 1.003 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 105919   | 1.067 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 92733    | 1.075 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.284 | 91   | 96306    | 1.072 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 63321    | 1.040 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 69698    | 1.078 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 60927    | 1.067 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 73888    | 1.108 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 36877    | 1.064 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 36692    | 1.053 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 35977    | 1.068 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 37377    | 1.098 | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 90710    | 1.138 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 50487    | 1.111 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 36764    | 1.074 | ppbv   | 99       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042352.D  
 Acq On : 17 Apr 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Apr 18 01:28:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 120542   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 353137   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 321644   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 265161   | 10.032   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.300% |

| Target Compounds              |       |     |        |       | Qvalue |    |
|-------------------------------|-------|-----|--------|-------|--------|----|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 11036  | 0.518 | ppbv   | 92 |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 11304  | 0.557 | ppbv # | 84 |
| 4) Chloromethane              | 1.531 | 50  | 4534   | 0.538 | ppbv   | 97 |
| 5) Vinyl Chloride             | 1.580 | 62  | 4406   | 0.480 | ppbv   | 97 |
| 6) Bromomethane               | 1.667 | 94  | 2394   | 0.602 | ppbv   | 95 |
| 7) Chloroethane               | 1.703 | 64  | 1824   | 0.550 | ppbv # | 87 |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 9381   | 0.513 | ppbv   | 99 |
| 9) Propene                    | 1.483 | 41  | 5303   | 0.574 | ppbv   | 93 |
| 10) Heptane                   | 4.978 | 43  | 14728m | 0.593 | ppbv   |    |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 10150  | 0.501 | ppbv   | 97 |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 8371   | 0.506 | ppbv   | 93 |
| 13) Ethanol                   | 1.719 | 45  | 1656m  | 2.194 | ppbv   |    |
| 14) Bromoethene               | 1.780 | 108 | 3238   | 0.519 | ppbv # | 93 |
| 15) Acetone                   | 1.835 | 43  | 11859  | 0.601 | ppbv # | 74 |
| 16) 1,3-Butadiene             | 1.609 | 39  | 6120   | 0.660 | ppbv # | 82 |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 13640  | 0.558 | ppbv # | 85 |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 4430   | 0.556 | ppbv # | 87 |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 6327   | 0.577 | ppbv # | 39 |
| 20) Methylene Chloride        | 2.059 | 84  | 5273   | 0.682 | ppbv   | 93 |
| 21) Allyl Chloride            | 2.094 | 41  | 7692   | 0.565 | ppbv # | 81 |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 4908   | 0.557 | ppbv   | 92 |
| 23) Vinyl Acetate             | 2.460 | 43  | 3953   | 0.495 | ppbv # | 57 |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 8753   | 0.523 | ppbv # | 94 |
| 25) Ethyl Acetate             | 2.835 | 43  | 26686  | 0.548 | ppbv # | 93 |
| 26) Hexane                    | 2.823 | 57  | 11448  | 0.581 | ppbv   | 91 |
| 27) Carbon Disulfide          | 2.149 | 76  | 11472  | 0.544 | ppbv # | 1  |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 6833   | 0.530 | ppbv # | 32 |
| 29) Chloroform                | 2.848 | 83  | 14815  | 0.532 | ppbv   | 93 |
| 30) Cyclohexane               | 3.852 | 84  | 8572   | 0.541 | ppbv   | 94 |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 9571   | 0.511 | ppbv   | 96 |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 15413  | 0.516 | ppbv   | 97 |
| 34) 2-Butanone                | 2.560 | 43  | 15640  | 0.560 | ppbv   | 97 |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 14683  | 0.459 | ppbv   | 87 |
| 36) Benzene                   | 3.651 | 78  | 20233  | 0.531 | ppbv   | 97 |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 12194  | 0.533 | ppbv # | 95 |
| 38) Trichloroethene           | 4.551 | 130 | 7819   | 0.468 | ppbv # | 78 |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 7790m  | 0.548 | ppbv   |    |
| 40) 1,4-Dioxane               | 4.599 | 88  | 4637m  | 0.603 | ppbv   |    |
| 41) Tetrahydrofuran           | 3.062 | 42  | 9144m  | 0.567 | ppbv   |    |
| 42) Bromodichloromethane      | 4.489 | 83  | 16642  | 0.523 | ppbv # | 91 |
| 43) Methyl Methacrylate       | 4.881 | 69  | 9620m  | 0.563 | ppbv   |    |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 34170  | 0.519 | ppbv   | 91 |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 9073m  | 0.517 | ppbv   |    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042352.D  
 Acq On : 17 Apr 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 10827m   | 0.505 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 7466m    | 0.516 | ppbv   |          |
| 48) Dibromochloromethane      | 7.386  | 129  | 13122    | 0.514 | ppbv   | 97       |
| 49) Bromoform                 | 9.477  | 173  | 10988    | 0.492 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 27206m   | 0.585 | ppbv   |          |
| 51) 2-Hexanone                | 7.441  | 43   | 23684    | 0.564 | ppbv   | 98       |
| 52) Tetrachloroethene         | 8.221  | 164  | 7412     | 0.503 | ppbv # | 88       |
| 53) Toluene                   | 6.927  | 91   | 24200    | 0.529 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 10282    | 0.499 | ppbv   | 84       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 9987     | 0.513 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.917  | 112  | 18149m   | 0.543 | ppbv   |          |
| 58) Ethyl Benzene             | 9.351  | 91   | 32624    | 0.512 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.532  | 91   | 54197m   | 1.053 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 27983    | 0.541 | ppbv   | 99       |
| 61) Styrene                   | 9.869  | 104  | 12736    | 0.516 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.539 | 105  | 40481    | 0.533 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 15920    | 0.474 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 10369    | 0.544 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 37294    | 0.535 | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.613 | 91   | 3878     | 0.506 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 52139    | 0.537 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 45574    | 0.541 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 48004    | 0.547 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 31709    | 0.533 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 33048    | 0.523 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 30464    | 0.546 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 37765    | 0.579 | ppbv # | 90       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 18003    | 0.531 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 18300    | 0.537 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 17446    | 0.530 | ppbv   | 95       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 18705    | 0.562 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 38521    | 0.494 | ppbv # | 92       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 21076    | 0.475 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 16504    | 0.493 | ppbv   | 97       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042353.D  
 Acq On : 17 Apr 2025 11:50  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025  
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.791  | 49    | 119461   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 350484   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 315004   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.381 | 95    | 256417   | 9.906    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 1088     | 0.120    | ppbv # | 74       |
| 32) 1,1,1-Trichloroethane     | 3.367  | 97    | 3393m    | 0.115    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 3204     | 0.101    | ppbv # | 94       |
| 38) Trichloroethene           | 4.551  | 130   | 1771m    | 0.107    | ppbv   |          |
| 52) Tetrachloroethene         | 8.222  | 164   | 1583m    | 0.108    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.662  | 107   | 2177m    | 0.106    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 3706m    | 0.113    | ppbv   |          |
| 79) Naphthalene               | 13.517 | 128   | 7664     | 0.100    | ppbv # | 92       |
| -----                         |        |       |          |          |        |          |

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

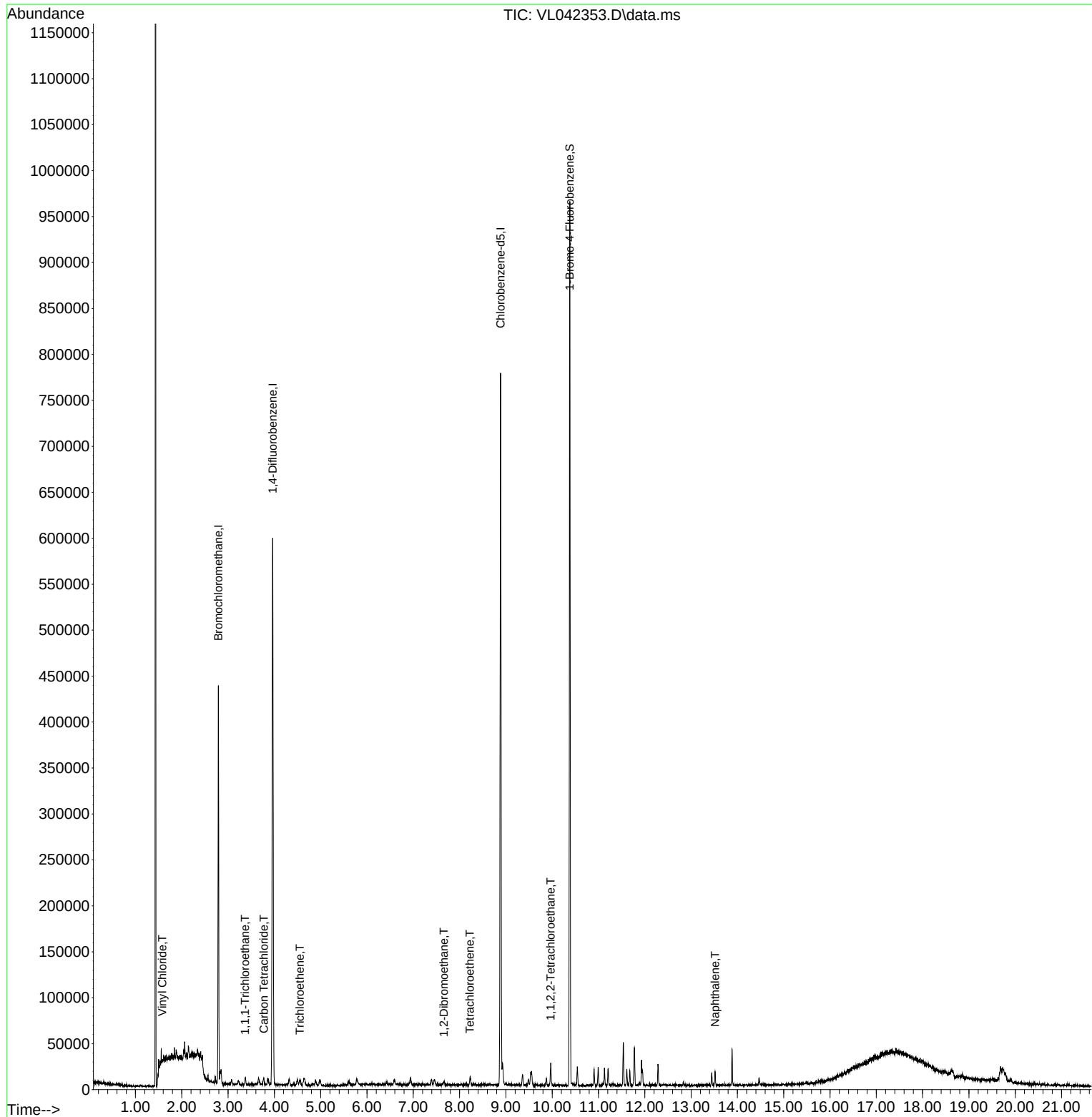
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042353.D  
Acq On : 17 Apr 2025 11:50  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042354.D  
 Acq On : 17 Apr 2025 12:22  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 120042   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 349264   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 312999   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 256230   | 9.962    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 361      | 0.040    | ppbv   | # 76     |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 1120m    | 0.038    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 1382m    | 0.044    | ppbv   |          |
| 38) Trichloroethene           | 4.538  | 130   | 674m     | 0.041    | ppbv   |          |
| 52) Tetrachloroethene         | 8.228  | 164   | 569m     | 0.039    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83    | 1321m    | 0.040    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

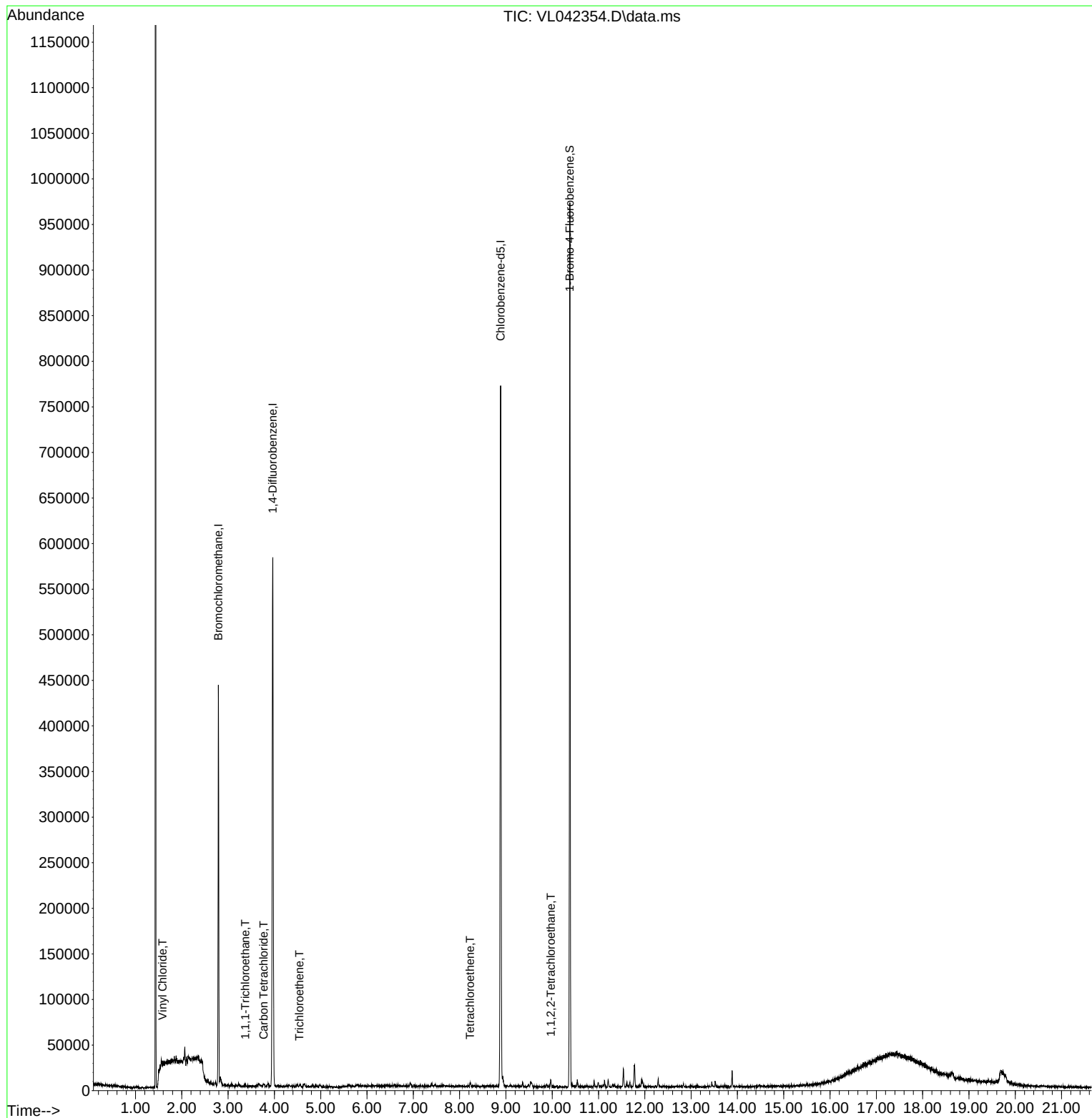
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042354.D  
Acq On : 17 Apr 2025 12:22  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042355.D  
 Acq On : 17 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 116071   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 332080   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 308463   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 254437 10.038 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 292784 | 14.277 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 280042 | 14.341 | ppbv   | 98     |
| 4) Chloromethane              | 1.532 | 50  | 115775 | 14.266 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 112650 | 12.752 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 52805  | 13.800 | ppbv   | 88     |
| 7) Chloroethane               | 1.703 | 64  | 44347  | 13.881 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 255029 | 14.484 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 123102 | 13.842 | ppbv   | 95     |
| 10) Heptane                   | 4.979 | 43  | 336134 | 14.047 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.875 | 101 | 278059 | 14.258 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 230366 | 14.447 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 6324   | 8.702  | ppbv   | 76     |
| 14) Bromoethene               | 1.781 | 108 | 84851  | 14.117 | ppbv   | 99     |
| 15) Acetone                   | 1.833 | 43  | 229086 | 12.056 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 117997 | 13.224 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 320605 | 13.615 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 107666 | 14.045 | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 139004 | 13.169 | ppbv   | 94     |
| 20) Methylene Chloride        | 2.059 | 84  | 91093  | 12.241 | ppbv   | 90     |
| 21) Allyl Chloride            | 2.095 | 41  | 187995 | 14.329 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 118492 | 13.970 | ppbv   | 94     |
| 23) Vinyl Acetate             | 2.460 | 43  | 106135 | 13.799 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 235466 | 14.615 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.836 | 43  | 663644 | 14.166 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 260975 | 13.765 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.150 | 76  | 299098 | 14.734 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.438 | 73  | 174855 | 14.076 | ppbv   | 95     |
| 29) Chloroform                | 2.849 | 83  | 385686 | 14.393 | ppbv   | 99     |
| 30) Cyclohexane               | 3.855 | 84  | 217375 | 14.238 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 264972 | 14.700 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.367 | 97  | 412537 | 14.357 | ppbv   | 99     |
| 34) 2-Butanone                | 2.558 | 43  | 367315 | 13.986 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.762 | 117 | 409916 | 13.639 | ppbv   | 94     |
| 36) Benzene                   | 3.655 | 78  | 522156 | 14.578 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 319517 | 14.863 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 208508 | 13.278 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 189697 | 14.201 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.580 | 88  | 92114  | 12.733 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.053 | 42  | 214949 | 14.166 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.490 | 83  | 442735 | 14.798 | ppbv   | 95     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 219757 | 13.670 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 893529 | 14.425 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 244470 | 14.810 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042355.D  
 Acq On : 17 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 300145   | 14.878 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 6.581  | 97   | 198874   | 14.615 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.390  | 129  | 362887   | 15.105 | ppbv   | 98       |
| 49) Bromoform                 | 9.484  | 173  | 312282   | 14.865 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.749  | 43   | 563658   | 12.889 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 467001   | 11.834 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.225  | 164  | 180631   | 13.046 | ppbv   | 97       |
| 53) Toluene                   | 6.933  | 91   | 619420   | 14.411 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 280071   | 14.442 | ppbv   | 92       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 268626   | 14.389 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.921  | 112  | 454017   | 14.151 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.354  | 91   | 874424   | 14.308 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 1388086m | 28.109 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 689246   | 13.902 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 339508   | 14.347 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 1018968  | 13.999 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 412898   | 12.816 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 260812   | 14.255 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 899720   | 13.449 | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.617 | 91   | 96016    | 13.061 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1253263  | 13.468 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 1081850  | 13.382 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 1117042  | 13.266 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 806728   | 14.131 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 848077   | 13.992 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 726558   | 13.578 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 785772   | 12.572 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 444086   | 13.670 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 450662   | 13.802 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 427372   | 13.529 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 404441   | 12.679 | ppbv   | 100      |
| 79) Naphthalene               | 13.514 | 128  | 944085   | 12.632 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 540339   | 12.686 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 429982   | 13.398 | ppbv   | 98       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 113992   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.958 | 114  | 324528   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 305357   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 250149 9.969 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 197623 | 9.812  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 191010 | 9.960  | ppbv   | 99     |
| 4) Chloromethane              | 1.531 | 50  | 78080  | 9.796  | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.580 | 62  | 75628  | 8.717  | ppbv   | 97     |
| 6) Bromomethane               | 1.667 | 94  | 35115  | 9.422  | ppbv   | 84     |
| 7) Chloroethane               | 1.703 | 64  | 30158  | 9.612  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 172863 | 9.997  | ppbv   | 98     |
| 9) Propene                    | 1.482 | 41  | 84636  | 9.690  | ppbv   | 95     |
| 10) Heptane                   | 4.978 | 43  | 221840 | 9.041  | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 187827 | 9.807  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 148485 | 9.482  | ppbv   | 100    |
| 13) Ethanol                   | 1.722 | 45  | 4171   | 3.005  | ppbv   | 97     |
| 14) Bromoethene               | 1.780 | 108 | 58320  | 9.880  | ppbv   | 99     |
| 15) Acetone                   | 1.835 | 43  | 158708 | 8.505  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 78804  | 8.829  | ppbv   | 95     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 218954 | 9.468  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 67940  | 9.287  | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 96365  | 9.296  | ppbv   | 95     |
| 20) Methylene Chloride        | 2.062 | 84  | 59203  | 8.101  | ppbv   | 91     |
| 21) Allyl Chloride            | 2.094 | 41  | 120704 | 9.368  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 78070  | 9.373  | ppbv   | 99     |
| 23) Vinyl Acetate             | 2.463 | 43  | 73373  | 9.714  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 155571 | 9.832  | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.835 | 43  | 449014 | 9.759  | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 175752 | 9.439  | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.149 | 76  | 191117 | 9.587  | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 115190 | 9.442  | ppbv   | 94     |
| 29) Chloroform                | 2.848 | 83  | 260855 | 9.912  | ppbv   | 98     |
| 30) Cyclohexane               | 3.855 | 84  | 148246 | 9.849  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 179993 | 10.167 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.369 | 97  | 276599 | 9.336  | ppbv   | 98     |
| 34) 2-Butanone                | 2.557 | 43  | 248969 | 9.700  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 271862 | 9.256  | ppbv   | 98     |
| 36) Benzene                   | 3.657 | 78  | 350545 | 10.014 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 211790 | 10.081 | ppbv   | 99     |
| 38) Trichloroethene           | 4.551 | 130 | 139872 | 9.143  | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 129239 | 9.908  | ppbv   | 99     |
| 40) 1,4-Dioxane               | 4.583 | 88  | 61587  | 8.591  | ppbv # | 96     |
| 41) Tetrahydrofuran           | 3.052 | 42  | 141861 | 9.479  | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.489 | 83  | 296946 | 10.156 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 149209 | 9.458  | ppbv   | 96     |
| 44) 2,2,4-Trimethylpentane    | 4.641 | 57  | 606376 | 10.030 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 160750 | 9.975  | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025  
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.599  | 75   | 200144   | 10.148 | ppbv   | 88       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 135575   | 10.202 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.389  | 129  | 237206   | 10.103 | ppbv   | 100      |
| 49) Bromoform                 | 9.483  | 173  | 205630   | 10.016 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 376145   | 8.819  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 310521   | 8.118  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.224  | 164  | 119424   | 8.827  | ppbv   | 94       |
| 53) Toluene                   | 6.933  | 91   | 419462   | 9.986  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 186231   | 9.792  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 182712   | 9.886  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.920  | 112  | 304533   | 9.589  | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.354  | 91   | 583515   | 9.645  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.532  | 91   | 932801m  | 19.139 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 464522   | 9.465  | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 229869   | 9.813  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 685965   | 9.520  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 279007   | 8.773  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 172654   | 9.533  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 609500   | 9.203  | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.613 | 91   | 63051    | 8.664  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 853807   | 9.268  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 737861   | 9.220  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 771461   | 9.255  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 543794   | 9.622  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 563136   | 9.385  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 486583   | 9.186  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 531576   | 8.592  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 297157   | 9.240  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 297697   | 9.210  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 289284   | 9.251  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 276960   | 8.771  | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 647349   | 8.750  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 350259   | 8.307  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 290260   | 9.136  | ppbv   | 99       |

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





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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   | 91    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.767 | 1.734  | 1.9   | 95    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.682 | 1.676  | 0.4   | 97    | 0.00     |
| 4    | Chloromethane               | 0.699 | 0.685  | 2.0   | 95    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.761 | 0.663  | 12.9  | 94    | 0.00     |
| 6 T  | Bromomethane                | 0.327 | 0.308  | 5.8   | 92    | 0.00     |
| 7    | Chloroethane                | 0.275 | 0.265  | 3.6   | 95    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.517 | 1.516  | 0.1   | 96    | 0.00     |
| 9 T  | Propene                     | 0.766 | 0.742  | 3.1   | 98    | 0.00     |
| 10 T | Heptane                     | 2.153 | 1.946  | 9.6   | 94    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.680 | 1.648  | 1.9   | 96    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.303  | 5.2   | 92    | 0.00     |
| 13   | Ethanol                     | 0.122 | 0.037# | 69.7# | 94    | 0.00     |
| 14 T | Bromoethene                 | 0.518 | 0.512  | 1.2   | 95    | 0.00     |
| 15 T | Acetone                     | 1.637 | 1.392  | 15.0  | 100   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.783 | 0.691  | 11.7  | 96    | 0.00     |
| 17   | tert-Butyl alcohol          | 2.029 | 1.921  | 5.3   | 97    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.642 | 0.596  | 7.2   | 93    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.909 | 0.845  | 7.0   | 94    | 0.00     |
| 20 T | Methylene Chloride          | 0.641 | 0.519  | 19.0  | 95    | 0.00     |
| 21 T | Allyl Chloride              | 1.130 | 1.059  | 6.3   | 99    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.731 | 0.685  | 6.3   | 94    | 0.00     |
| 23 T | Vinyl Acetate               | 0.663 | 0.644  | 2.9   | 105   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.388 | 1.365  | 1.7   | 97    | 0.00     |
| 25 T | Ethyl Acetate               | 4.036 | 3.939  | 2.4   | 97    | 0.00     |
| 26 T | Hexane                      | 1.633 | 1.542  | 5.6   | 98    | 0.00     |
| 27 T | Carbon Disulfide            | 1.749 | 1.677  | 4.1   | 91    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.070 | 1.011  | 5.5   | 98    | 0.00     |
| 29 T | Chloroform                  | 2.309 | 2.288  | 0.9   | 97    | 0.00     |
| 30 T | Cyclohexane                 | 1.320 | 1.300  | 1.5   | 94    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.553 | 1.579  | -1.7  | 98    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.599 | 2.426  | 6.7   | 97    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 89    | 0.00     |
| 34 T | 2-Butanone                  | 0.791 | 0.767  | 3.0   | 99    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.905 | 0.838  | 7.4   | 96    | 0.00     |
| 36 T | Benzene                     | 1.079 | 1.080  | -0.1  | 95    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.647 | 0.653  | -0.9  | 98    | 0.00     |
| 38 T | Trichloroethene             | 0.471 | 0.431  | 8.5   | 97    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.402 | 0.398  | 1.0   | 95    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.221 | 0.190  | 14.0  | 92    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.461 | 0.437  | 5.2   | 95    | 0.00     |
| 42 T | Bromodichloromethane        | 0.901 | 0.915  | -1.6  | 95    | 0.00     |
| 43   | Methyl Methacrylate         | 0.486 | 0.460  | 5.3   | 95    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.863 | 1.868  | -0.3  | 97    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.497 | 0.495  | 0.4   | 96    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.608 | 0.617  | -1.5  | 96    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.410 | 0.418  | -2.0  | 98    | 0.00     |
| 48 T | Dibromochloromethane        | 0.723 | 0.731  | -1.1  | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Quant Time: Apr 18 02:15:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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                 | 0.633 | 0.634 | -0.2 | 91    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.314 | 1.159 | 11.8 | 95    | 0.00     |
| 51 T | 2-Hexanone                | 1.179 | 0.957 | 18.8 | 95    | 0.00     |
| 52 T | Tetrachloroethene         | 0.417 | 0.368 | 11.8 | 91    | 0.00     |
| 53 T | Toluene                   | 1.294 | 1.293 | 0.1  | 96    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.586 | 0.574 | 2.0  | 94    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.605 | 0.598 | 1.2  | 98    | 0.00     |
| 57 T | Chlorobenzene             | 1.040 | 0.997 | 4.1  | 94    | 0.00     |
| 58 T | Ethyl Benzene             | 1.981 | 1.911 | 3.5  | 94    | 0.00     |
| 59 T | m/p-Xylene                | 1.596 | 1.527 | 4.3  | 95    | -0.02    |
| 60 T | o-Xylene                  | 1.607 | 1.521 | 5.4  | 95    | 0.00     |
| 61 T | Styrene                   | 0.767 | 0.753 | 1.8  | 94    | 0.00     |
| 62   | Isopropylbenzene          | 2.360 | 2.246 | 4.8  | 93    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 1.042 | 0.914 | 12.3 | 95    | 0.00     |
| 64   | n-propylbenzene           | 0.593 | 0.565 | 4.7  | 94    | 0.00     |
| 65   | tert-Butylbenzene         | 2.169 | 1.996 | 8.0  | 95    | 0.00     |
| 66 T | Benzyl Chloride           | 0.238 | 0.206 | 13.4 | 76    | 0.00     |
| 67   | sec-Butylbenzene          | 3.017 | 2.796 | 7.3  | 95    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.822 | 0.819 | 0.4  | 89    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.621 | 2.416 | 7.8  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 2.730 | 2.526 | 7.5  | 96    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.851 | 1.781 | 3.8  | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.965 | 1.844 | 6.2  | 94    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.735 | 1.593 | 8.2  | 95    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 2.026 | 1.741 | 14.1 | 94    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 1.053 | 0.973 | 7.6  | 93    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 1.059 | 0.975 | 7.9  | 93    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 1.024 | 0.947 | 7.5  | 95    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 1.034 | 0.907 | 12.3 | 95    | 0.00     |
| 79 T | Naphthalene               | 2.423 | 2.120 | 12.5 | 96    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 1.381 | 1.147 | 16.9 | 93    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 1.040 | 0.951 | 8.6  | 95    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

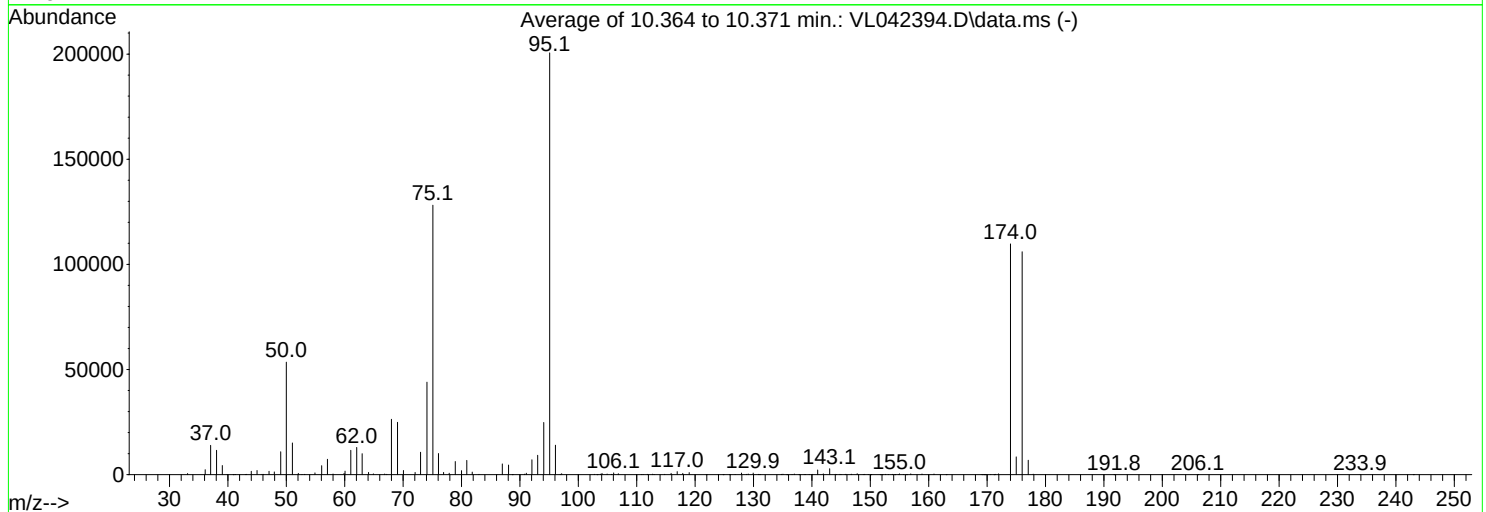
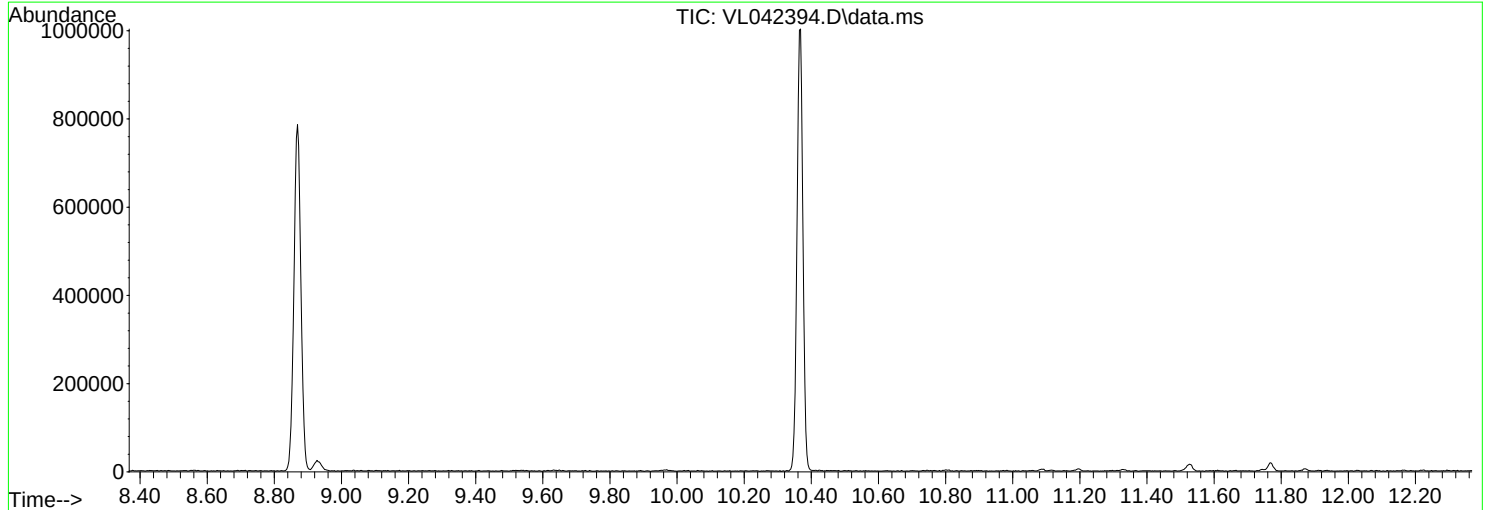


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
Data File : VL042394.D  
Acq On : 21 Apr 2025 07:58  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

| 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              | 26.7         | 53502      | PASS                |
| 75             | 95              | 30              | 66              | 63.9         | 128181     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 200597     | PASS                |
| 96             | 95              | 5               | 9               | 7.0          | 13990      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 174            | 95              | 50              | 120             | 54.7         | 109757     | PASS                |
| 175            | 174             | 4               | 9               | 7.7          | 8464       | PASS                |
| 176            | 174             | 93              | 101             | 96.6         | 106032     | PASS                |
| 177            | 176             | 5               | 9               | 6.4          | 6826       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042395.D  
 Acq On : 21 Apr 2025 08:41  
 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 04/22/2025  
 Supervised By : Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:50:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 118349   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 334726   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 297161   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 262155 10.736 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.400%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 214405 | 10.253 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 172276 | 8.652  | ppbv   | 96     |
| 4) Chloromethane              | 1.531 | 50  | 78242  | 9.455  | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.576 | 62  | 78692  | 8.736  | ppbv   | 98     |
| 6) Bromomethane               | 1.664 | 94  | 36698  | 9.484  | ppbv   | 92     |
| 7) Chloroethane               | 1.703 | 64  | 31945  | 9.806  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 182317 | 10.155 | ppbv   | 94     |
| 9) Propene                    | 1.483 | 41  | 67297  | 7.422  | ppbv   | 98     |
| 10) Heptane                   | 4.972 | 43  | 178981 | 7.026  | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 205368 | 10.328 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 154701 | 9.515  | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 4511   | 3.130  | ppbv   | 88     |
| 14) Bromoethene               | 1.780 | 108 | 59325  | 9.680  | ppbv   | 98     |
| 15) Acetone                   | 1.832 | 43  | 168061 | 8.675  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.606 | 39  | 81189  | 8.762  | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 221320 | 9.218  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 70214  | 9.244  | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 98218  | 9.126  | ppbv   | 94     |
| 20) Methylene Chloride        | 2.059 | 84  | 60052  | 7.915  | ppbv   | 92     |
| 21) Allyl Chloride            | 2.091 | 41  | 121139 | 9.056  | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 79496  | 9.192  | ppbv   | 92     |
| 23) Vinyl Acetate             | 2.457 | 43  | 57298  | 7.306  | ppbv   | 97     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 154500 | 9.405  | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.832 | 43  | 392210 | 8.211  | ppbv   | 99     |
| 26) Hexane                    | 2.823 | 57  | 150573 | 7.789  | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.146 | 76  | 199908 | 9.658  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 106569 | 8.414  | ppbv   | 95     |
| 29) Chloroform                | 2.845 | 83  | 259635 | 9.502  | ppbv   | 98     |
| 30) Cyclohexane               | 3.852 | 84  | 126496 | 8.095  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 166357 | 9.051  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 285590 | 9.284  | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43  | 220144 | 8.316  | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 291229 | 9.614  | ppbv   | 91     |
| 36) Benzene                   | 3.651 | 78  | 303987 | 8.420  | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 221151 | 10.206 | ppbv   | 97     |
| 38) Trichloroethene           | 4.541 | 130 | 123150 | 7.804  | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 4.305 | 63  | 107877 | 8.018  | ppbv # | 88     |
| 40) 1,4-Dioxane               | 4.574 | 88  | 53874  | 7.286  | ppbv # | 94     |
| 41) Tetrahydrofuran           | 3.049 | 42  | 118863 | 7.701  | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.483 | 83  | 295552 | 9.800  | ppbv   | 98     |
| 43) Methyl Methacrylate       | 4.875 | 69  | 124747 | 7.667  | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.629 | 57  | 507437 | 8.138  | ppbv   | 95     |
| 45) t-1,3-Dichloropropene     | 6.406 | 75  | 142879 | 8.596  | ppbv   | 96     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042395.D  
 Acq On : 21 Apr 2025 08:41  
 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 04/22/2025  
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:50:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

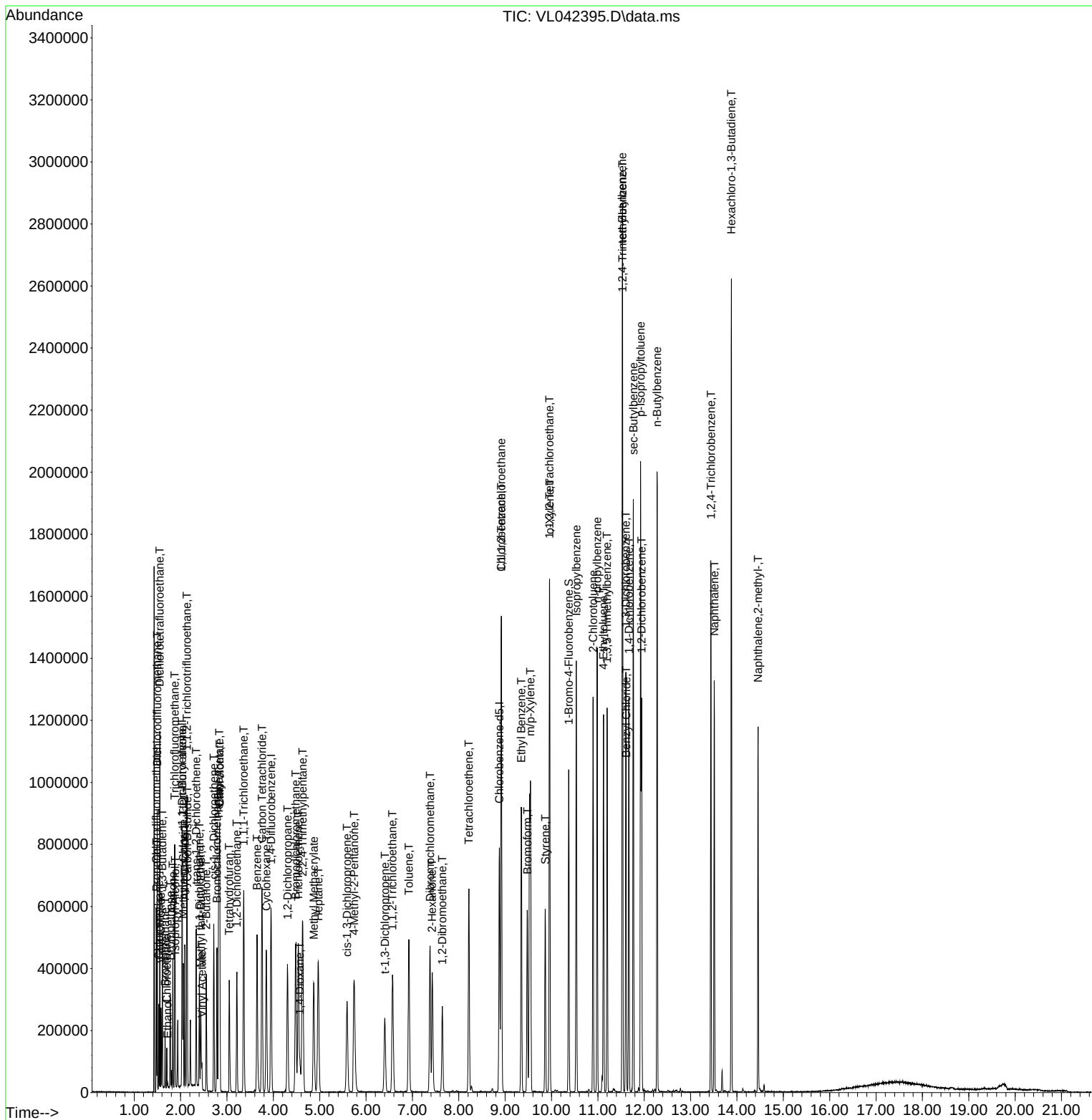
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.590  | 75   | 174844   | 8.595  | ppbv   | 88       |
| 47) 1,1,2-Trichloroethane     | 6.571  | 97   | 119399   | 8.711  | ppbv   | 92       |
| 48) Dibromochloromethane      | 7.380  | 129  | 229466   | 9.476  | ppbv   | 99       |
| 49) Bromoform                 | 9.480  | 173  | 187094   | 8.836  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.742  | 43   | 321752   | 7.314  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.425  | 43   | 260009   | 6.590  | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.218  | 164  | 104294   | 7.474  | ppbv   | 90       |
| 53) Toluene                   | 6.923  | 91   | 355540   | 8.206  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.642  | 107  | 169774   | 8.654  | ppbv   | 91       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 170285   | 9.468  | ppbv   | 96       |
| 57) Chlorobenzene             | 8.917  | 112  | 276428   | 8.944  | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.348  | 91   | 517937   | 8.797  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.545  | 91   | 847455m  | 17.868 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 433569   | 9.078  | ppbv   | 96       |
| 61) Styrene                   | 9.866  | 104  | 192729   | 8.454  | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.535 | 105  | 625514   | 8.920  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 250238   | 8.085  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.985 | 120  | 154114   | 8.744  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.526 | 119  | 570548   | 8.853  | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.610 | 91   | 57090    | 8.061  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 797738   | 8.899  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 684482   | 8.789  | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.277 | 91   | 720062   | 8.877  | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 493192   | 8.967  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 521390   | 8.929  | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 451158   | 8.752  | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 502117   | 8.340  | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 264024   | 8.436  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 265655   | 8.445  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 260133   | 8.548  | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 245910   | 8.002  | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 570593   | 7.925  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 304139   | 7.412  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 250801   | 8.112  | ppbv   | 99       |

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

## Manual Integrations

Reviewed By :Semsettin Yesilyurt 04/22/2025  
Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:50:13 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042395.D  
 Acq On : 21 Apr 2025 08:41  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 22 02:50:13 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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     | 1.767 | 1.812  | -2.5  | 103   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.682 | 1.456  | 13.4  | 87    | 0.00     |
| 4    | Chloromethane               | 0.699 | 0.661  | 5.4   | 96    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.761 | 0.665  | 12.6  | 98    | 0.00     |
| 6 T  | Bromomethane                | 0.327 | 0.310  | 5.2   | 96    | 0.00     |
| 7    | Chloroethane                | 0.275 | 0.270  | 1.8   | 101   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.517 | 1.541  | -1.6  | 101   | 0.00     |
| 9 T  | Propene                     | 0.766 | 0.569  | 25.7  | 78    | 0.00     |
| 10 T | Heptane                     | 2.153 | 1.512  | 29.8  | 76    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.680 | 1.735  | -3.3  | 104   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.374 | 1.307  | 4.9   | 96    | 0.00     |
| 13   | Ethanol                     | 0.122 | 0.038# | 68.9# | 102   | 0.00     |
| 14 T | Bromoethene                 | 0.518 | 0.501  | 3.3   | 96    | 0.00     |
| 15 T | Acetone                     | 1.637 | 1.420  | 13.3  | 106   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.783 | 0.686  | 12.4  | 99    | 0.00     |
| 17   | tert-Butyl alcohol          | 2.029 | 1.870  | 7.8   | 98    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.642 | 0.593  | 7.6   | 96    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.909 | 0.830  | 8.7   | 95    | 0.00     |
| 20 T | Methylene Chloride          | 0.641 | 0.507  | 20.9  | 96    | 0.00     |
| 21 T | Allyl Chloride              | 1.130 | 1.024  | 9.4   | 99    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.731 | 0.672  | 8.1   | 95    | 0.00     |
| 23 T | Vinyl Acetate               | 0.663 | 0.484  | 27.0  | 82    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.388 | 1.305  | 6.0   | 96    | 0.00     |
| 25 T | Ethyl Acetate               | 4.036 | 3.314  | 17.9  | 85    | 0.00     |
| 26 T | Hexane                      | 1.633 | 1.272  | 22.1  | 84    | 0.00     |
| 27 T | Carbon Disulfide            | 1.749 | 1.689  | 3.4   | 96    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.070 | 0.900  | 15.9  | 90    | 0.00     |
| 29 T | Chloroform                  | 2.309 | 2.194  | 5.0   | 96    | 0.00     |
| 30 T | Cyclohexane                 | 1.320 | 1.069  | 19.0  | 81    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.553 | 1.406  | 9.5   | 91    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.599 | 2.413  | 7.2   | 100   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 91    | 0.00     |
| 34 T | 2-Butanone                  | 0.791 | 0.658  | 16.8  | 87    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.905 | 0.870  | 3.9   | 103   | 0.00     |
| 36 T | Benzene                     | 1.079 | 0.908  | 15.8  | 83    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.647 | 0.661  | -2.2  | 102   | 0.00     |
| 38 T | Trichloroethene             | 0.471 | 0.368  | 21.9  | 85    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.402 | 0.322  | 19.9  | 80    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.221 | 0.161  | 27.1  | 81    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.461 | 0.355  | 23.0  | 79    | 0.00     |
| 42 T | Bromodichloromethane        | 0.901 | 0.883  | 2.0   | 95    | 0.00     |
| 43   | Methyl Methacrylate         | 0.486 | 0.373  | 23.3  | 79    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.863 | 1.516  | 18.6  | 81    | -0.01    |
| 45 T | t-1,3-Dichloropropene       | 0.497 | 0.427  | 14.1  | 85    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.608 | 0.522  | 14.1  | 84    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.410 | 0.357  | 12.9  | 87    | 0.00     |
| 48 T | Dibromochloromethane        | 0.723 | 0.686  | 5.1   | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042395.D  
 Acq On : 21 Apr 2025 08:41  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Apr 22 02:50:13 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 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                 | 0.633 | 0.559 | 11.7  | 83    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.314 | 0.961 | 26.9  | 81    | 0.00     |
| 51 T | 2-Hexanone                | 1.179 | 0.777 | 34.1# | 79    | 0.00     |
| 52 T | Tetrachloroethene         | 0.417 | 0.312 | 25.2  | 80    | 0.00     |
| 53 T | Toluene                   | 1.294 | 1.062 | 17.9  | 81    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.586 | 0.507 | 13.5  | 86    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.605 | 0.573 | 5.3   | 92    | 0.00     |
| 57 T | Chlorobenzene             | 1.040 | 0.930 | 10.6  | 86    | 0.00     |
| 58 T | Ethyl Benzene             | 1.981 | 1.743 | 12.0  | 84    | 0.00     |
| 59 T | m/p-Xylene                | 1.596 | 1.426 | 10.7  | 86    | 0.00     |
| 60 T | o-Xylene                  | 1.607 | 1.459 | 9.2   | 89    | 0.00     |
| 61 T | Styrene                   | 0.767 | 0.649 | 15.4  | 79    | 0.00     |
| 62   | Isopropylbenzene          | 2.360 | 2.105 | 10.8  | 85    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 1.042 | 0.842 | 19.2  | 85    | 0.00     |
| 64   | n-propylbenzene           | 0.593 | 0.519 | 12.5  | 84    | 0.00     |
| 65   | tert-Butylbenzene         | 2.169 | 1.920 | 11.5  | 88    | 0.00     |
| 66 T | Benzyl Chloride           | 0.238 | 0.192 | 19.3  | 69    | 0.00     |
| 67   | sec-Butylbenzene          | 3.017 | 2.685 | 11.0  | 89    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.822 | 0.882 | -7.3  | 93    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.621 | 2.303 | 12.1  | 88    | 0.00     |
| 70   | n-Butylbenzene            | 2.730 | 2.423 | 11.2  | 90    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.851 | 1.660 | 10.3  | 86    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.965 | 1.755 | 10.7  | 87    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.735 | 1.518 | 12.5  | 88    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 2.026 | 1.690 | 16.6  | 89    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 1.053 | 0.888 | 15.7  | 82    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 1.059 | 0.894 | 15.6  | 83    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 1.024 | 0.875 | 14.6  | 85    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 1.034 | 0.828 | 19.9  | 84    | 0.00     |
| 79 T | Naphthalene               | 2.423 | 1.920 | 20.8  | 84    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 1.381 | 1.023 | 25.9  | 81    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 1.040 | 0.844 | 18.8  | 82    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042396.D  
 Acq On : 21 Apr 2025 09:28  
 Operator : SY/MD  
 Sample : VL0421ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0421ABL01

Quant Time: Apr 22 02:50:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 120411   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 341628   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 293743   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 252683   | 10.468   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.700% |

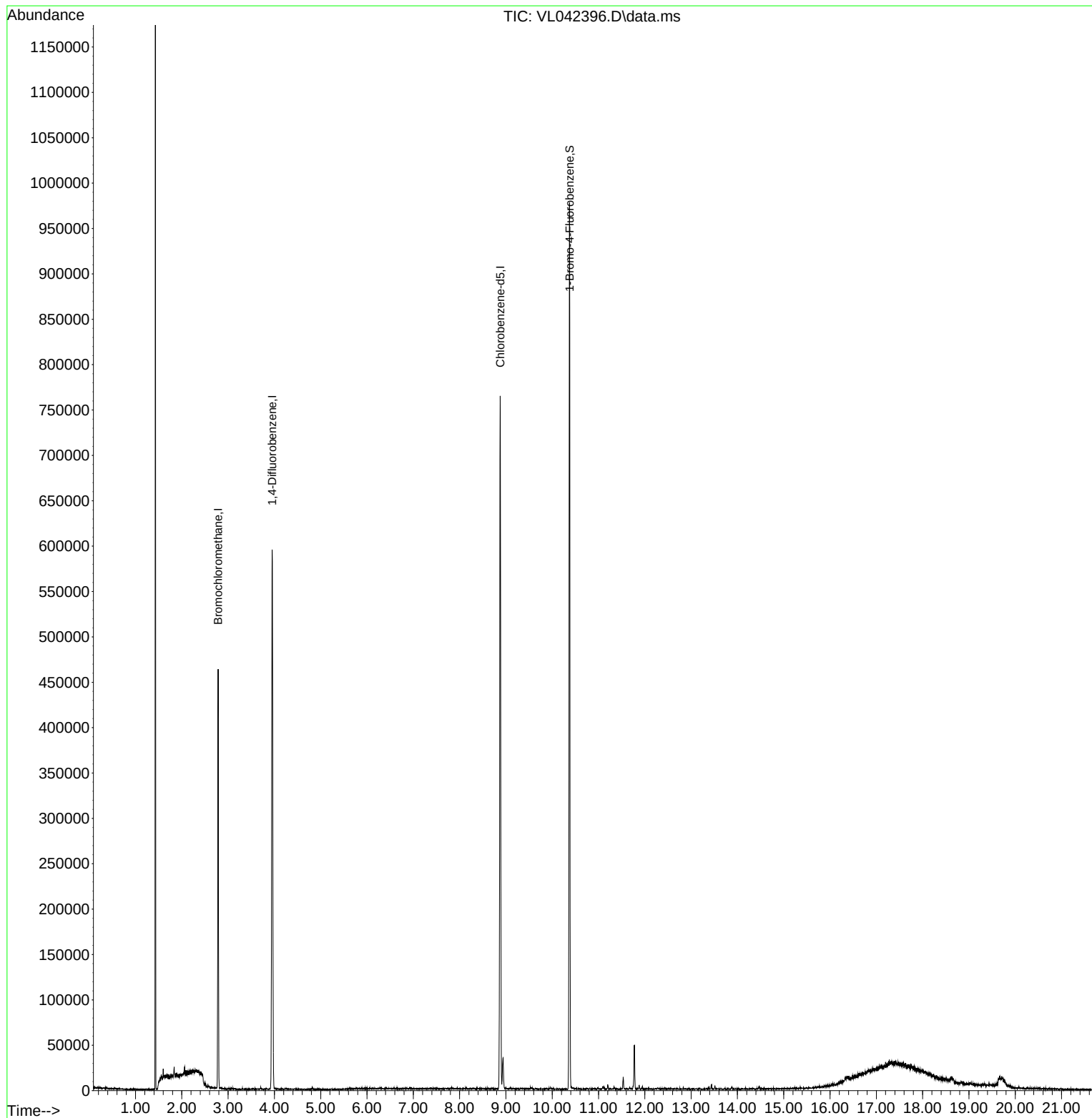
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
Data File : VL042396.D  
Acq On : 21 Apr 2025 09:28  
Operator : SY/MD  
Sample : VL0421ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0421ABL01

Quant Time: Apr 22 02:50:57 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042397.D  
 Acq On : 21 Apr 2025 10:14  
 Operator : SY/MD  
 Sample : VL0421ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0421ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/22/2025  
 Supervised By : Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.781 | 49   | 118401   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.949 | 114  | 337921   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 293537   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 260048 10.781 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.800%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.496 | 85  | 212503 | 10.158 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 175535 | 8.812  | ppbv   | 95     |
| 4) Chloromethane              | 1.531 | 50  | 79791  | 9.638  | ppbv   | 94     |
| 5) Vinyl Chloride             | 1.577 | 62  | 77905  | 8.645  | ppbv   | 97     |
| 6) Bromomethane               | 1.664 | 94  | 35087  | 9.064  | ppbv   | 87     |
| 7) Chloroethane               | 1.700 | 64  | 30814  | 9.455  | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 1.551 | 85  | 182258 | 10.147 | ppbv   | 94     |
| 9) Propene                    | 1.480 | 41  | 69080  | 7.615  | ppbv   | 97     |
| 10) Heptane                   | 4.969 | 43  | 187072 | 7.340  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.875 | 101 | 205641 | 10.337 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.133 | 101 | 156363 | 9.613  | ppbv   | 98     |
| 13) Ethanol                   | 1.716 | 45  | 4602   | 3.192  | ppbv   | 92     |
| 14) Bromoethene               | 1.777 | 108 | 58938  | 9.613  | ppbv   | 98     |
| 15) Acetone                   | 1.832 | 43  | 168065 | 8.671  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.606 | 39  | 83577  | 9.015  | ppbv   | 92     |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 216440 | 9.011  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.030 | 96  | 71097  | 9.356  | ppbv   | 95     |
| 19) Isopropyl Alcohol         | 1.881 | 45  | 96437  | 8.956  | ppbv   | 93     |
| 20) Methylene Chloride        | 2.056 | 84  | 60417  | 7.959  | ppbv   | 89     |
| 21) Allyl Chloride            | 2.091 | 41  | 122313 | 9.140  | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.334 | 96  | 78976  | 9.128  | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.457 | 43  | 54610  | 6.961  | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.402 | 63  | 157093 | 9.559  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.829 | 43  | 393203 | 8.228  | ppbv   | 99     |
| 26) Hexane                    | 2.820 | 57  | 151103 | 7.813  | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.146 | 76  | 194719 | 9.404  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.434 | 73  | 108007 | 8.524  | ppbv   | 93     |
| 29) Chloroform                | 2.842 | 83  | 262639 | 9.608  | ppbv   | 98     |
| 30) Cyclohexane               | 3.846 | 84  | 133153 | 8.517  | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.713 | 61  | 166447 | 9.052  | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 3.360 | 97  | 285156 | 9.266  | ppbv   | 98     |
| 34) 2-Butanone                | 2.554 | 43  | 220966 | 8.268  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 291941 | 9.546  | ppbv   | 95     |
| 36) Benzene                   | 3.648 | 78  | 312290 | 8.568  | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.211 | 62  | 225346 | 10.301 | ppbv # | 96     |
| 38) Trichloroethene           | 4.542 | 130 | 123977 | 7.783  | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.305 | 63  | 112058 | 8.250  | ppbv # | 90     |
| 40) 1,4-Dioxane               | 4.571 | 88  | 55511  | 7.437  | ppbv # | 93     |
| 41) Tetrahydrofuran           | 3.046 | 42  | 121497 | 7.797  | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.480 | 83  | 294127 | 9.661  | ppbv   | 98     |
| 43) Methyl Methacrylate       | 4.872 | 69  | 125779 | 7.657  | ppbv   | 93     |
| 44) 2,2,4-Trimethylpentane    | 4.629 | 57  | 508984 | 8.085  | ppbv   | 95     |
| 45) t-1,3-Dichloropropene     | 6.399 | 75  | 142114 | 8.469  | ppbv   | 93     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042397.D  
 Acq On : 21 Apr 2025 10:14  
 Operator : SY/MD  
 Sample : VL0421ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0421ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025  
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.590  | 75   | 171445   | 8.348  | ppbv # | 84       |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 124092   | 8.967  | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.377  | 129  | 225553   | 9.226  | ppbv   | 99       |
| 49) Bromoform                 | 9.474  | 173  | 188764   | 8.830  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.739  | 43   | 318982   | 7.182  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.429  | 43   | 266951   | 6.702  | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.222  | 164  | 104899   | 7.446  | ppbv   | 97       |
| 53) Toluene                   | 6.920  | 91   | 361443   | 8.264  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 175799   | 8.877  | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 169656   | 9.550  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.914  | 112  | 270733   | 8.868  | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.348  | 91   | 524070   | 9.011  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.545  | 91   | 852193m  | 18.189 | ppbv   |          |
| 60) o-Xylene                  | 9.956  | 91   | 433062   | 9.179  | ppbv   | 97       |
| 61) Styrene                   | 9.866  | 104  | 194756   | 8.648  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.533 | 105  | 641535   | 9.262  | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 257428   | 8.420  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.982 | 120  | 155343   | 8.922  | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.526 | 119  | 573929   | 9.015  | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.610 | 91   | 51025    | 7.294  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.762 | 105  | 802355   | 9.061  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.921 | 119  | 685449   | 8.910  | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.277 | 91   | 723138   | 9.025  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.895 | 91   | 500409   | 9.211  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.122 | 105  | 519236   | 9.002  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 456404   | 8.963  | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.533 | 105  | 509154   | 8.561  | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.604 | 146  | 267483   | 8.652  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.669 | 146  | 267283   | 8.602  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.944 | 146  | 261316   | 8.693  | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 259140   | 8.537  | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 584987   | 8.225  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 300148   | 7.405  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.436 | 180  | 258107   | 8.452  | ppbv   | 99       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
 Data File : VL042399.D  
 Acq On : 21 Apr 2025 11:36  
 Operator : SY/MD  
 Sample : QC041625 CAN 10329  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC041625 CAN 10329

Quant Time: Apr 22 02:52:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.781 | 49   | 116817   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.949 | 114  | 332871   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 284301   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.371 | 95    | 248070   | 10.618   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.200% |

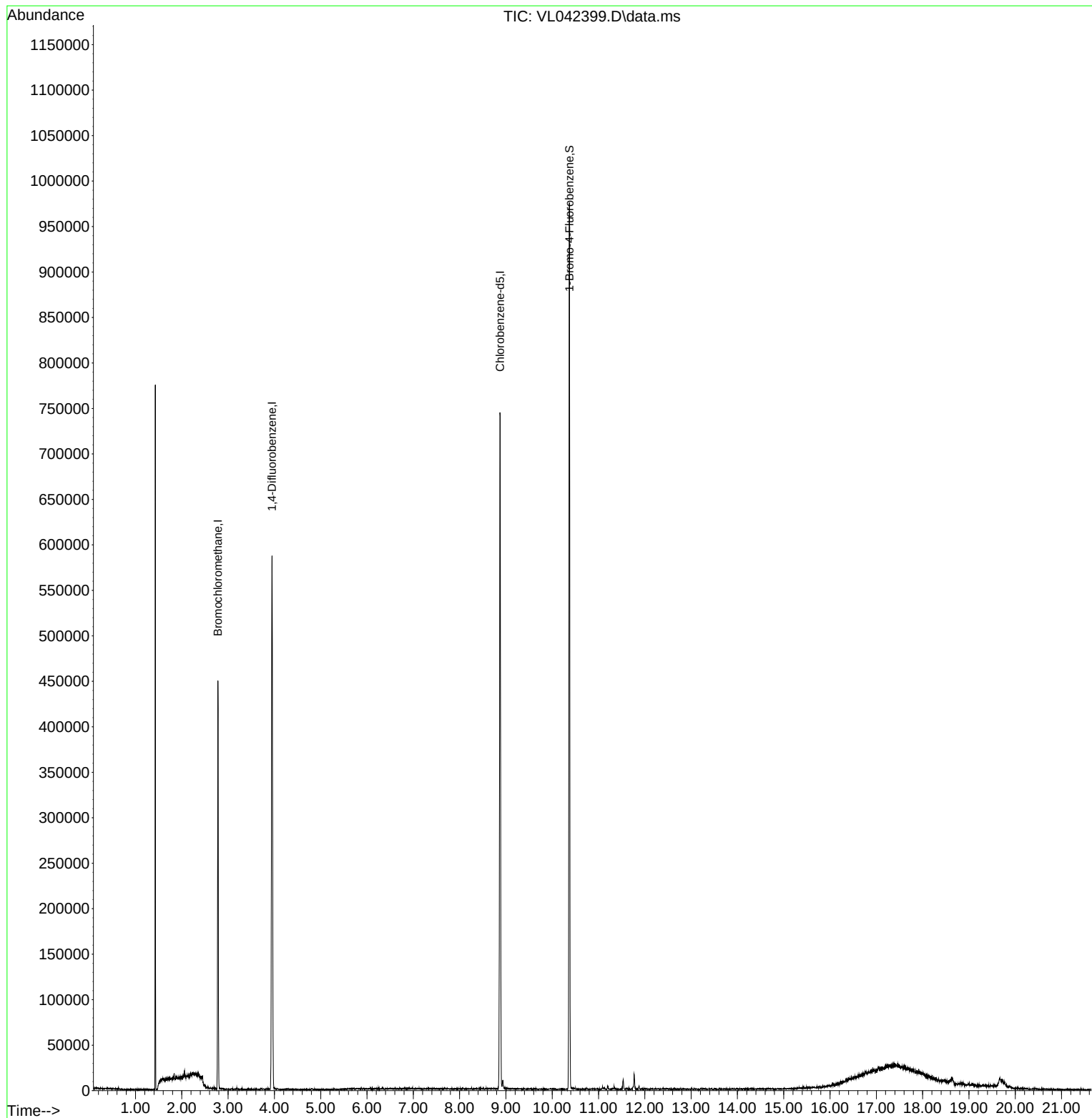
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042125\  
Data File : VL042399.D  
Acq On : 21 Apr 2025 11:36  
Operator : SY/MD  
Sample : QC041625 CAN 10329  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC041625 CAN 10329

Quant Time: Apr 22 02:52:23 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration



Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL032725**

|                          |                      |                      |                     |
|--------------------------|----------------------|----------------------|---------------------|
| Review By                | Maresh Dadoda        | Review On            | 4/3/2025 8:14:07 AM |
| Supervise By             | Semsettin Yesilyurt  | Supervise On         | 4/3/2025 8:45:16 AM |
| SubDirectory             | VL032725             | HP Acquire Method    | TO15AIR.M           |
|                          |                      | HP Processing Method | VL032725AIR.M       |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                     |
| Tune/Reschk              | AP2589               |                      |                     |
| Initial Calibration Stds | AP2593,AP2595,AP2596 |                      |                     |
| CCC                      | AP2593               |                      |                     |
| Internal Standard/PEM    | AP2589               |                      |                     |
| ICV/I.BLK                | AP2594               |                      |                     |
| Surrogate Standard       |                      |                      |                     |
| MS/MSD Standard          |                      |                      |                     |
| LCS Standard             |                      |                      |                     |

| Sr# | SampleId           | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------------|----------------|-------------------|----------|----------|
| 1   | BFB                | VL042171.D     | 27 Mar 2025 07:44 | SY/MD    | Ok       |
| 2   | VSTDICCC010        | VL042172.D     | 27 Mar 2025 08:26 | SY/MD    | Ok,M     |
| 3   | VSTDICCC002        | VL042173.D     | 27 Mar 2025 08:59 | SY/MD    | Ok,M     |
| 4   | VSTDICCC001        | VL042174.D     | 27 Mar 2025 09:30 | SY/MD    | Ok,M     |
| 5   | VSTDICCC0.5        | VL042175.D     | 27 Mar 2025 10:01 | SY/MD    | Ok,M     |
| 6   | VSTDICCC0.1        | VL042176.D     | 27 Mar 2025 10:32 | SY/MD    | Ok,M     |
| 7   | VSTDICCC0.03       | VL042177.D     | 27 Mar 2025 11:03 | SY/MD    | Ok,M     |
| 8   | VSTDICCC015        | VL042178.D     | 27 Mar 2025 11:36 | SY/MD    | Ok,M     |
| 9   | VSTDICV010         | VL042179.D     | 27 Mar 2025 12:23 | SY/MD    | Ok,M     |
| 10  | VL0327ABL01        | VL042180.D     | 27 Mar 2025 13:50 | SY/MD    | Ok       |
| 11  | VL0327ABS01        | VL042181.D     | 27 Mar 2025 14:39 | SY/MD    | Ok,M     |
| 12  | QC032625 CAN 10448 | VL042182.D     | 27 Mar 2025 16:41 | SY/MD    | Ok       |
| 13  | Q1649-01           | VL042183.D     | 27 Mar 2025 17:13 | SY/MD    | Not Ok   |
| 14  | Q1649-02           | VL042184.D     | 27 Mar 2025 17:45 | SY/MD    | Not Ok   |
| 15  | Q1669-01           | VL042185.D     | 27 Mar 2025 18:22 | SY/MD    | Dilution |
| 16  | Q1669-02           | VL042186.D     | 27 Mar 2025 18:59 | SY/MD    | Ok,M     |
| 17  | Q1669-03           | VL042187.D     | 27 Mar 2025 19:36 | SY/MD    | Ok,M     |
| 18  | Q1669-04           | VL042188.D     | 27 Mar 2025 20:12 | SY/MD    | Ok,M     |
| 19  | Q1669-09           | VL042189.D     | 27 Mar 2025 20:48 | SY/MD    | Ok,M     |
| 20  | Q1669-09DUP        | VL042190.D     | 27 Mar 2025 21:24 | SY/MD    | Ok,M     |
| 21  | Q1669-05           | VL042191.D     | 27 Mar 2025 21:57 | SY/MD    | Not Ok   |

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL032725**

| Review By                | Maresh Dadoda       | Review On            | 4/3/2025 8:14:07 AM |                      |               |
|--------------------------|---------------------|----------------------|---------------------|----------------------|---------------|
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 4/3/2025 8:45:16 AM |                      |               |
| SubDirectory             | VL032725            | HP Acquire Method    | TO15AIR.M           | HP Processing Method | VL032725AIR.M |
| STD. NAME                |                     | STD REF.#            |                     |                      |               |
| Tune/Reschk              |                     | AP2589               |                     |                      |               |
| Initial Calibration Stds |                     | AP2593,AP2595,AP2596 |                     |                      |               |
| CCC                      |                     | AP2593               |                     |                      |               |
| Internal Standard/PEM    |                     | AP2589               |                     |                      |               |
| ICV/I.BLK                |                     | AP2594               |                     |                      |               |
| Surrogate Standard       |                     |                      |                     |                      |               |
| MS/MSD Standard          |                     |                      |                     |                      |               |
| LCS Standard             |                     |                      |                     |                      |               |

|    |             |            |                   |       |          |
|----|-------------|------------|-------------------|-------|----------|
| 22 | Q1669-07DL  | VL042192.D | 27 Mar 2025 22:29 | SY/MD | Ok,M     |
| 23 | Q1669-08    | VL042193.D | 27 Mar 2025 23:01 | SY/MD | Not Ok   |
| 24 | VIBLK       | VL042194.D | 27 Mar 2025 23:34 | SY/MD | Ok       |
| 25 | Q1669-01DL  | VL042195.D | 28 Mar 2025 00:06 | SY/MD | Ok,M     |
| 26 | Q1669-01DUP | VL042196.D | 28 Mar 2025 00:44 | SY/MD | Ok,M     |
| 27 | Q1669-05    | VL042197.D | 28 Mar 2025 01:20 | SY/MD | Ok,M     |
| 28 | Q1669-07    | VL042198.D | 28 Mar 2025 01:57 | SY/MD | Dilution |
| 29 | Q1669-08    | VL042199.D | 28 Mar 2025 02:33 | SY/MD | Ok,M     |

M : Manual Integration

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041525**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 4/16/2025 2:19:24 PM |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 4/16/2025 3:47:46 PM |                      |               |
| SubDirectory             | VL041525            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL032725AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2591               |                      |                      |               |
| Initial Calibration Stds |                     | AP2593,AP2595,AP2596 |                      |                      |               |
| CCC                      |                     | AP2593               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2591               |                      |                      |               |
| ICV/I.BLK                |                     | AP2594               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr# | SampleId           | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------------|----------------|-------------------|----------|----------|
| 1   | BFB                | VL042325.D     | 15 Apr 2025 07:45 | SY/MD    | Ok       |
| 2   | VSTDCCC010         | VL042326.D     | 15 Apr 2025 11:30 | SY/MD    | Ok,M     |
| 3   | VL0415ABL01        | VL042327.D     | 15 Apr 2025 12:12 | SY/MD    | Ok       |
| 4   | VL0415ABS01        | VL042328.D     | 15 Apr 2025 12:54 | SY/MD    | Ok,M     |
| 5   | QC041425 CAN 10401 | VL042329.D     | 15 Apr 2025 13:26 | SY/MD    | Not Ok   |
| 6   | QC041425 CAN 10401 | VL042330.D     | 15 Apr 2025 13:57 | SY/MD    | Ok       |
| 7   | Q1665-18DL         | VL042331.D     | 15 Apr 2025 14:29 | SY/MD    | Ok       |
| 8   | Q1665-10DL2        | VL042332.D     | 15 Apr 2025 15:01 | SY/MD    | Ok,M     |
| 9   | Q1802-02           | VL042333.D     | 15 Apr 2025 15:35 | SY/MD    | Ok,M     |
| 10  | Q1802-02DUP        | VL042334.D     | 15 Apr 2025 16:08 | SY/MD    | Ok,M     |
| 11  | Q1802-03           | VL042335.D     | 15 Apr 2025 16:42 | SY/MD    | Ok,M     |
| 12  | Q1802-01           | VL042336.D     | 15 Apr 2025 17:14 | SY/MD    | Dilution |
| 13  | Q1802-01DL         | VL042337.D     | 15 Apr 2025 17:46 | SY/MD    | Not Ok   |
| 14  | Q1802-01DL         | VL042338.D     | 15 Apr 2025 18:21 | SY/MD    | Ok,M     |

M : Manual Integration



Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041725**

|                          |                     |                      |                       |                      |               |
|--------------------------|---------------------|----------------------|-----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 4/18/2025 4:23:02 PM  |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 4/18/2025 10:46:12 PM |                      |               |
| SubDirectory             | VL041725            | HP Acquire Method    | TO15AIR.M             | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                     | STD REF.#            |                       |                      |               |
| Tune/Reschk              |                     | AP2590               |                       |                      |               |
| Initial Calibration Stds |                     | AP2598,AP2599,AP2600 |                       |                      |               |
| CCC                      |                     | AP2598               |                       |                      |               |
| Internal Standard/PEM    |                     | AP2590               |                       |                      |               |
| ICV/I.BLK                |                     | AP2601               |                       |                      |               |
| Surrogate Standard       |                     |                      |                       |                      |               |
| MS/MSD Standard          |                     |                      |                       |                      |               |
| LCS Standard             |                     |                      |                       |                      |               |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | BFB          | VL042348.D     | 17 Apr 2025 07:50 | SY/MD    | Ok       |
| 2   | VSTDICCC010  | VL042349.D     | 17 Apr 2025 09:44 | SY/MD    | Ok,M     |
| 3   | VSTDICCC002  | VL042350.D     | 17 Apr 2025 10:17 | SY/MD    | Ok,M     |
| 4   | VSTDICCC001  | VL042351.D     | 17 Apr 2025 10:48 | SY/MD    | Ok,M     |
| 5   | VSTDICCC0.5  | VL042352.D     | 17 Apr 2025 11:19 | SY/MD    | Ok,M     |
| 6   | VSTDICCC0.1  | VL042353.D     | 17 Apr 2025 11:50 | SY/MD    | Ok,M     |
| 7   | VSTDICCC0.03 | VL042354.D     | 17 Apr 2025 12:22 | SY/MD    | Ok,M     |
| 8   | VSTDICCC015  | VL042355.D     | 17 Apr 2025 12:54 | SY/MD    | Ok,M     |
| 9   | VSTDICV010   | VL042356.D     | 17 Apr 2025 13:43 | SY/MD    | Ok,M     |
| 10  | VL0417ABL01  | VL042357.D     | 17 Apr 2025 14:23 | SY/MD    | Ok       |
| 11  | VL0417ABS01  | VL042358.D     | 17 Apr 2025 15:39 | SY/MD    | Ok,M     |
| 12  | Q1665-15     | VL042359.D     | 17 Apr 2025 16:12 | SY/MD    | Dilution |
| 13  | Q1665-15DL   | VL042360.D     | 17 Apr 2025 16:44 | SY/MD    | Ok,M     |
| 14  | Q1668-01     | VL042361.D     | 17 Apr 2025 17:17 | SY/MD    | Dilution |
| 15  | Q1668-01DUP  | VL042362.D     | 17 Apr 2025 17:51 | SY/MD    | Ok,M     |
| 16  | Q1668-03     | VL042363.D     | 17 Apr 2025 18:24 | SY/MD    | Dilution |
| 17  | Q1668-04     | VL042364.D     | 17 Apr 2025 18:58 | SY/MD    | Ok,M     |
| 18  | Q1668-02     | VL042365.D     | 17 Apr 2025 19:31 | SY/MD    | Ok,M     |
| 19  | Q1726-01     | VL042366.D     | 17 Apr 2025 20:05 | SY/MD    | Dilution |
| 20  | Q1726-02     | VL042367.D     | 17 Apr 2025 20:38 | SY/MD    | Dilution |
| 21  | Q1726-03     | VL042368.D     | 17 Apr 2025 21:12 | SY/MD    | Dilution |

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL041725**

| Review By                | Semsettin Yesilyurt  | Review On         | 4/18/2025 4:23:02 PM  |                      |               |
|--------------------------|----------------------|-------------------|-----------------------|----------------------|---------------|
| Supervise By             | Maresh Dadoda        | Supervise On      | 4/18/2025 10:46:12 PM |                      |               |
| SubDirectory             | VL041725             | HP Acquire Method | TO15AIR.M             | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                      | STD REF.#         |                       |                      |               |
| Tune/Reschk              | AP2590               |                   |                       |                      |               |
| Initial Calibration Stds | AP2598,AP2599,AP2600 |                   |                       |                      |               |
| CCC                      | AP2598               |                   |                       |                      |               |
| Internal Standard/PEM    | AP2590               |                   |                       |                      |               |
| ICV/I.BLK                | AP2601               |                   |                       |                      |               |
| Surrogate Standard       |                      |                   |                       |                      |               |
| MS/MSD Standard          |                      |                   |                       |                      |               |
| LCS Standard             |                      |                   |                       |                      |               |

|    |            |            |                   |       |          |
|----|------------|------------|-------------------|-------|----------|
| 22 | Q1726-04   | VL042369.D | 17 Apr 2025 21:45 | SY/MD | Dilution |
| 23 | Q1726-05   | VL042370.D | 17 Apr 2025 22:19 | SY/MD | Dilution |
| 24 | Q1726-06   | VL042371.D | 17 Apr 2025 22:52 | SY/MD | Dilution |
| 25 | Q1726-07   | VL042372.D | 17 Apr 2025 23:26 | SY/MD | Dilution |
| 26 | Q1726-07DL | VL042373.D | 17 Apr 2025 23:57 | SY/MD | Dilution |
| 27 | Q1668-01DL | VL042374.D | 18 Apr 2025 00:28 | SY/MD | Ok,M     |
| 28 | Q1668-03DL | VL042375.D | 18 Apr 2025 00:59 | SY/MD | Ok,M     |
| 29 | Q1726-01DL | VL042376.D | 18 Apr 2025 01:30 | SY/MD | Dilution |
| 30 | Q1726-02DL | VL042377.D | 18 Apr 2025 02:01 | SY/MD | Dilution |
| 31 | Q1726-03DL | VL042378.D | 18 Apr 2025 02:32 | SY/MD | Dilution |
| 32 | Q1726-04DL | VL042379.D | 18 Apr 2025 03:03 | SY/MD | Dilution |
| 33 | Q1726-05DL | VL042380.D | 18 Apr 2025 03:34 | SY/MD | Dilution |
| 34 | Q1726-06DL | VL042381.D | 18 Apr 2025 04:05 | SY/MD | Dilution |

M : Manual Integration

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL042125**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 4/22/2025 9:39:52 AM |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 4/22/2025 2:00:33 PM |                      |               |
| SubDirectory             | VL042125            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL041725AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2602               |                      |                      |               |
| Initial Calibration Stds |                     | AP2598,AP2599,AP2600 |                      |                      |               |
| CCC                      |                     | AP2598               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2602               |                      |                      |               |
| ICV/I.BLK                |                     | AP2601               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr# | SampleId           | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------------|----------------|-------------------|----------|----------|
| 1   | BFB                | VL042394.D     | 21 Apr 2025 07:58 | SY/MD    | Ok       |
| 2   | VSTDCCC010         | VL042395.D     | 21 Apr 2025 08:41 | SY/MD    | Ok,M     |
| 3   | VL0421ABL01        | VL042396.D     | 21 Apr 2025 09:28 | SY/MD    | Ok       |
| 4   | VL0421ABS01        | VL042397.D     | 21 Apr 2025 10:14 | SY/MD    | Ok,M     |
| 5   | QC041625 CAN 10329 | VL042398.D     | 21 Apr 2025 11:04 | SY/MD    | Not Ok   |
| 6   | QC041625 CAN 10329 | VL042399.D     | 21 Apr 2025 11:36 | SY/MD    | Ok       |
| 7   | Q1801-01           | VL042400.D     | 21 Apr 2025 12:07 | SY/MD    | Ok,M     |
| 8   | Q1801-02           | VL042401.D     | 21 Apr 2025 12:51 | SY/MD    | Ok,M     |
| 9   | Q1844-02           | VL042402.D     | 21 Apr 2025 13:38 | SY/MD    | Dilution |
| 10  | Q1844-02DUP        | VL042403.D     | 21 Apr 2025 14:13 | SY/MD    | Ok,M     |
| 11  | Q1844-02DL         | VL042404.D     | 21 Apr 2025 14:44 | SY/MD    | Ok,M     |
| 12  | Q1843-02           | VL042405.D     | 21 Apr 2025 15:18 | SY/MD    | Ok,M     |
| 13  | Q1843-02DL         | VL042406.D     | 21 Apr 2025 15:49 | SY/MD    | Not Ok   |
| 14  | Q1844-01           | VL042407.D     | 21 Apr 2025 16:20 | SY/MD    | Dilution |
| 15  | Q1844-01DL         | VL042408.D     | 21 Apr 2025 16:51 | SY/MD    | Dilution |
| 16  | Q1843-01           | VL042409.D     | 21 Apr 2025 17:23 | SY/MD    | Ok,M     |
| 17  | Q1843-01DL         | VL042410.D     | 21 Apr 2025 17:54 | SY/MD    | Not Ok   |
| 18  | Q1843-01DUP        | VL042411.D     | 21 Apr 2025 19:16 | SY/MD    | Ok,M     |
| 19  | QC041725 CA 27806  | VL042412.D     | 21 Apr 2025 19:47 | SY/MD    | Not Ok   |
| 20  | QC041725 CA 27806  | VL042413.D     | 21 Apr 2025 20:18 | SY/MD    | Ok       |
| 21  | Q1844-01DL2        | VL042414.D     | 22 Apr 2025 07:47 | SY/MD    | Ok,M     |

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042349.D  
 Acq On : 17 Apr 2025 09:44  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Apr 18 01:25:08 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 125455   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 366544   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 338126   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 281013   | 10.114   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.100% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 207962 | 9.382 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 197334 | 9.350 | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 81843  | 9.330 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.580 | 62  | 80068  | 8.385 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 38128  | 9.219 | ppbv   | 100    |
| 7) Chloroethane               | 1.703 | 64  | 31705  | 9.182 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 179696 | 9.442 | ppbv   | 100    |
| 9) Propene                    | 1.483 | 41  | 86530  | 9.002 | ppbv   | 100    |
| 10) Heptane                   | 4.978 | 43  | 236341 | 9.138 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 196596 | 9.327 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 160682 | 9.323 | ppbv   | 100    |
| 13) Ethanol                   | 1.719 | 45  | 4439   | 5.651 | ppbv   | 100    |
| 14) Bromoethene               | 1.780 | 108 | 61493  | 9.466 | ppbv   | 100    |
| 15) Acetone                   | 1.835 | 43  | 158490 | 7.717 | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 81688  | 8.470 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 226280 | 8.891 | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 73186  | 8.833 | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 103029 | 9.031 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 62414  | 7.760 | ppbv   | 100    |
| 21) Allyl Chloride            | 2.094 | 41  | 122115 | 8.611 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 83278  | 9.084 | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.460 | 43  | 69649  | 8.378 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 161102 | 9.251 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.836 | 43  | 461315 | 9.110 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 178691 | 8.720 | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.149 | 76  | 209297 | 9.539 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 117924 | 8.783 | ppbv   | 100    |
| 29) Chloroform                | 2.848 | 83  | 269088 | 9.290 | ppbv   | 100    |
| 30) Cyclohexane               | 3.855 | 84  | 157035 | 9.517 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 183082 | 9.397 | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 285336 | 9.187 | ppbv   | 100    |
| 34) 2-Butanone                | 2.557 | 43  | 251704 | 8.683 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 282402 | 8.513 | ppbv   | 100    |
| 36) Benzene                   | 3.654 | 78  | 367355 | 9.292 | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 216999 | 9.145 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 144767 | 8.352 | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 135605 | 9.197 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.580 | 88  | 66662  | 8.348 | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.052 | 42  | 149905 | 8.950 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.489 | 83  | 312268 | 9.456 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.881 | 69  | 157501 | 8.876 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 626085 | 9.157 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 168223 | 9.233 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042349.D  
 Acq On : 17 Apr 2025 09:44  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

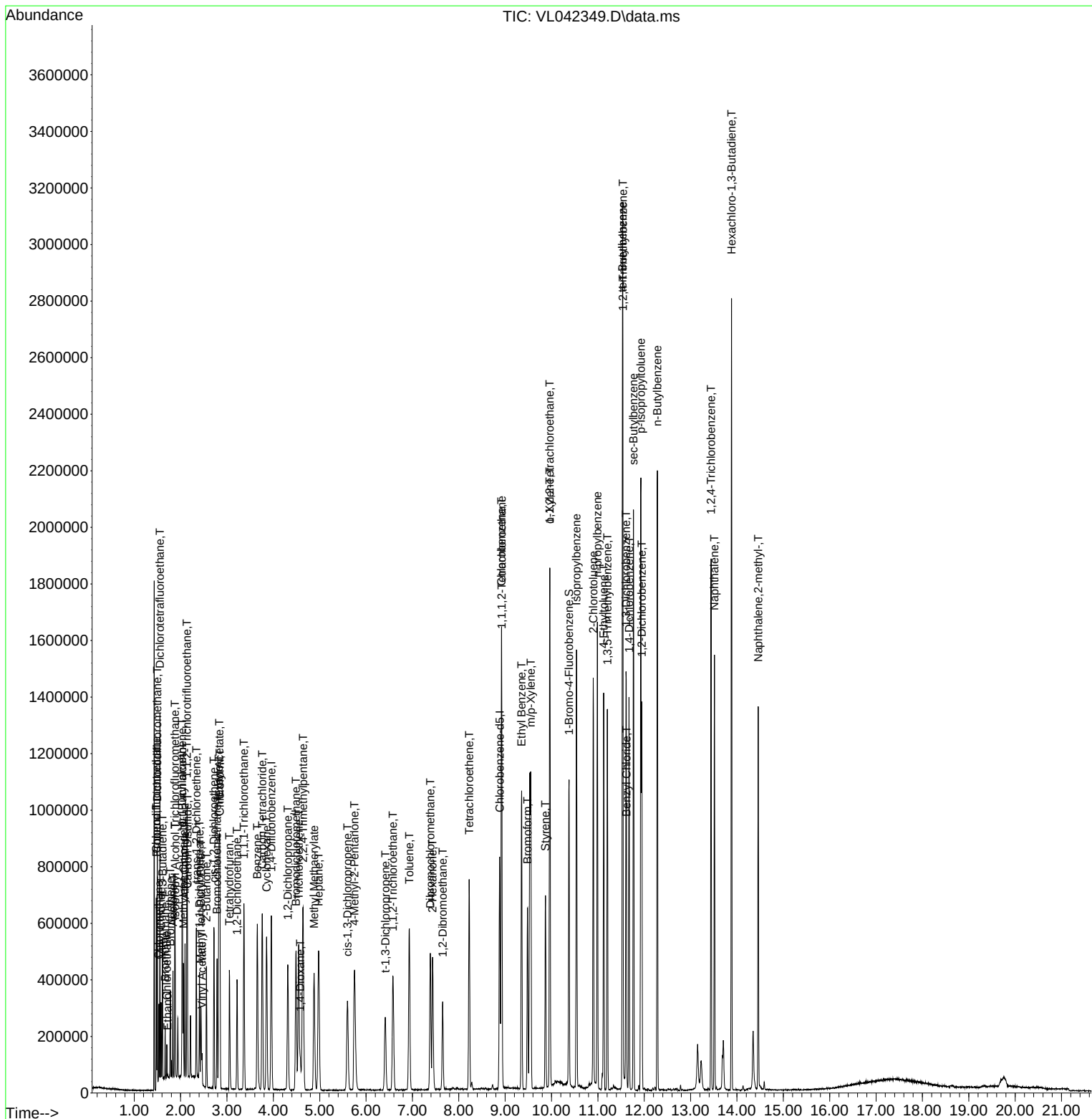
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

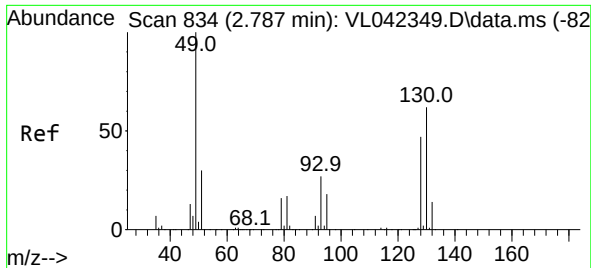
Quant Time: Apr 18 01:25:08 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 208811   | 9.377  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 137898   | 9.181  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.386  | 129  | 248954   | 9.388  | ppbv   | 100      |
| 49) Bromoform                 | 9.480  | 173  | 225706   | 9.734  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 396548   | 8.215  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 327165   | 7.511  | ppbv   | 100      |
| 52) Tetrachloroethene         | 8.225  | 164  | 130720   | 8.553  | ppbv   | 100      |
| 53) Toluene                   | 6.933  | 91   | 437258   | 9.216  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 197665   | 9.235  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 186041   | 9.091  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.920  | 112  | 323084   | 9.187  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.354  | 91   | 619581   | 9.248  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 449222   | 8.299  | ppbv # | 19       |
| 60) o-Xylene                  | 9.963  | 91   | 487616   | 8.972  | ppbv   | 100      |
| 61) Styrene                   | 9.869  | 104  | 245487   | 9.464  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.539 | 105  | 733788   | 9.197  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 295041   | 8.355  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 183390   | 9.144  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.532 | 119  | 644953   | 8.795  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.617 | 91   | 83269    | 10.333 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.769 | 105  | 900074   | 8.824  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 778987   | 8.790  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 801364   | 8.682  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 573039   | 9.157  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 596757   | 8.982  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 512855   | 8.743  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 565064   | 8.248  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 320380   | 8.997  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 319089   | 8.915  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 305822   | 8.832  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 291833   | 8.346  | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 677578   | 8.271  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 376995   | 8.074  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 306119   | 8.702  | ppbv   | 100      |

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

Quant Time: Apr 18 01:25:08 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration

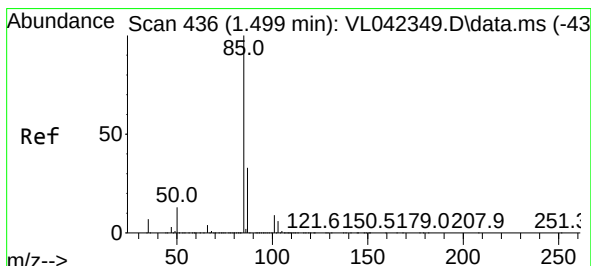
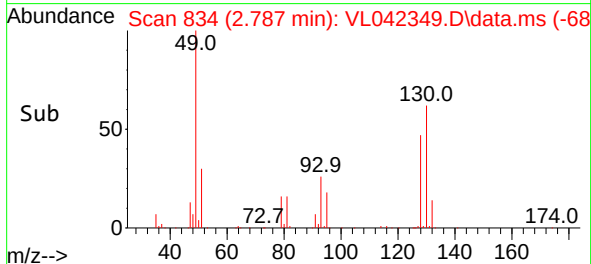
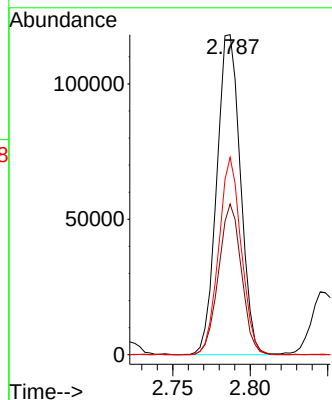
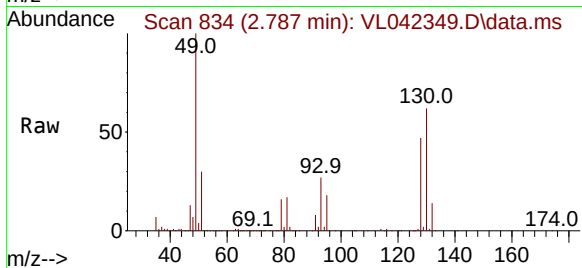




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. -0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

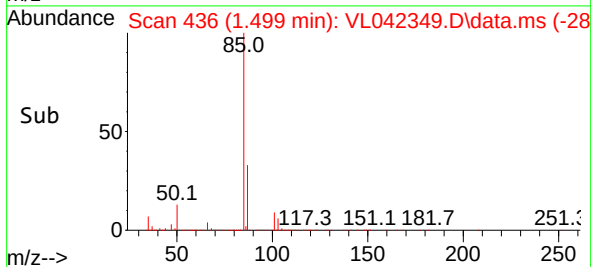
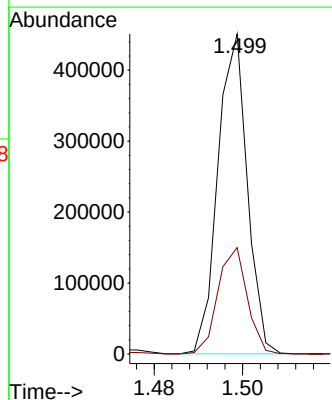
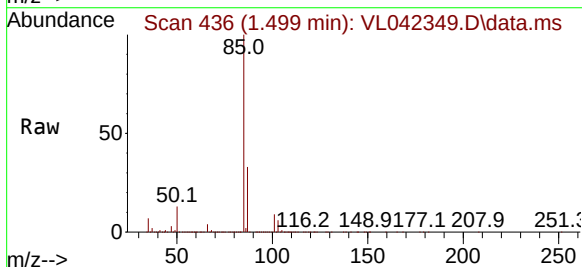
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

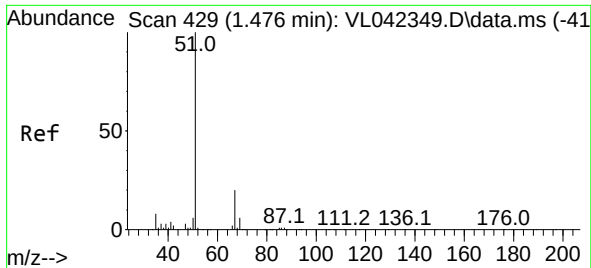
Tgt Ion: 49 Resp: 125455  
Ion Ratio Lower Upper  
49 100  
128 45.6 22.8 68.4  
130 58.7 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 9.382 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962  
Ion Ratio Lower Upper  
85 100  
87 33.2 26.6 39.8

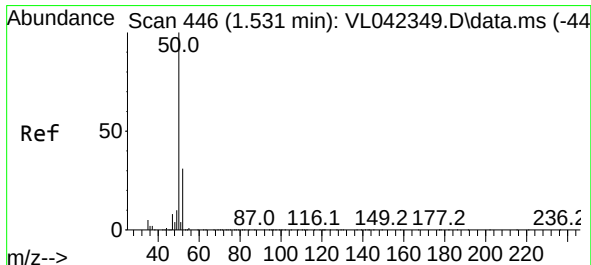
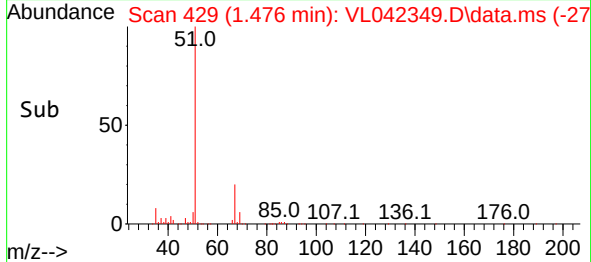
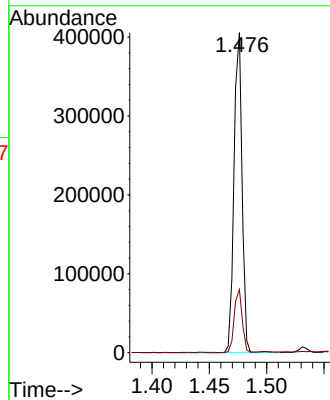
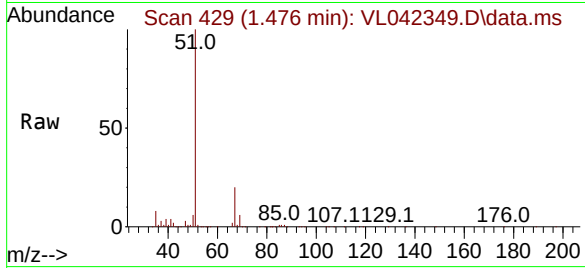




#3  
Chlorodifluoromethane  
Concen: 9.350 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

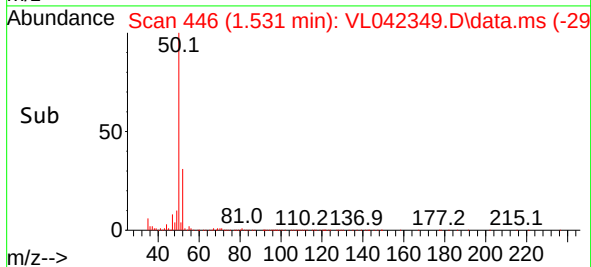
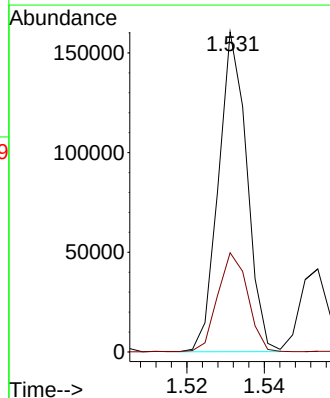
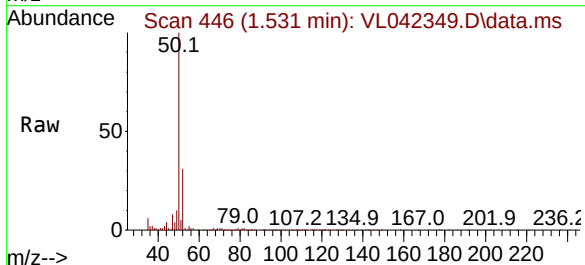
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 51 Resp: 197334  
Ion Ratio Lower Upper  
51 100  
67 20.3 16.2 24.4

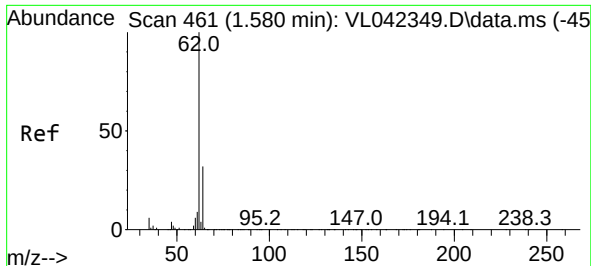


#4  
Chloromethane  
Concen: 9.330 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 50 Resp: 81843  
Ion Ratio Lower Upper  
50 100  
52 30.9 24.7 37.1



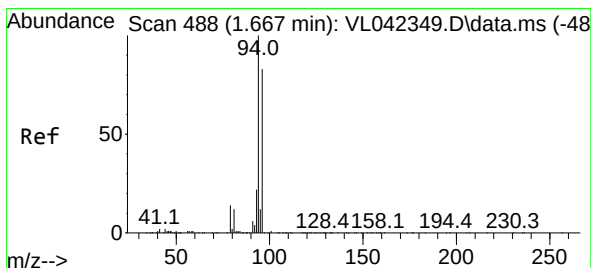
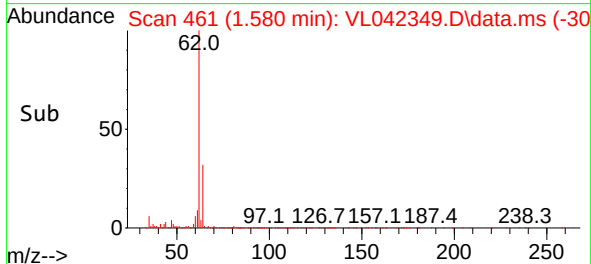
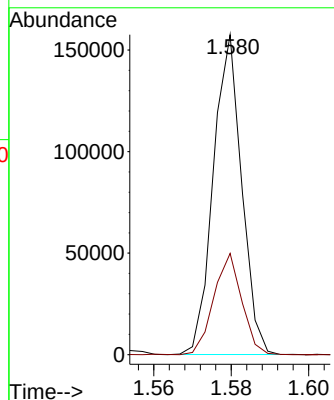
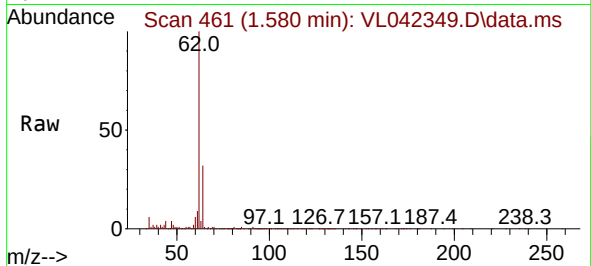




#5  
 Vinyl Chloride  
 Concen: 8.385 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

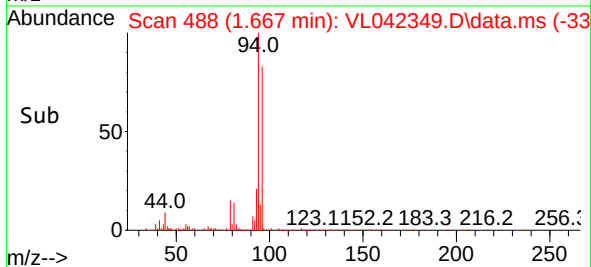
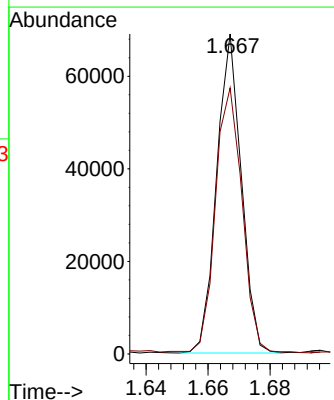
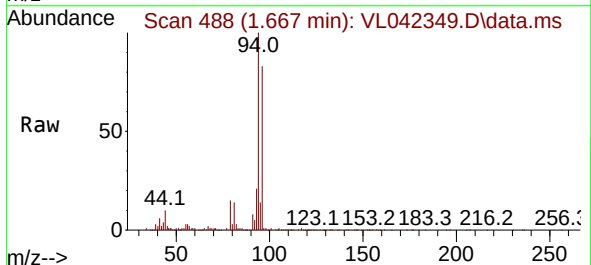
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

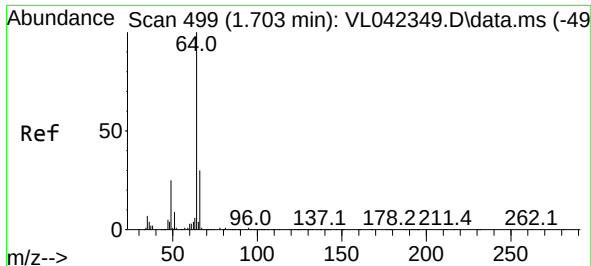
Tgt Ion: 62 Resp: 80068  
 Ion Ratio Lower Upper  
 62 100  
 64 31.7 25.4 38.0



#6  
 Bromomethane  
 Concen: 9.219 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128  
 Ion Ratio Lower Upper  
 94 100  
 96 82.7 66.2 99.2

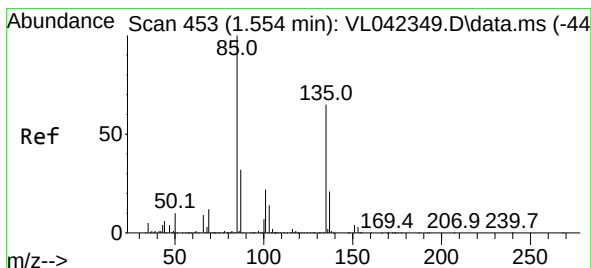
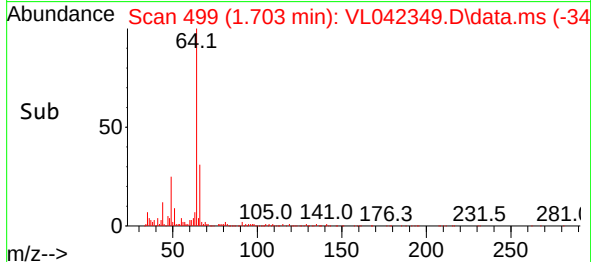
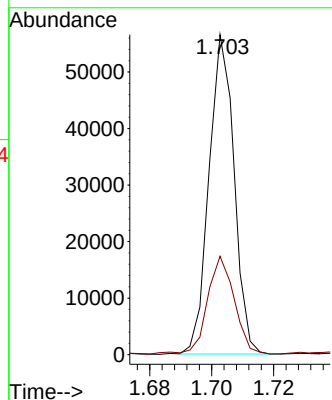
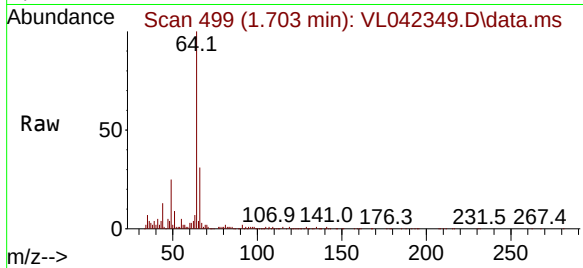




#7  
Chloroethane  
Concen: 9.182 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

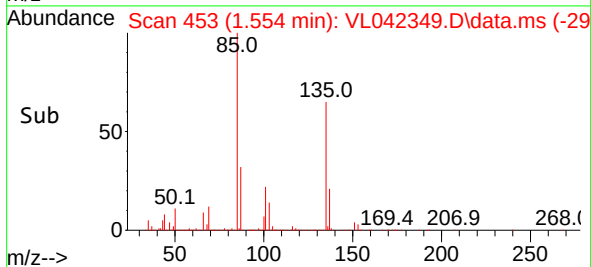
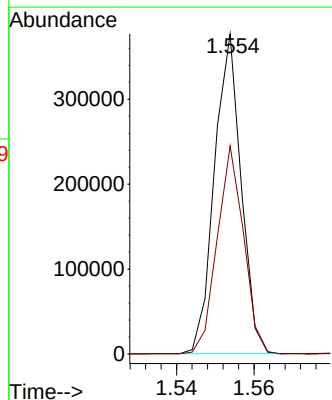
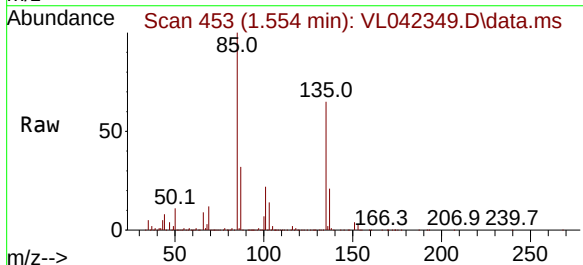
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

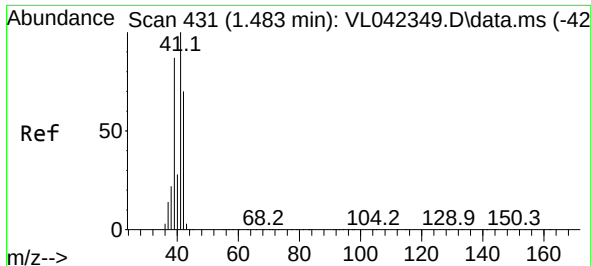
Tgt Ion: 64 Resp: 31705  
Ion Ratio Lower Upper  
64 100  
66 30.8 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 9.442 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696  
Ion Ratio Lower Upper  
85 100  
135 65.2 52.2 78.2





#9

Propene

Concen: 9.002 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

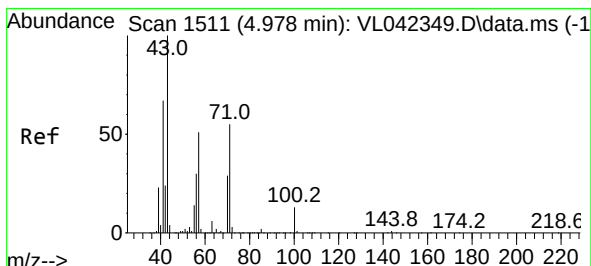
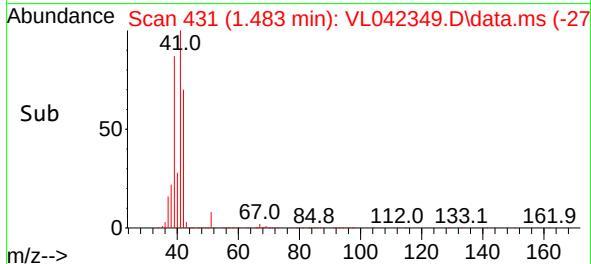
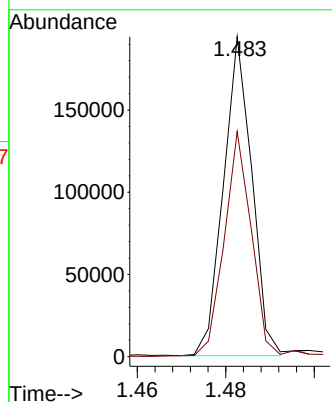
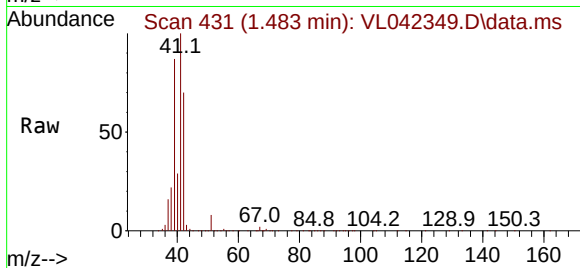
VSTDICCC010

Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

42 70.3 56.2 84.4



#10

Heptane

Concen: 9.138 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042349.D

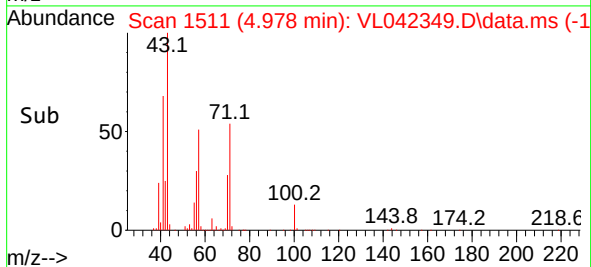
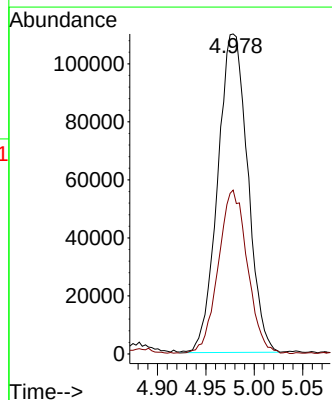
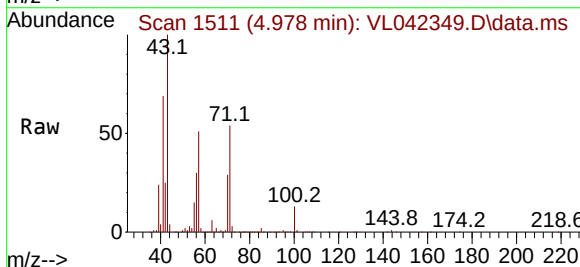
Acq: 17 Apr 2025 09:44

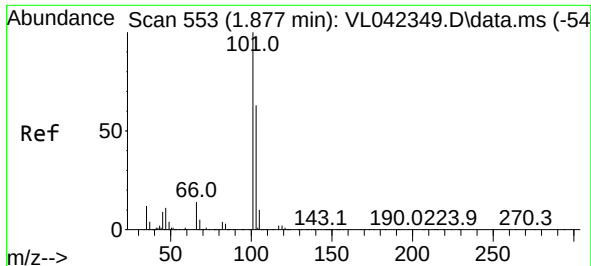
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

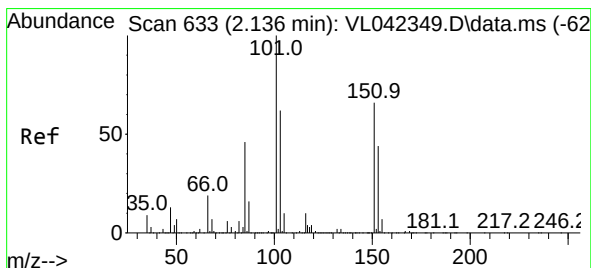
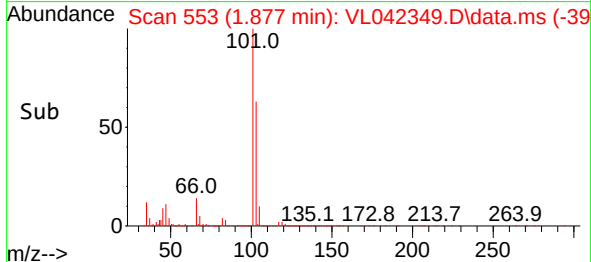
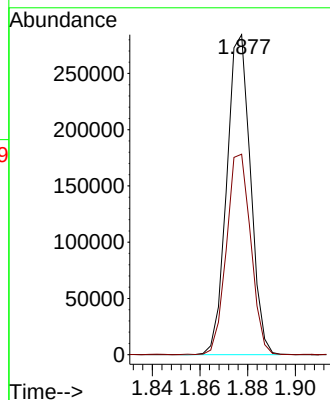
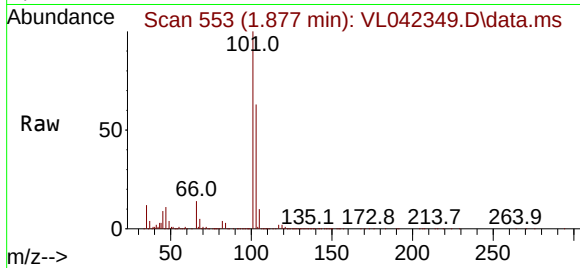




#11  
 Trichlorofluoromethane  
 Concen: 9.327 ppbv  
 RT: 1.877 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

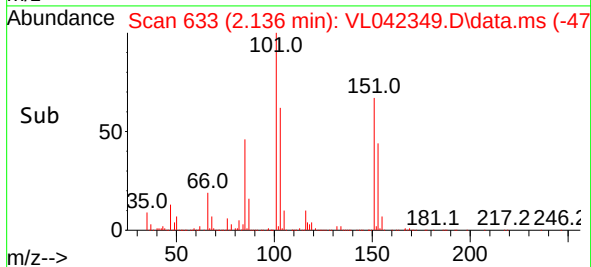
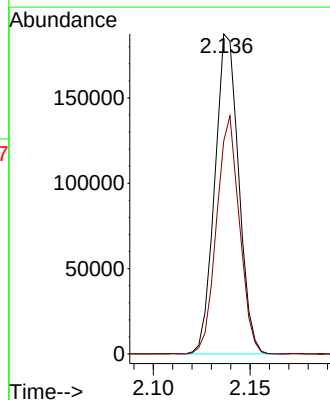
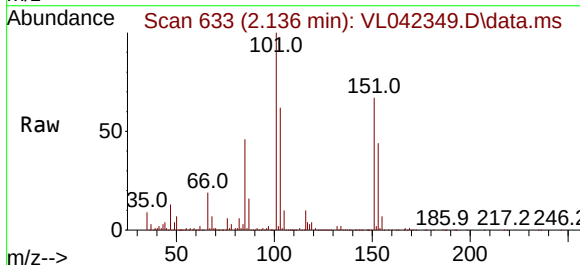
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

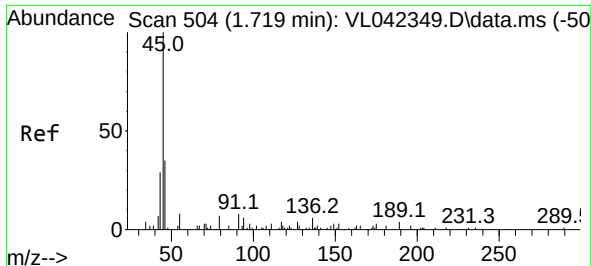
Tgt Ion:101 Resp: 196596  
 Ion Ratio Lower Upper  
 101 100  
 103 62.6 50.1 75.1



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.323 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682  
 Ion Ratio Lower Upper  
 101 100  
 151 71.3 57.0 85.6

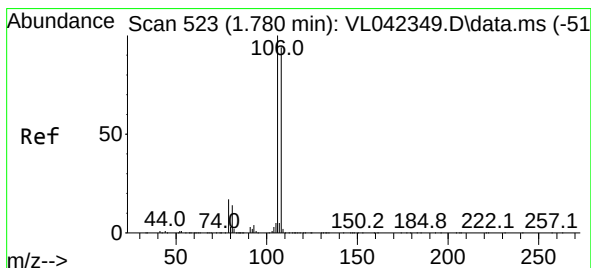
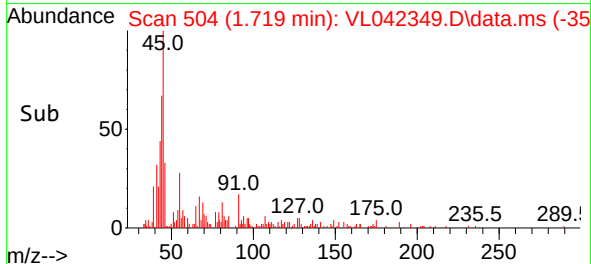
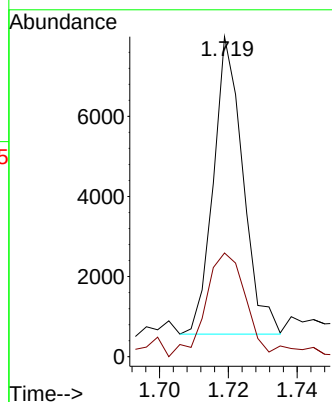
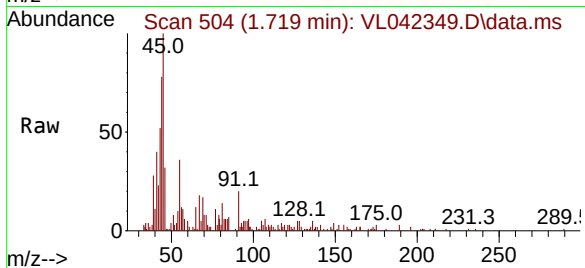




#13  
Ethanol  
Concen: 5.651 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

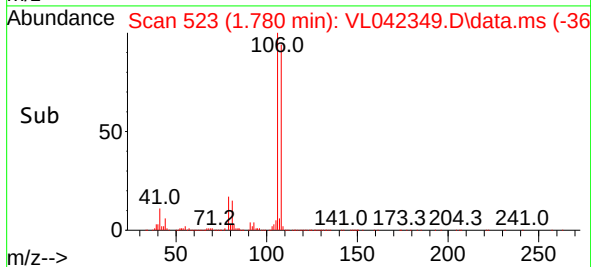
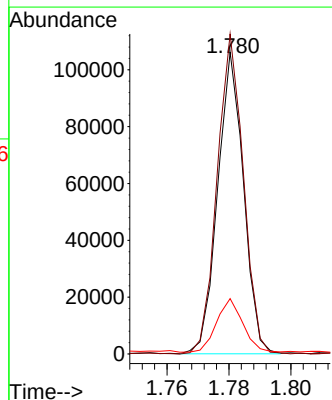
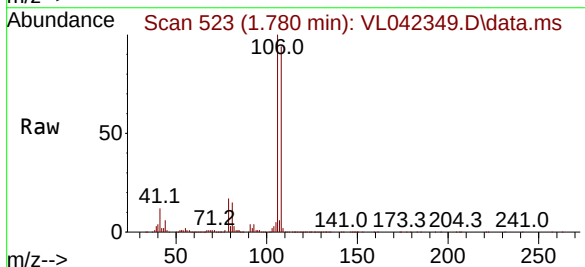
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

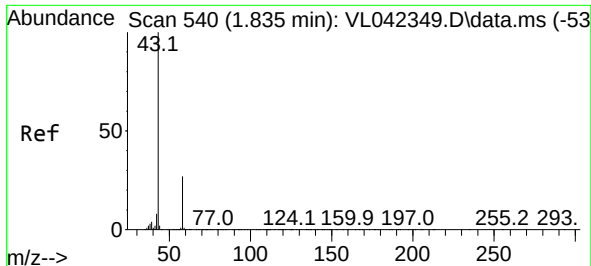
Tgt Ion: 45 Resp: 4439  
Ion Ratio Lower Upper  
45 100  
46 54.8 21.9 87.7



#14  
Bromoethene  
Concen: 9.466 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 108 Resp: 61493  
Ion Ratio Lower Upper  
108 100  
106 107.4 85.9 128.9  
79 17.4 13.9 20.9

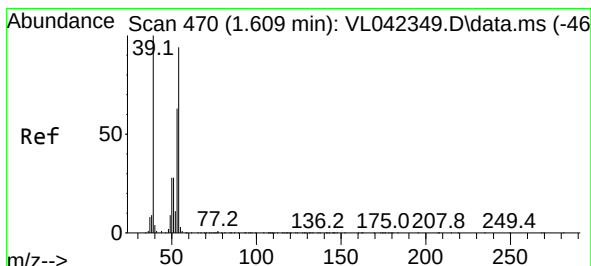
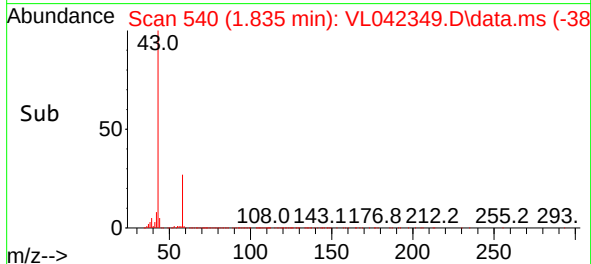
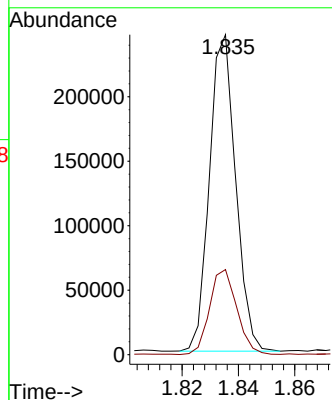
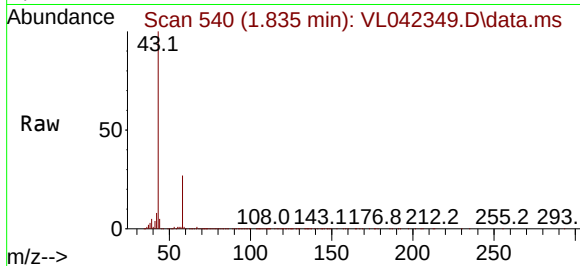




#15  
Acetone  
Concen: 7.717 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

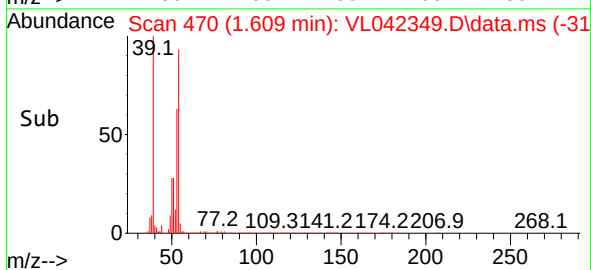
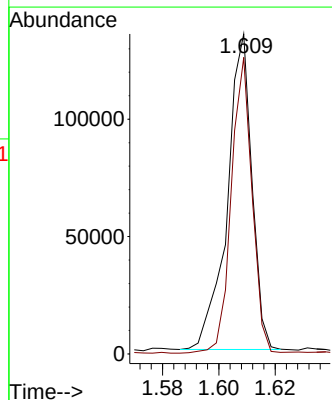
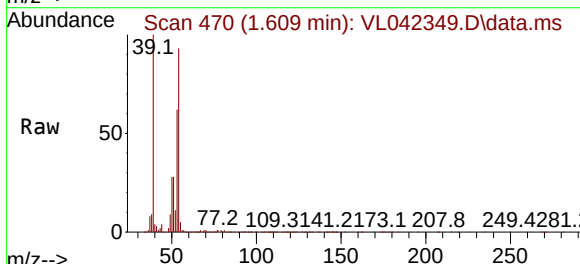
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

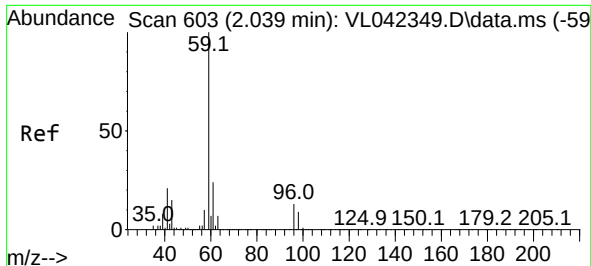
Tgt Ion: 43 Resp: 158490  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6



#16  
1,3-Butadiene  
Concen: 8.470 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688  
Ion Ratio Lower Upper  
39 100  
54 81.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 8.891 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_1

ClientSampleId :

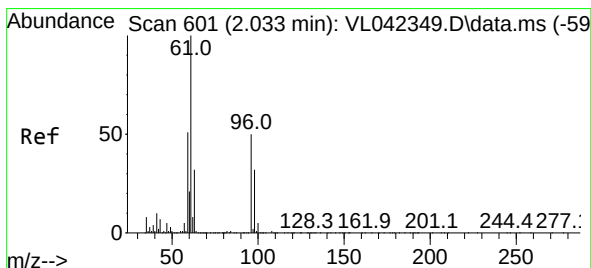
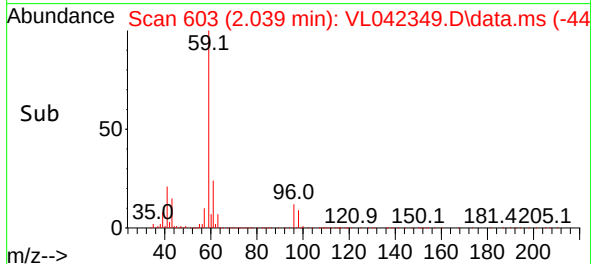
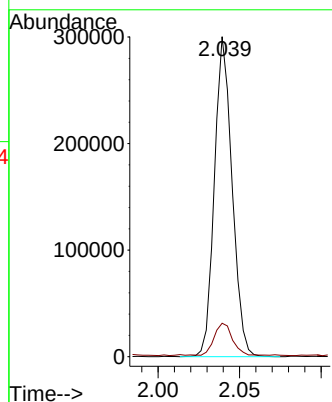
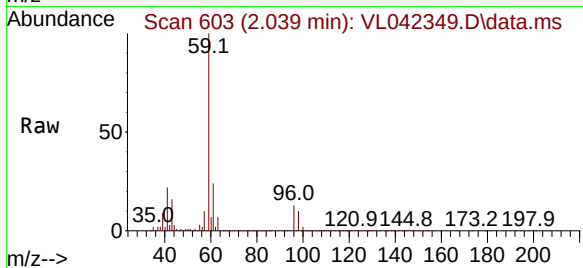
VSTDICCC010

Tgt Ion: 59 Resp: 226280

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



#18

1,1-Dichloroethene

Concen: 8.833 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

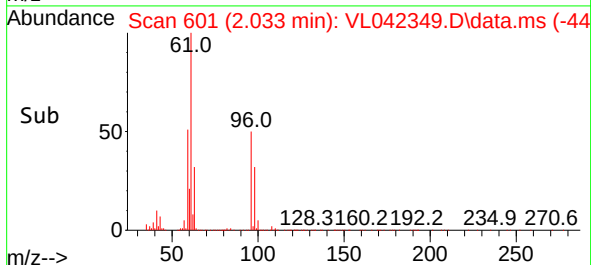
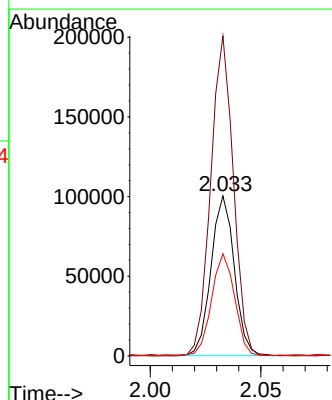
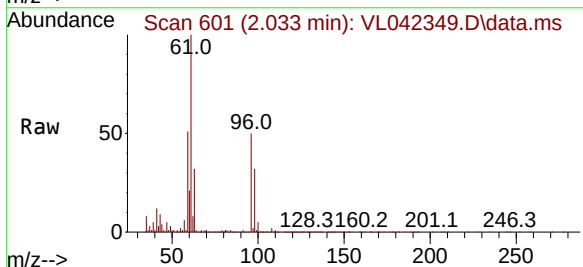
Tgt Ion: 96 Resp: 73186

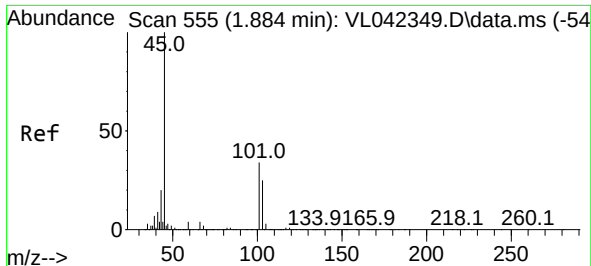
Ion Ratio Lower Upper

96 100

61 200.2 160.2 240.2

98 63.7 51.0 76.4

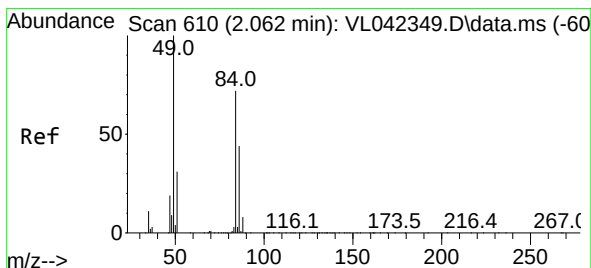
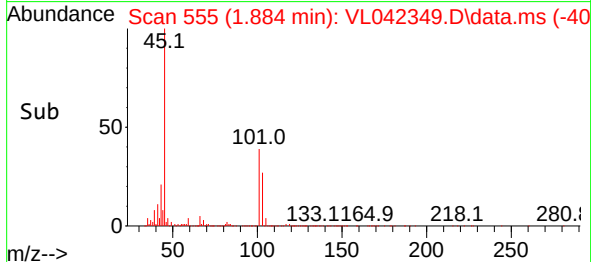
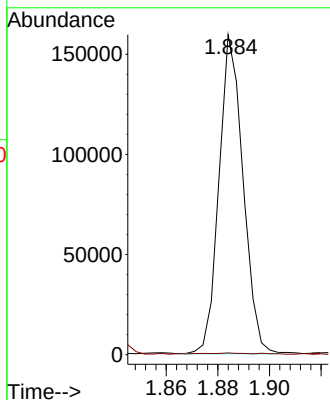
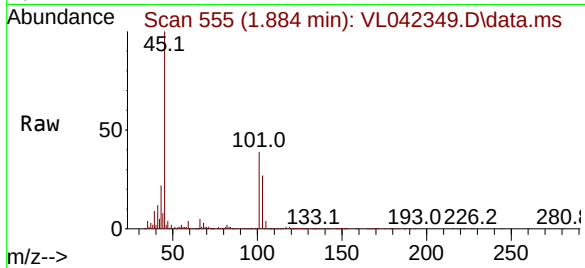




#19  
Isopropyl Alcohol  
Concen: 9.031 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

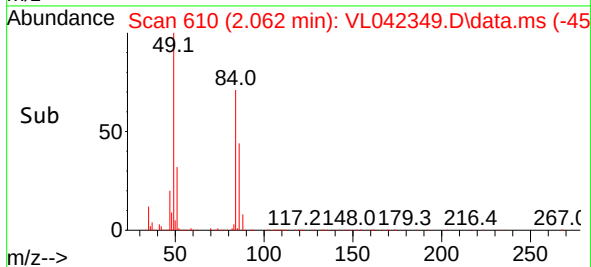
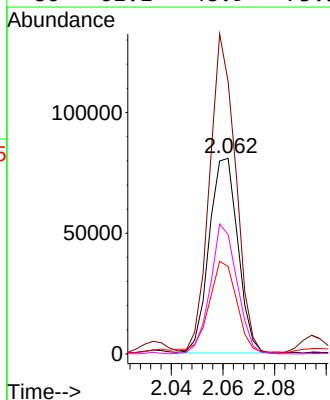
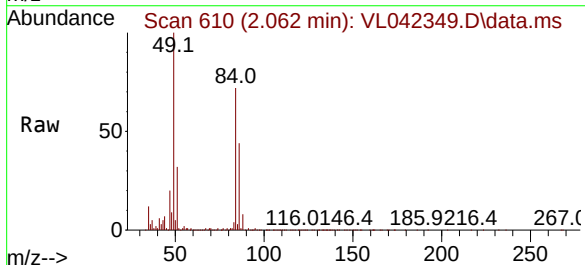
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 45 Resp: 103029  
Ion Ratio Lower Upper  
45 100  
58 43.1 34.5 51.7

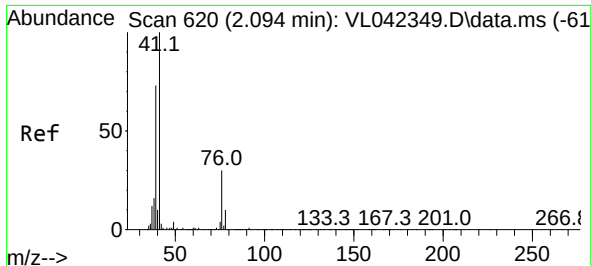


#20  
Methylene Chloride  
Concen: 7.760 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414  
Ion Ratio Lower Upper  
84 100  
49 139.5 111.6 167.4  
51 43.9 35.1 52.7  
86 61.1 48.9 73.3



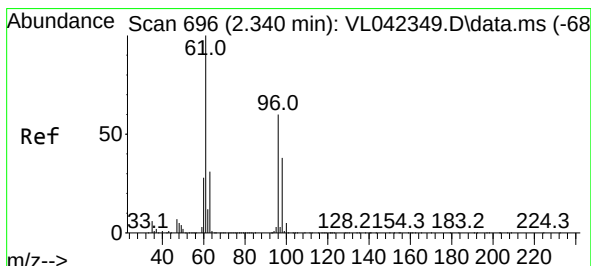
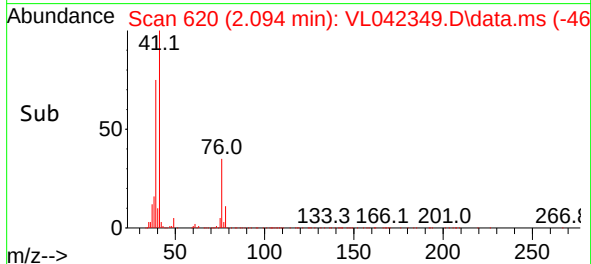
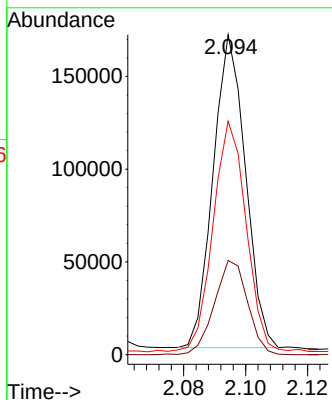
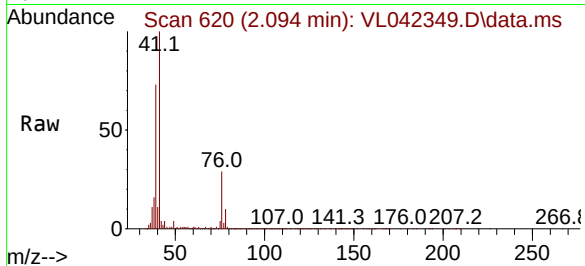




#21  
 Allyl Chloride  
 Concen: 8.611 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

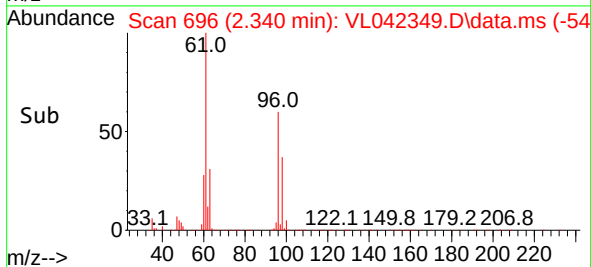
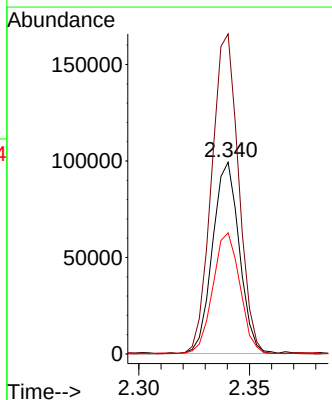
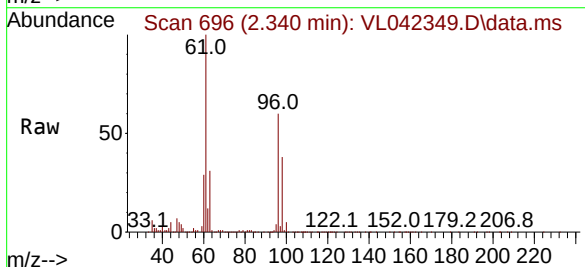
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

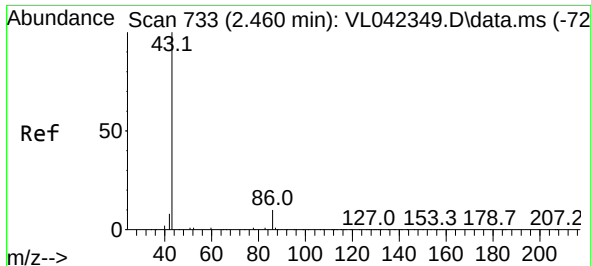
Tgt Ion: 41 Resp: 122115  
 Ion Ratio Lower Upper  
 41 100  
 76 31.0 24.8 37.2  
 39 75.7 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.084 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278  
 Ion Ratio Lower Upper  
 96 100  
 61 167.1 133.7 200.5  
 98 62.9 50.3 75.5

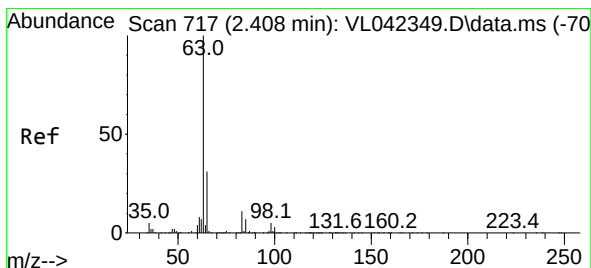
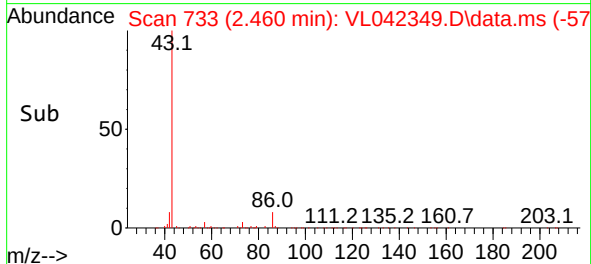
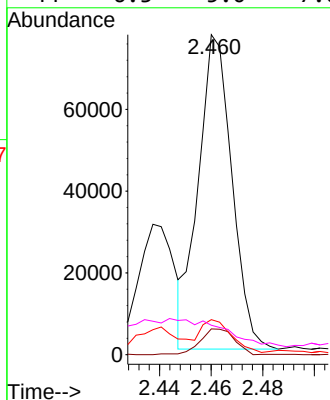
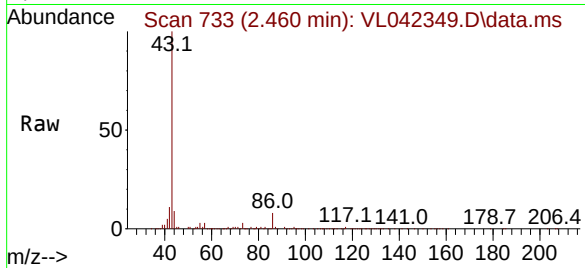




#23  
 Vinyl Acetate  
 Concen: 8.378 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

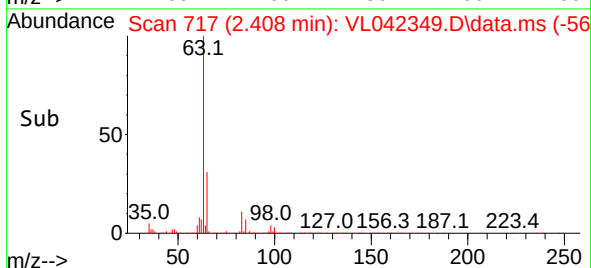
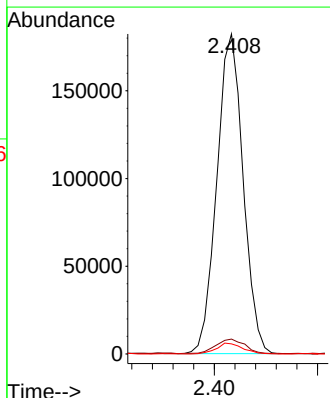
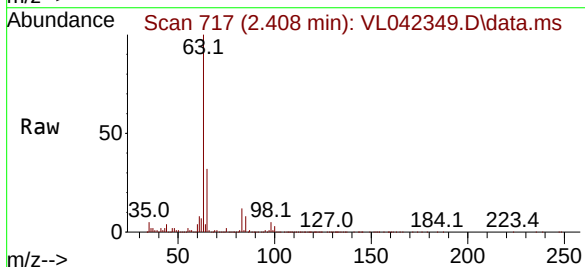
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

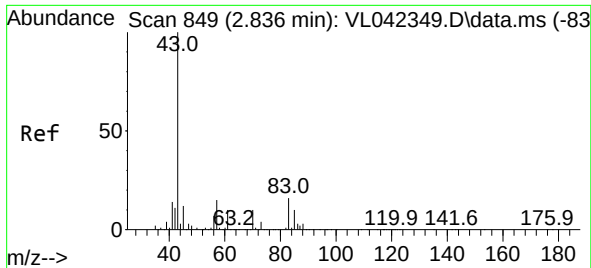
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 69649 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.1   | 6.5   | 9.7   |
| 42       | 9.8   | 7.8   | 11.8  |
| 44       | 6.3   | 5.0   | 7.6   |



#24  
 1,1-Dichloroethane  
 Concen: 9.251 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 161102 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.5   | 2.3   | 6.8    |
| 100      | 3.2   | 1.6   | 4.8    |



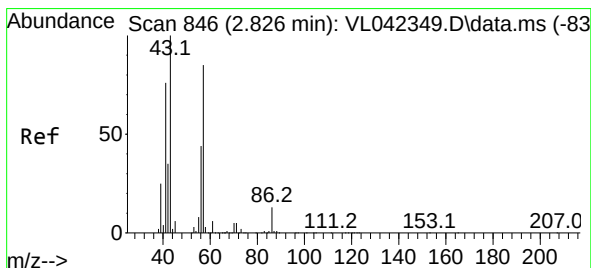
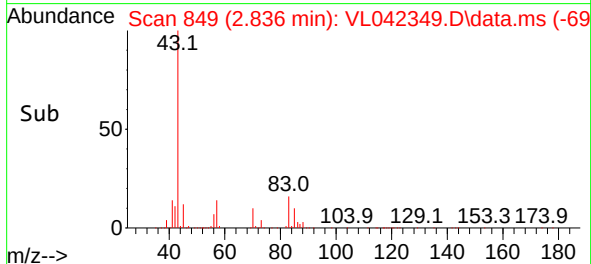
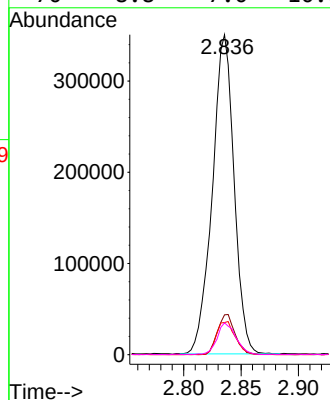
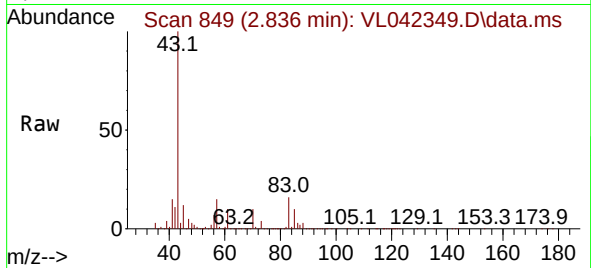


#25  
Ethyl Acetate  
Concen: 9.110 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 461315

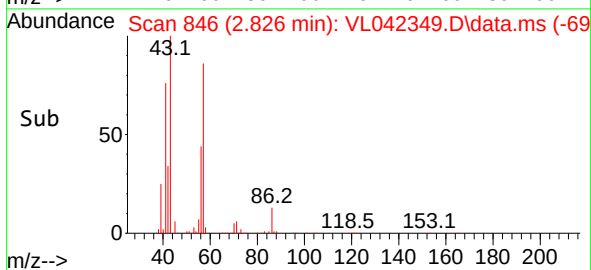
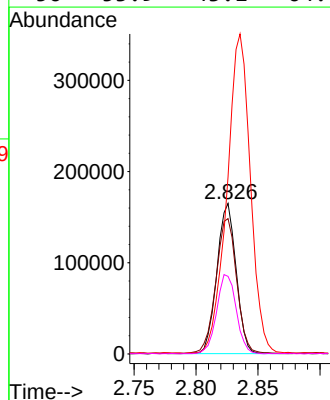
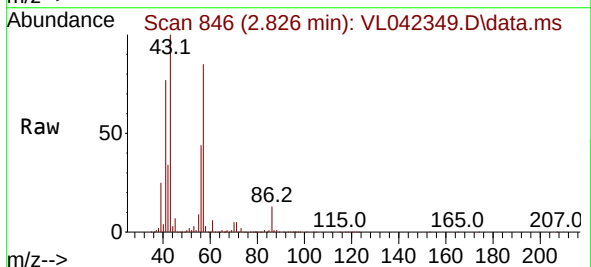
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.4  | 8.3   | 12.5  |
| 61  | 9.1   | 7.3   | 10.9  |
| 70  | 8.8   | 7.0   | 10.6  |

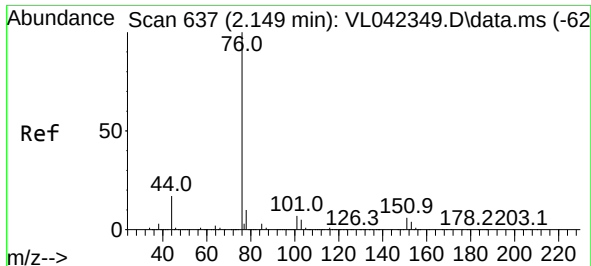


#26  
Hexane  
Concen: 8.720 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 97.4  | 77.9  | 116.9 |
| 43  | 260.5 | 208.4 | 312.6 |
| 56  | 53.9  | 43.1  | 64.7  |





#27

Carbon Disulfide

Concen: 9.539 ppbv

RT: 2.149 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

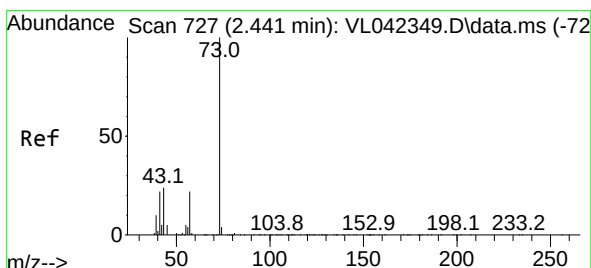
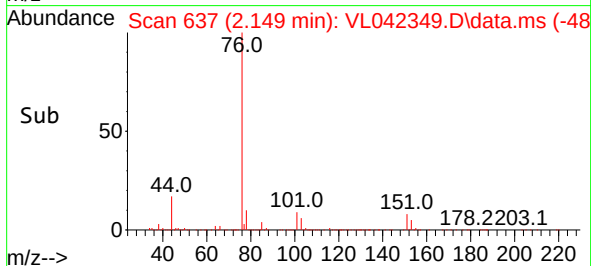
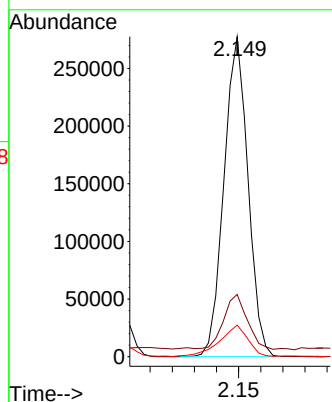
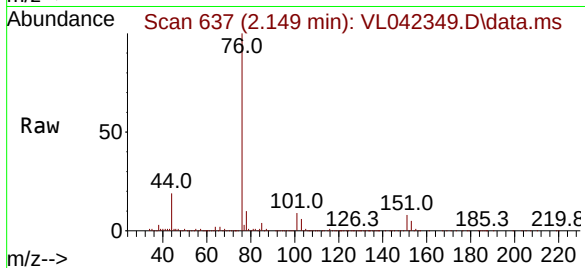
Tgt Ion: 76 Resp: 209297

Ion Ratio Lower Upper

76 100

44 19.4 15.5 23.3

78 11.6 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 8.783 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.000 min

Lab File: VL042349.D

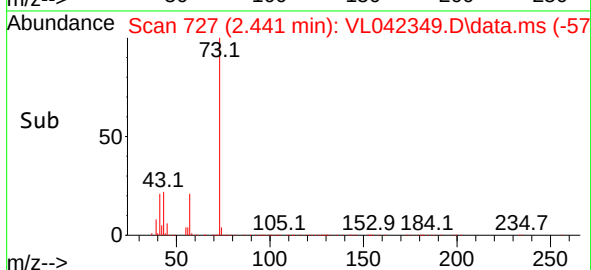
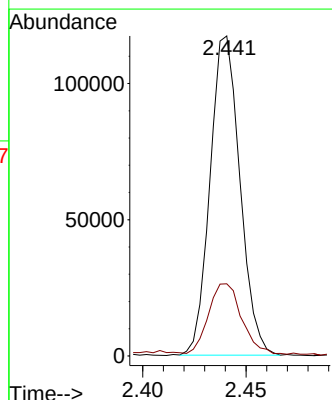
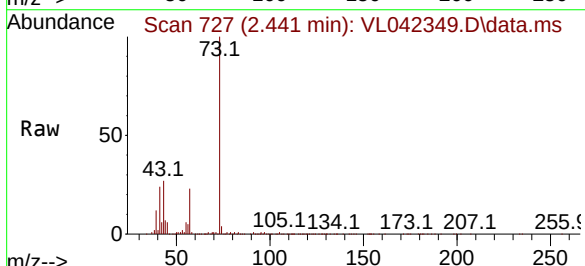
Acq: 17 Apr 2025 09:44

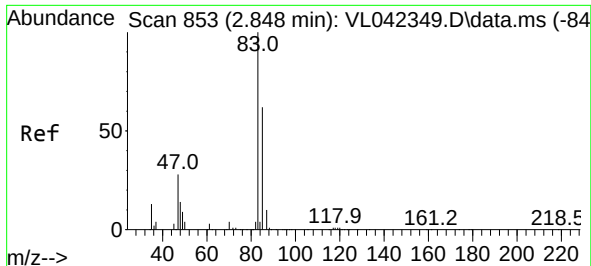
Tgt Ion: 73 Resp: 117924

Ion Ratio Lower Upper

73 100

57 26.6 21.3 31.9





#29

Chloroform

Concen: 9.290 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

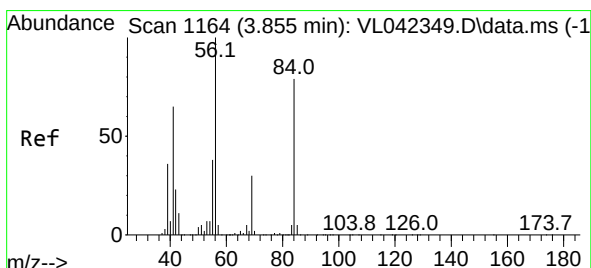
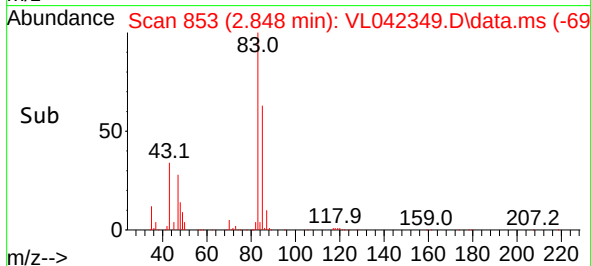
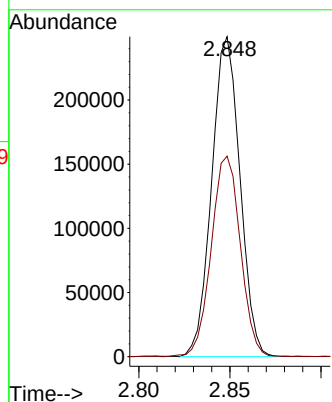
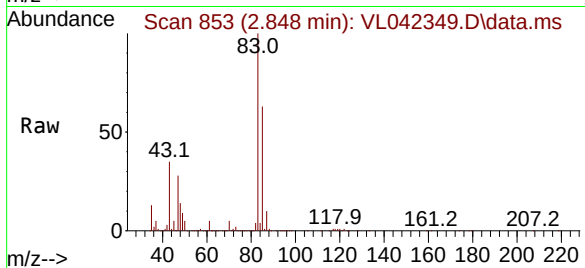
VSTDICCC010

Tgt Ion: 83 Resp: 269088

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0



#30

Cyclohexane

Concen: 9.517 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

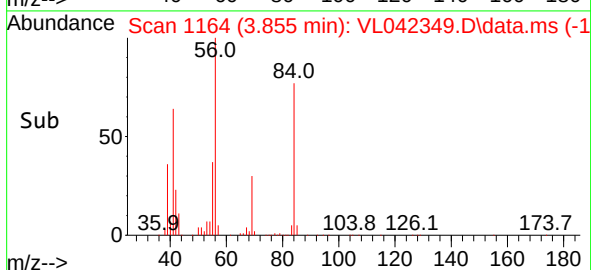
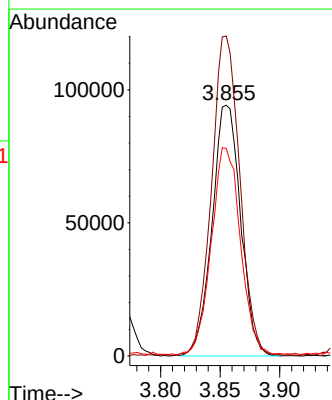
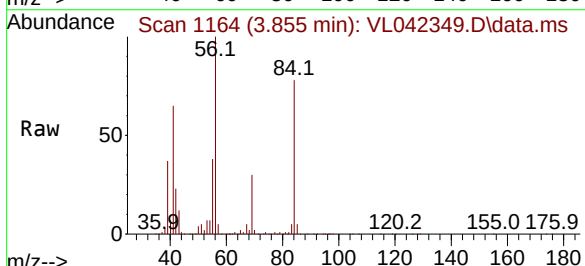
Tgt Ion: 84 Resp: 157035

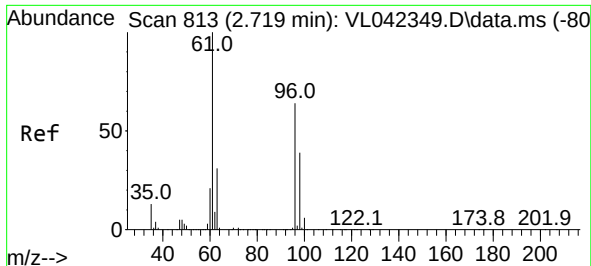
Ion Ratio Lower Upper

84 100

56 126.2 101.0 151.4

41 84.2 67.4 101.0

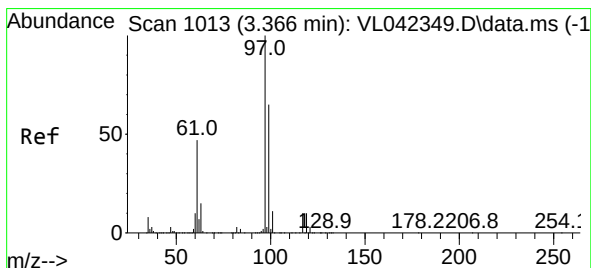
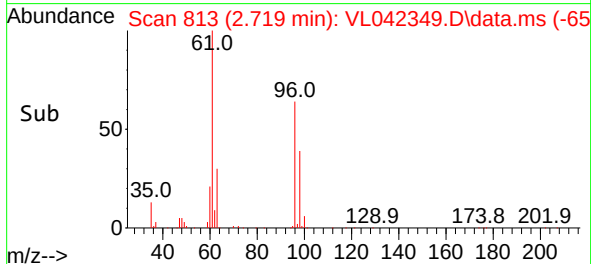
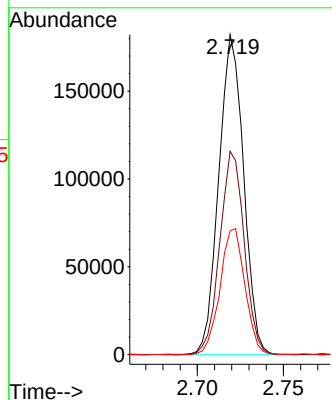
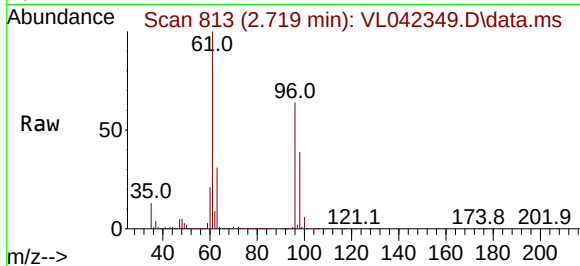




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.397 ppbv  
 RT: 2.719 min Scan# 813  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

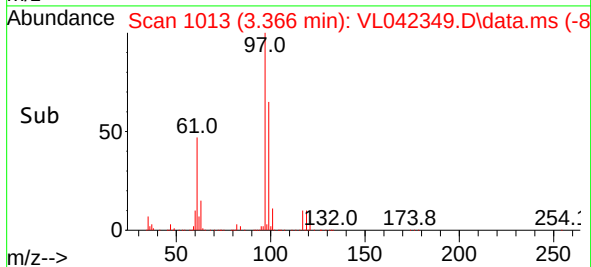
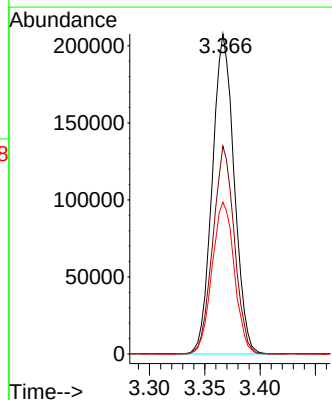
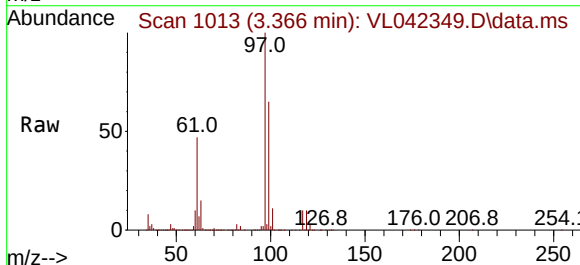
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

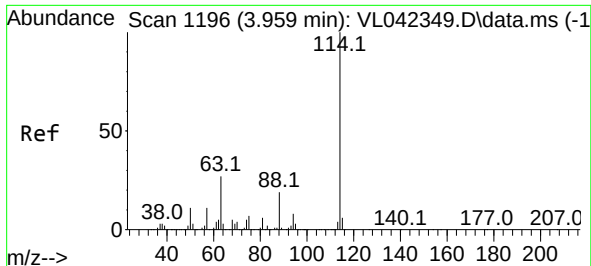
Tgt Ion: 61 Resp: 183082  
 Ion Ratio Lower Upper  
 61 100  
 96 63.5 50.8 76.2  
 98 38.6 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 9.187 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336  
 Ion Ratio Lower Upper  
 97 100  
 99 63.7 51.0 76.4  
 61 48.5 38.8 58.2

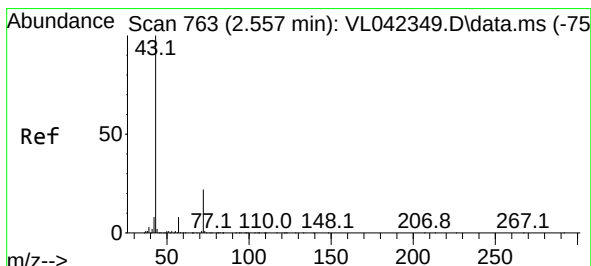
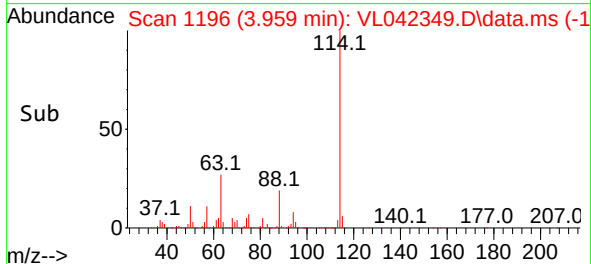
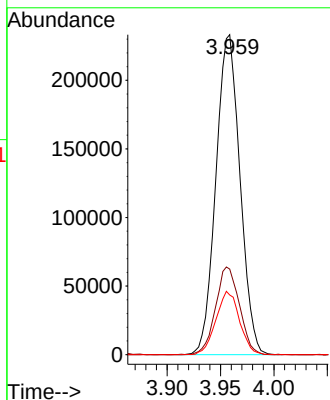
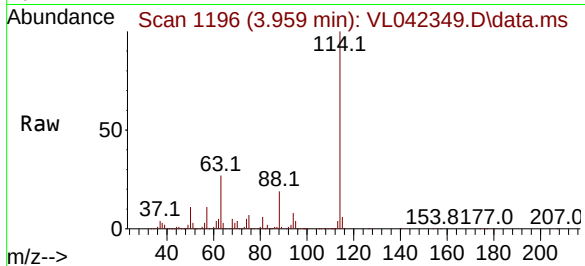




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.959 min Scan# 1196  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

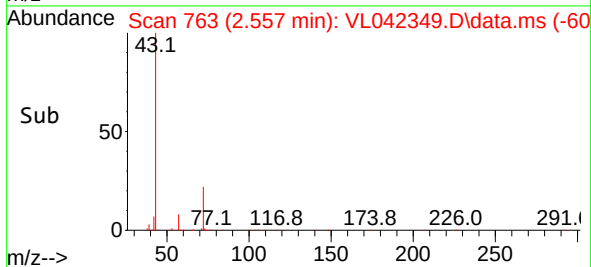
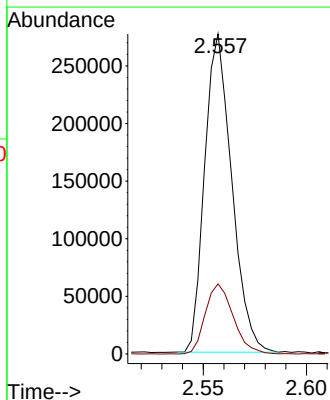
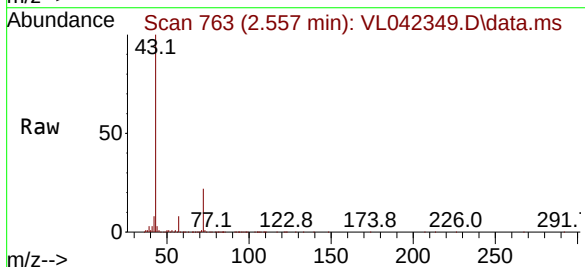
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

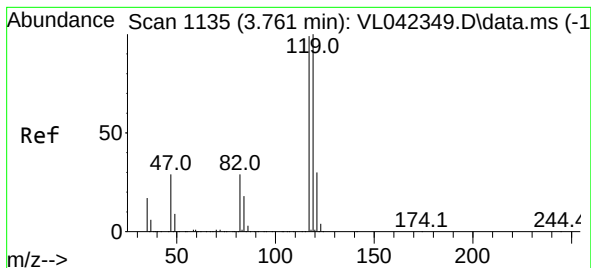
Tgt Ion:114 Resp: 366544  
 Ion Ratio Lower Upper  
 114 100  
 63 27.2 21.8 32.6  
 88 19.4 15.5 23.3



#34  
 2-Butanone  
 Concen: 8.683 ppbv  
 RT: 2.557 min Scan# 763  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704  
 Ion Ratio Lower Upper  
 43 100  
 72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 8.513 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

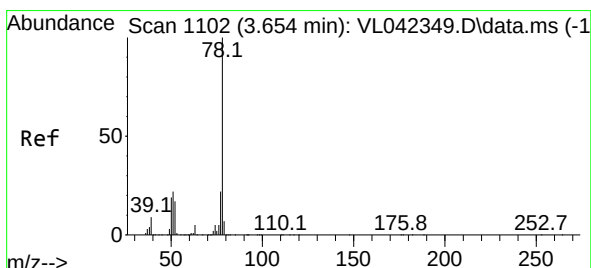
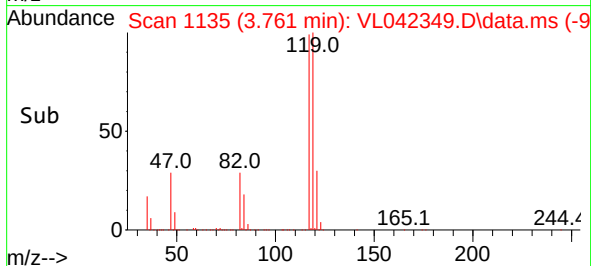
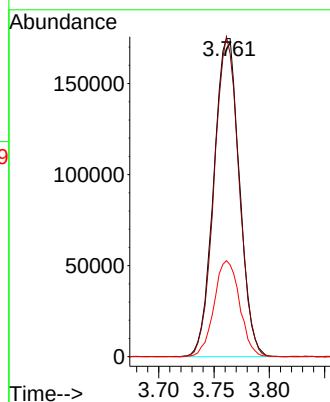
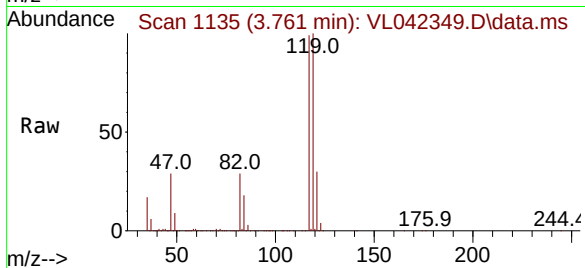
Tgt Ion:117 Resp: 282402

Ion Ratio Lower Upper

117 100

119 100.6 80.5 120.7

121 30.2 24.2 36.2



#36

Benzene

Concen: 9.292 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

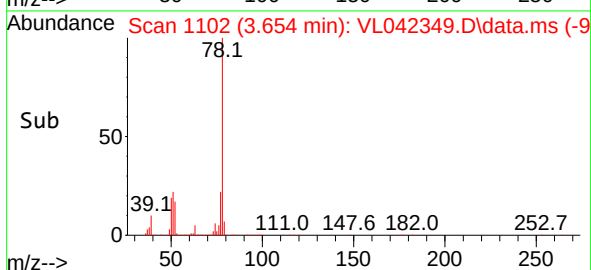
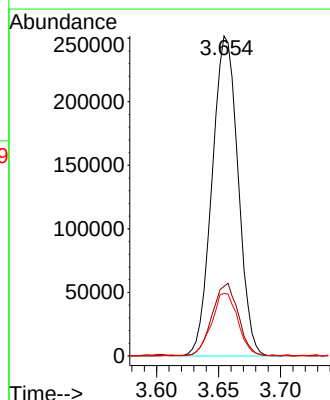
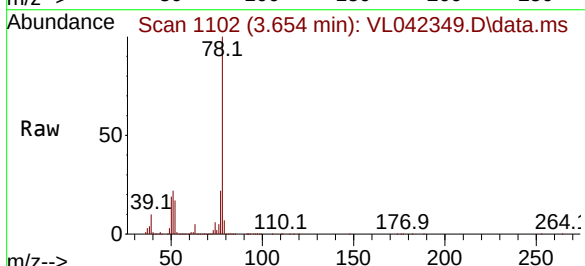
Tgt Ion: 78 Resp: 367355

Ion Ratio Lower Upper

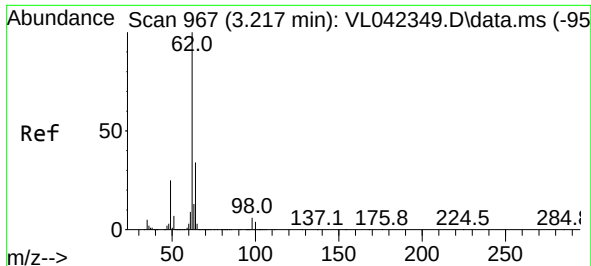
78 100

77 21.7 17.4 26.0

50 19.4 15.5 23.3



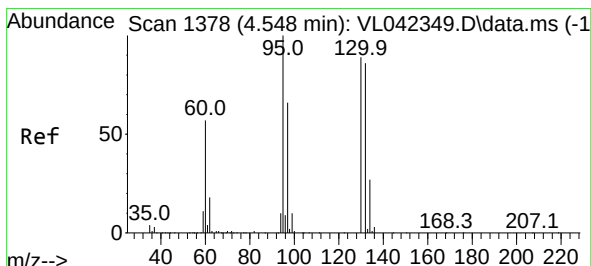
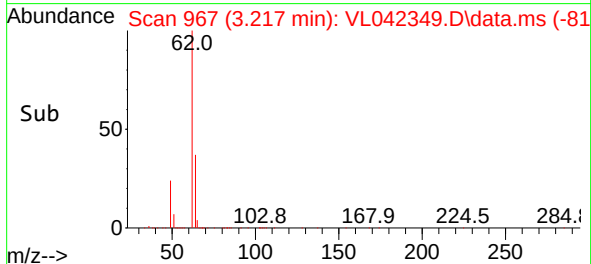
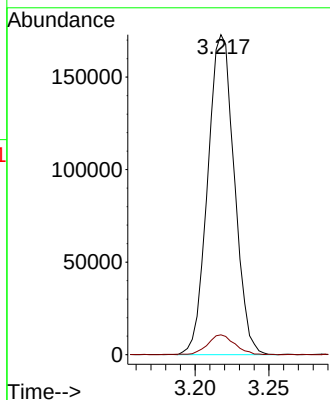
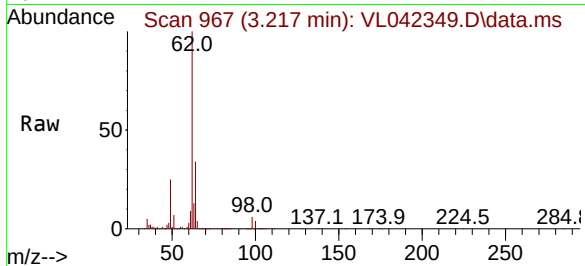




#37  
1,2-Dichloroethane  
Concen: 9.145 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

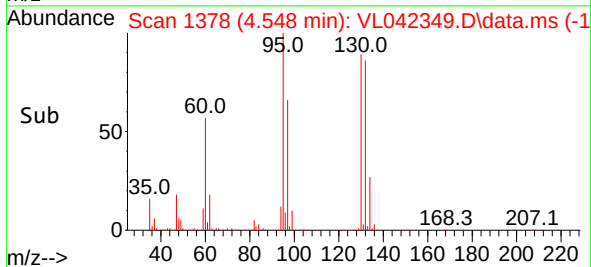
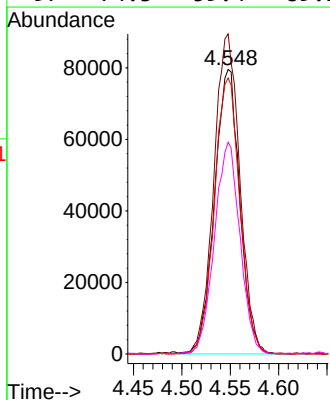
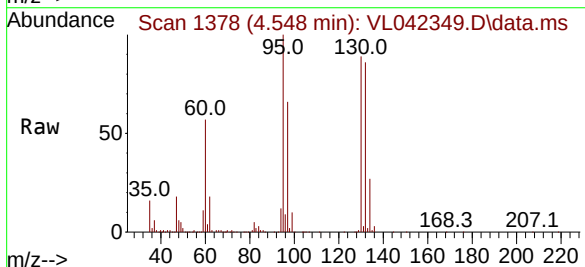
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

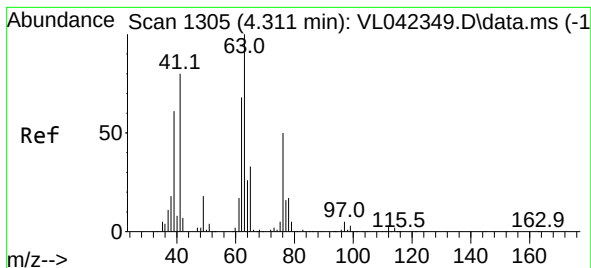
Tgt Ion: 62 Resp: 216999  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.1 7.7



#38  
Trichloroethene  
Concen: 8.352 ppbv  
RT: 4.548 min Scan# 1378  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767  
Ion Ratio Lower Upper  
130 100  
95 112.2 89.8 134.6  
132 97.1 77.7 116.5  
97 74.3 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.197 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

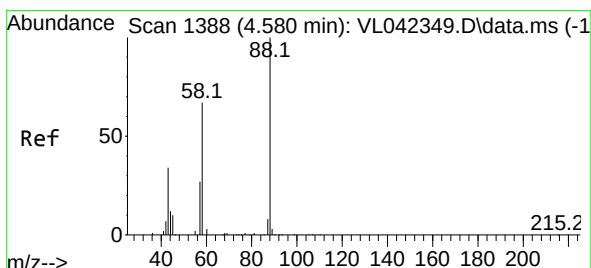
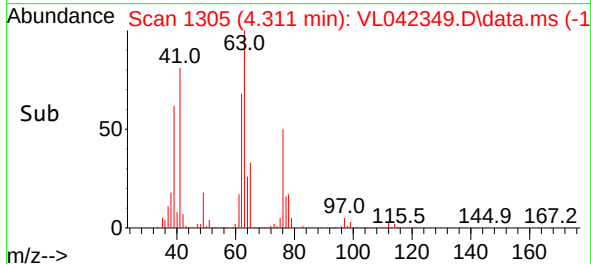
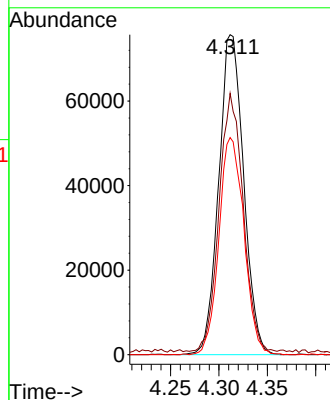
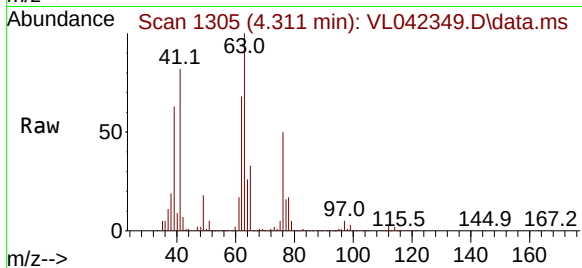
Tgt Ion: 63 Resp: 135605

Ion Ratio Lower Upper

63 100

41 80.2 64.2 96.2

62 67.9 54.3 81.5



#40

1,4-Dioxane

Concen: 8.348 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

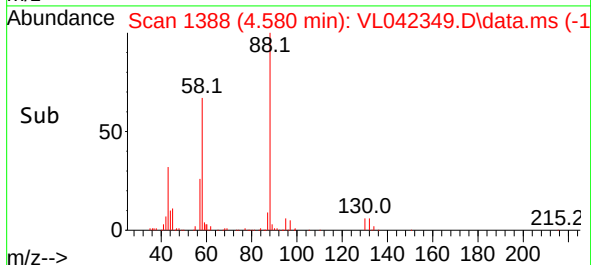
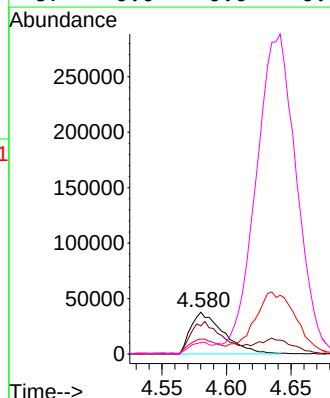
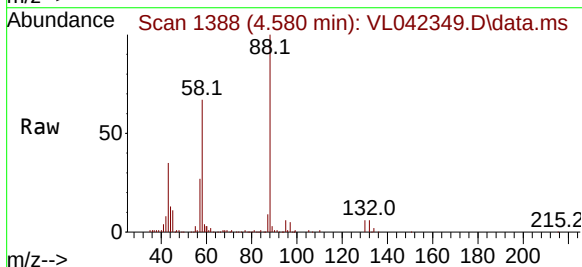
Ion Ratio Lower Upper

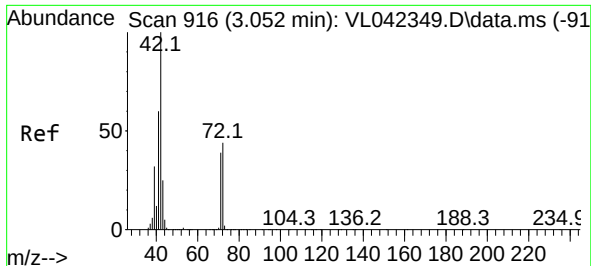
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

57 0.0 0.0 0.0

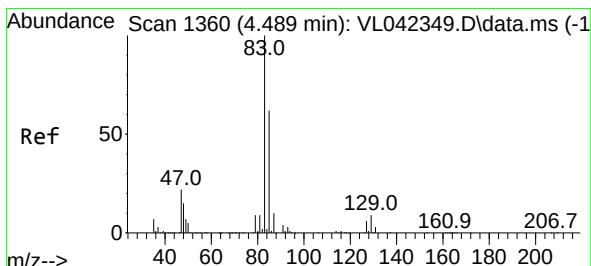
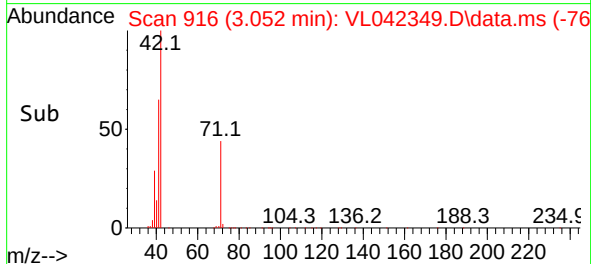
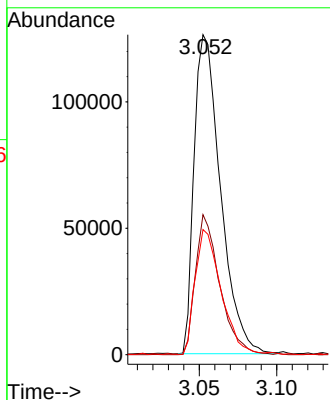
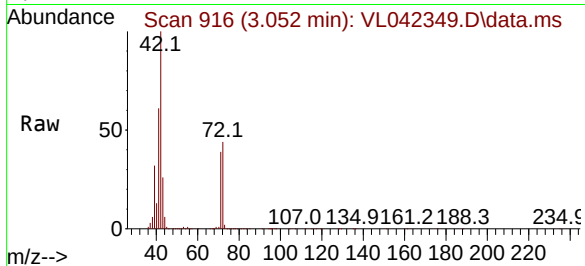




#41  
Tetrahydrofuran  
Concen: 8.950 ppbv  
RT: 3.052 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

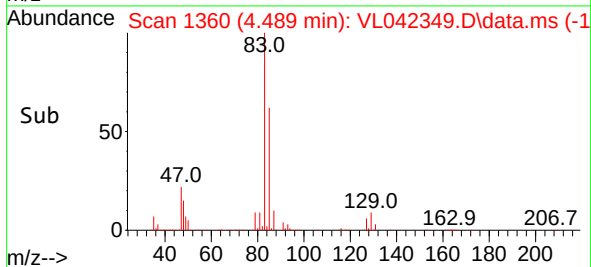
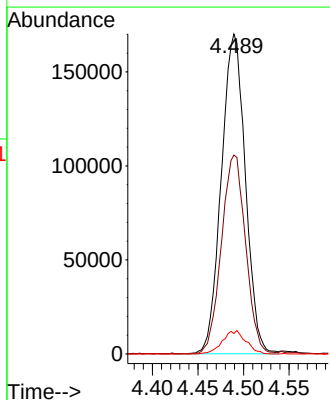
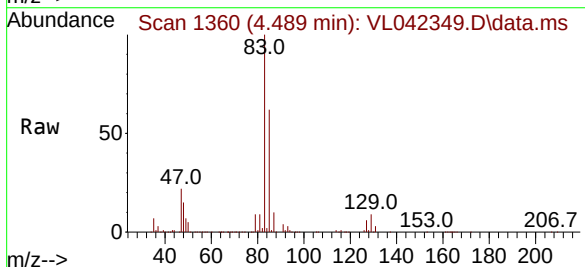
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

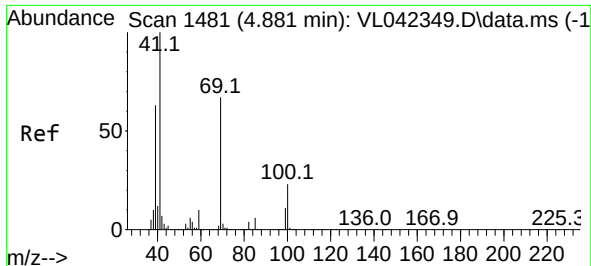
Tgt Ion: 42 Resp: 149905  
Ion Ratio Lower Upper  
42 100  
72 40.4 32.3 48.5  
71 39.3 31.4 47.2



#42  
Bromodichloromethane  
Concen: 9.456 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268  
Ion Ratio Lower Upper  
83 100  
85 62.1 49.7 74.5  
127 6.4 5.1 7.7

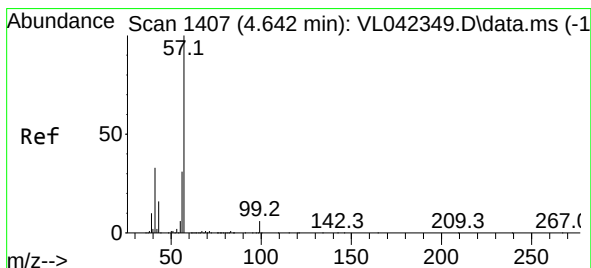
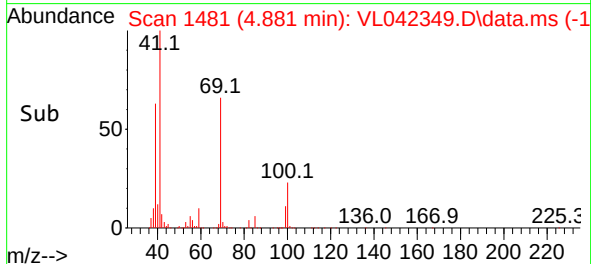
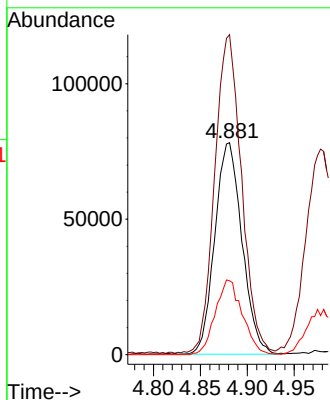
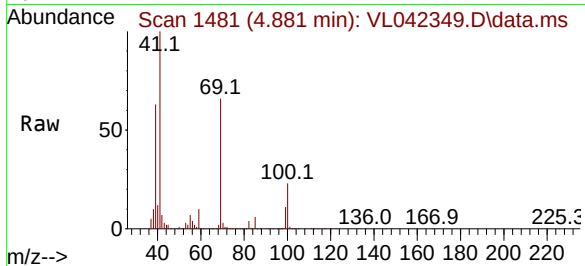




#43  
Methyl Methacrylate  
Concen: 8.876 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

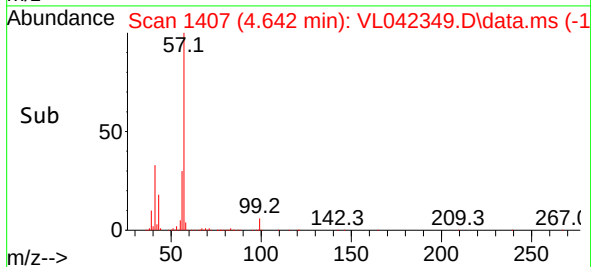
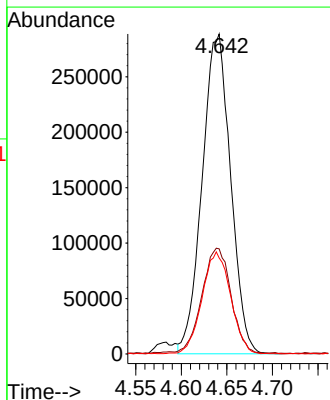
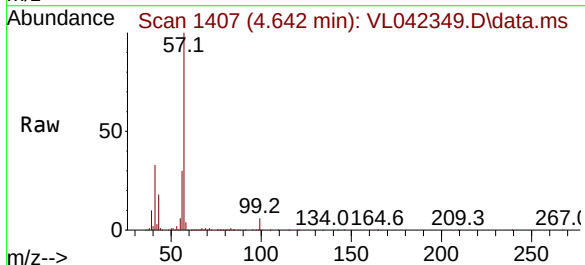
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

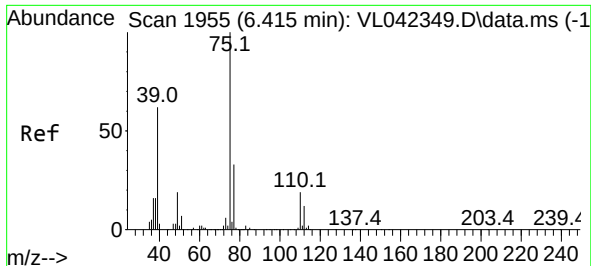
Tgt Ion: 69 Resp: 157501  
Ion Ratio Lower Upper  
69 100  
41 148.2 118.6 177.8  
100 35.2 28.2 42.2



#44  
2,2,4-Trimethylpentane  
Concen: 9.157 ppbv  
RT: 4.642 min Scan# 1407  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085  
Ion Ratio Lower Upper  
57 100  
41 34.0 27.2 40.8  
56 32.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.233 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

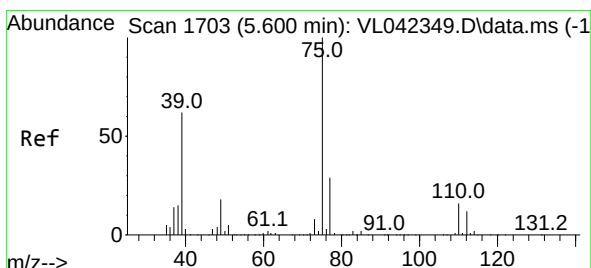
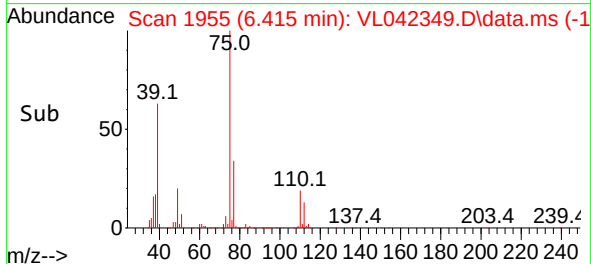
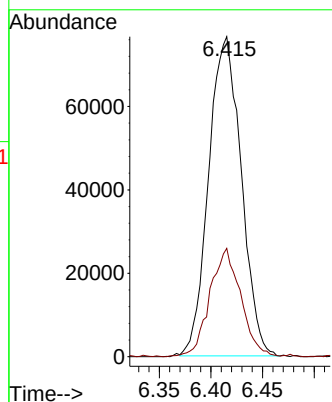
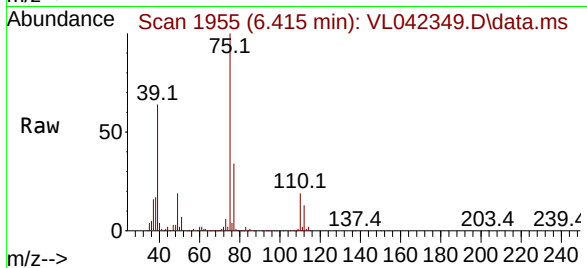
VSTDICCC010

Tgt Ion: 75 Resp: 168223

Ion Ratio Lower Upper

75 100

77 33.8 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 9.377 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

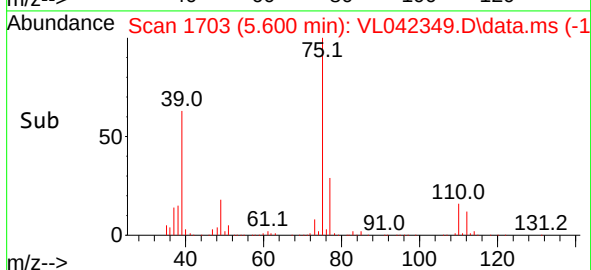
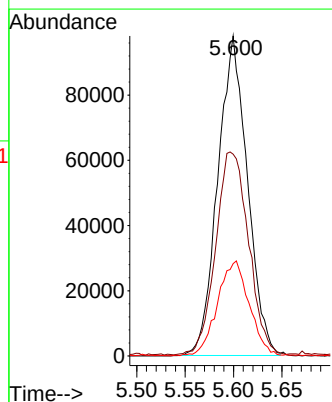
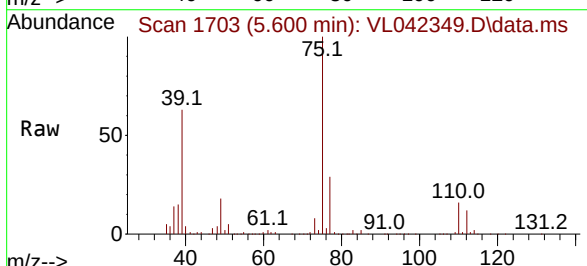
Tgt Ion: 75 Resp: 208811

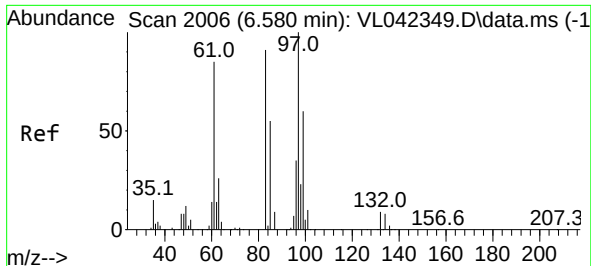
Ion Ratio Lower Upper

75 100

39 62.5 50.0 75.0

77 28.8 23.0 34.6

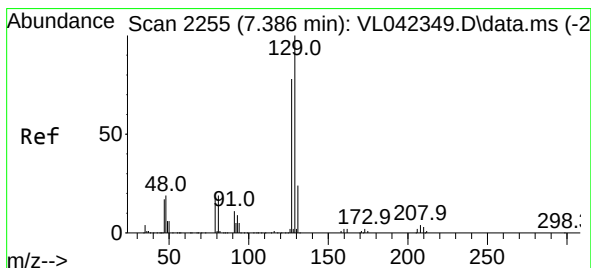
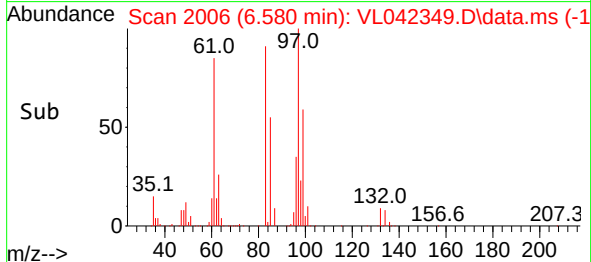
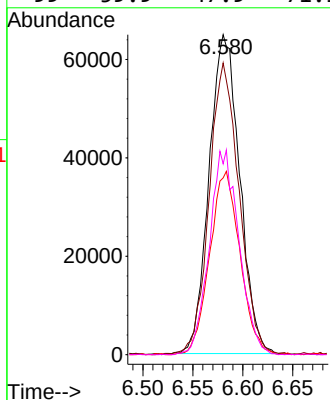
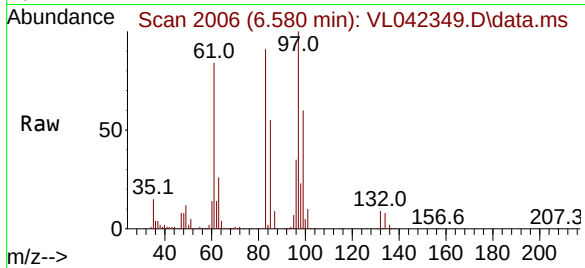




#47  
1,1,2-Trichloroethane  
Concen: 9.181 ppbv  
RT: 6.580 min Scan# 2006  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

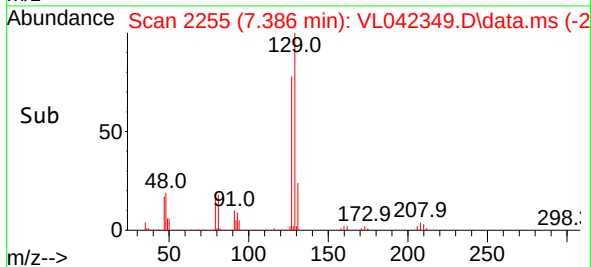
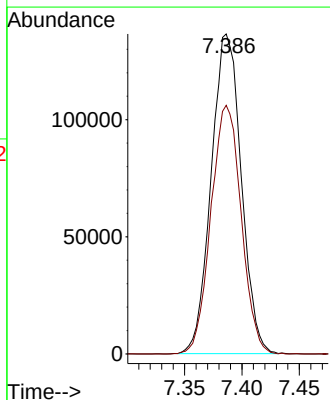
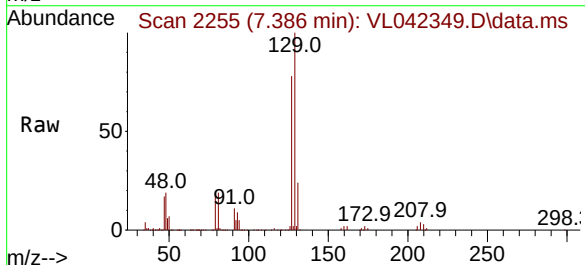
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

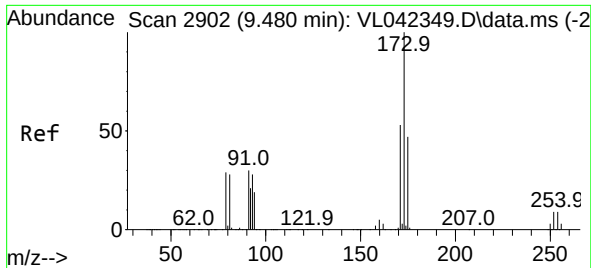
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 137898 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 91.0  | 72.8  | 109.2  |
| 85       | 55.3  | 44.2  | 66.4   |
| 99       | 59.9  | 47.9  | 71.9   |



#48  
Dibromochloromethane  
Concen: 9.388 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 248954 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.2  | 39.1  | 117.3  |





#49

Bromoform

Concen: 9.734 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

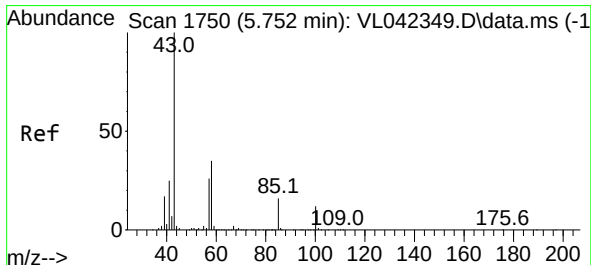
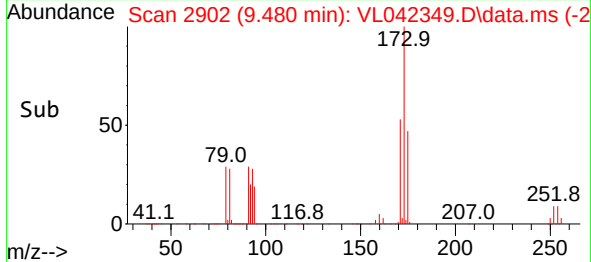
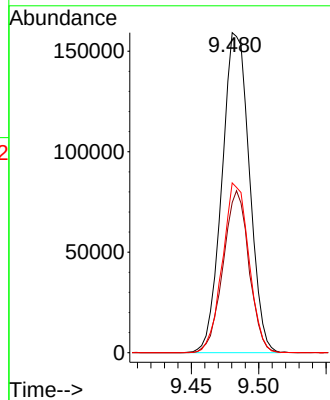
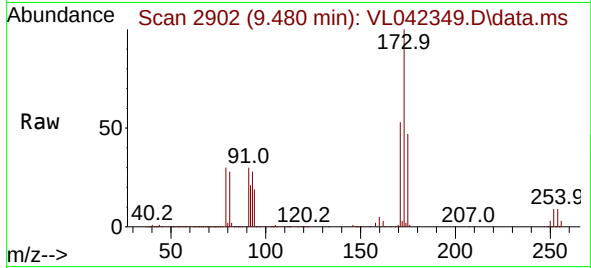
Tgt Ion:173 Resp: 225706

Ion Ratio Lower Upper

173 100

175 47.7 38.2 57.2

171 51.1 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 8.215 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VL042349.D

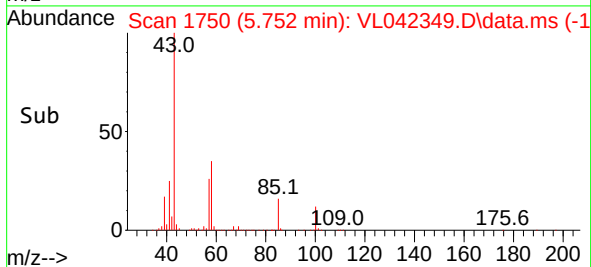
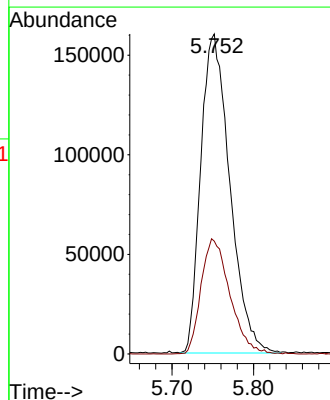
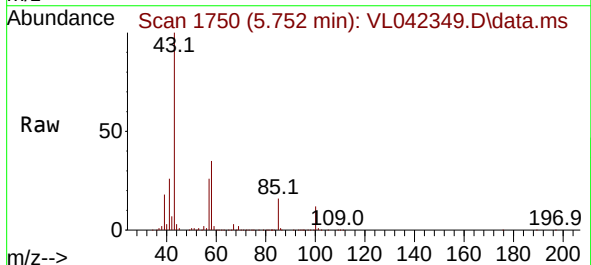
Acq: 17 Apr 2025 09:44

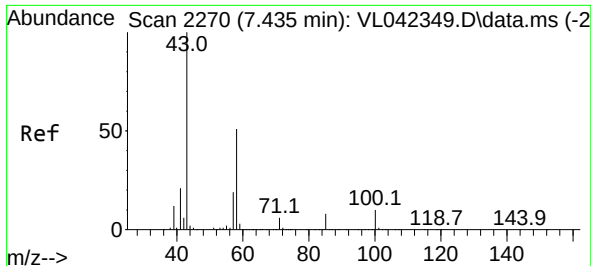
Tgt Ion: 43 Resp: 396548

Ion Ratio Lower Upper

43 100

58 35.8 28.6 43.0

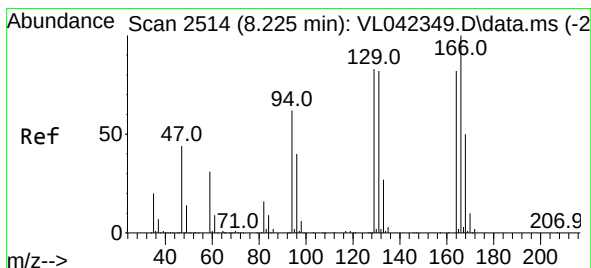
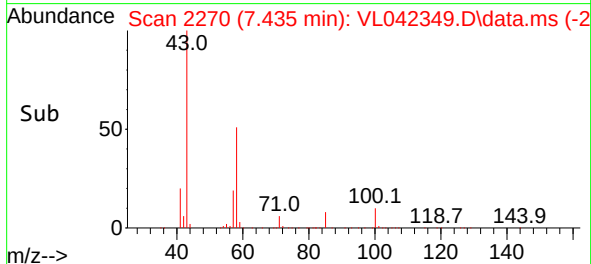
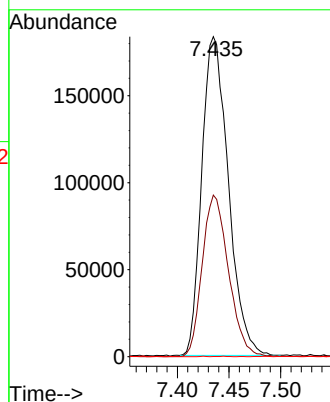
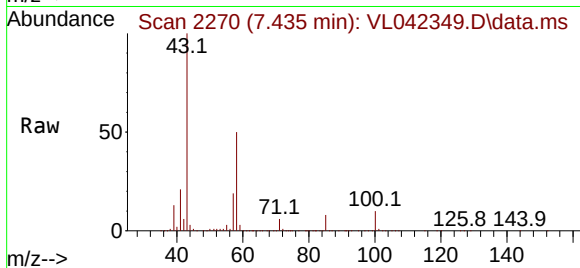




#51  
2-Hexanone  
Concen: 7.511 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

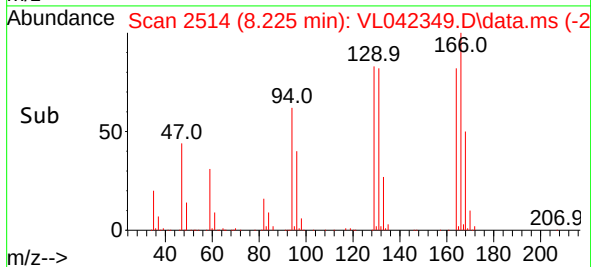
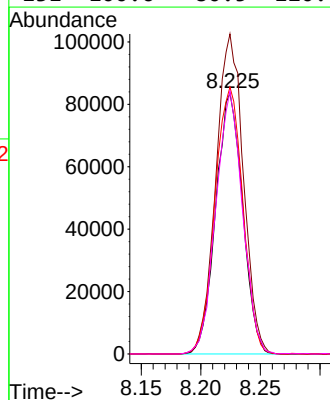
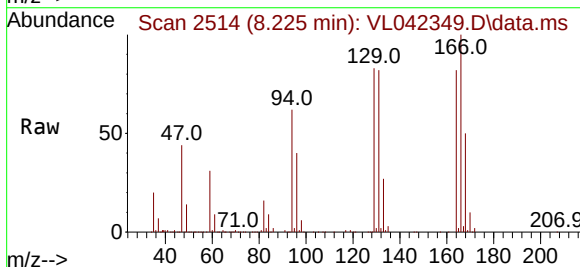
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 327165  
Ion Ratio Lower Upper  
43 100  
58 50.3 40.2 60.4  
98 0.1 0.1 0.1

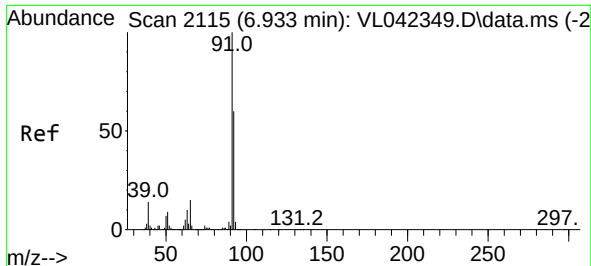


#52  
Tetrachloroethene  
Concen: 8.553 ppbv  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 164 Resp: 130720  
Ion Ratio Lower Upper  
164 100  
166 122.7 98.2 147.2  
129 102.3 81.8 122.8  
131 100.6 80.5 120.7



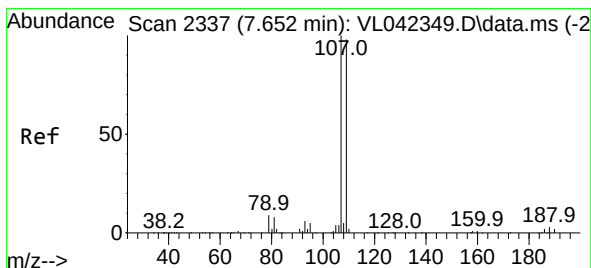
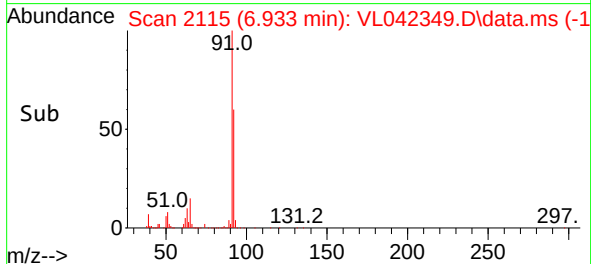
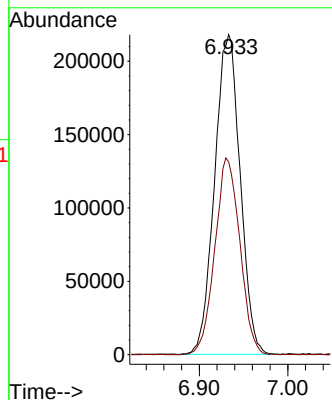
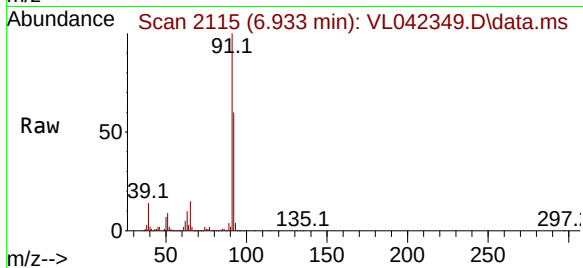




#53  
Toluene  
Concen: 9.216 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

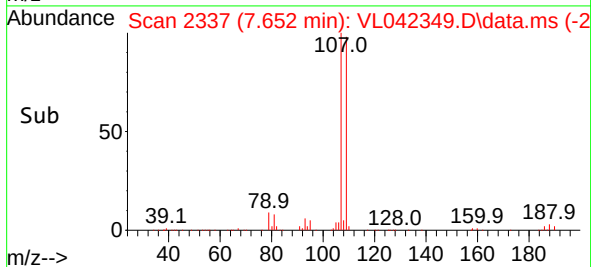
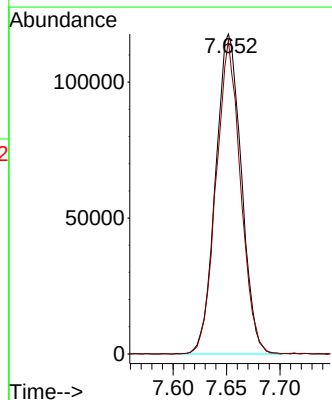
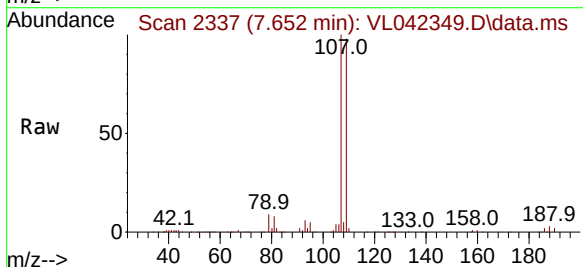
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

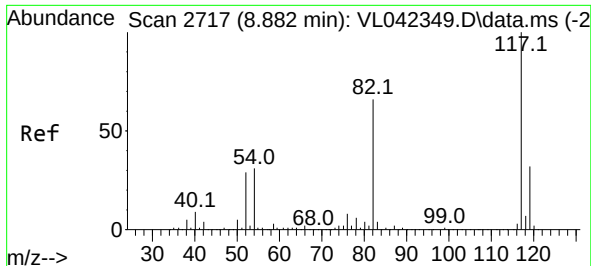
Tgt Ion: 91 Resp: 437258  
Ion Ratio Lower Upper  
91 100  
92 60.3 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 9.235 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 107 Resp: 197665  
Ion Ratio Lower Upper  
107 100  
109 97.8 78.2 117.4

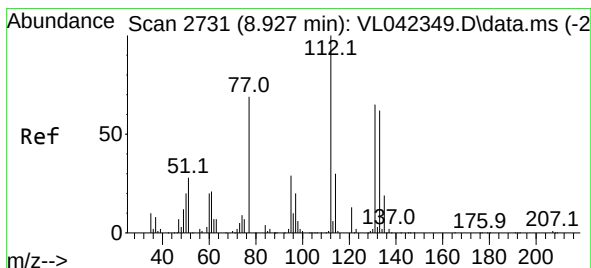
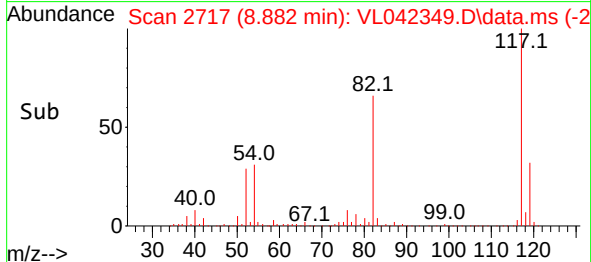
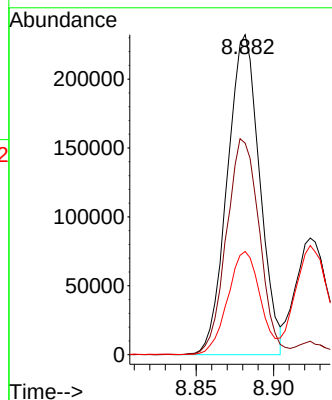
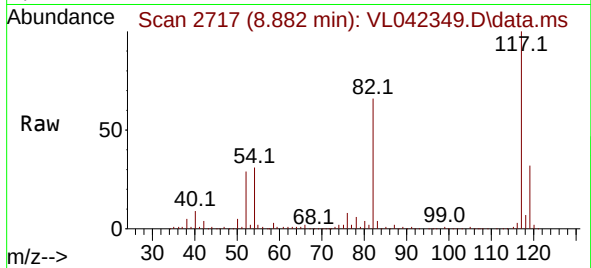




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

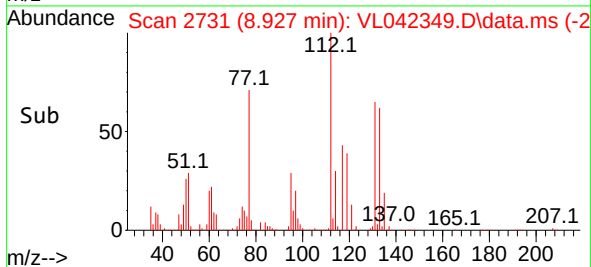
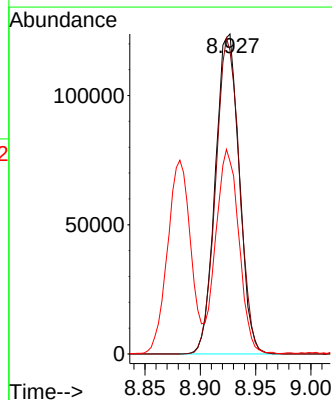
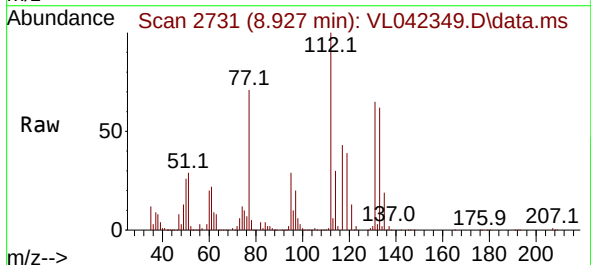
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

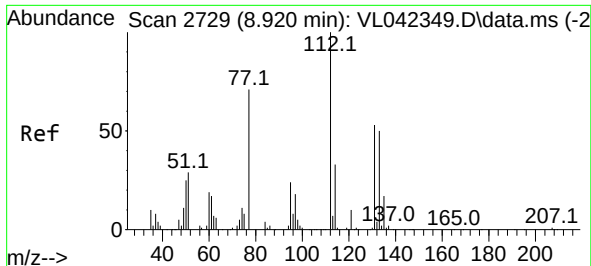
Tgt Ion:117 Resp: 338126  
Ion Ratio Lower Upper  
117 100  
82 72.2 57.8 86.6  
119 31.5 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.091 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041  
Ion Ratio Lower Upper  
131 100  
133 97.9 78.3 117.5  
119 60.9 48.7 73.1

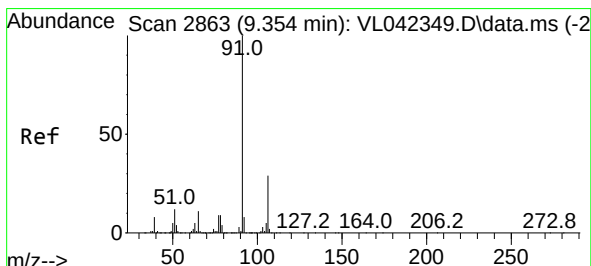
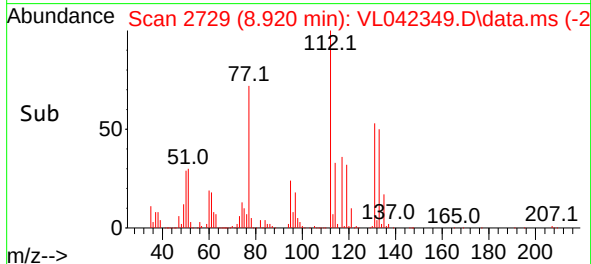
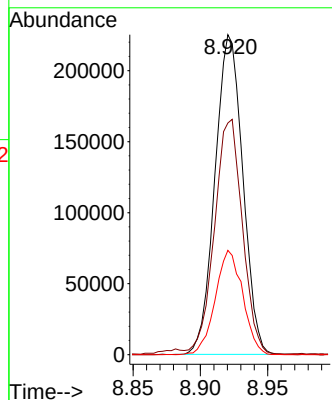
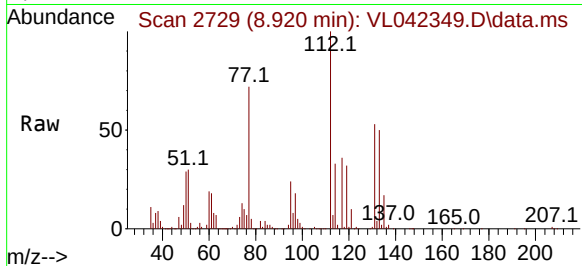




#57  
Chlorobenzene  
Concen: 9.187 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

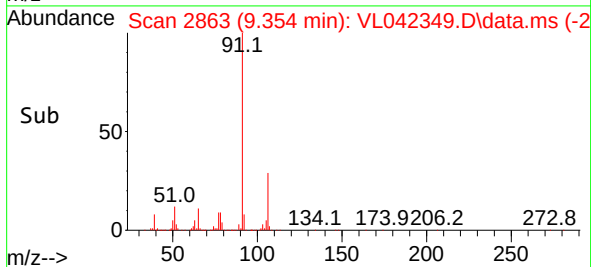
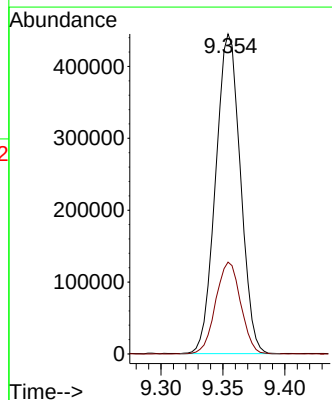
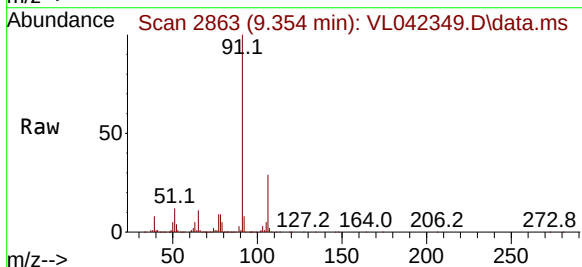
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

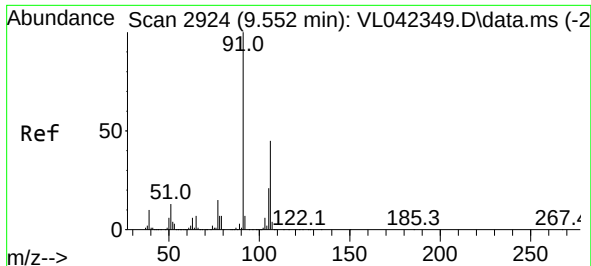
Tgt Ion:112 Resp: 323084  
Ion Ratio Lower Upper  
112 100  
77 72.2 57.8 86.6  
114 32.6 29.3 35.9



#58  
Ethyl Benzene  
Concen: 9.248 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581  
Ion Ratio Lower Upper  
91 100  
106 28.7 23.0 34.4





#59

m/p-Xylene

Concen: 8.299 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

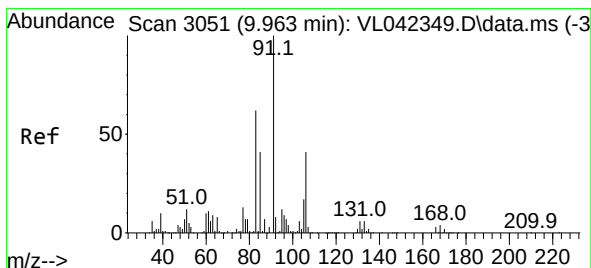
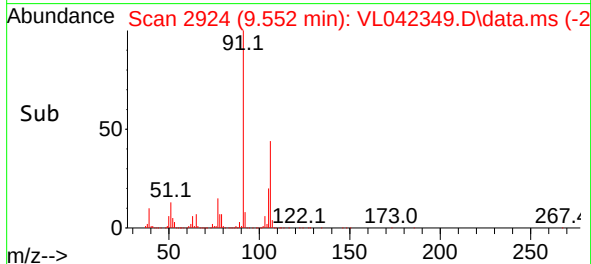
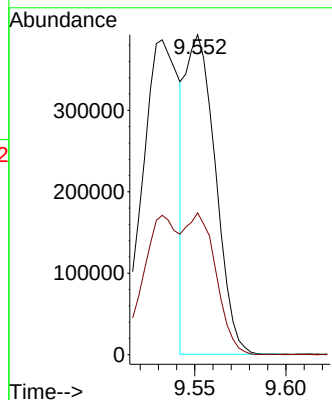
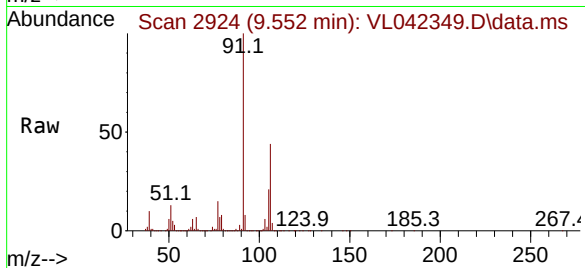
VSTDICCC010

Tgt Ion: 91 Resp: 449222

Ion Ratio Lower Upper

91 100

106 97.0 35.4 53.2#



#60

o-Xylene

Concen: 8.972 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042349.D

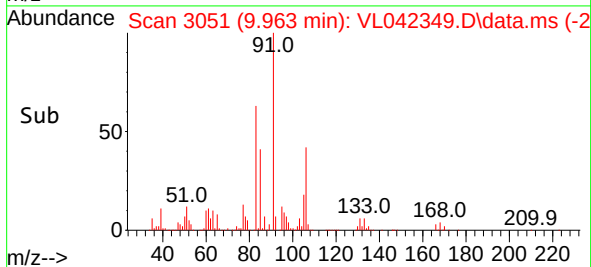
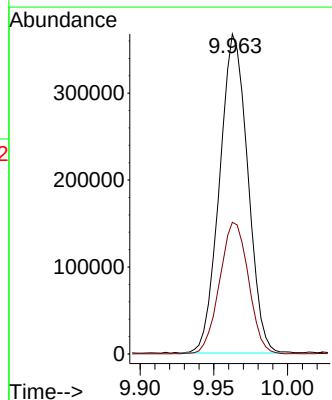
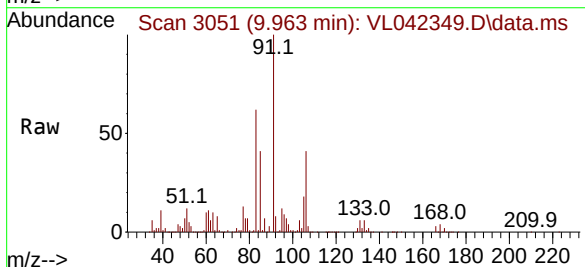
Acq: 17 Apr 2025 09:44

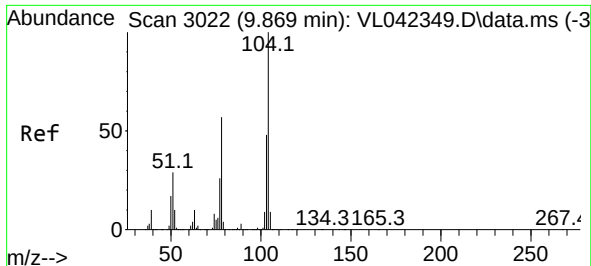
Tgt Ion: 91 Resp: 487616

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4





#61

Styrene

Concen: 9.464 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

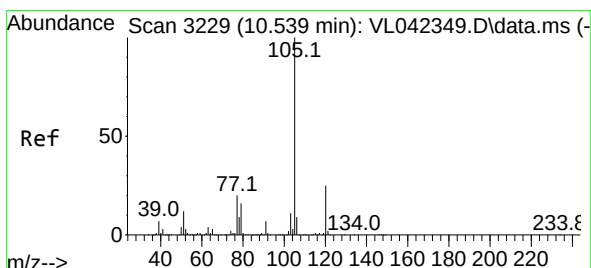
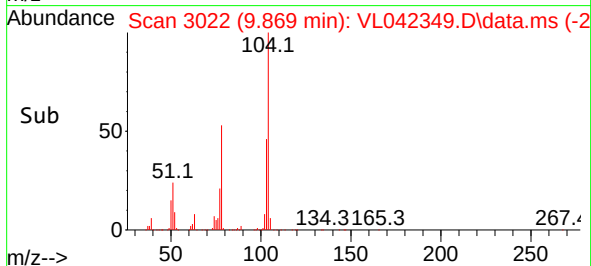
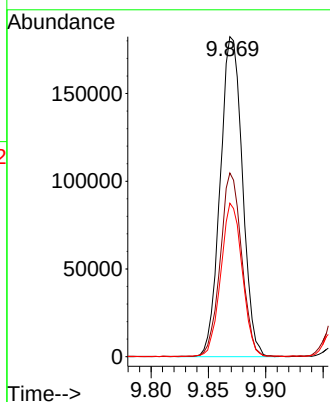
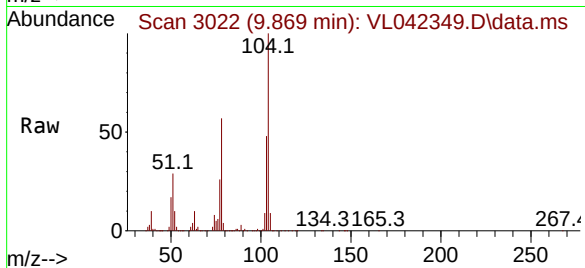
Tgt Ion:104 Resp: 245487

Ion Ratio Lower Upper

104 100

78 55.7 44.6 66.8

103 46.7 37.4 56.0



#62

Isopropylbenzene

Concen: 9.197 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042349.D

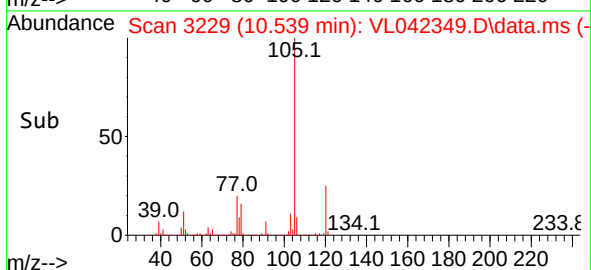
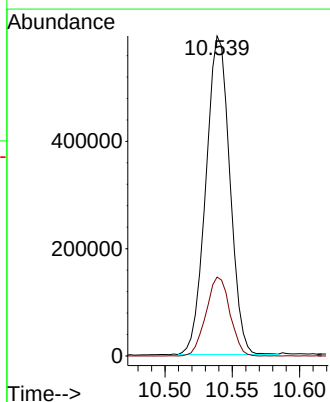
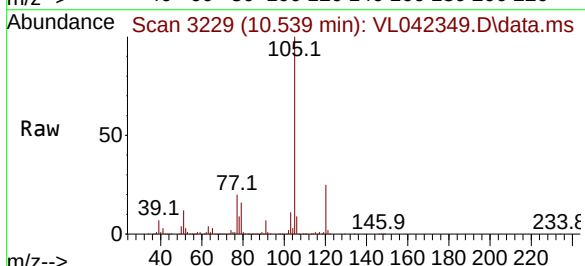
Acq: 17 Apr 2025 09:44

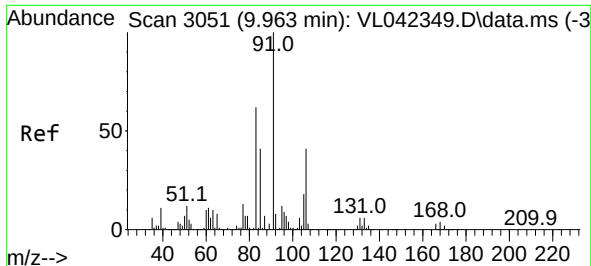
Tgt Ion:105 Resp: 733788

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

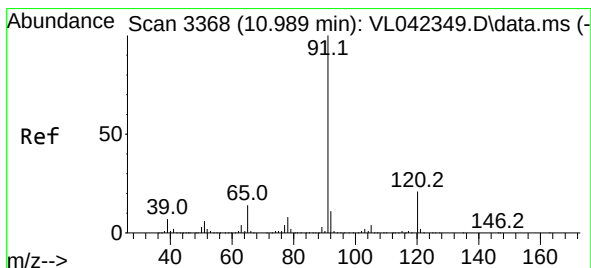
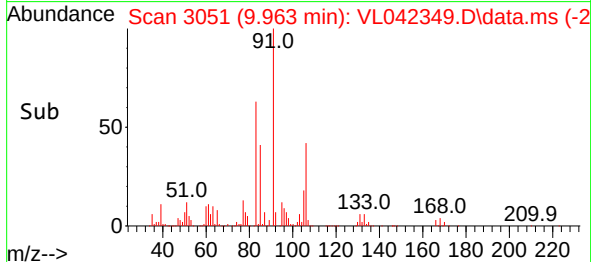
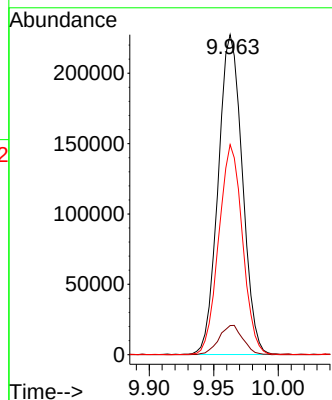
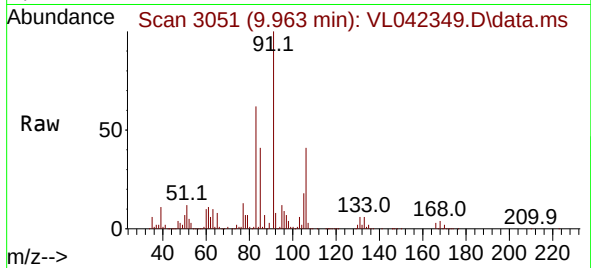




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.355 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

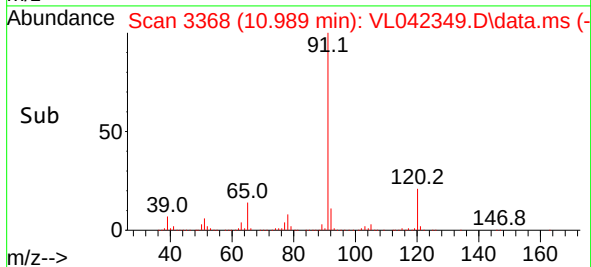
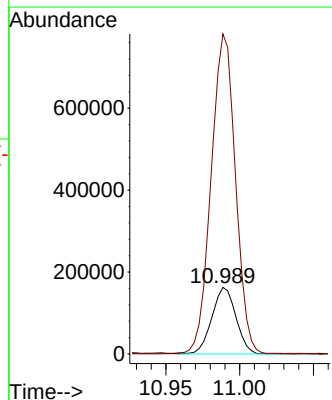
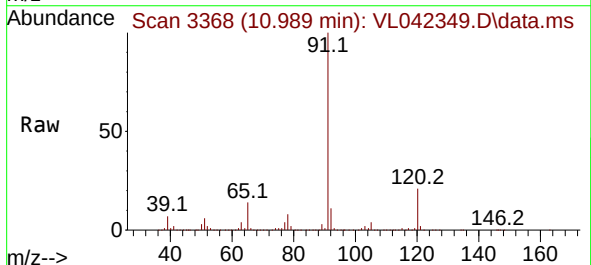
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

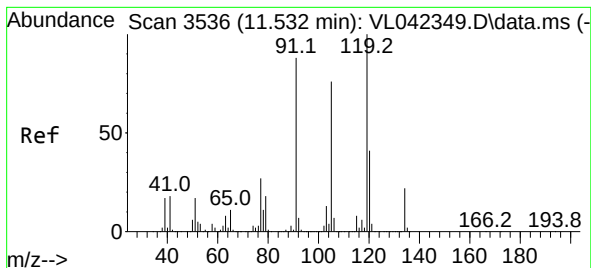
Tgt Ion: 83 Resp: 295041  
Ion Ratio Lower Upper  
83 100  
131 9.1 4.5 13.7  
85 64.7 32.4 97.0



#64  
n-propylbenzene  
Concen: 9.144 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 120 Resp: 183390  
Ion Ratio Lower Upper  
120 100  
91 490.5 392.4 588.6





#65

tert-Butylbenzene

Concen: 8.795 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

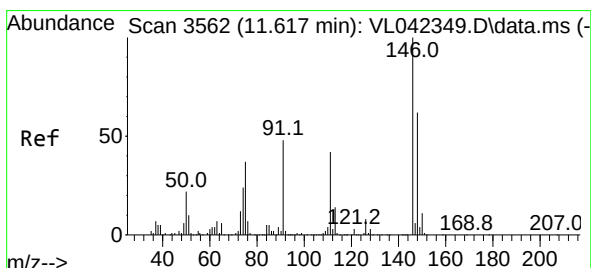
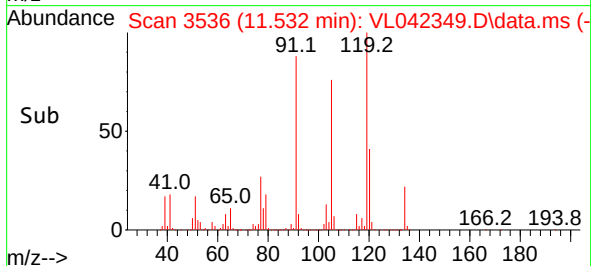
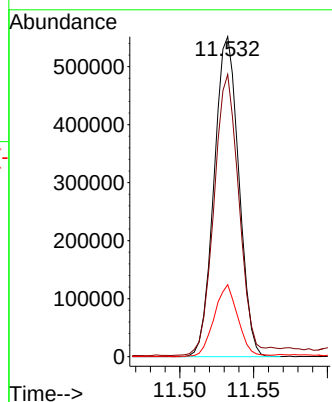
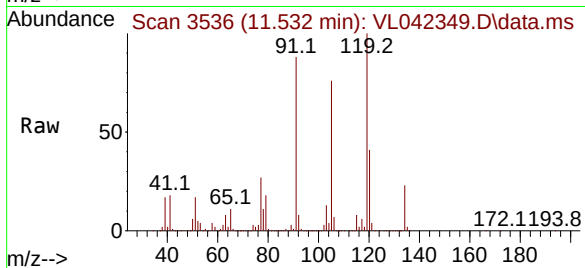
Tgt Ion:119 Resp: 644953

Ion Ratio Lower Upper

119 100

91 93.2 74.6 111.8

134 23.5 18.8 28.2



#66

Benzyl Chloride

Concen: 10.333 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

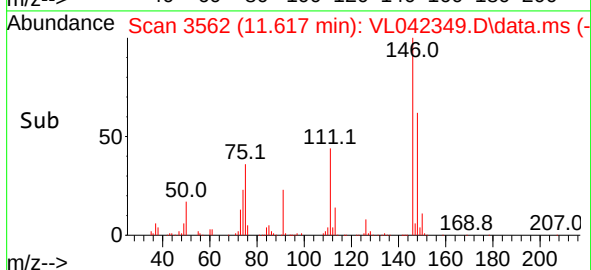
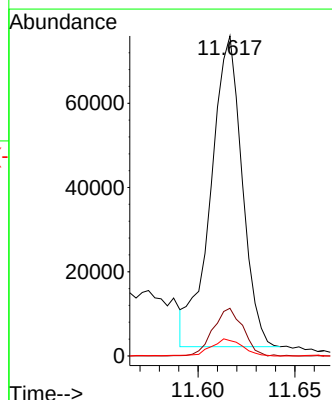
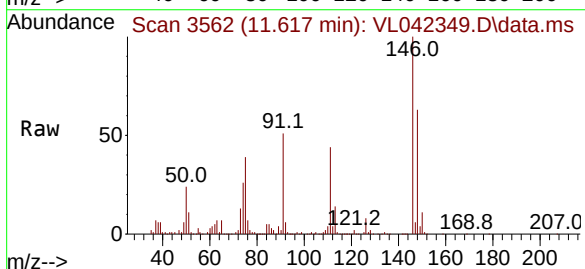
Tgt Ion: 91 Resp: 83269

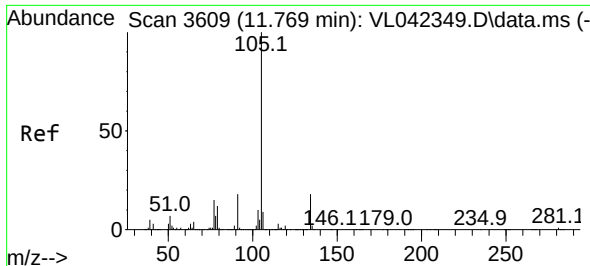
Ion Ratio Lower Upper

91 100

126 14.7 11.8 17.6

128 5.6 4.5 6.7

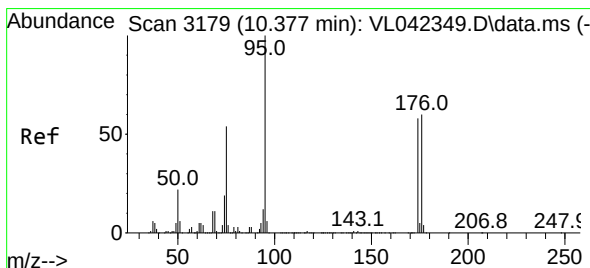
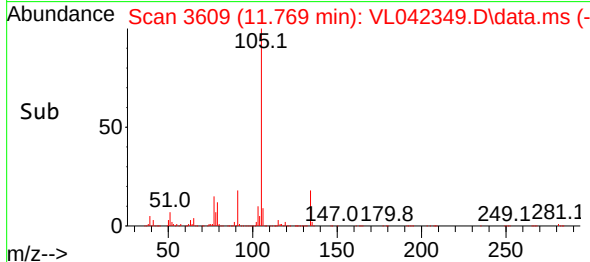
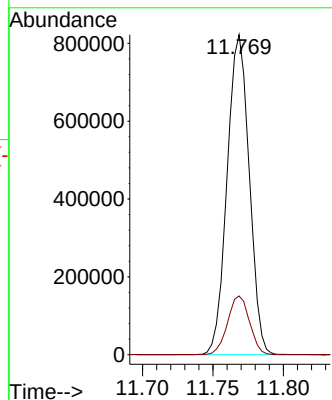
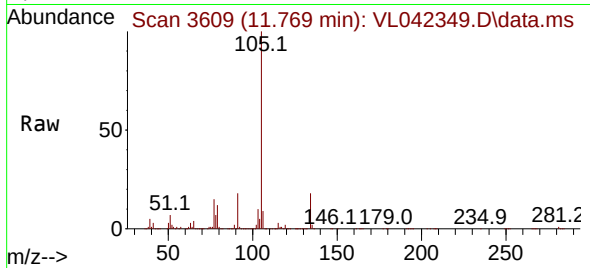




#67  
 sec-Butylbenzene  
 Concen: 8.824 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

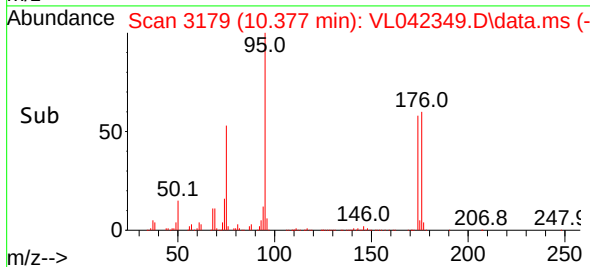
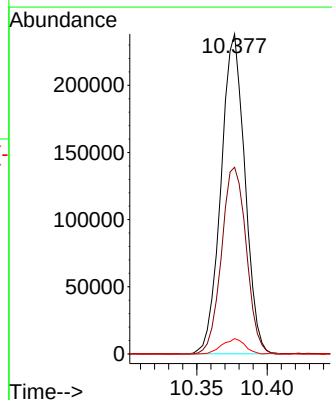
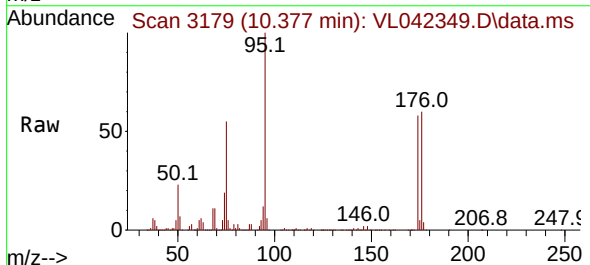
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:105 Resp: 900074  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 14.6 21.8

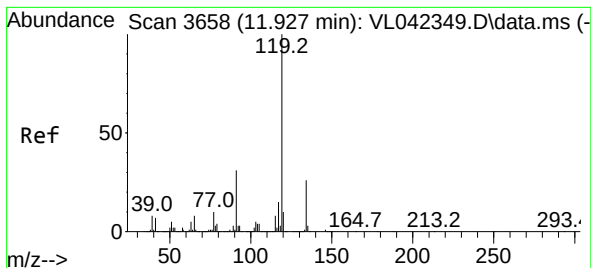


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.114 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013  
 Ion Ratio Lower Upper  
 95 100  
 174 60.6 48.5 72.7  
 175 4.6 3.7 5.5







#69

p-Isopropyltoluene

Concen: 8.790 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

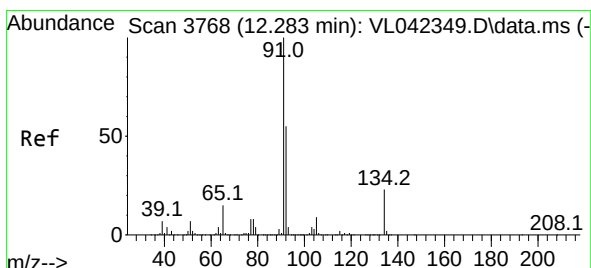
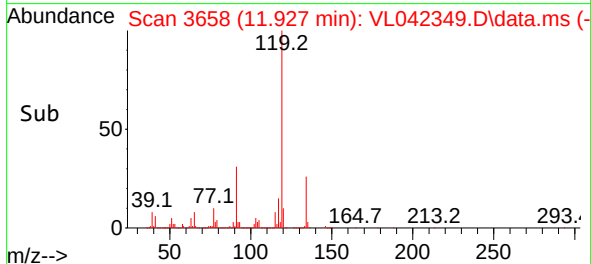
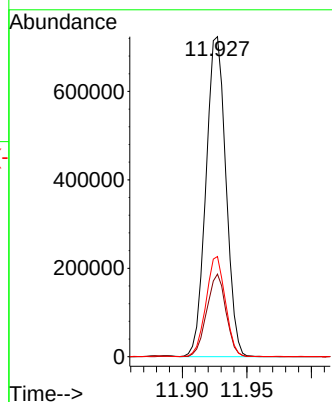
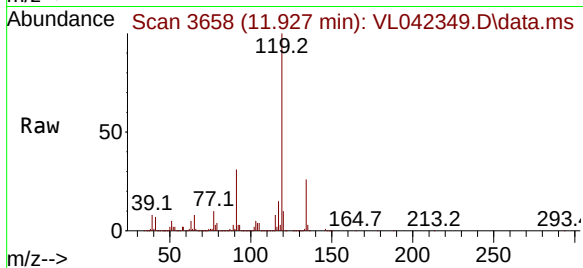
Tgt Ion:119 Resp: 778987

Ion Ratio Lower Upper

119 100

134 25.0 20.0 30.0

91 30.5 24.4 36.6



#70

n-Butylbenzene

Concen: 8.682 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

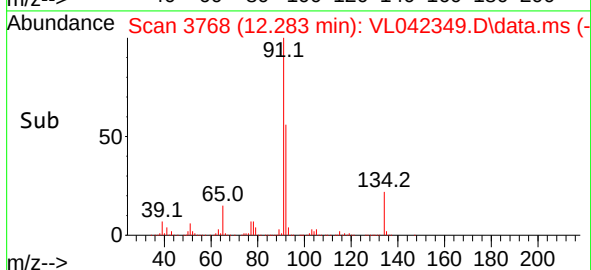
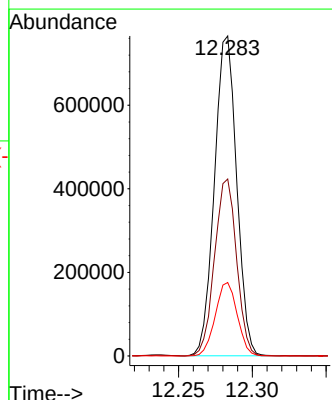
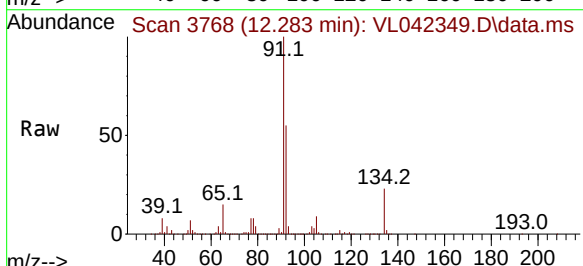
Tgt Ion: 91 Resp: 801364

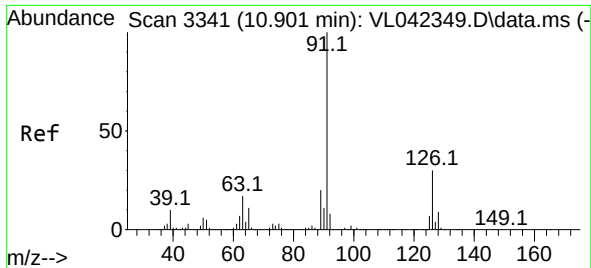
Ion Ratio Lower Upper

91 100

92 55.3 44.2 66.4

134 22.8 18.2 27.4

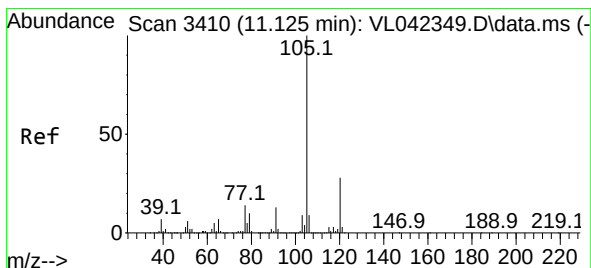
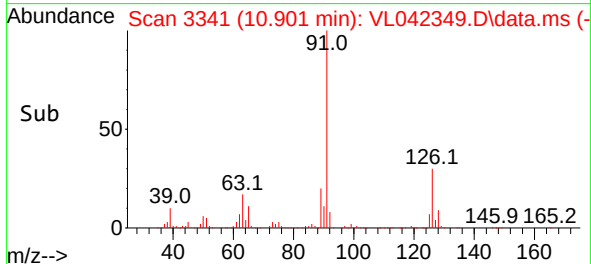
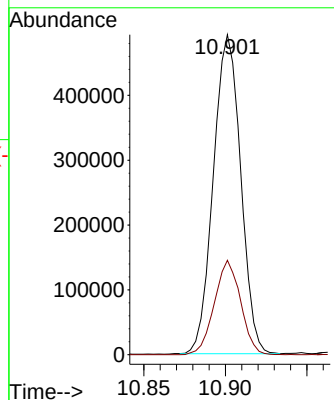
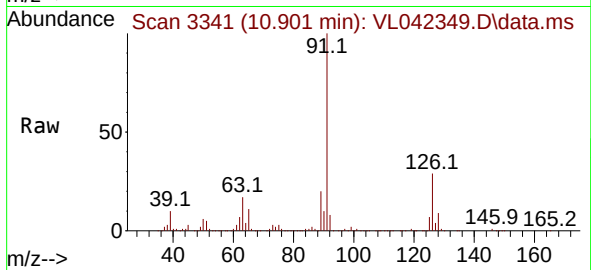




#71  
2-Chlorotoluene  
Concen: 9.157 ppbv  
RT: 10.901 min Scan# 3341  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

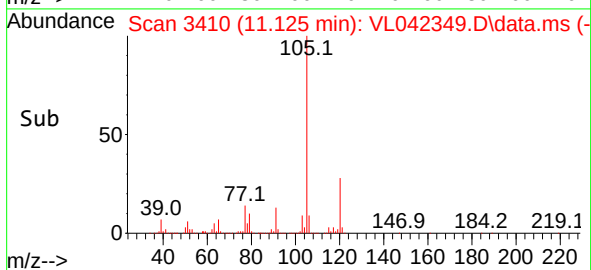
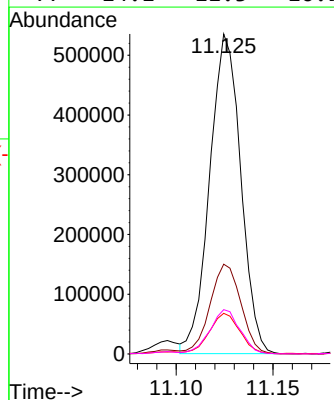
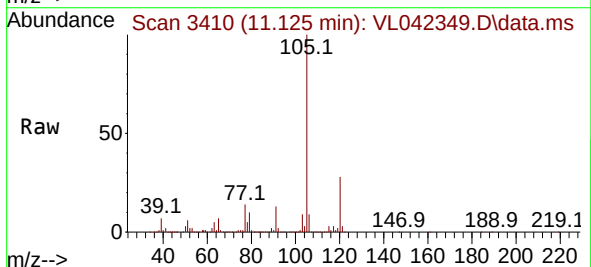
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

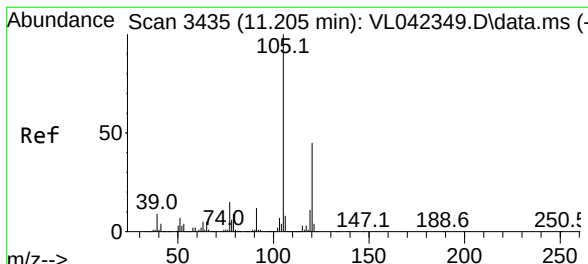
Tgt Ion: 91 Resp: 573039  
Ion Ratio Lower Upper  
91 100  
126 28.4 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 8.982 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion: 105 Resp: 596757  
Ion Ratio Lower Upper  
105 100  
120 29.0 23.2 34.8  
91 13.0 10.4 15.6  
77 14.1 11.3 16.9



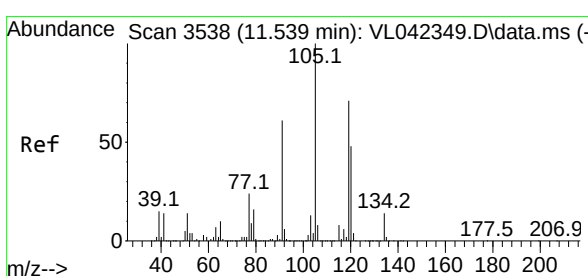
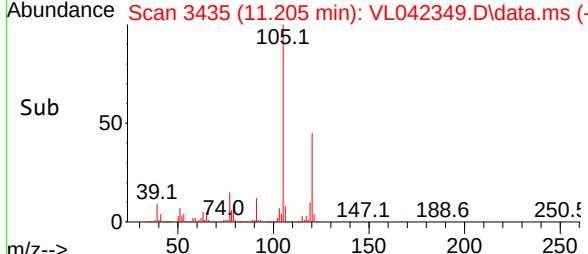
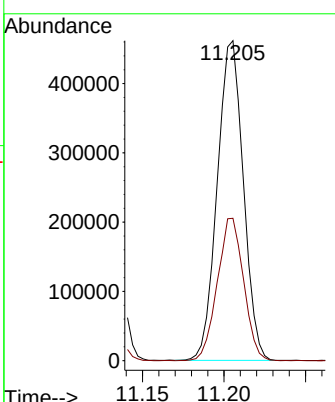
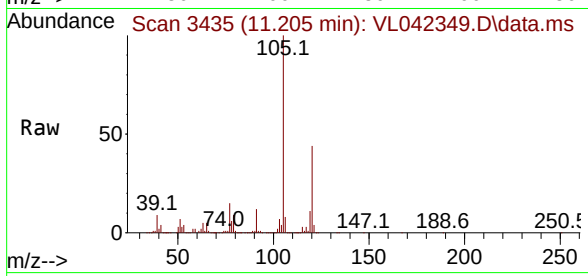


#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.743 ppbv  
 RT: 11.205 min Scan# 3435  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:105 Resp: 512855

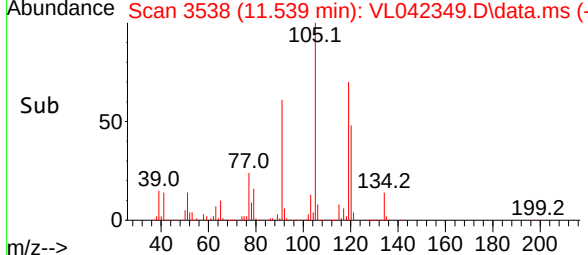
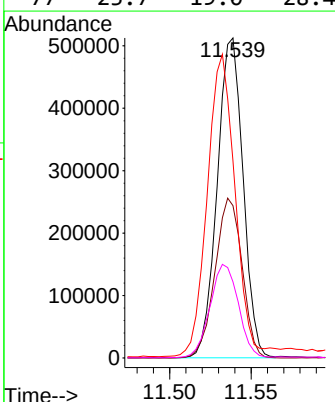
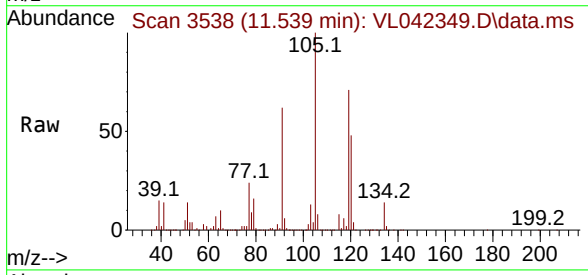
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 44.5  | 35.6  | 53.4  |

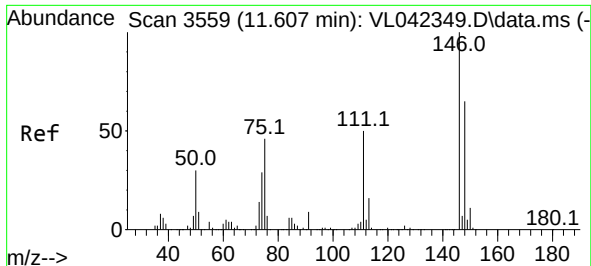


#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.248 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. 0.000 min  
 Lab File: VL042349.D  
 Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 47.6  | 38.1  | 57.1  |
| 91  | 61.0  | 48.8  | 73.2  |
| 77  | 23.7  | 19.0  | 28.4  |

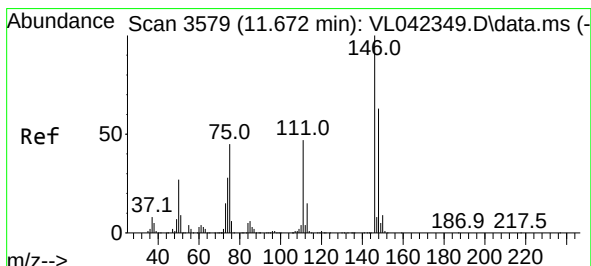
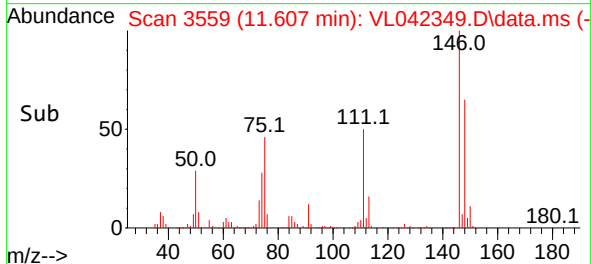
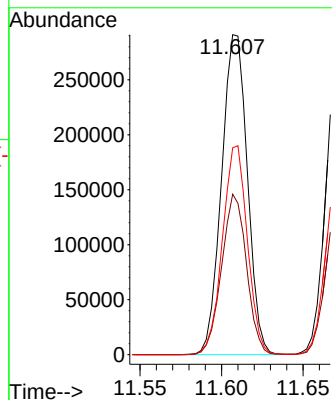
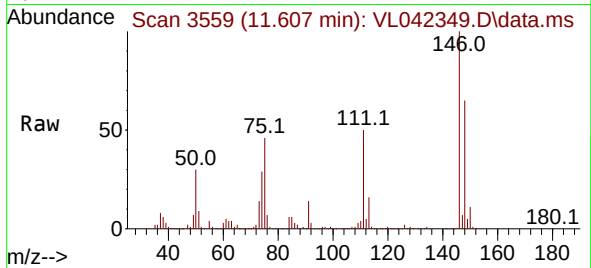




#75  
1,3-Dichlorobenzene  
Concen: 8.997 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

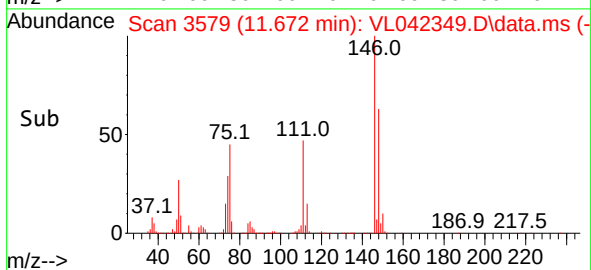
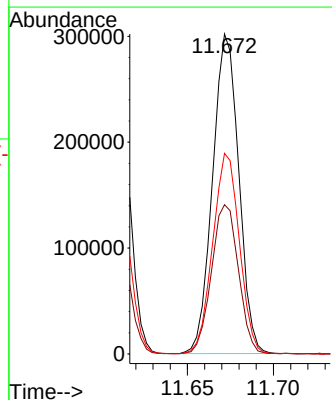
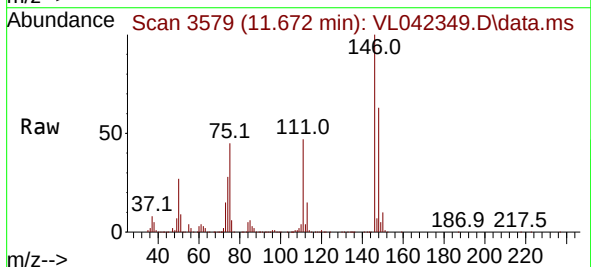
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

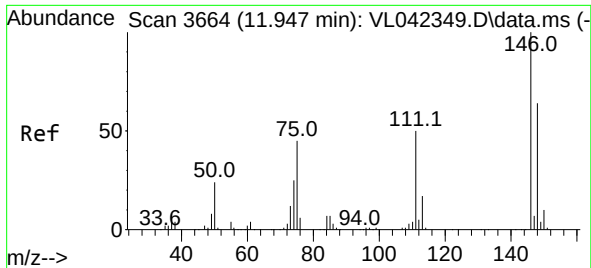
Tgt Ion:146 Resp: 320380  
Ion Ratio Lower Upper  
146 100  
111 48.5 24.3 72.8  
148 63.2 31.6 94.8



#76  
1,4-Dichlorobenzene  
Concen: 8.915 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 319089  
Ion Ratio Lower Upper  
146 100  
111 48.4 24.2 72.6  
148 64.3 32.1 96.5

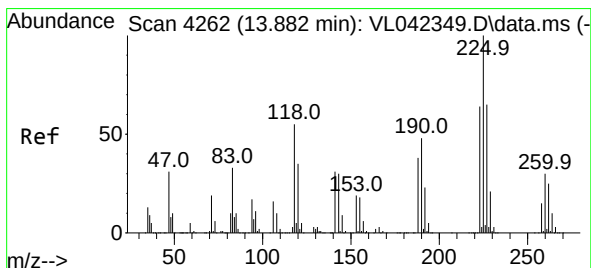
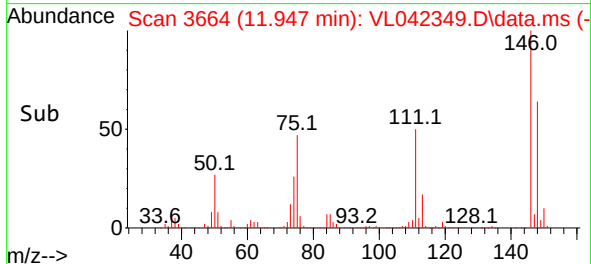
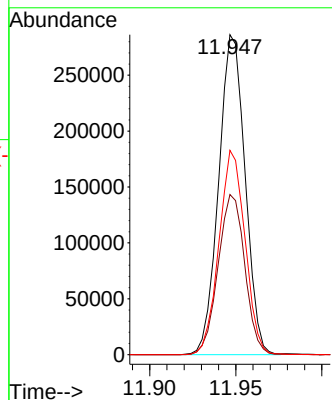
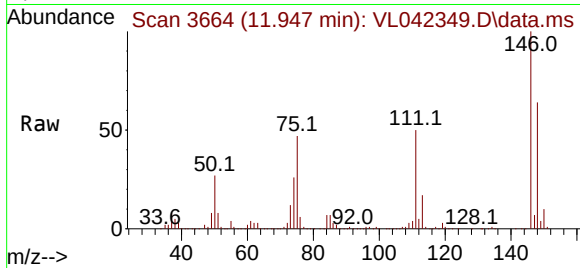




#77  
1,2-Dichlorobenzene  
Concen: 8.832 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

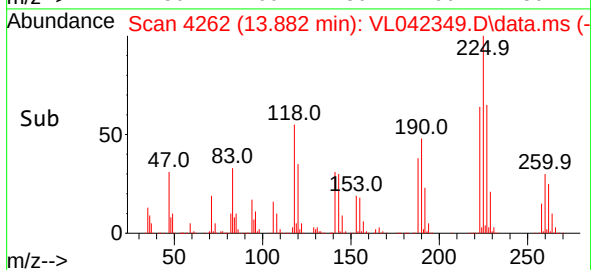
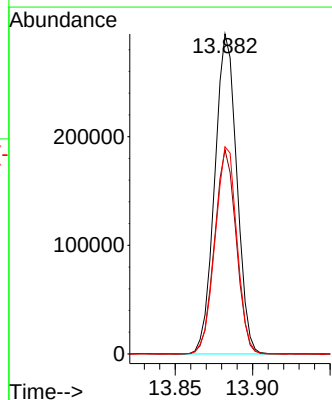
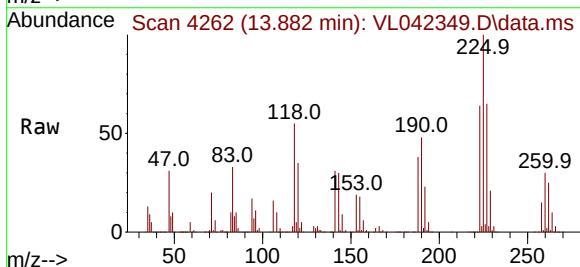
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

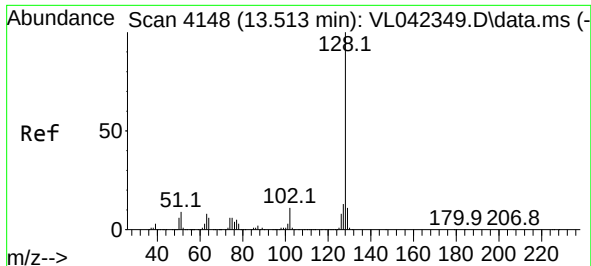
Tgt Ion:146 Resp: 305822  
Ion Ratio Lower Upper  
146 100  
111 50.6 25.3 75.9  
148 63.0 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.346 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833  
Ion Ratio Lower Upper  
225 100  
223 62.9 50.3 75.5  
227 64.4 51.5 77.3

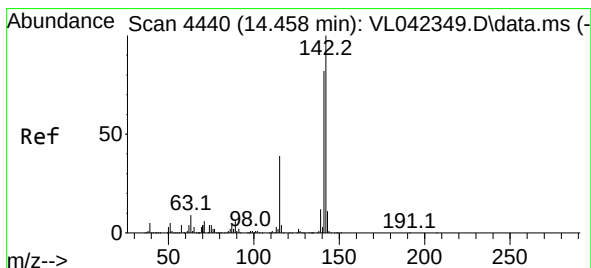
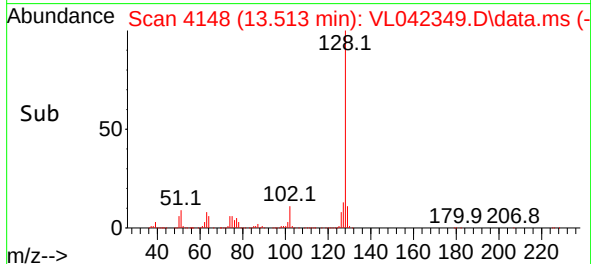
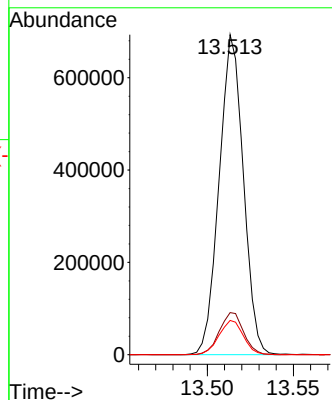
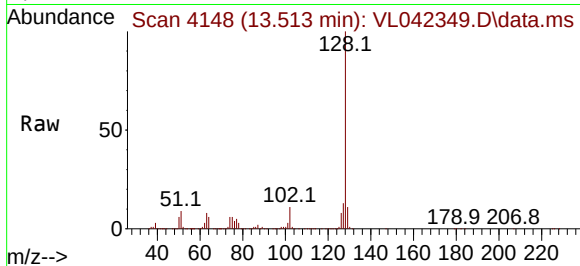




#79  
Naphthalene  
Concen: 8.271 ppbv  
RT: 13.513 min Scan# 4148  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

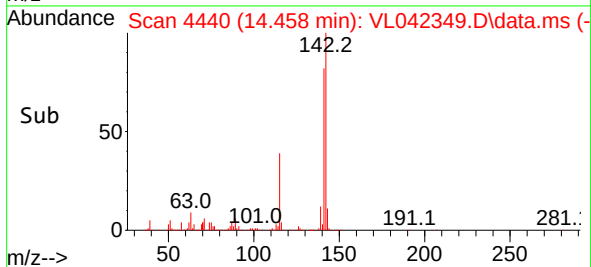
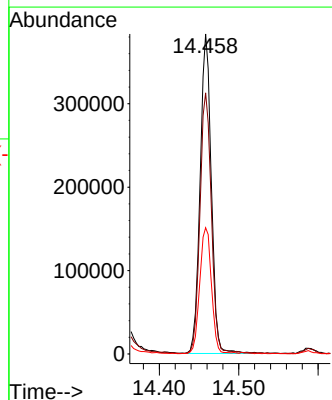
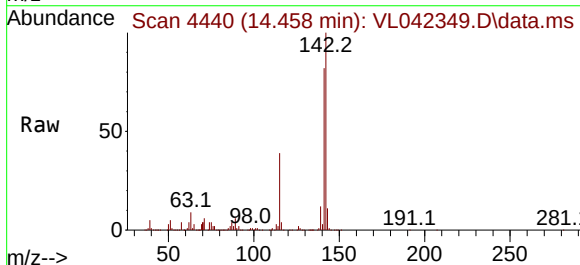
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

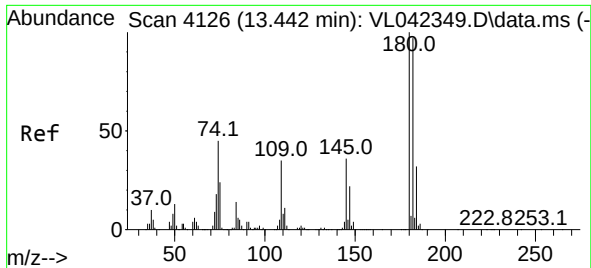
Tgt Ion:128 Resp: 677578  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 10.7 8.6 12.8



#80  
Naphthalene,2-methyl-  
Concen: 8.074 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. 0.000 min  
Lab File: VL042349.D  
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995  
Ion Ratio Lower Upper  
142 100  
141 83.5 66.8 100.2  
115 41.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.702 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

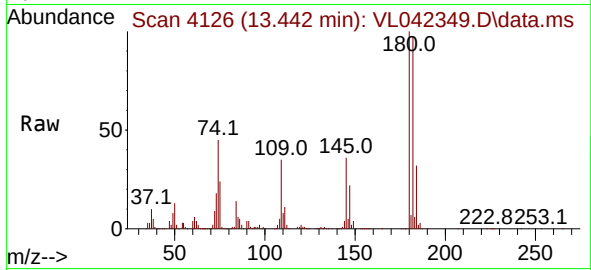
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010



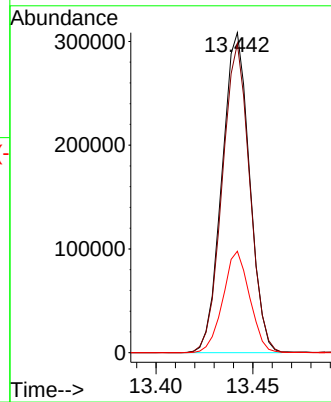
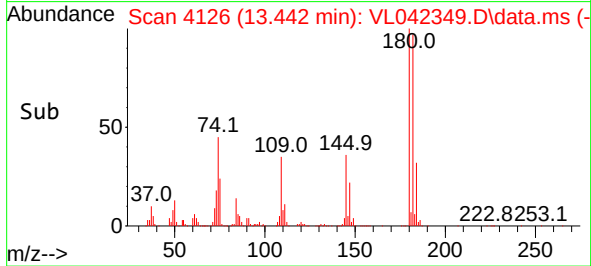
Tgt Ion:180 Resp: 306119

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

184 30.7 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042350.D  
 Acq On : 17 Apr 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 123206   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 355918   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 335603   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 275715   | 9.998    | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.000% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 45008  | 2.068 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 41853  | 2.019 | ppbv   | 97     |
| 4) Chloromethane              | 1.534 | 50  | 17272  | 2.005 | ppbv   | 93     |
| 5) Vinyl Chloride             | 1.580 | 62  | 16979  | 1.811 | ppbv   | 92     |
| 6) Bromomethane               | 1.667 | 94  | 7398   | 1.821 | ppbv # | 80     |
| 7) Chloroethane               | 1.706 | 64  | 6889   | 2.031 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 38955  | 2.084 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 18671  | 1.978 | ppbv   | 97     |
| 10) Heptane                   | 4.978 | 43  | 34658  | 1.364 | ppbv # | 62     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 43035  | 2.079 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 35415  | 2.092 | ppbv   | 100    |
| 13) Ethanol                   | 1.722 | 45  | 1417   | 1.837 | ppbv   | 59     |
| 14) Bromoethene               | 1.780 | 108 | 13049  | 2.045 | ppbv # | 92     |
| 15) Acetone                   | 1.835 | 43  | 42949  | 2.129 | ppbv   | 93     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 18110  | 1.912 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 51829  | 2.074 | ppbv # | 94     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 15690  | 1.928 | ppbv   | 87     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 22106  | 1.973 | ppbv # | 38     |
| 20) Methylene Chloride        | 2.062 | 84  | 14329  | 1.814 | ppbv # | 82     |
| 21) Allyl Chloride            | 2.098 | 41  | 27340  | 1.963 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 18142  | 2.015 | ppbv   | 97     |
| 23) Vinyl Acetate             | 2.463 | 43  | 18454  | 2.260 | ppbv # | 91     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 34077  | 1.993 | ppbv   | 96     |
| 25) Ethyl Acetate             | 2.835 | 43  | 101467 | 2.040 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 40046  | 1.990 | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.149 | 76  | 43975  | 2.041 | ppbv # | 64     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 27905  | 2.116 | ppbv   | 97     |
| 29) Chloroform                | 2.848 | 83  | 58946  | 2.072 | ppbv   | 100    |
| 30) Cyclohexane               | 3.858 | 84  | 33195  | 2.048 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 39249  | 2.051 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 61442  | 2.014 | ppbv   | 99     |
| 34) 2-Butanone                | 2.560 | 43  | 58249  | 2.069 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 60291  | 1.872 | ppbv   | 88     |
| 36) Benzene                   | 3.658 | 78  | 79814  | 2.079 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 47398  | 2.057 | ppbv   | 100    |
| 38) Trichloroethene           | 4.544 | 130 | 16602  | 0.986 | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 28806  | 2.012 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.593 | 88  | 16026  | 2.067 | ppbv # | 81     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 33298  | 2.047 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.489 | 83  | 64941  | 2.025 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 35256  | 2.046 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 139641 | 2.103 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 36265  | 2.050 | ppbv   | 94     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042350.D  
 Acq On : 17 Apr 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

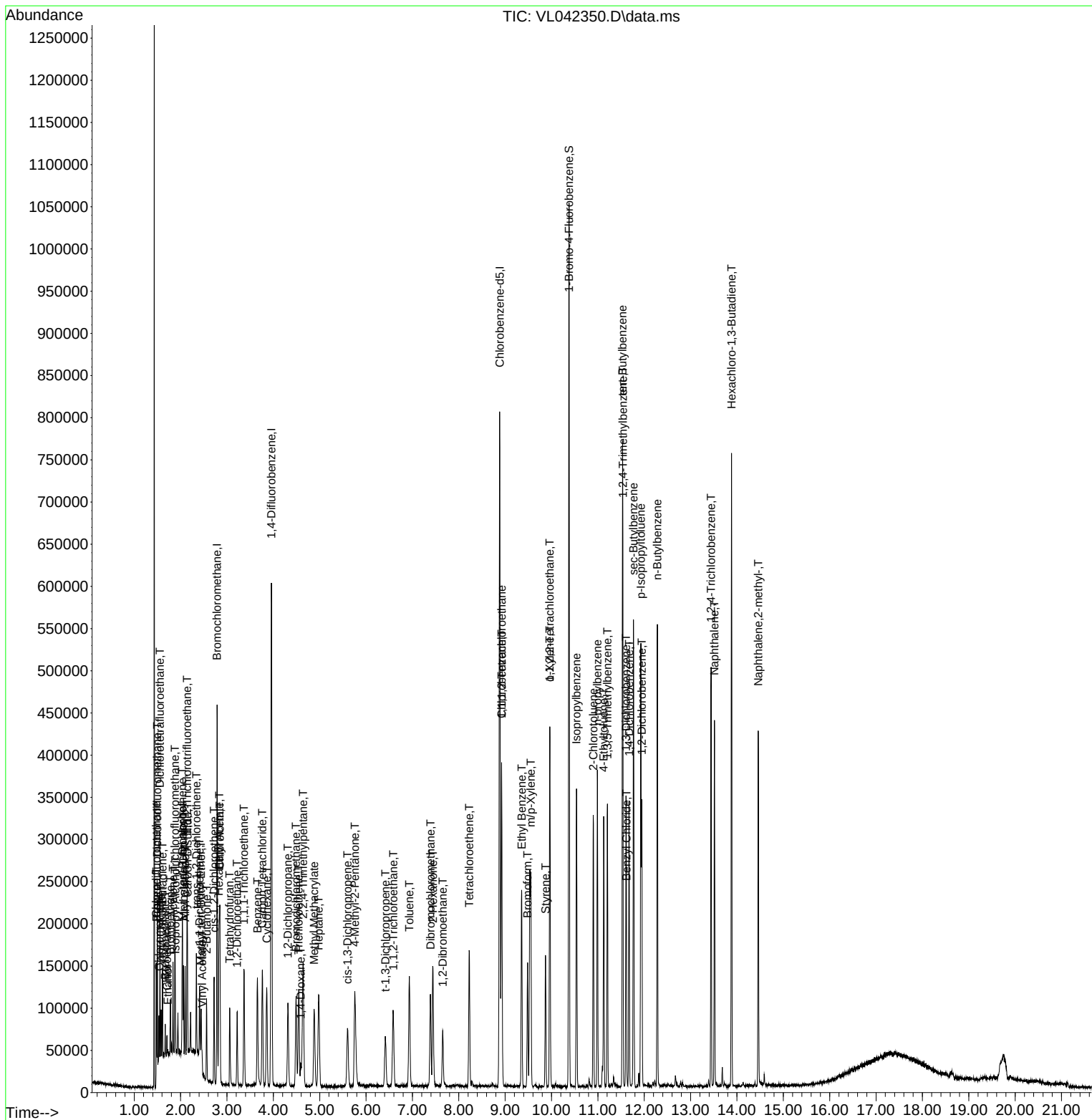
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

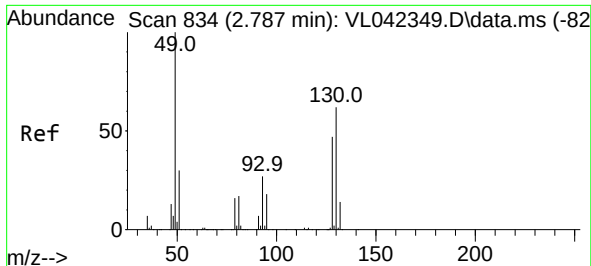
Quant Time: Apr 18 01:26:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 25569    | 1.183 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 29879    | 2.049 | ppbv   | 88       |
| 48) Dibromochloromethane      | 7.389  | 129  | 53069    | 2.061 | ppbv   | 100      |
| 49) Bromoform                 | 9.483  | 173  | 48069    | 2.135 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 102182   | 2.180 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.441  | 43   | 100443   | 2.375 | ppbv   | 98       |
| 52) Tetrachloroethene         | 8.228  | 164  | 27854    | 1.877 | ppbv   | 96       |
| 53) Toluene                   | 6.933  | 91   | 97493    | 2.116 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 43153    | 2.076 | ppbv   | 87       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 42601    | 2.097 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.924  | 112  | 71685    | 2.054 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 138810   | 2.088 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.551  | 91   | 103886   | 1.934 | ppbv # | 32       |
| 60) o-Xylene                  | 9.963  | 91   | 111972   | 2.076 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 54229    | 2.106 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 163716   | 2.067 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 64952    | 1.853 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 40956    | 2.058 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 155401   | 2.135 | ppbv   | 92       |
| 66) Benzyl Chloride           | 11.616 | 91   | 17300    | 2.163 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 218327   | 2.156 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 188657   | 2.145 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 198221   | 2.164 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 128858   | 2.075 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 137872   | 2.091 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 123580   | 2.123 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 145510   | 2.140 | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 75082    | 2.124 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 75323    | 2.120 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 74786    | 2.176 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 76158    | 2.194 | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 195233   | 2.401 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 119262   | 2.574 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 82156    | 2.353 | ppbv   | 99       |

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

Quant Time: Apr 18 01:26:23 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration

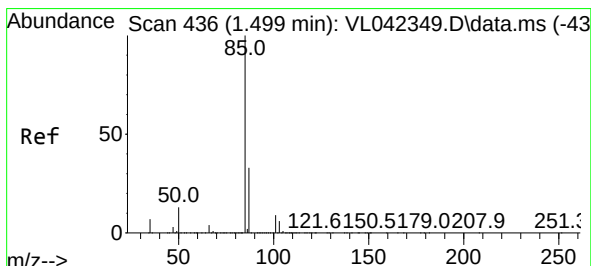
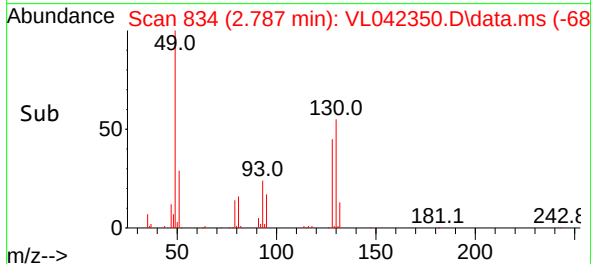
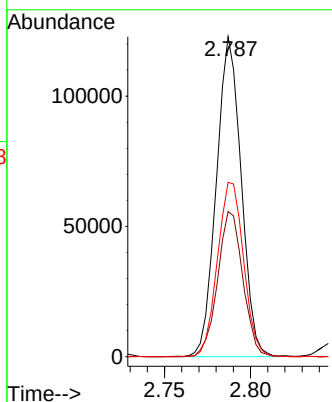
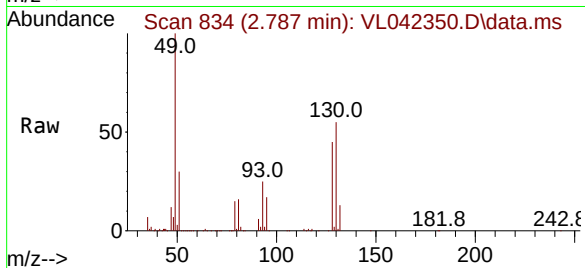




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 834  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

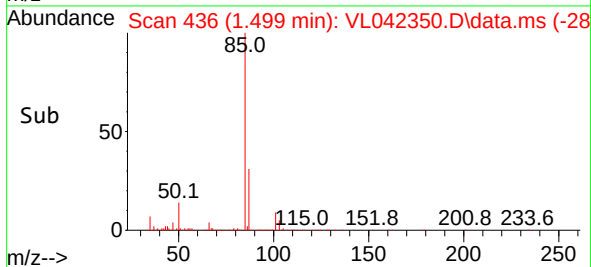
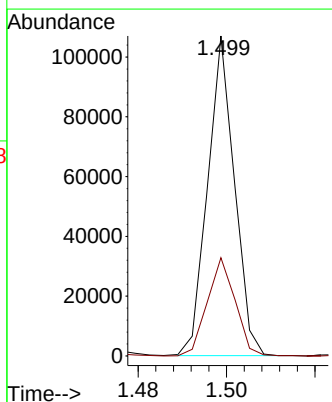
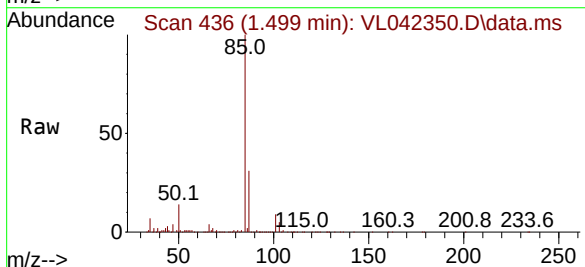
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

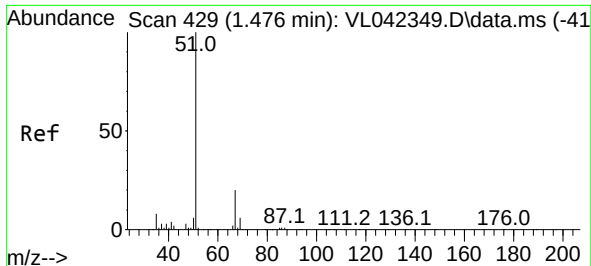
Tgt Ion: 49 Resp: 123206  
Ion Ratio Lower Upper  
49 100  
128 46.2 22.8 68.4  
130 57.3 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 2.068 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008  
Ion Ratio Lower Upper  
85 100  
87 30.6 26.6 39.8

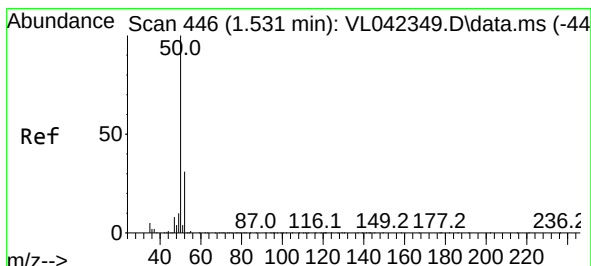
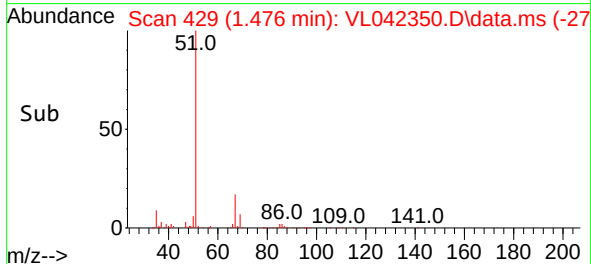
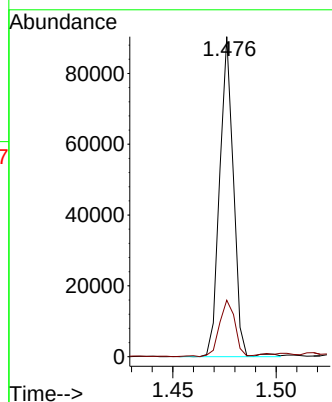
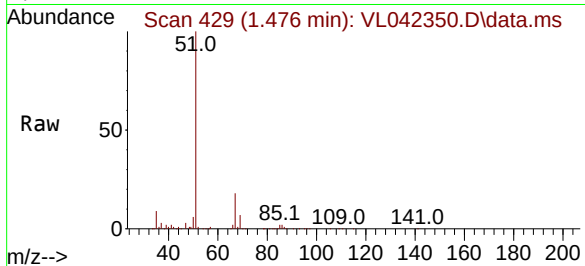




#3  
Chlorodifluoromethane  
Concen: 2.019 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

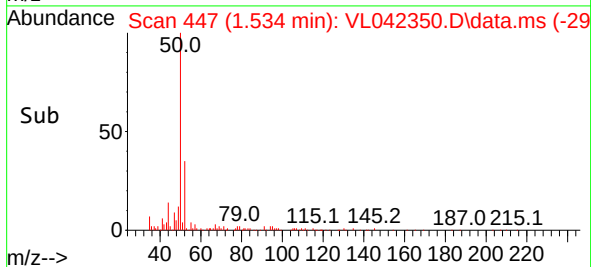
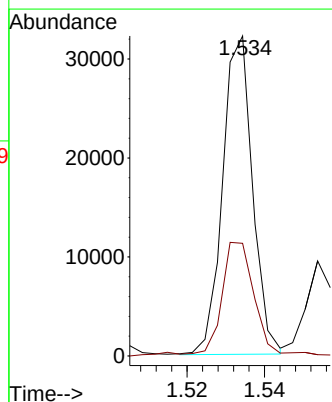
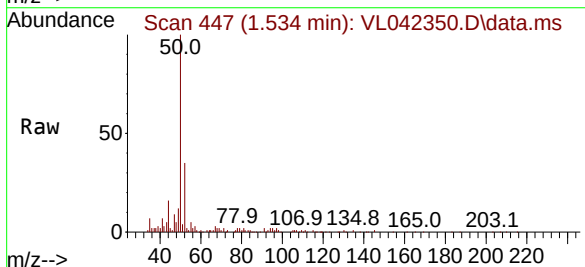
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

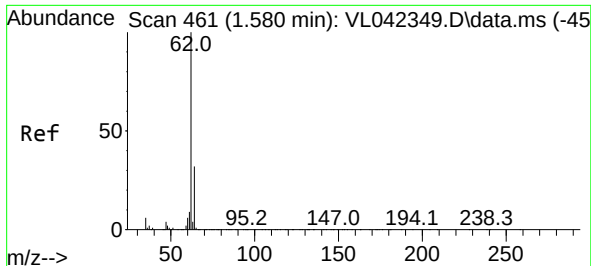
Tgt Ion: 51 Resp: 41853  
Ion Ratio Lower Upper  
51 100  
67 21.7 16.2 24.4



#4  
Chloromethane  
Concen: 2.005 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272  
Ion Ratio Lower Upper  
50 100  
52 34.9 24.7 37.1

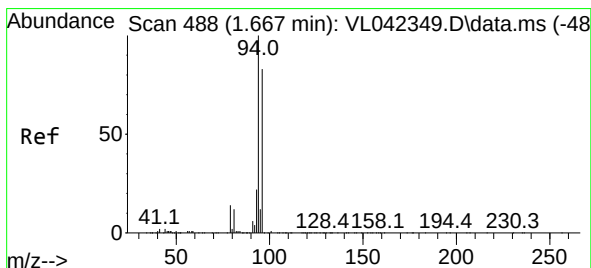
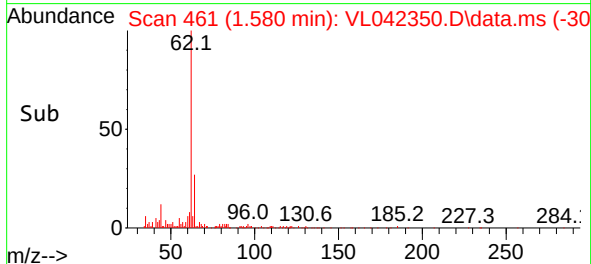
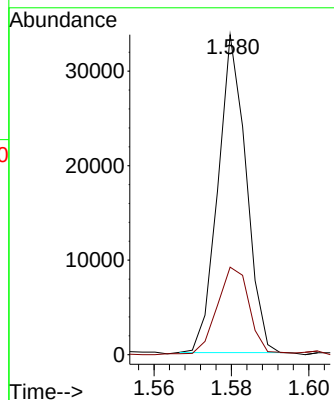
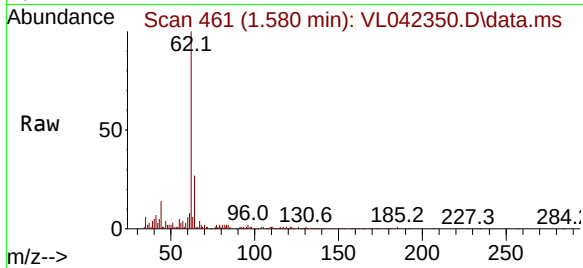




#5  
 Vinyl Chloride  
 Concen: 1.811 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

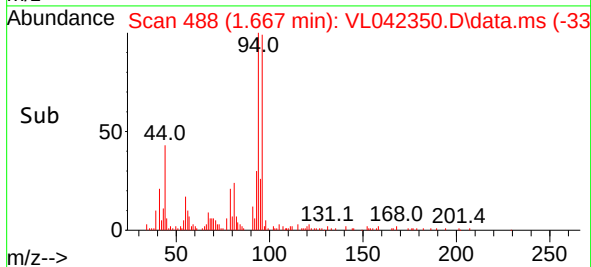
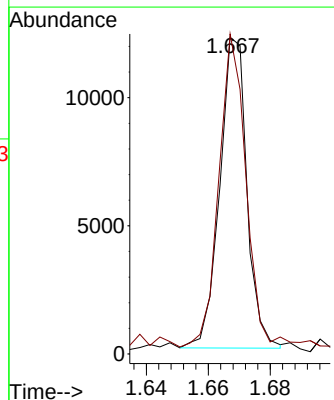
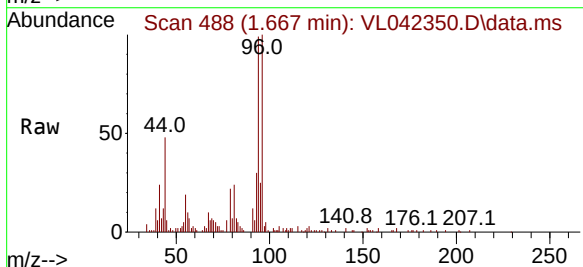
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

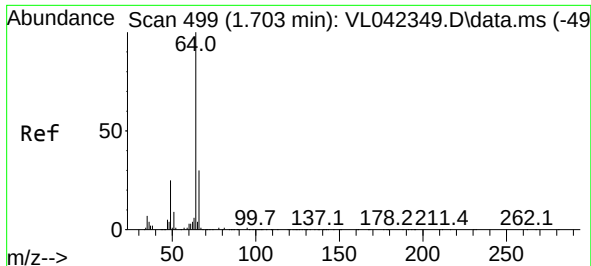
Tgt Ion: 62 Resp: 16979  
 Ion Ratio Lower Upper  
 62 100  
 64 27.2 25.4 38.0



#6  
 Bromomethane  
 Concen: 1.821 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398  
 Ion Ratio Lower Upper  
 94 100  
 96 100.8 66.2 99.2#

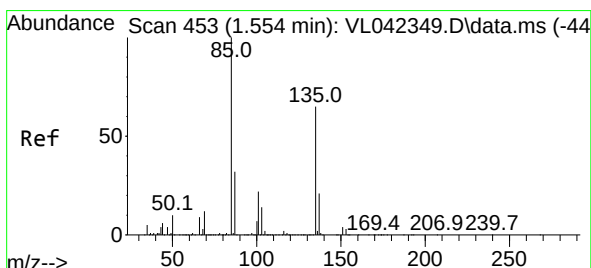
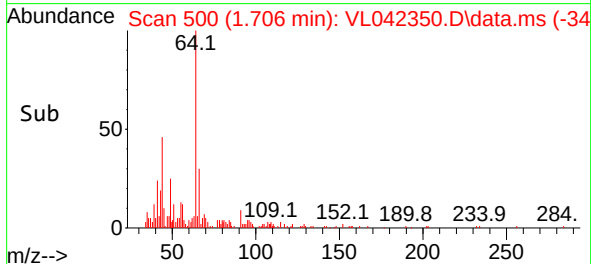
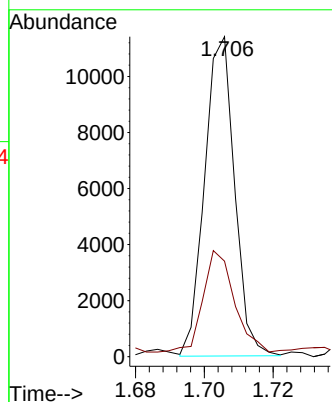
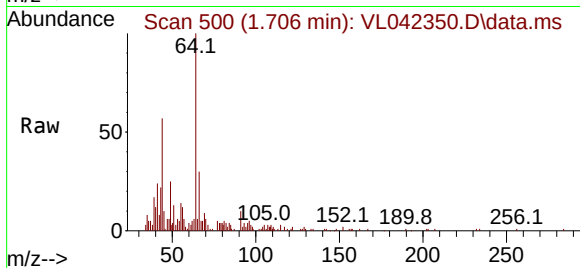




#7  
Chloroethane  
Concen: 2.031 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

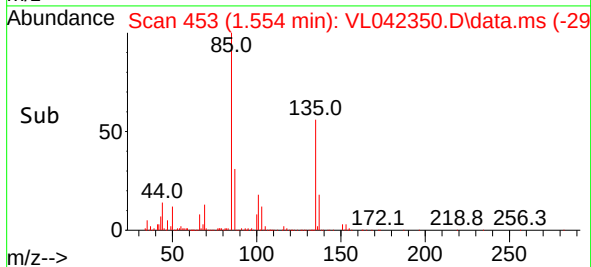
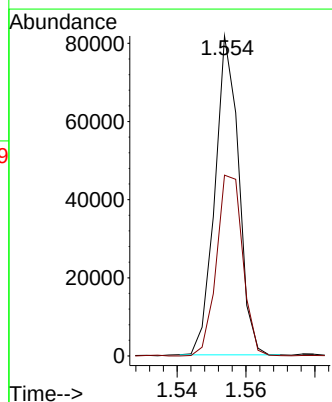
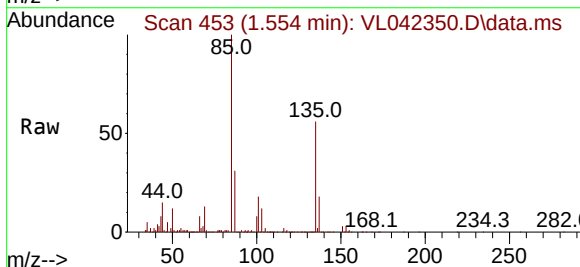
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

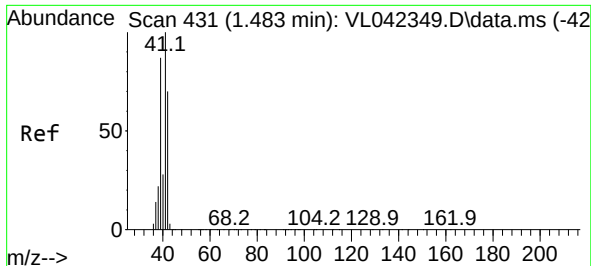
Tgt Ion: 64 Resp: 6889  
Ion Ratio Lower Upper  
64 100  
66 29.8 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 2.084 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955  
Ion Ratio Lower Upper  
85 100  
135 63.3 52.2 78.2





#9

Propene

Concen: 1.978 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

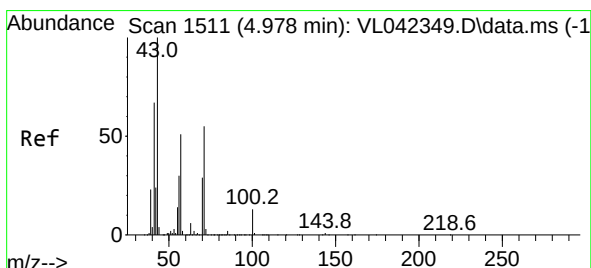
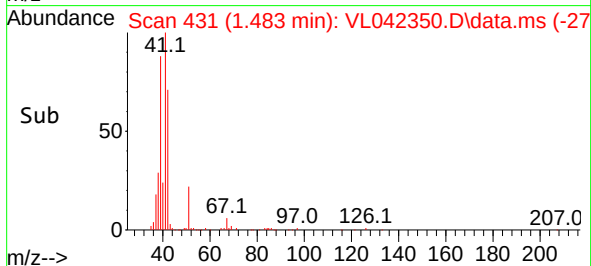
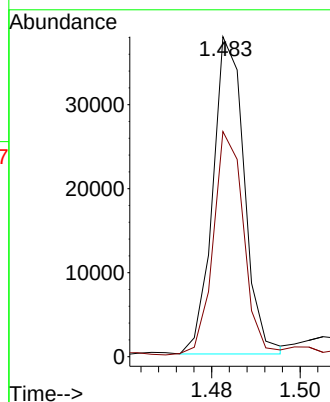
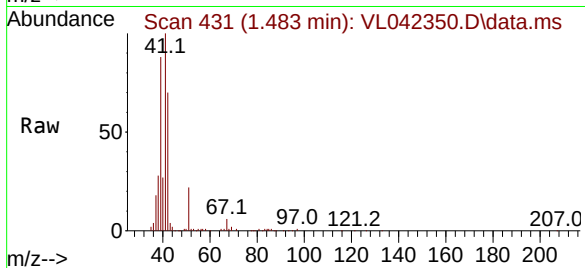
VSTDIC002

Tgt Ion: 41 Resp: 18671

Ion Ratio Lower Upper

41 100

42 72.7 56.2 84.4



#10

Heptane

Concen: 1.364 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042350.D

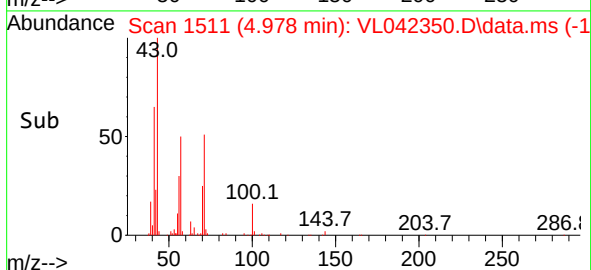
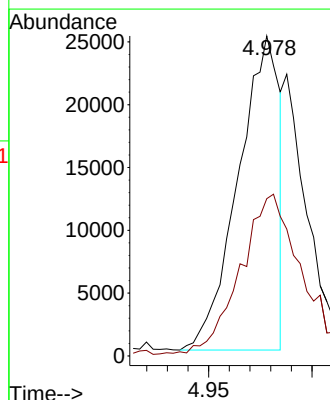
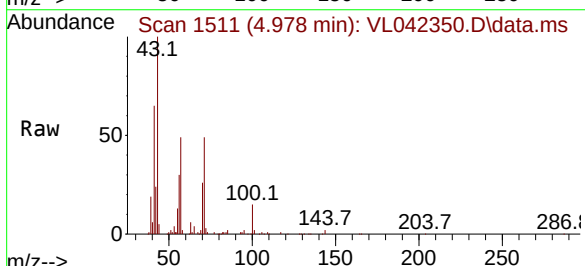
Acq: 17 Apr 2025 10:17

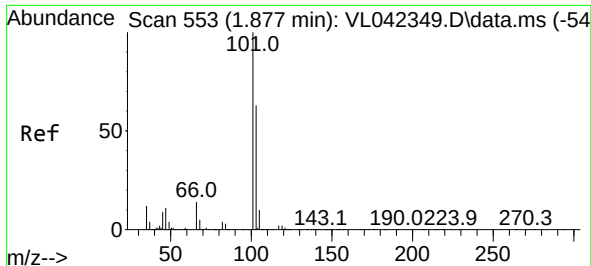
Tgt Ion: 43 Resp: 34658

Ion Ratio Lower Upper

43 100

57 75.9 39.9 59.9#

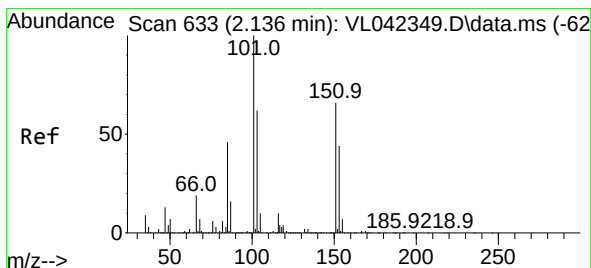
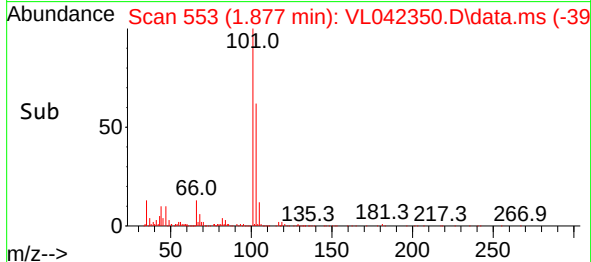
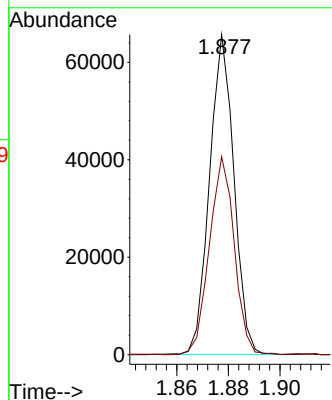
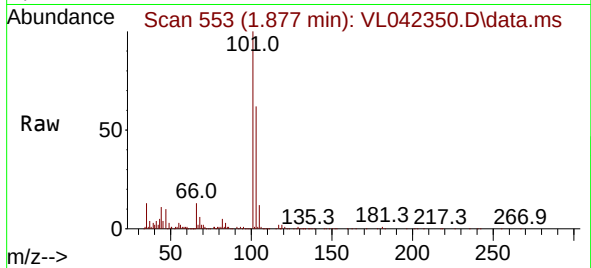




#11  
 Trichlorofluoromethane  
 Concen: 2.079 ppbv  
 RT: 1.877 min Scan# 553  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

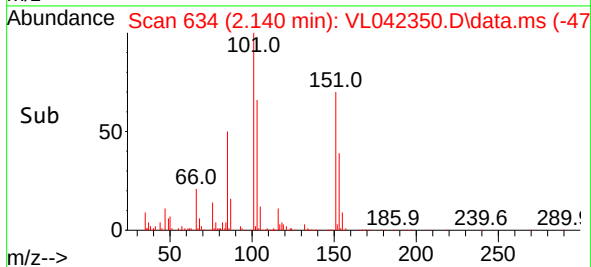
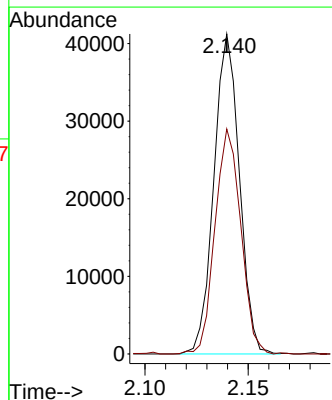
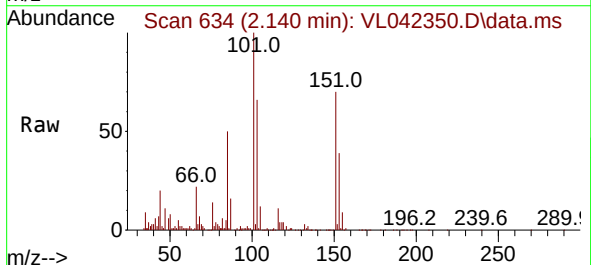
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Tgt Ion:101 Resp: 43035  
 Ion Ratio Lower Upper  
 101 100  
 103 61.9 50.1 75.1

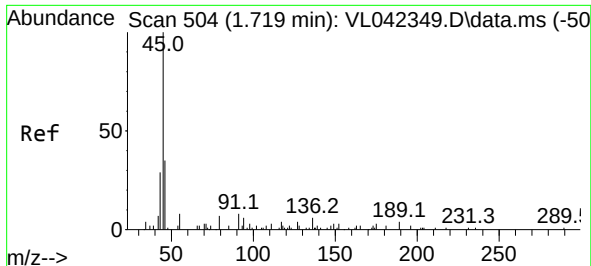


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 2.092 ppbv  
 RT: 2.140 min Scan# 634  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415  
 Ion Ratio Lower Upper  
 101 100  
 151 71.5 57.0 85.6



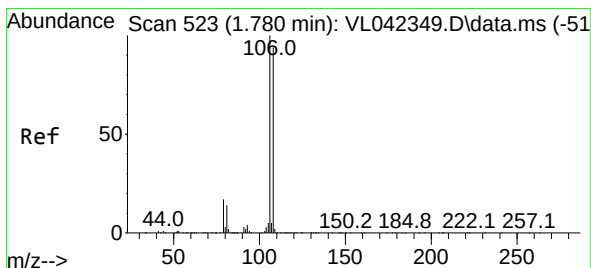
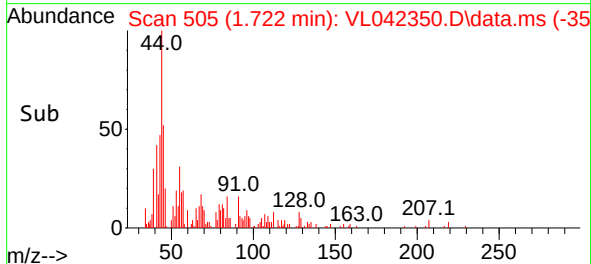
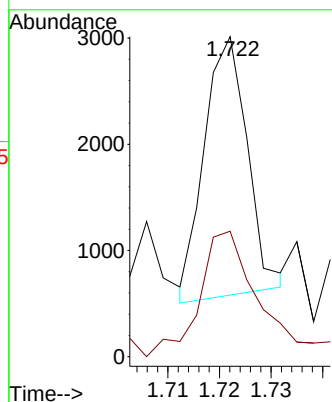
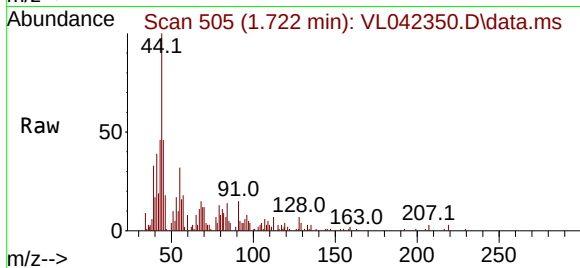




#13  
Ethanol  
Concen: 1.837 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

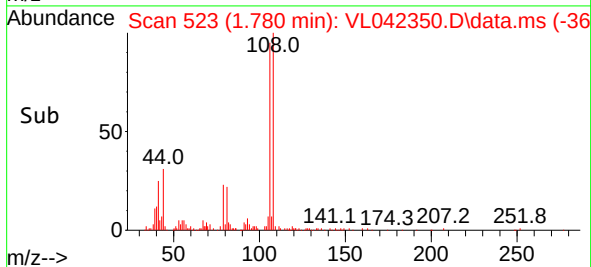
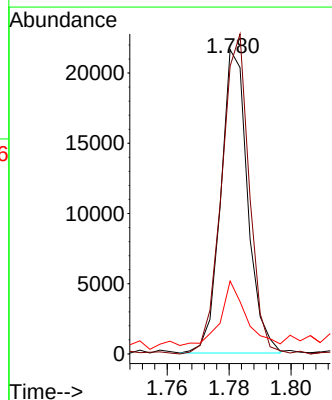
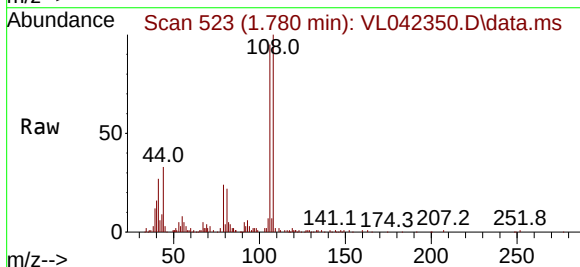
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

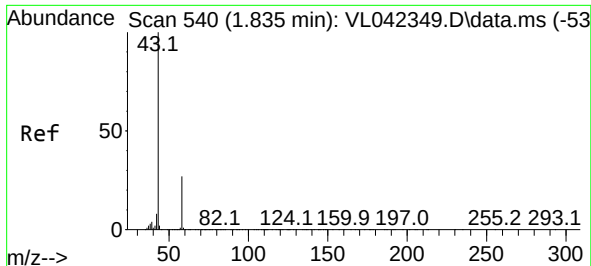
Tgt Ion: 45 Resp: 1417  
Ion Ratio Lower Upper  
45 100  
46 84.1 21.9 87.7



#14  
Bromoethene  
Concen: 2.045 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion:108 Resp: 13049  
Ion Ratio Lower Upper  
108 100  
106 110.2 85.9 128.9  
79 34.0 13.9 20.9#

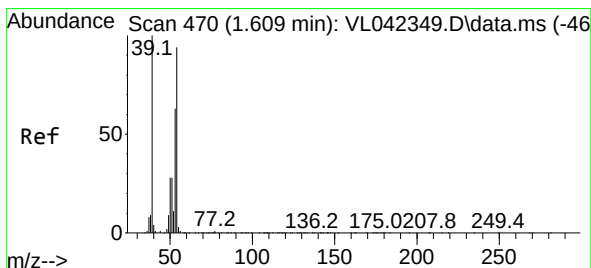
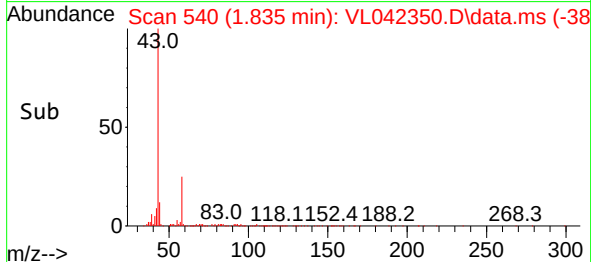
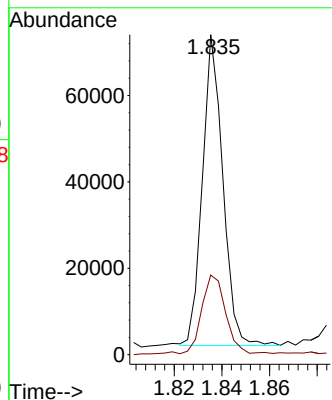
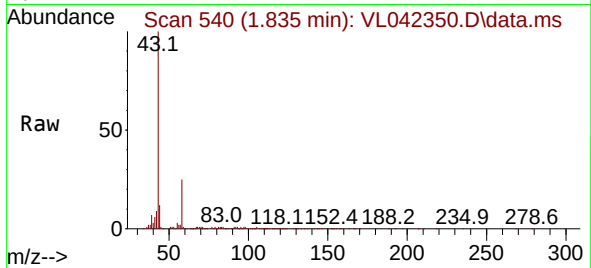




#15  
Acetone  
Concen: 2.129 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

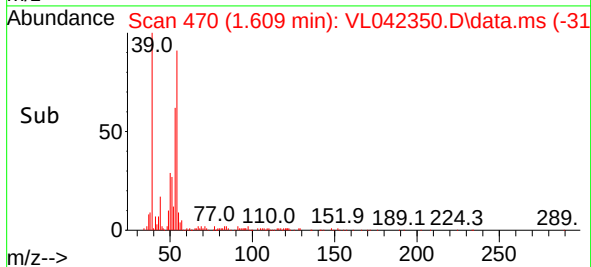
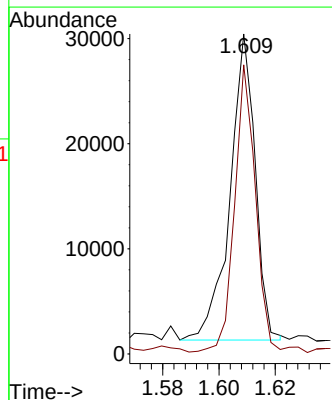
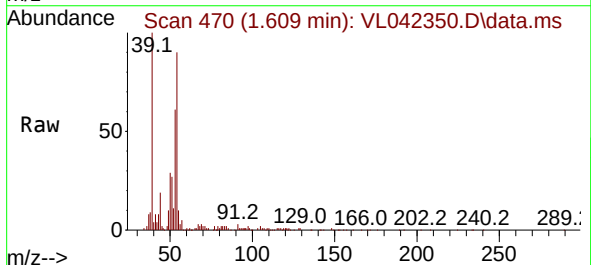
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

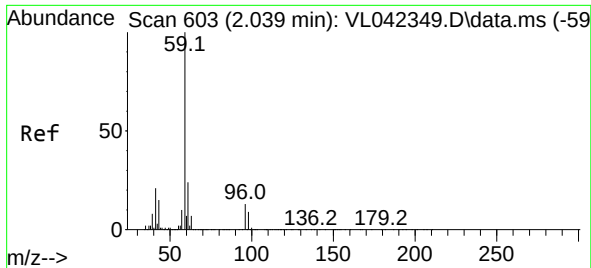
Tgt Ion: 43 Resp: 42949  
Ion Ratio Lower Upper  
43 100  
58 31.4 22.4 33.6



#16  
1,3-Butadiene  
Concen: 1.912 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110  
Ion Ratio Lower Upper  
39 100  
54 77.2 64.9 97.3

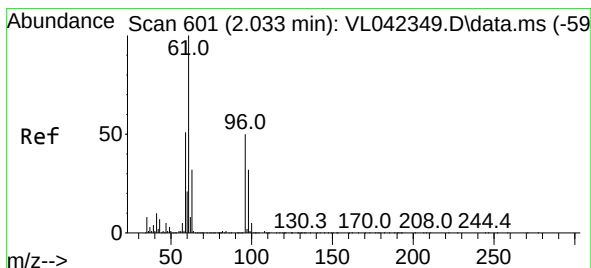
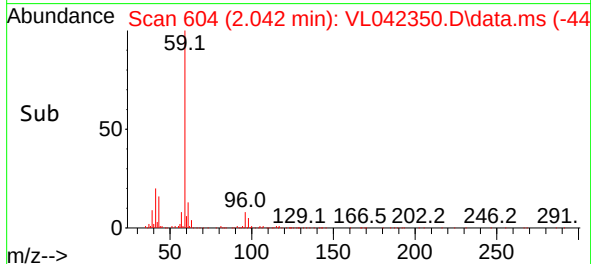
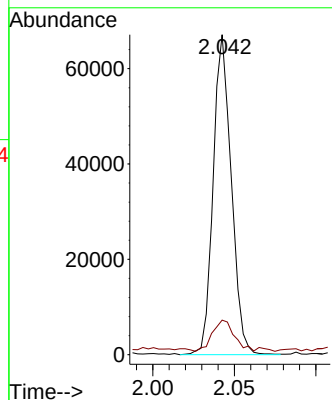
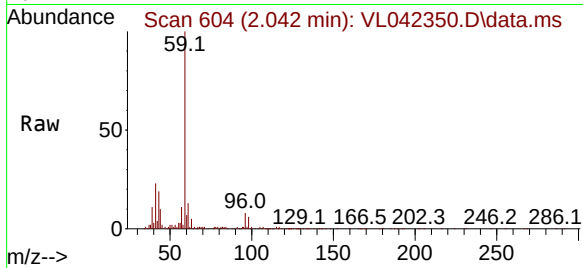




#17  
tert-Butyl alcohol  
Concen: 2.074 ppbv  
RT: 2.042 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

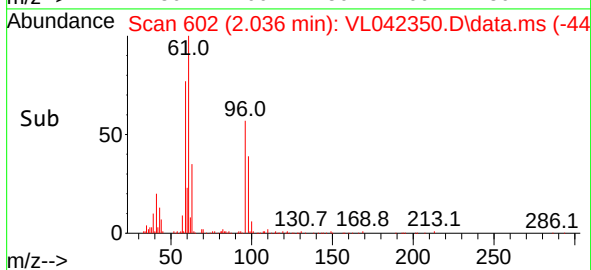
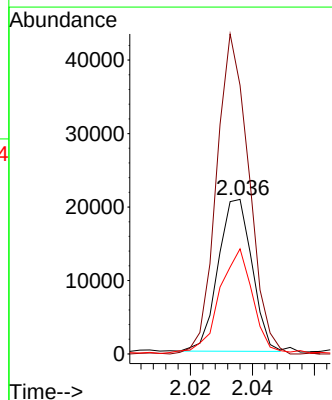
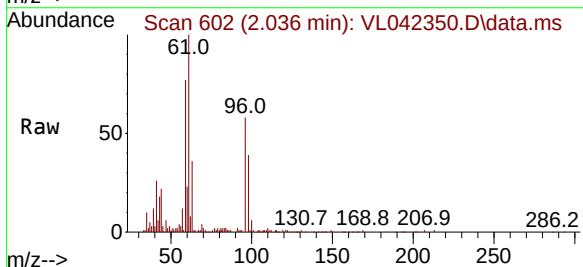
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

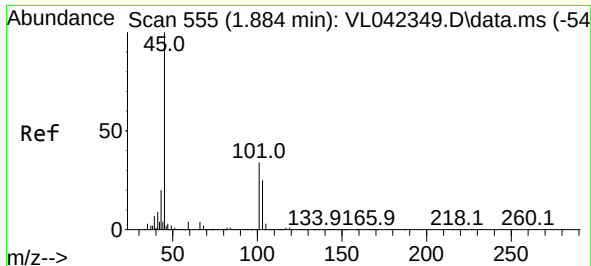
Tgt Ion: 59 Resp: 51829  
Ion Ratio Lower Upper  
59 100  
57 13.2 8.7 13.1#



#18  
1,1-Dichloroethene  
Concen: 1.928 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690  
Ion Ratio Lower Upper  
96 100  
61 176.1 160.2 240.2  
98 67.2 51.0 76.4

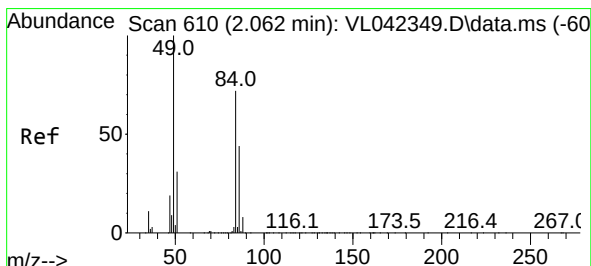
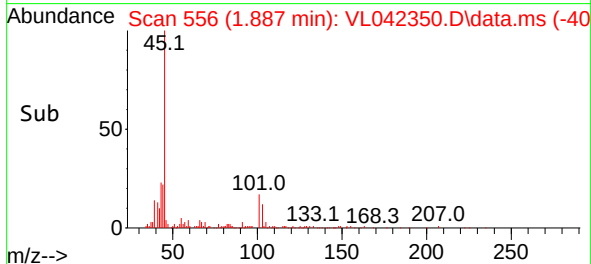
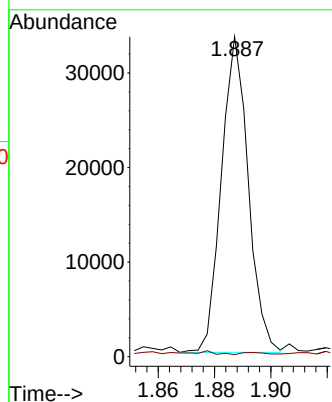
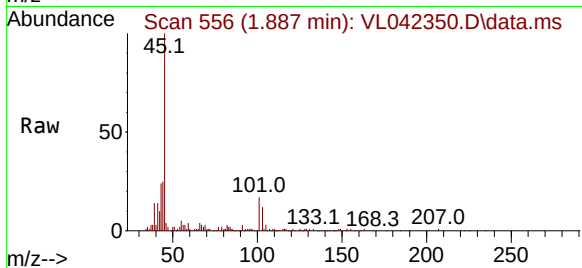




#19  
Isopropyl Alcohol  
Concen: 1.973 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

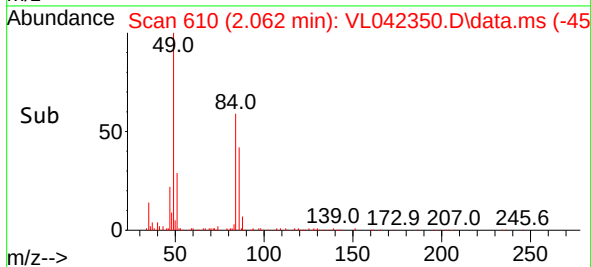
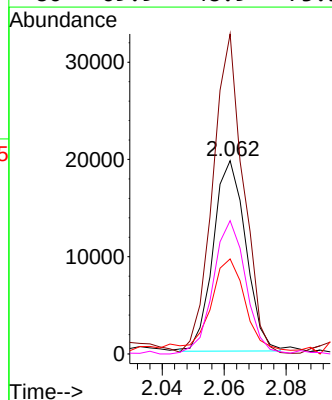
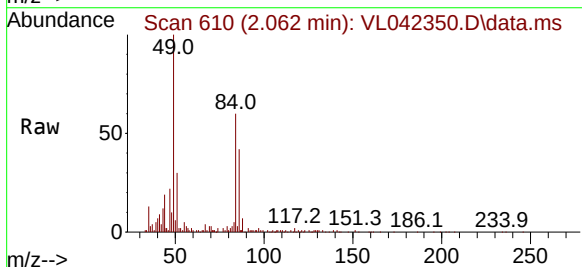
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

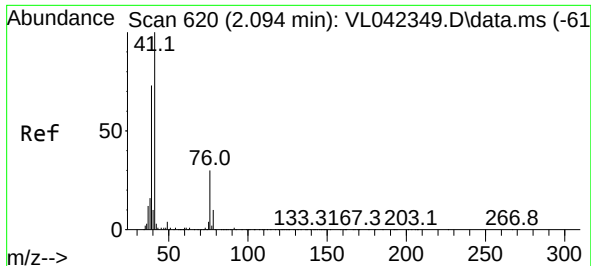
Tgt Ion: 45 Resp: 22106  
Ion Ratio Lower Upper  
45 100  
58 3.6 34.5 51.7#



#20  
Methylene Chloride  
Concen: 1.814 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329  
Ion Ratio Lower Upper  
84 100  
49 169.1 111.6 167.4#  
51 47.9 35.1 52.7  
86 69.9 48.9 73.3

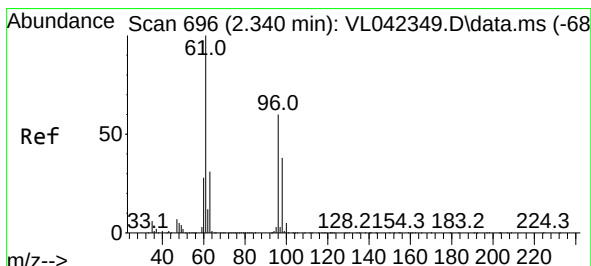
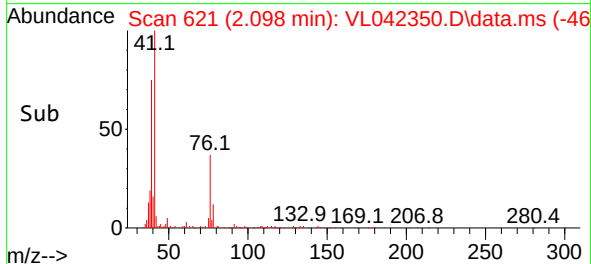
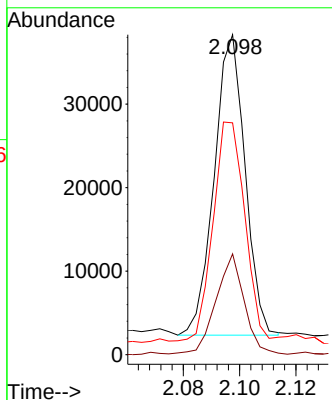
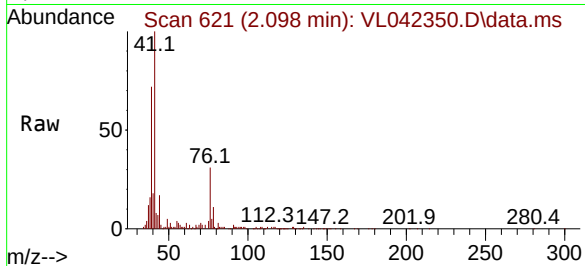




#21  
 Allyl Chloride  
 Concen: 1.963 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

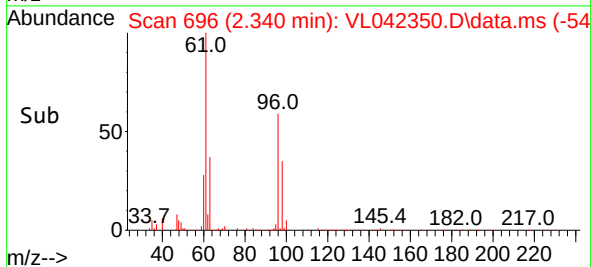
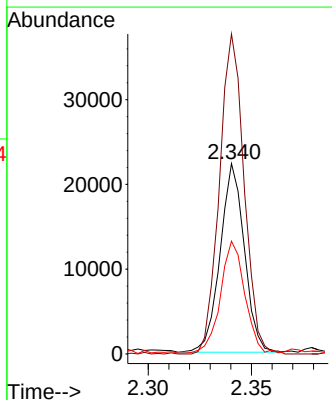
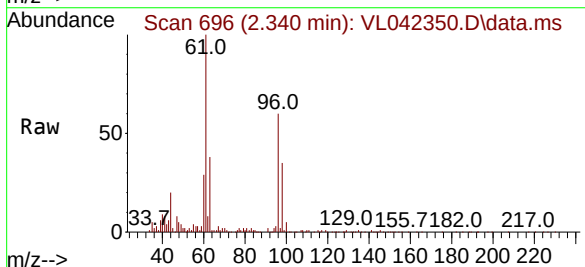
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

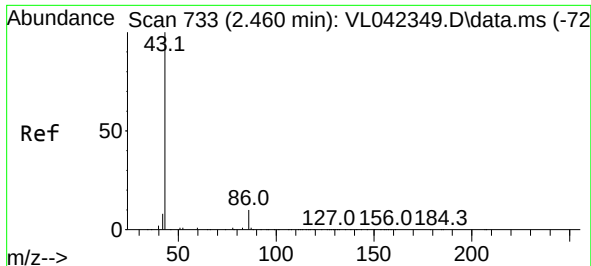
Tgt Ion: 41 Resp: 27340  
 Ion Ratio Lower Upper  
 41 100  
 76 31.9 24.8 37.2  
 39 81.2 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 2.015 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142  
 Ion Ratio Lower Upper  
 96 100  
 61 169.6 133.7 200.5  
 98 59.3 50.3 75.5

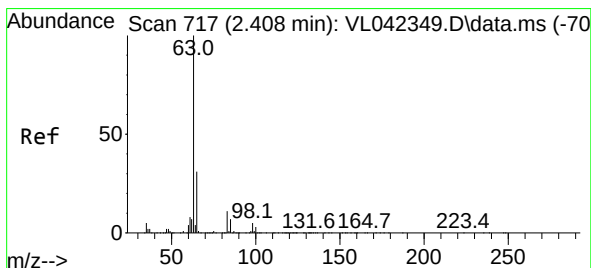
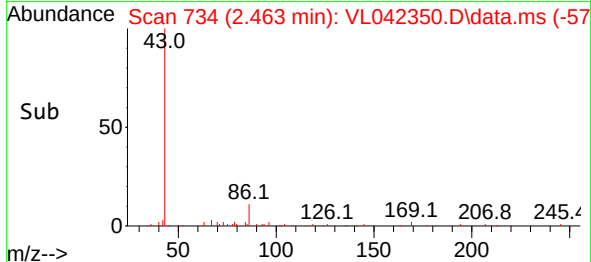
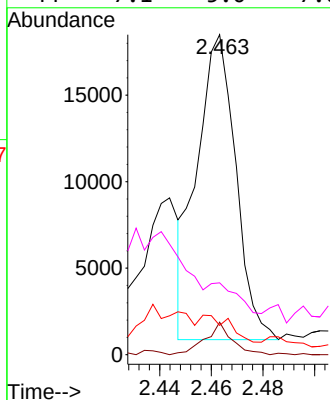
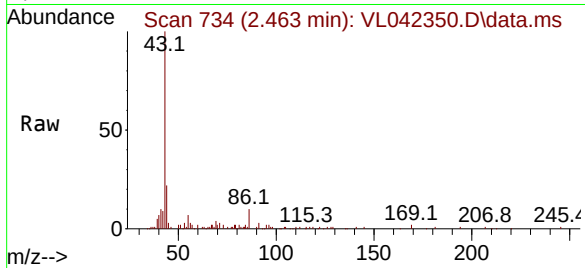




#23  
 Vinyl Acetate  
 Concen: 2.260 ppbv  
 RT: 2.463 min Scan# 718  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

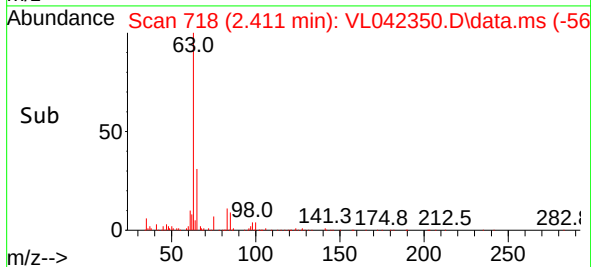
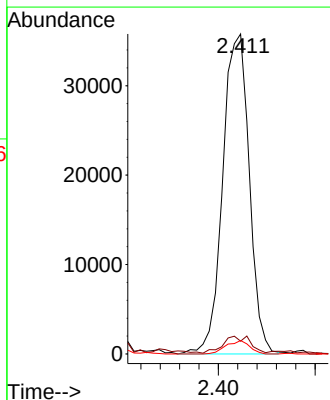
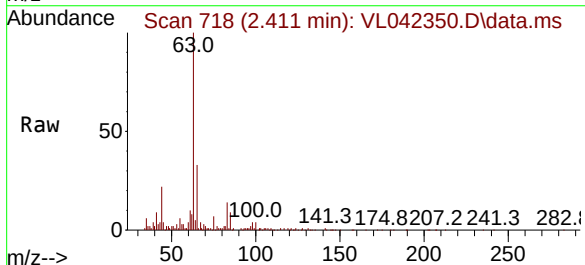
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

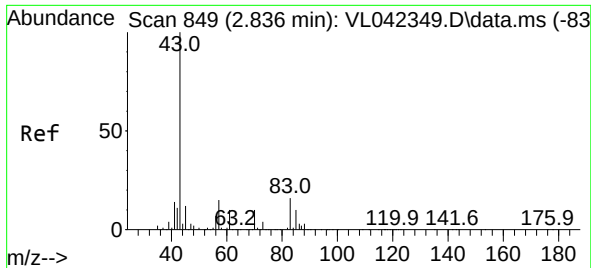
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 18454 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.2  | 6.5   | 9.7#  |
| 42       | 3.7   | 7.8   | 11.8# |
| 44       | 7.1   | 5.0   | 7.6   |



#24  
 1,1-Dichloroethane  
 Concen: 1.993 ppbv  
 RT: 2.411 min Scan# 718  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 34077 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 3.1   | 2.3   | 6.8   |
| 100      | 4.2   | 1.6   | 4.8   |



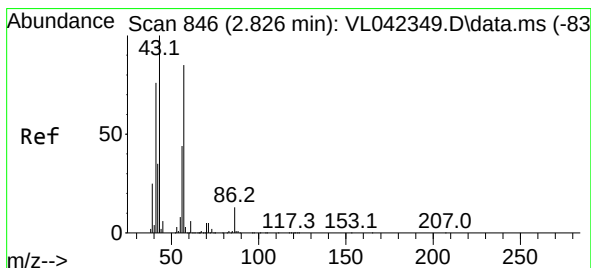
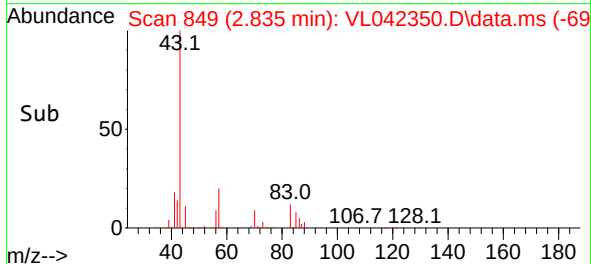
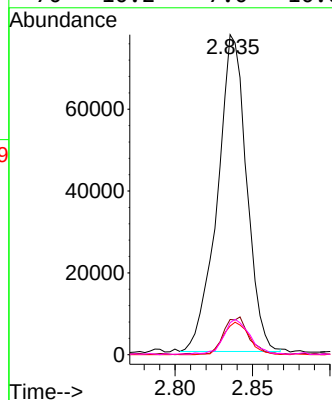
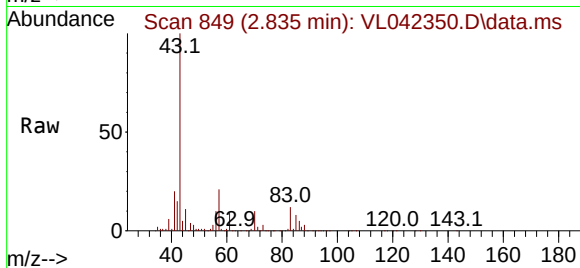


#25  
Ethyl Acetate  
Concen: 2.040 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

Tgt Ion: 43 Resp: 101467

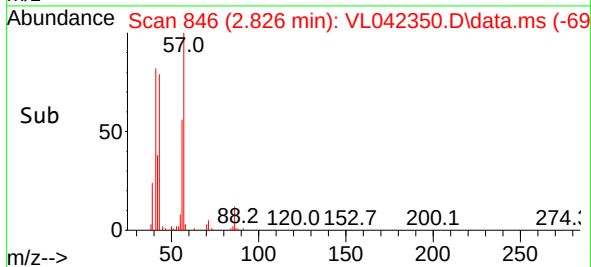
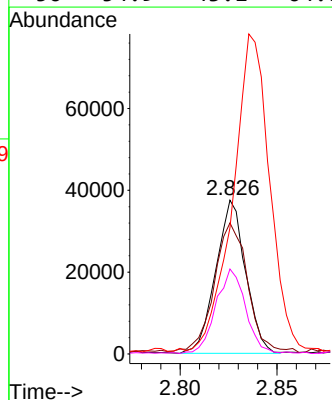
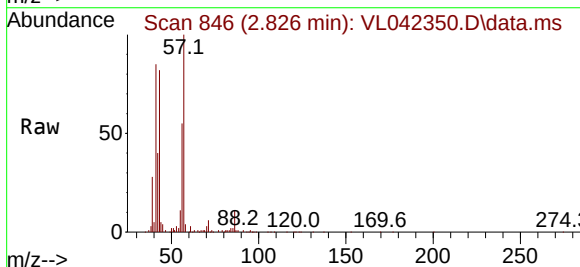
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.4  | 8.3   | 12.5  |
| 61  | 9.2   | 7.3   | 10.9  |
| 70  | 10.2  | 7.0   | 10.6  |

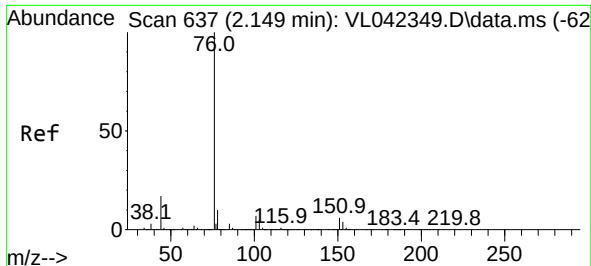


#26  
Hexane  
Concen: 1.990 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 94.1  | 77.9  | 116.9 |
| 43  | 260.7 | 208.4 | 312.6 |
| 56  | 54.9  | 43.1  | 64.7  |





#27

Carbon Disulfide

Concen: 2.041 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

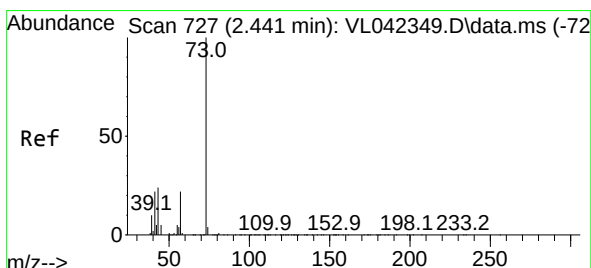
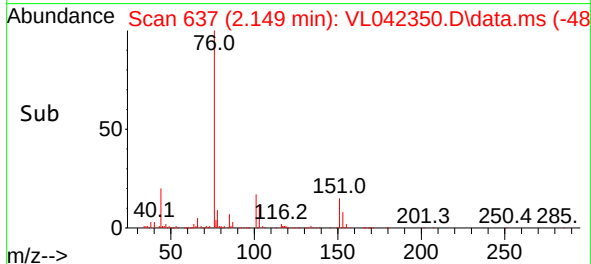
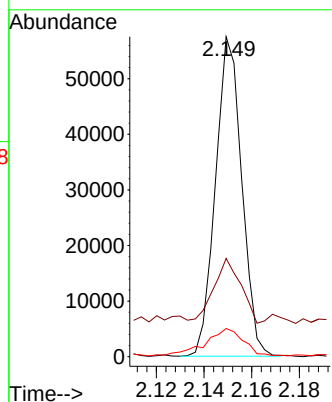
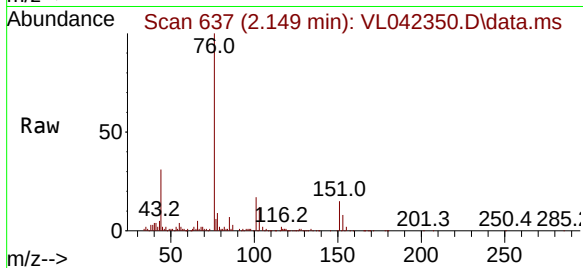
Tgt Ion: 76 Resp: 43975

Ion Ratio Lower Upper

76 100

44 44.3 15.5 23.3#

78 13.6 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 2.116 ppbv

RT: 2.441 min Scan# 727

Delta R.T. -0.000 min

Lab File: VL042350.D

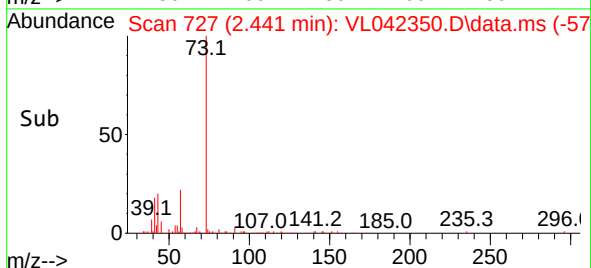
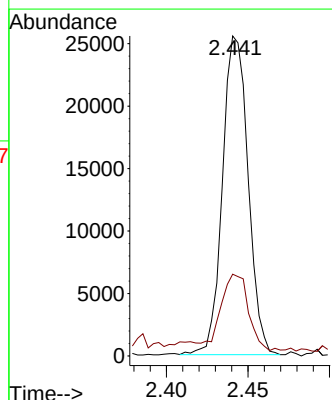
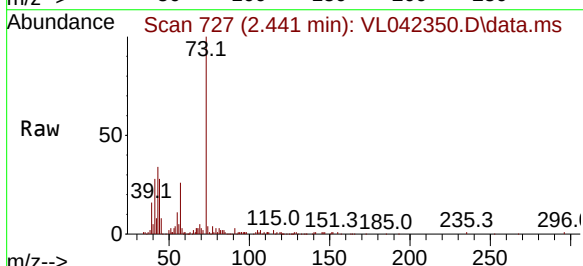
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905

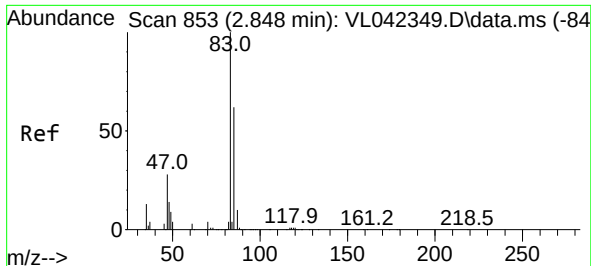
Ion Ratio Lower Upper

73 100

57 28.1 21.3 31.9







#29

Chloroform

Concen: 2.072 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

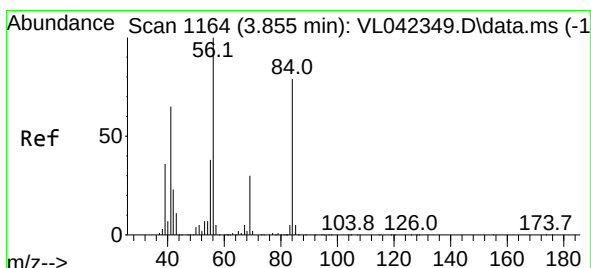
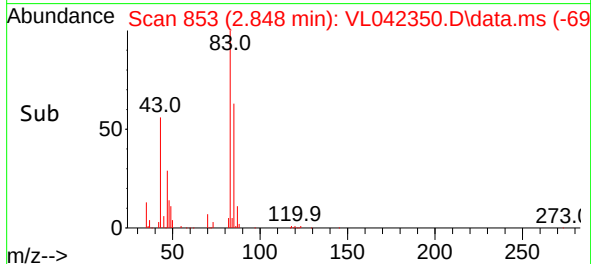
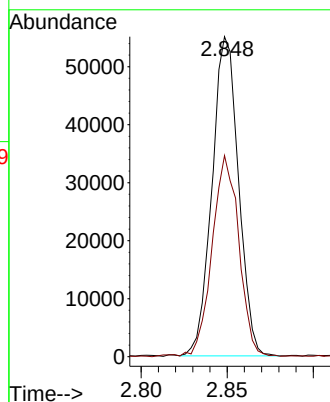
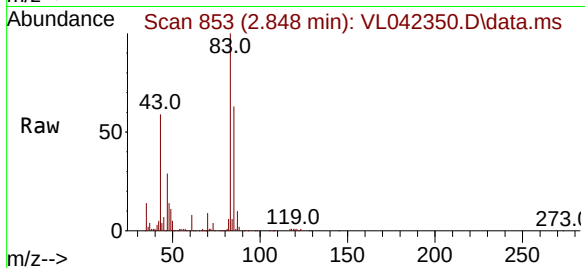
VSTDICC002

Tgt Ion: 83 Resp: 58946

Ion Ratio Lower Upper

83 100

85 62.9 50.0 75.0



#30

Cyclohexane

Concen: 2.048 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

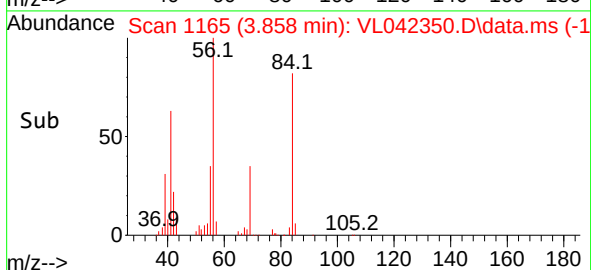
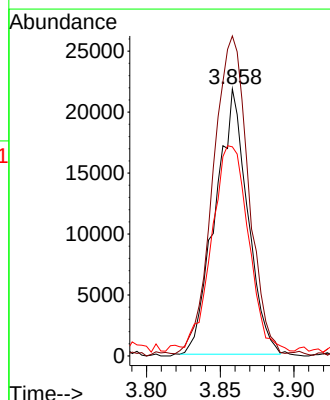
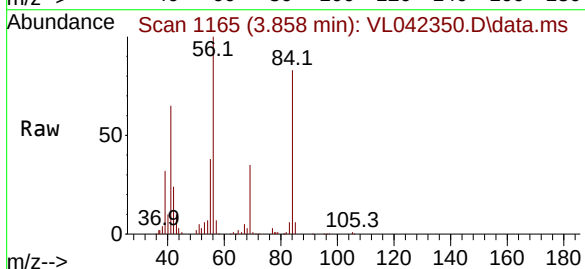
Tgt Ion: 84 Resp: 33195

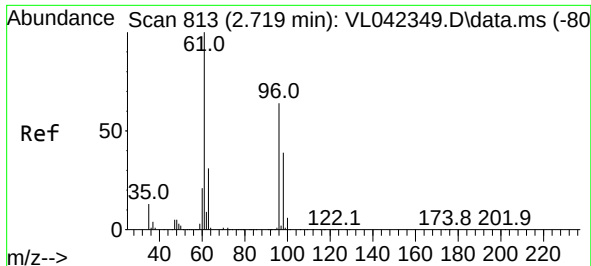
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

41 88.1 67.4 101.0

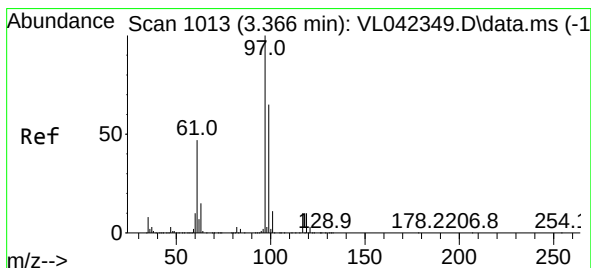
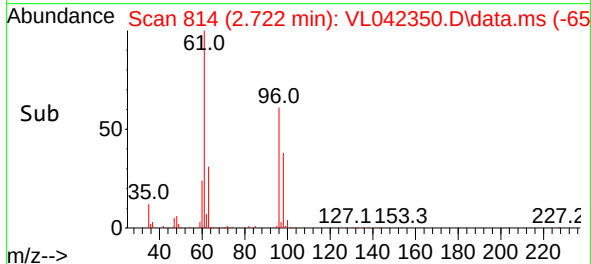
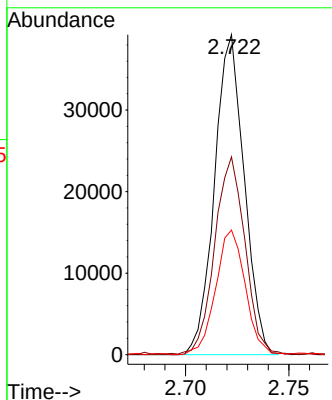
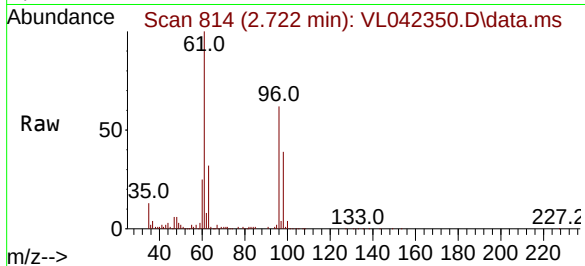




#31  
 cis-1,2-Dichloroethene  
 Concen: 2.051 ppbv  
 RT: 2.722 min Scan# 813  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

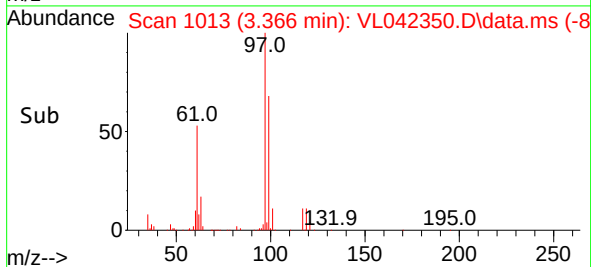
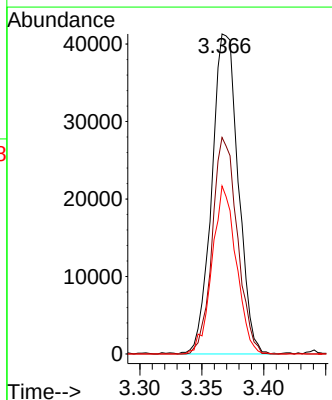
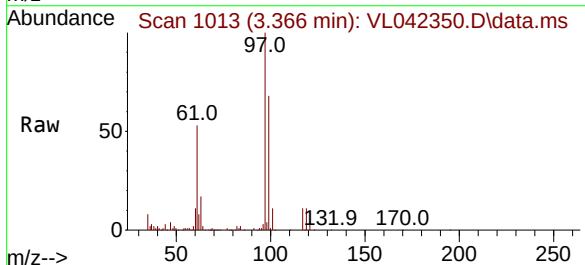
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

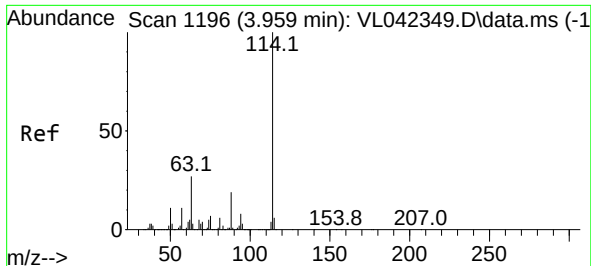
Tgt Ion: 61 Resp: 39249  
 Ion Ratio Lower Upper  
 61 100  
 96 61.6 50.8 76.2  
 98 39.0 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 2.014 ppbv  
 RT: 3.366 min Scan# 1013  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442  
 Ion Ratio Lower Upper  
 97 100  
 99 64.0 51.0 76.4  
 61 48.0 38.8 58.2

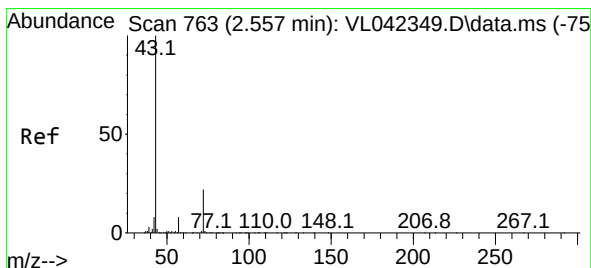
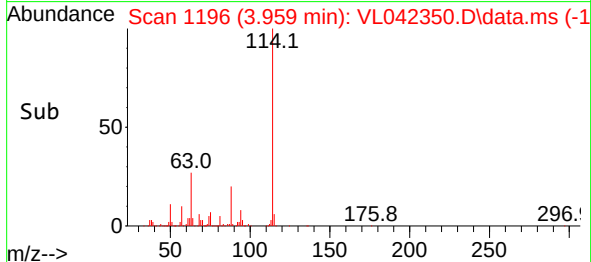
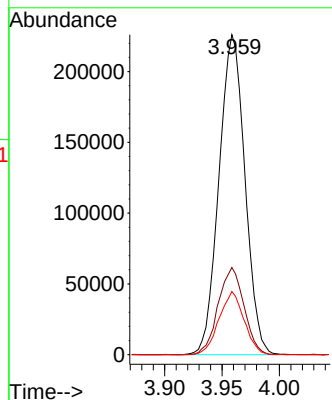
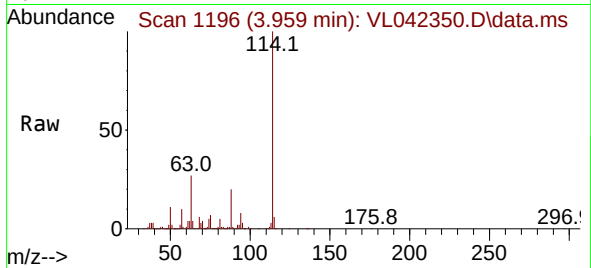




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

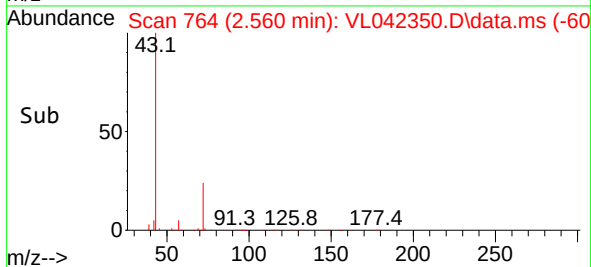
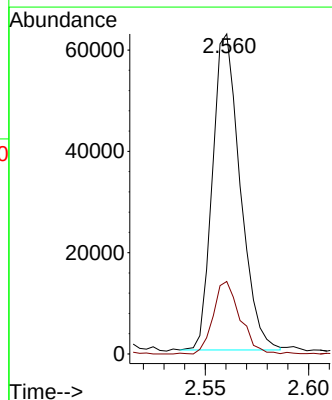
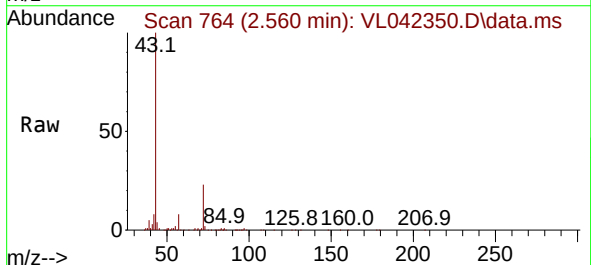
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

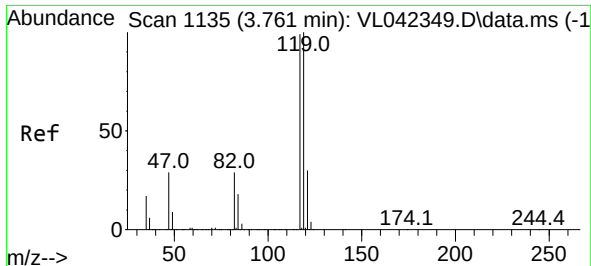
Tgt Ion:114 Resp: 355918  
Ion Ratio Lower Upper  
114 100  
63 27.1 21.8 32.6  
88 19.0 15.5 23.3



#34  
2-Butanone  
Concen: 2.069 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249  
Ion Ratio Lower Upper  
43 100  
72 22.5 18.2 27.2

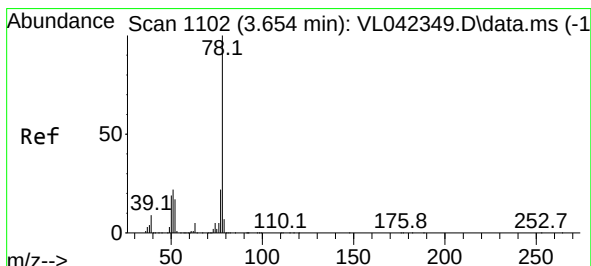
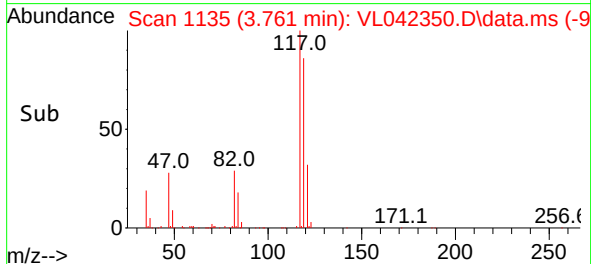
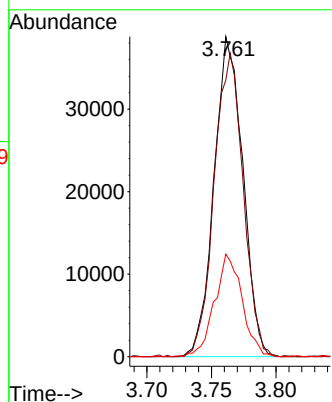
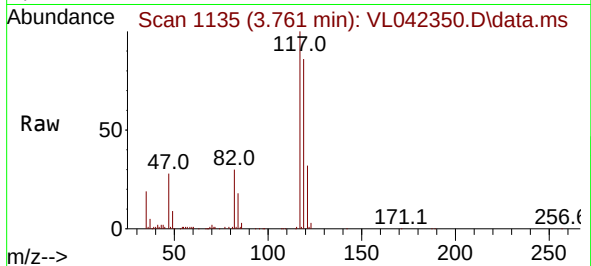




#35  
Carbon Tetrachloride  
Concen: 1.872 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

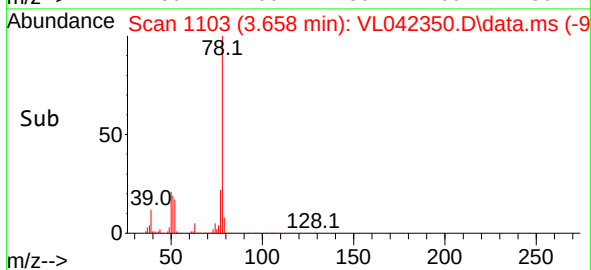
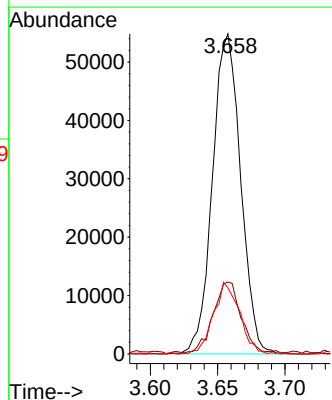
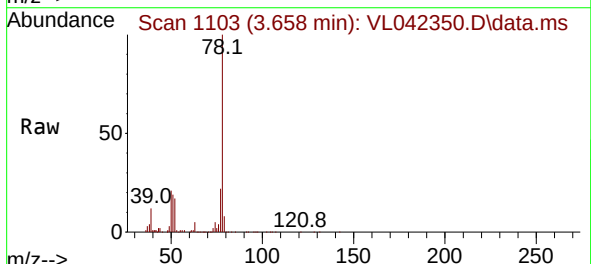
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

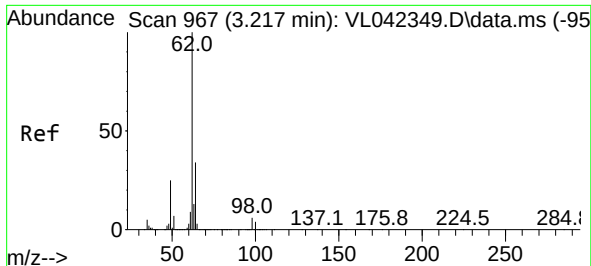
Tgt Ion:117 Resp: 60291  
Ion Ratio Lower Upper  
117 100  
119 86.4 80.5 120.7  
121 32.1 24.2 36.2



#36  
Benzene  
Concen: 2.079 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814  
Ion Ratio Lower Upper  
78 100  
77 22.0 17.4 26.0  
50 20.6 15.5 23.3

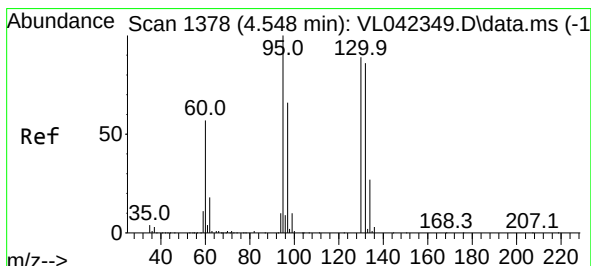
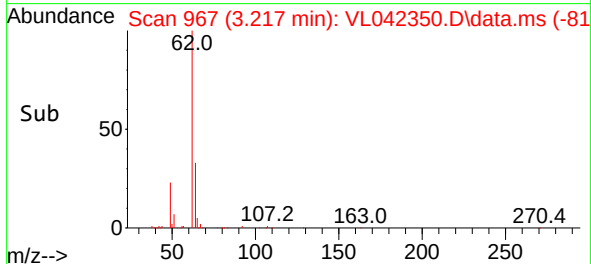
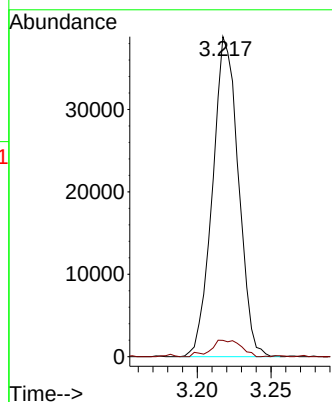
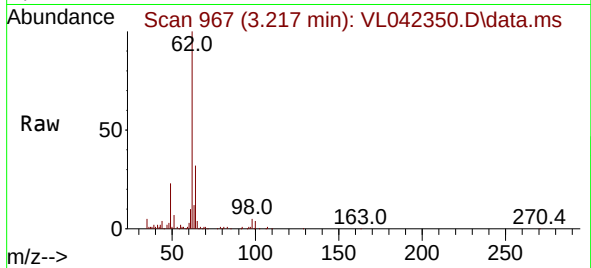




#37  
1,2-Dichloroethane  
Concen: 2.057 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

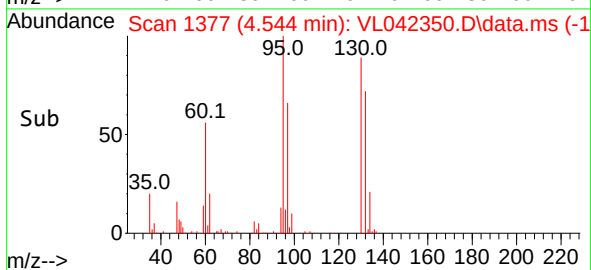
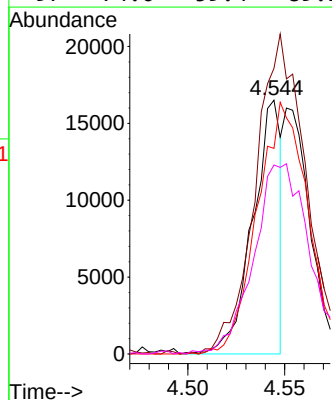
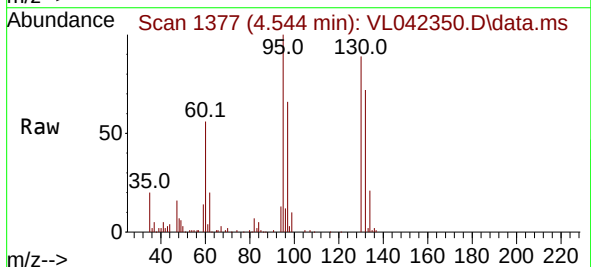
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

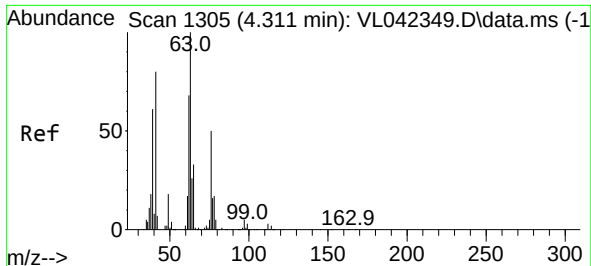
Tgt Ion: 62 Resp: 47398  
Ion Ratio Lower Upper  
62 100  
98 6.4 5.1 7.7



#38  
Trichloroethene  
Concen: 0.986 ppbv  
RT: 4.544 min Scan# 1377  
Delta R.T. -0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 16602  
Ion Ratio Lower Upper  
130 100  
95 112.6 89.8 134.6  
132 81.1 77.7 116.5  
97 74.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

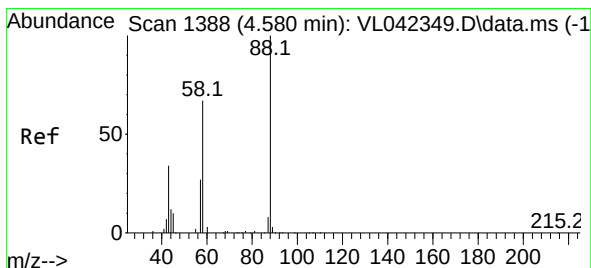
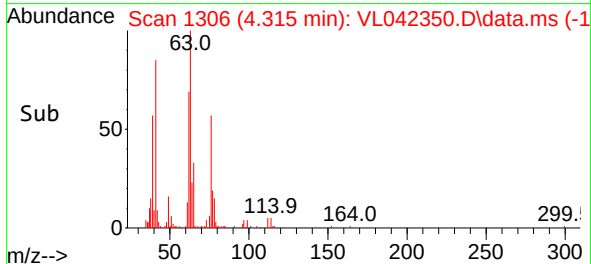
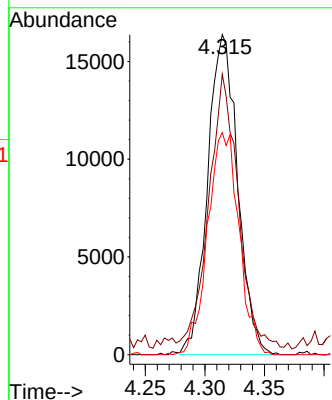
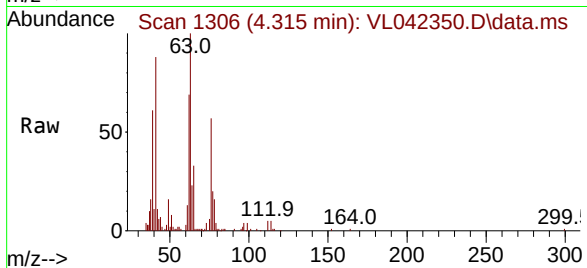
Tgt Ion: 63 Resp: 28806

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

62 69.4 54.3 81.5



#40

1,4-Dioxane

Concen: 2.067 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16026

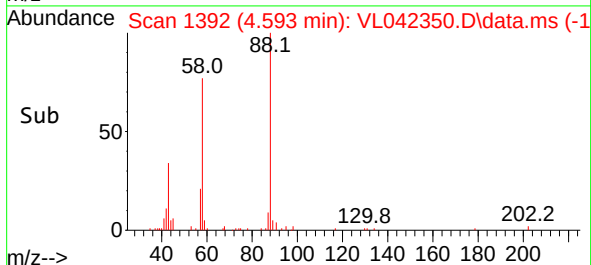
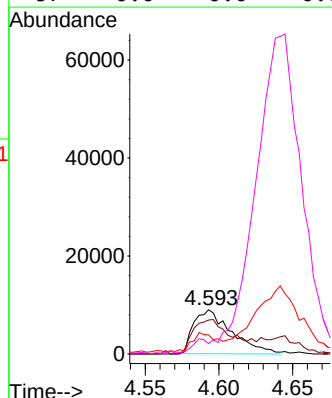
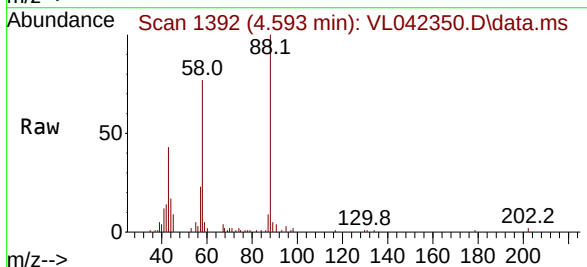
Ion Ratio Lower Upper

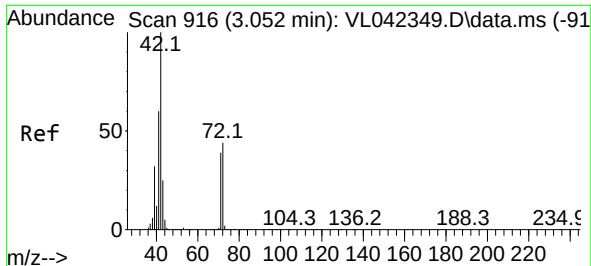
88 100

58 84.9 61.4 92.0

43 6.3 23.2 34.8#

57 0.0 0.0 0.0

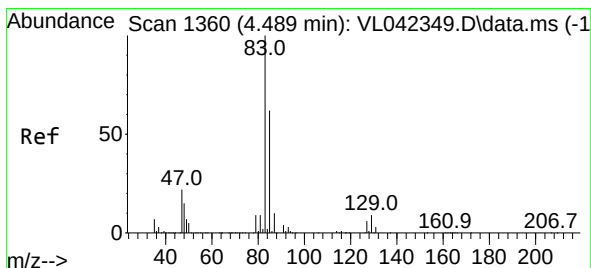
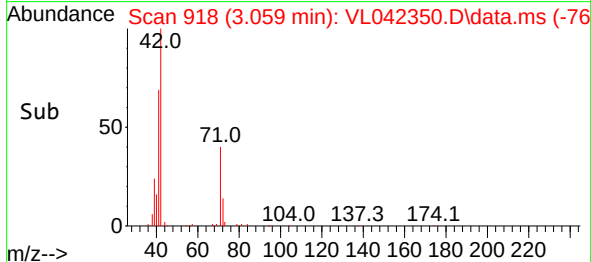
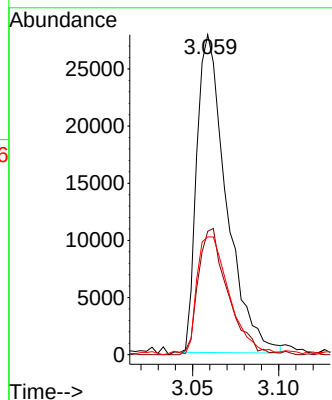
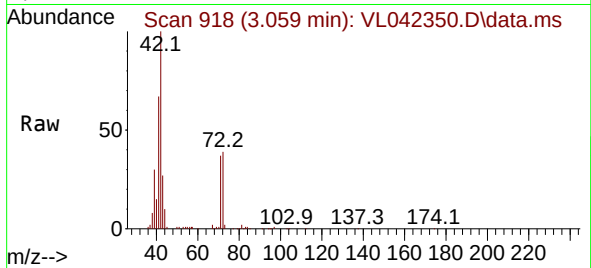




#41  
Tetrahydrofuran  
Concen: 2.047 ppbv  
RT: 3.059 min Scan# 916  
Delta R.T. 0.006 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

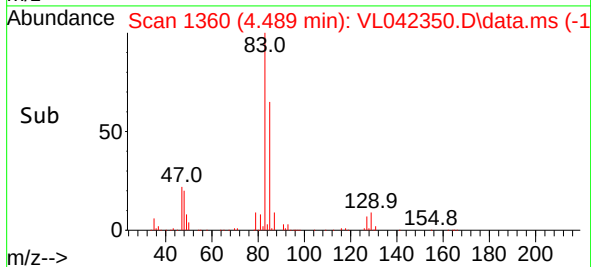
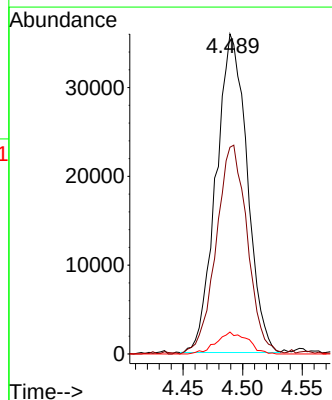
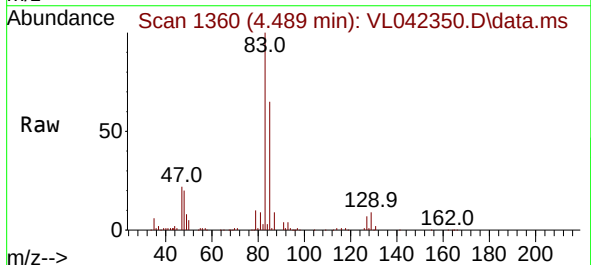
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

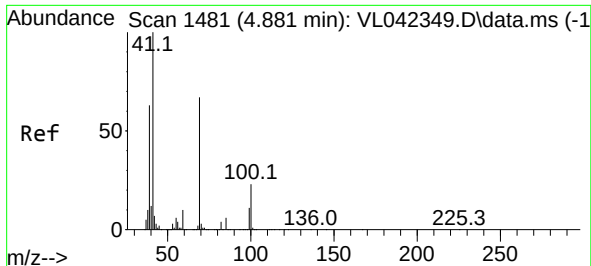
Tgt Ion: 42 Resp: 33298  
Ion Ratio Lower Upper  
42 100  
72 39.9 32.3 48.5  
71 41.5 31.4 47.2



#42  
Bromodichloromethane  
Concen: 2.025 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941  
Ion Ratio Lower Upper  
83 100  
85 64.9 49.7 74.5  
127 6.9 5.1 7.7

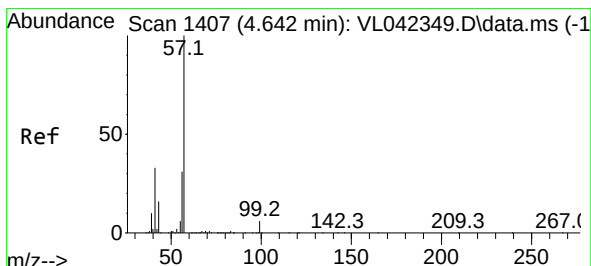
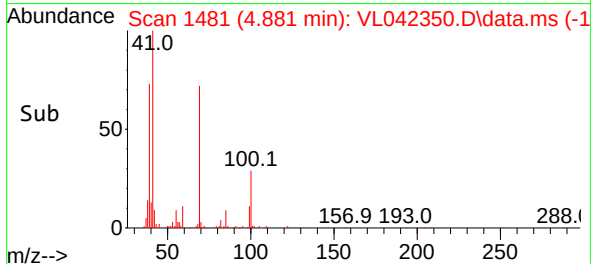
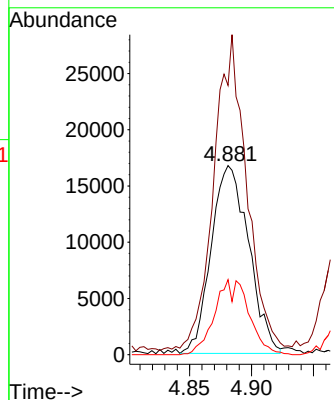
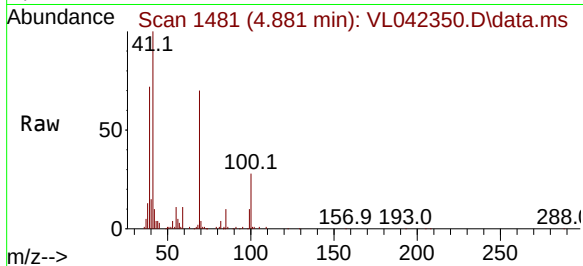




#43  
Methyl Methacrylate  
Concen: 2.046 ppbv  
RT: 4.881 min Scan# 1481  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

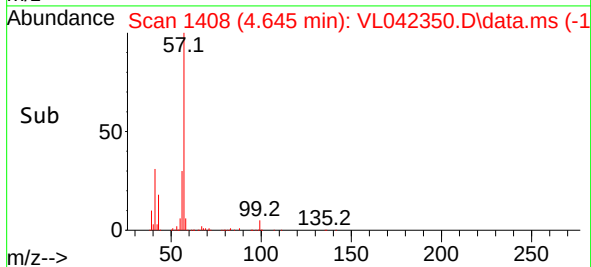
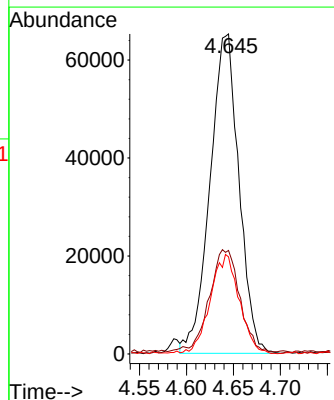
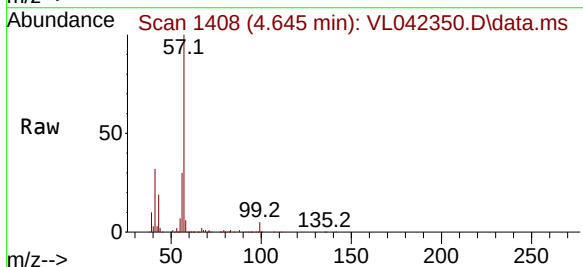
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 69 Resp: 35256  
Ion Ratio Lower Upper  
69 100  
41 144.4 118.6 177.8  
100 36.5 28.2 42.2

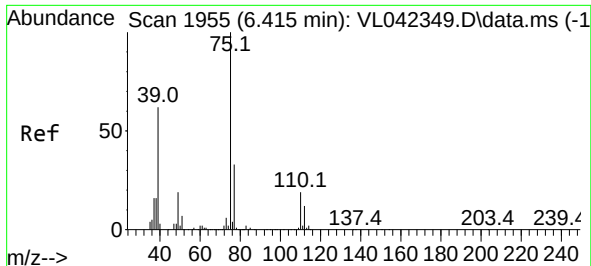


#44  
2,2,4-Trimethylpentane  
Concen: 2.103 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641  
Ion Ratio Lower Upper  
57 100  
41 34.4 27.2 40.8  
56 31.3 25.7 38.5







#45

t-1,3-Dichloropropene

Concen: 2.050 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

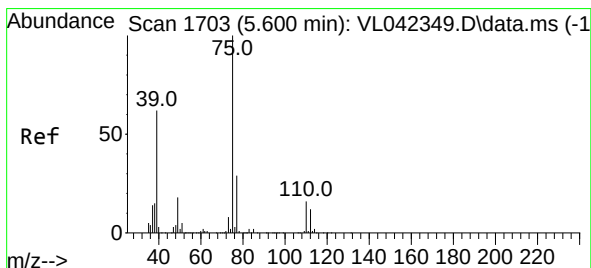
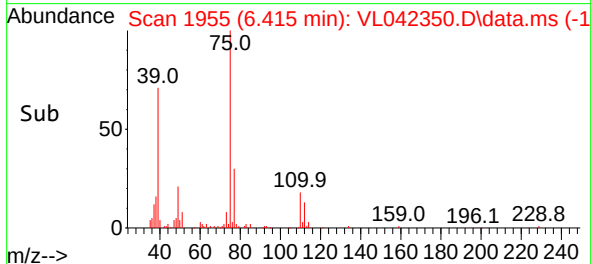
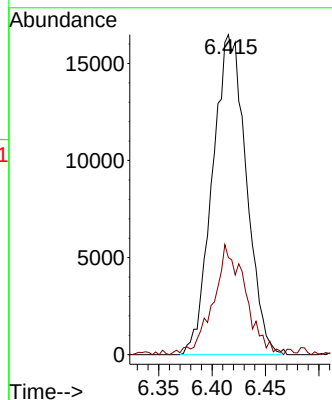
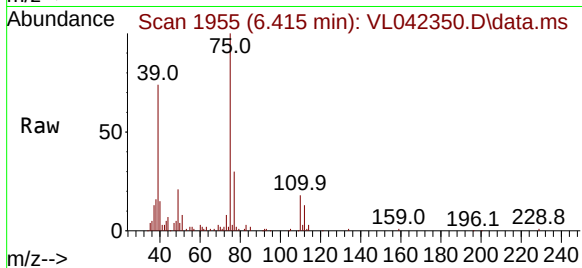
VSTDIC002

Tgt Ion: 75 Resp: 36265

Ion Ratio Lower Upper

75 100

77 30.4 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 1.183 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

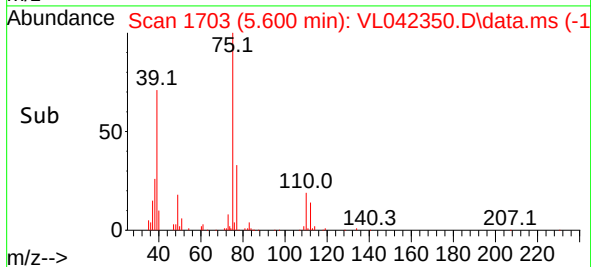
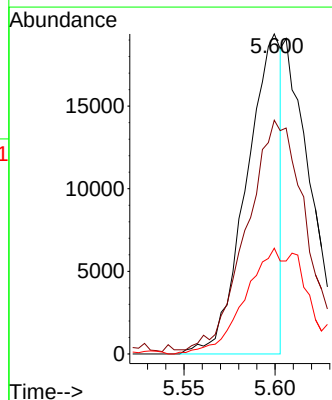
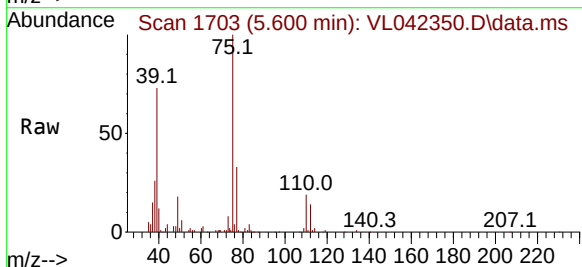
Tgt Ion: 75 Resp: 25569

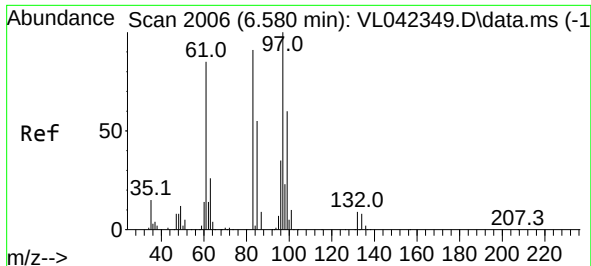
Ion Ratio Lower Upper

75 100

39 71.8 50.0 75.0

77 32.5 23.0 34.6

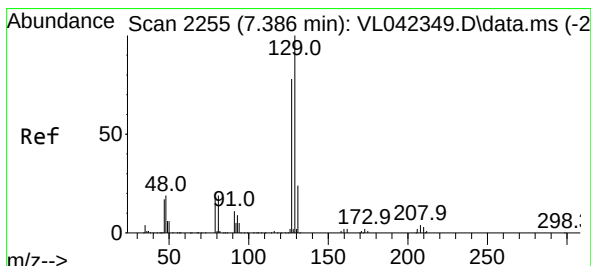
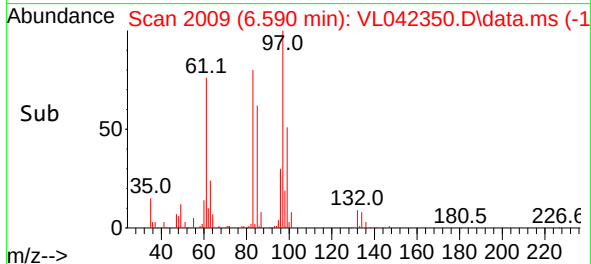
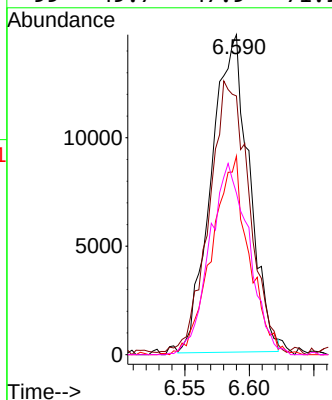
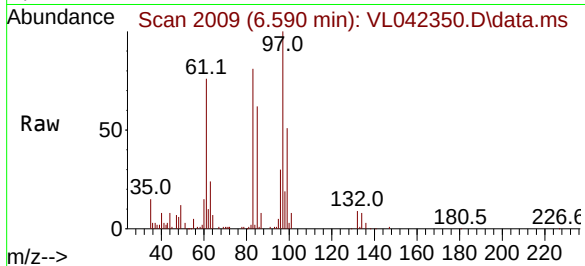




#47  
 1,1,2-Trichloroethane  
 Concen: 2.049 ppbv  
 RT: 6.590 min Scan# 2006  
 Delta R.T. 0.010 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

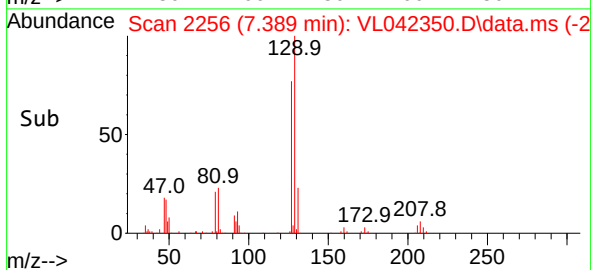
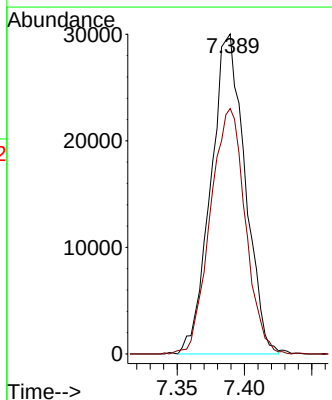
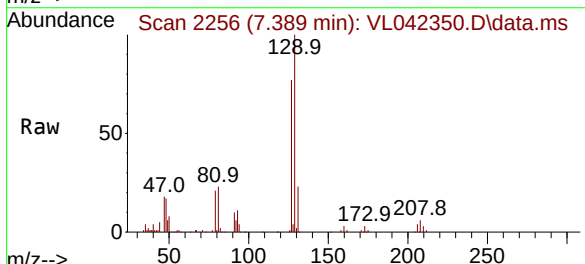
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

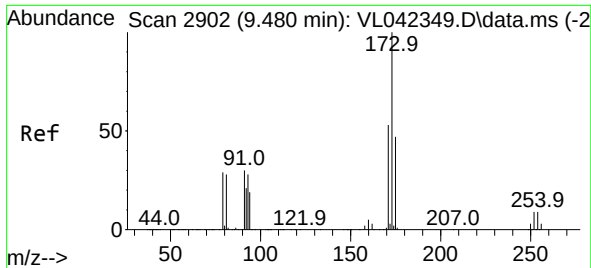
Tgt Ion: 97 Resp: 29879  
 Ion Ratio Lower Upper  
 97 100  
 83 78.8 72.8 109.2  
 85 61.7 44.2 66.4  
 99 49.7 47.9 71.9



#48  
 Dibromochloromethane  
 Concen: 2.061 ppbv  
 RT: 7.389 min Scan# 2256  
 Delta R.T. 0.003 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 129 Resp: 53069  
 Ion Ratio Lower Upper  
 129 100  
 127 78.4 39.1 117.3





#49

Bromoform

Concen: 2.135 ppbv

RT: 9.483 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

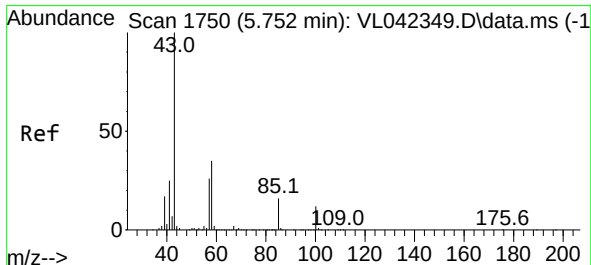
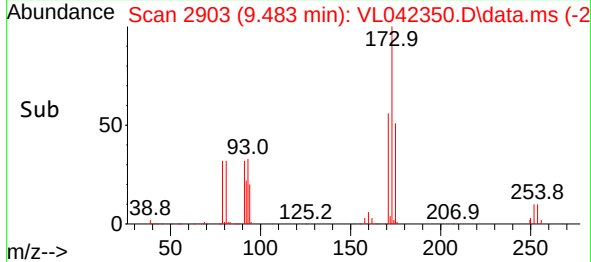
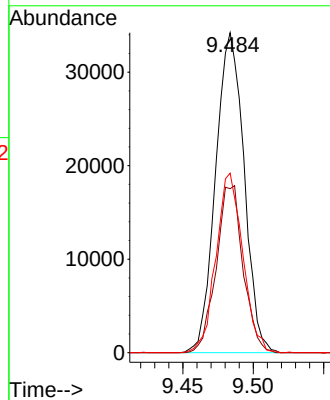
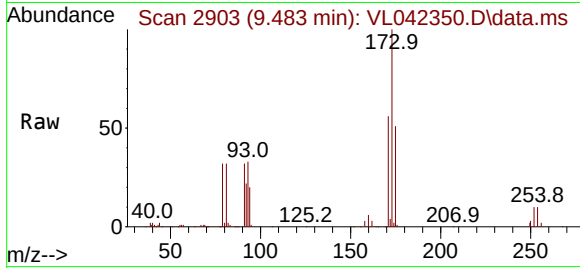
Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:173 | Resp: | 48069       |
| Ion         | Ratio | Lower Upper |
| 173         | 100   |             |
| 175         | 49.4  | 38.2 57.2   |
| 171         | 53.0  | 40.9 61.3   |



#50

4-Methyl-2-Pentanone

Concen: 2.180 ppbv

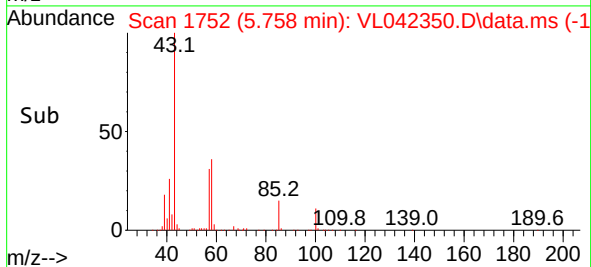
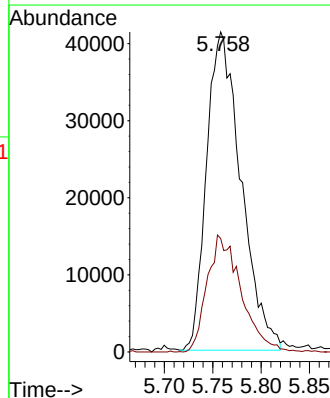
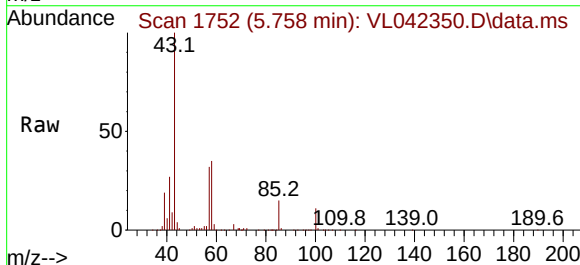
RT: 5.758 min Scan# 1752

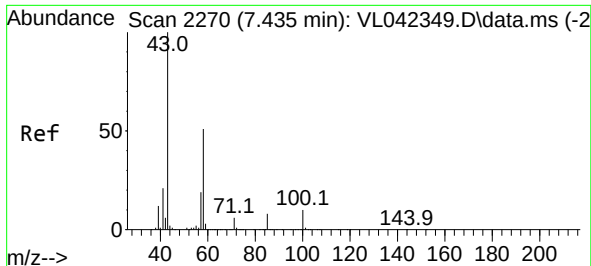
Delta R.T. 0.006 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 102182      |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 58          | 36.3  | 28.6 43.0   |

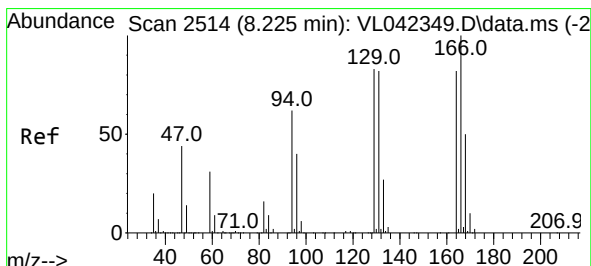
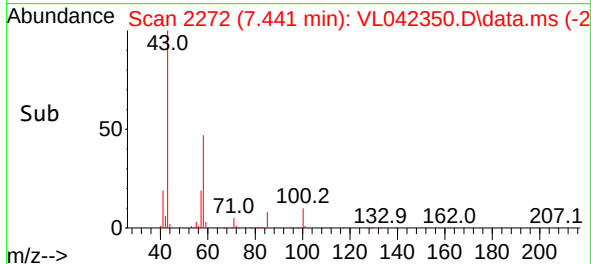
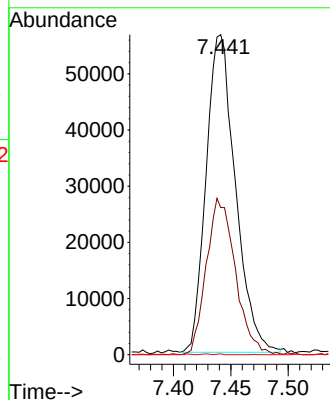
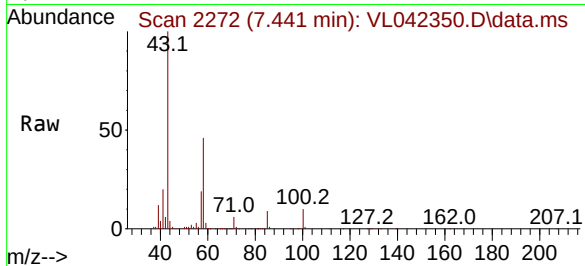




#51  
2-Hexanone  
Concen: 2.375 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

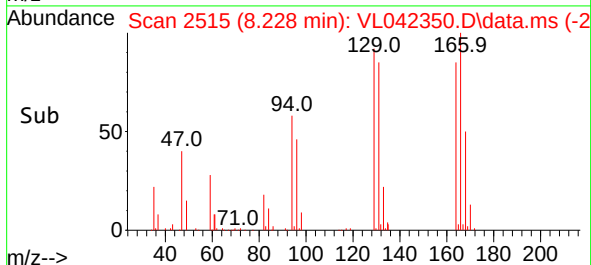
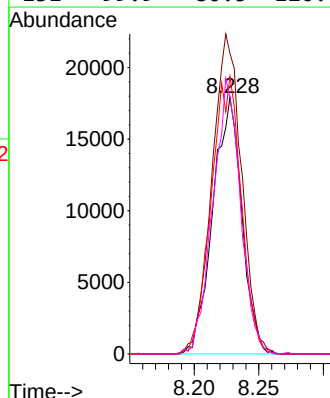
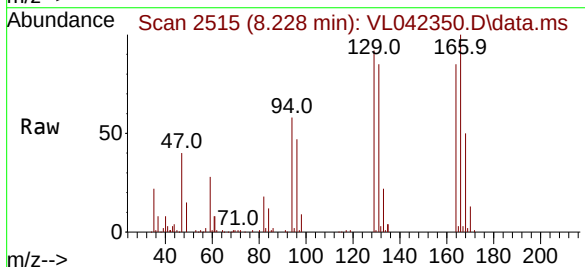
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

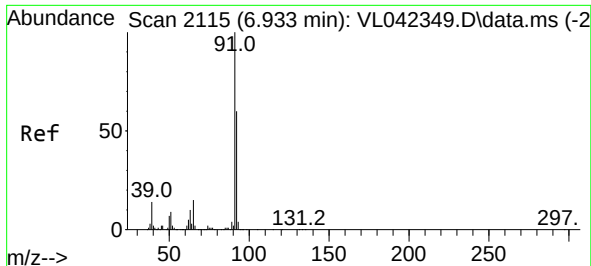
Tgt Ion: 43 Resp: 100443  
Ion Ratio Lower Upper  
43 100  
58 49.0 40.2 60.4  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 1.877 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 164 Resp: 27854  
Ion Ratio Lower Upper  
164 100  
166 117.2 98.2 147.2  
129 108.2 81.8 122.8  
131 99.9 80.5 120.7

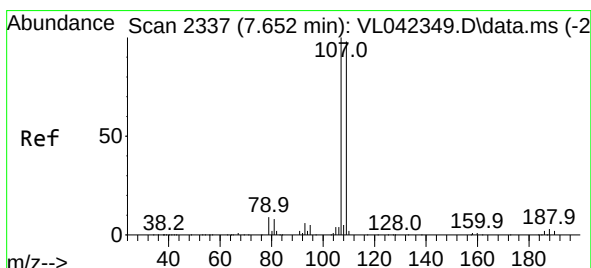
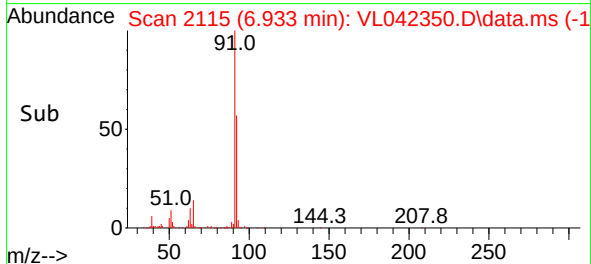
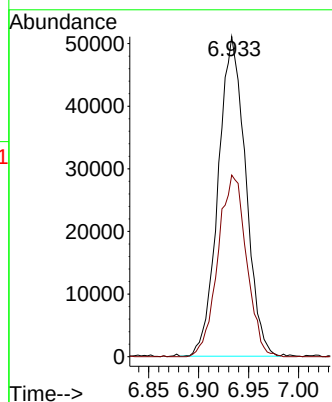
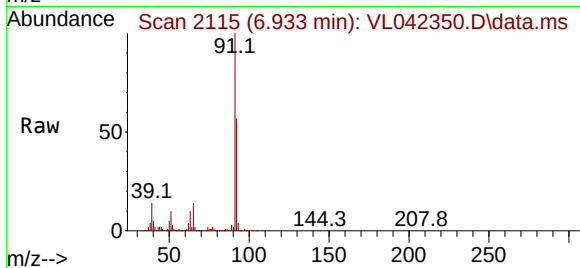




#53  
Toluene  
Concen: 2.116 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

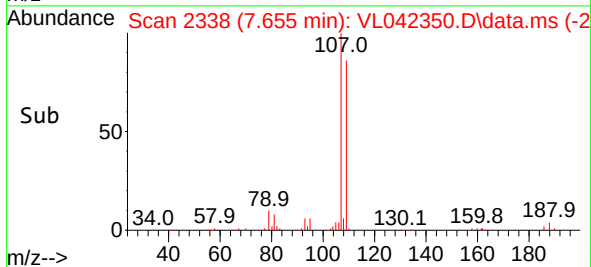
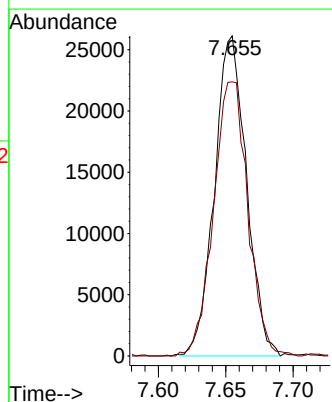
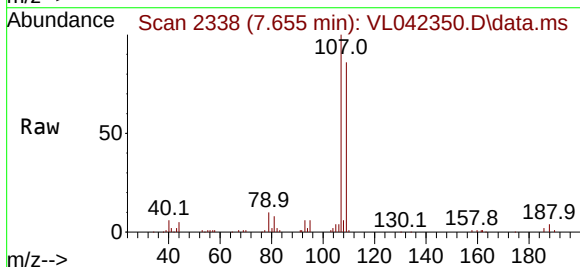
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MSVOA\_L  
ClientSampleId :  
VSTDIC002

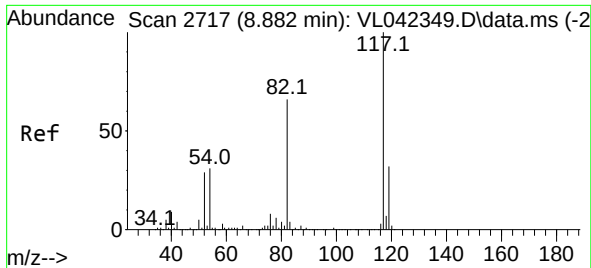
Tgt Ion: 91 Resp: 97493  
Ion Ratio Lower Upper  
91 100  
92 59.1 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 2.076 ppbv  
RT: 7.655 min Scan# 2338  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 107 Resp: 43153  
Ion Ratio Lower Upper  
107 100  
109 84.5 78.2 117.4

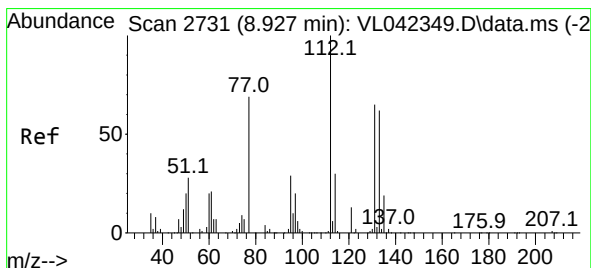
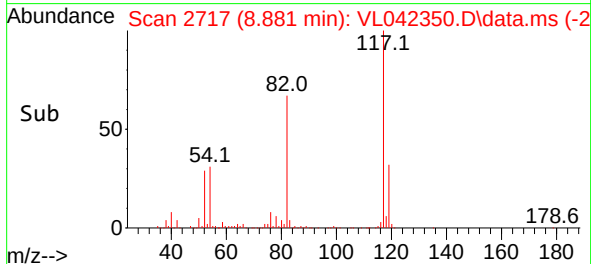
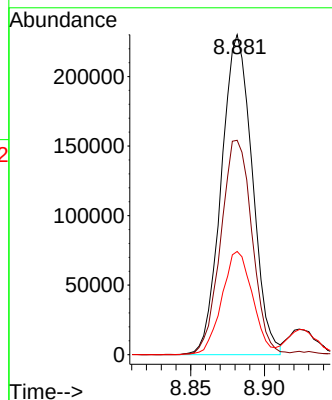
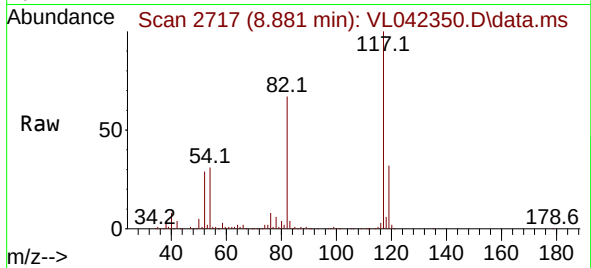




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

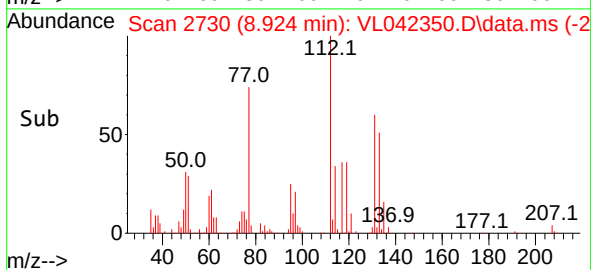
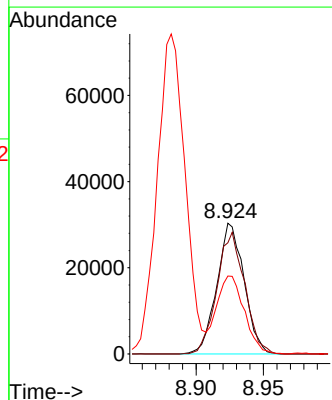
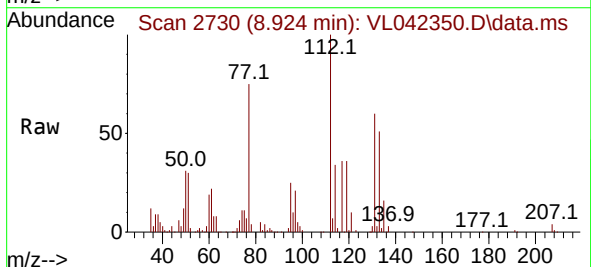
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

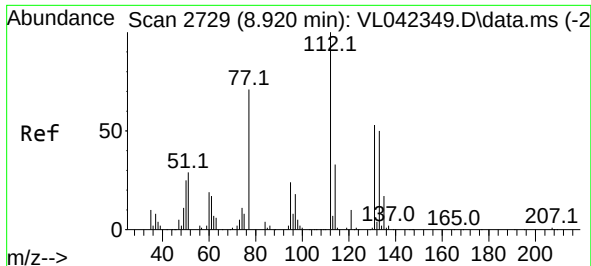
Tgt Ion:117 Resp: 335603  
Ion Ratio Lower Upper  
117 100  
82 68.8 57.8 86.6  
119 32.2 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 2.097 ppbv  
RT: 8.924 min Scan# 2730  
Delta R.T. -0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601  
Ion Ratio Lower Upper  
131 100  
133 95.3 78.3 117.5  
119 53.8 48.7 73.1

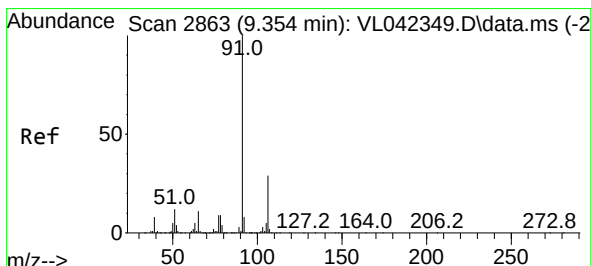
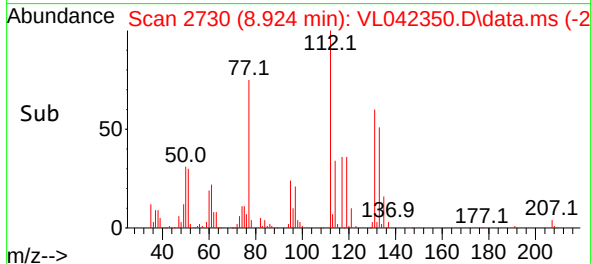
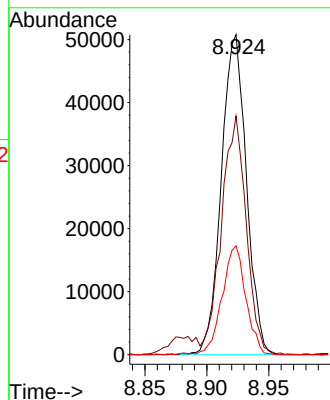
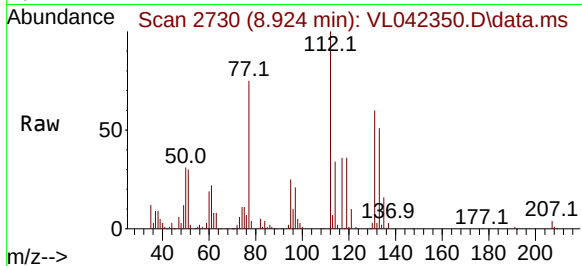




#57  
Chlorobenzene  
Concen: 2.054 ppbv  
RT: 8.924 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

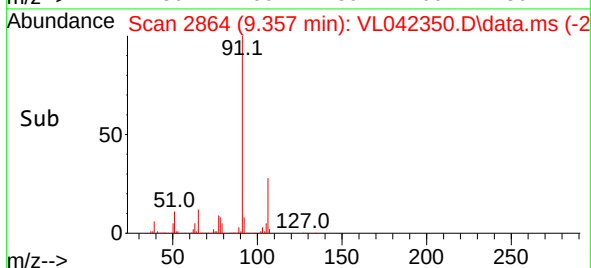
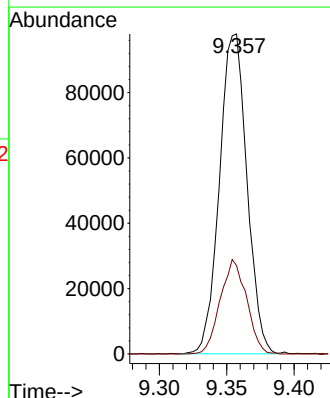
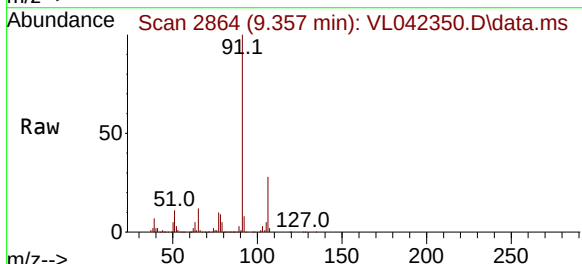
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

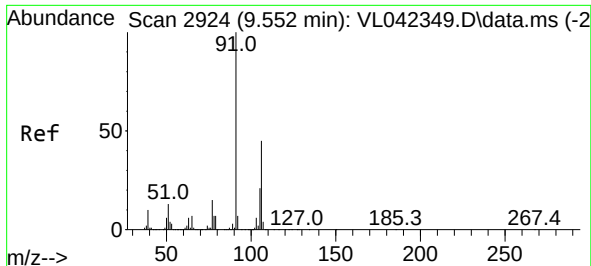
Tgt Ion:112 Resp: 71685  
Ion Ratio Lower Upper  
112 100  
77 74.0 57.8 86.6  
114 34.0 29.3 35.9



#58  
Ethyl Benzene  
Concen: 2.088 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810  
Ion Ratio Lower Upper  
91 100  
106 27.7 23.0 34.4





#59

m/p-Xylene

Concen: 1.934 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

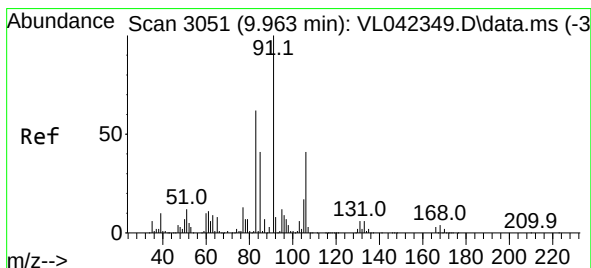
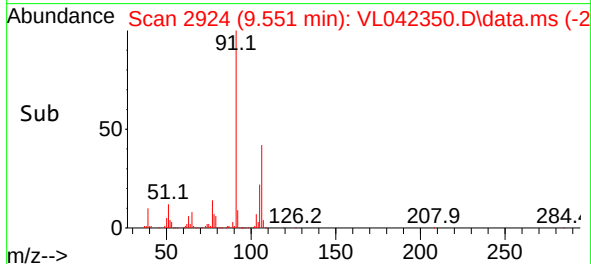
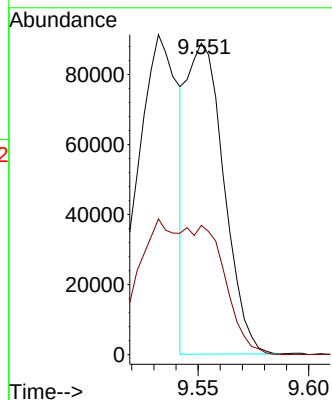
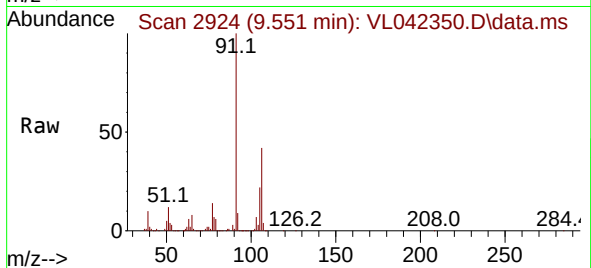
VSTDIC002

Tgt Ion: 91 Resp: 103886

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 2.076 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

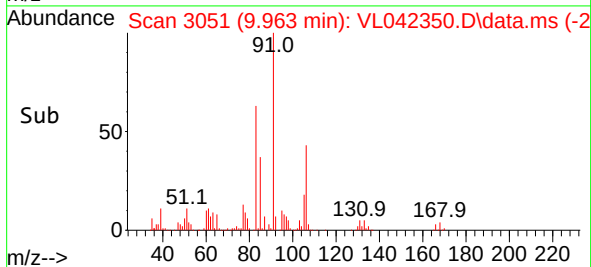
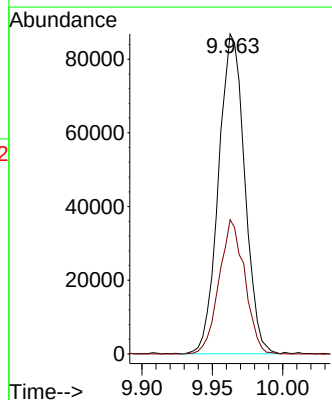
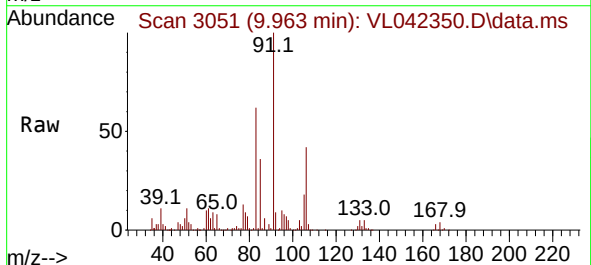
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 111972

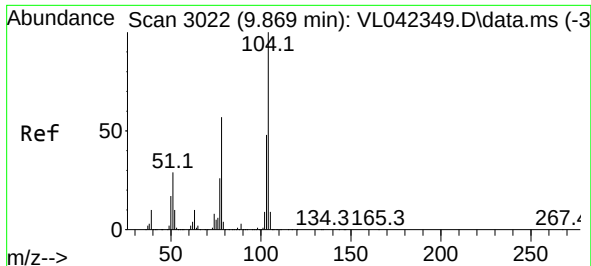
Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4



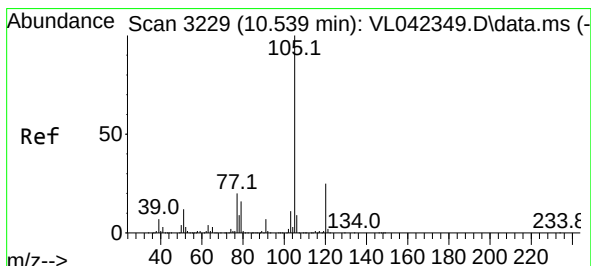
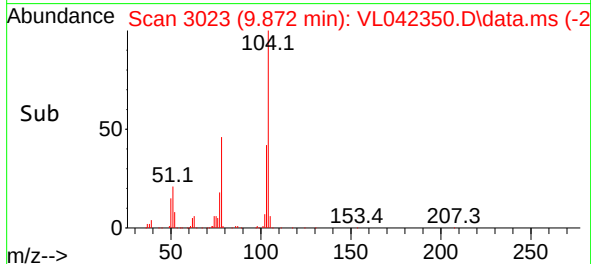
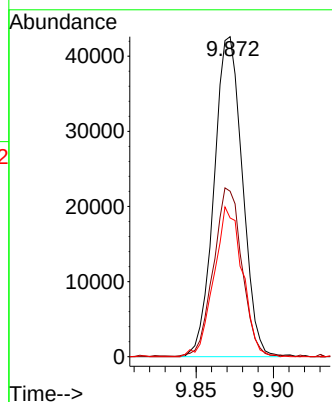
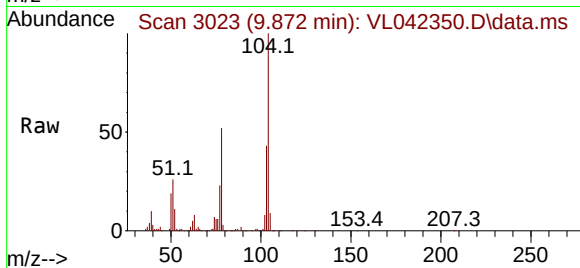




#61  
Styrene  
Concen: 2.106 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.003 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

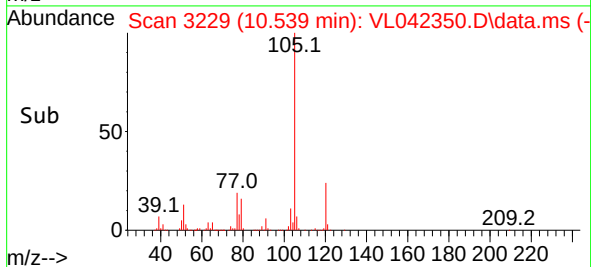
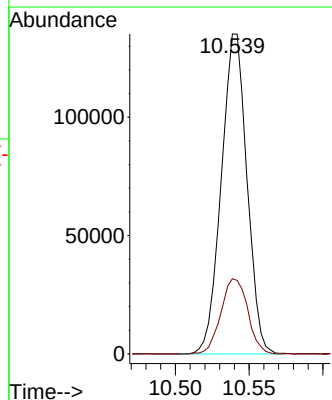
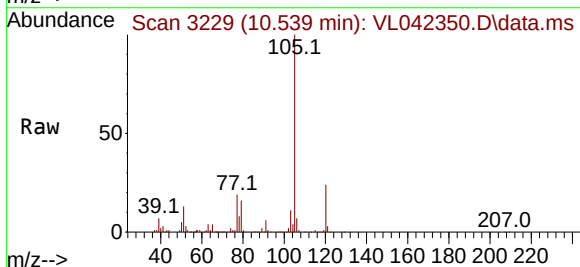
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

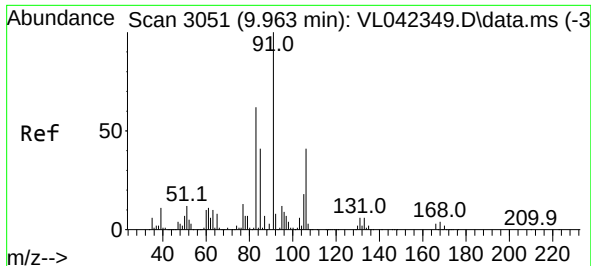
Tgt Ion:104 Resp: 54229  
Ion Ratio Lower Upper  
104 100  
78 53.4 44.6 66.8  
103 47.1 37.4 56.0



#62  
Isopropylbenzene  
Concen: 2.067 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716  
Ion Ratio Lower Upper  
105 100  
120 24.6 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 1.853 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

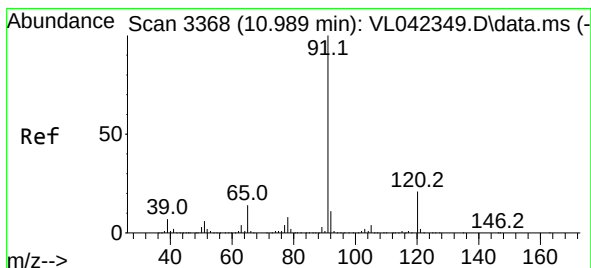
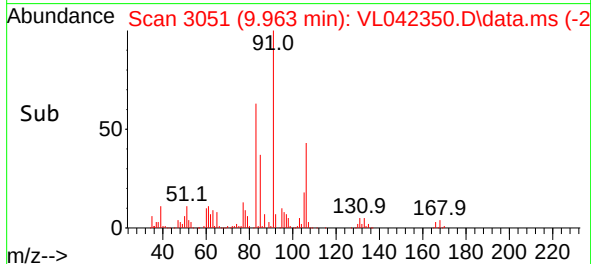
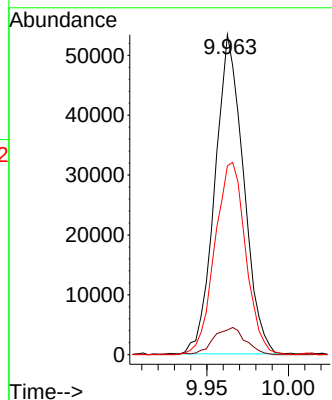
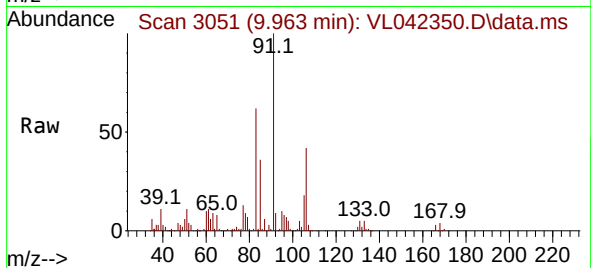
Tgt Ion: 83 Resp: 64952

Ion Ratio Lower Upper

83 100

131 9.6 4.5 13.7

85 65.4 32.4 97.0



#64

n-propylbenzene

Concen: 2.058 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL042350.D

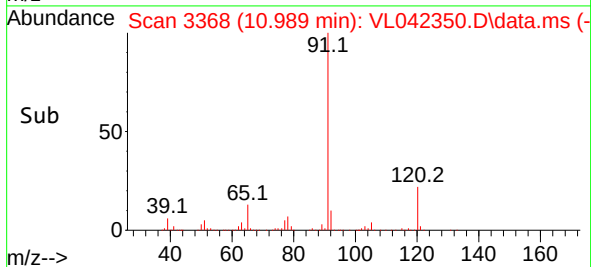
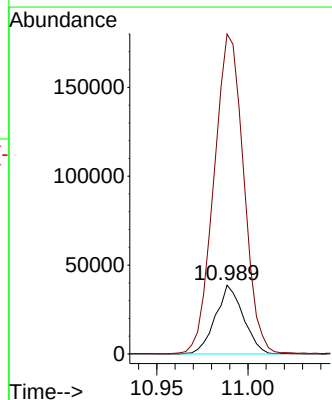
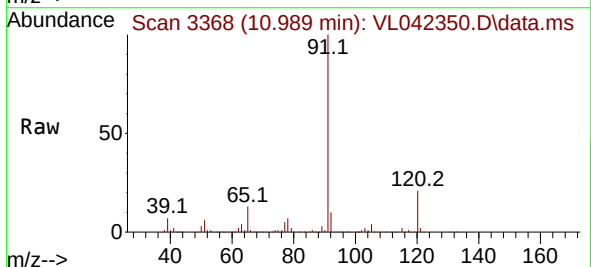
Acq: 17 Apr 2025 10:17

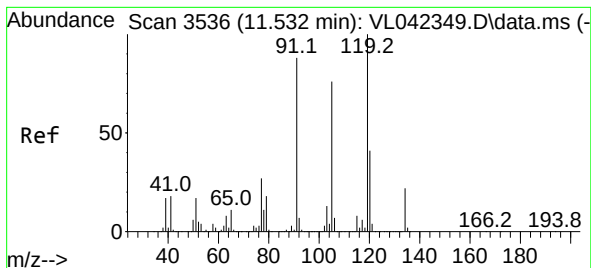
Tgt Ion:120 Resp: 40956

Ion Ratio Lower Upper

120 100

91 502.0 392.4 588.6





#65

tert-Butylbenzene

Concen: 2.135 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

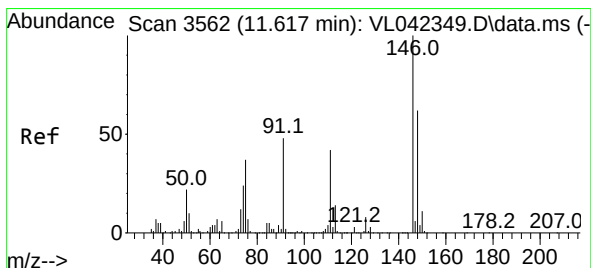
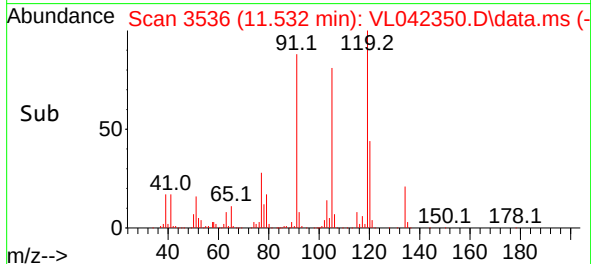
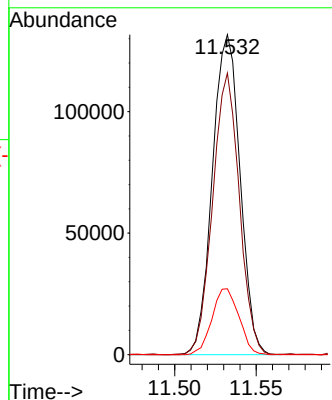
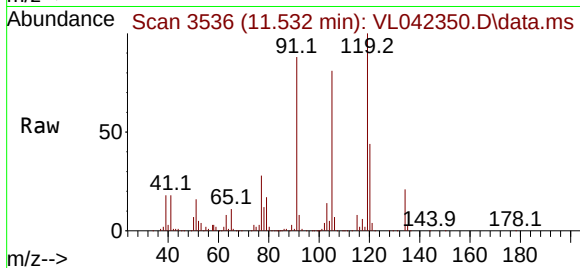
Tgt Ion:119 Resp: 155401

Ion Ratio Lower Upper

119 100

91 85.0 74.6 111.8

134 20.1 18.8 28.2



#66

Benzyl Chloride

Concen: 2.163 ppbv

RT: 11.616 min Scan# 3562

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

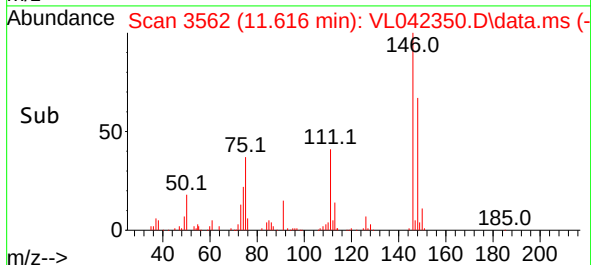
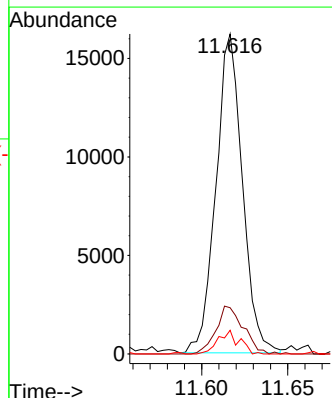
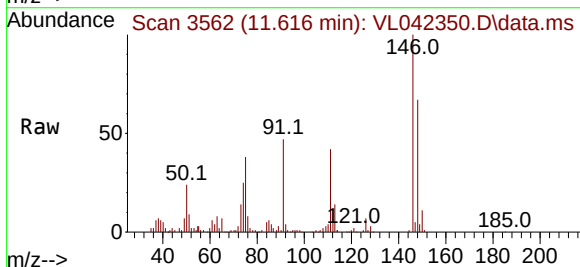
Tgt Ion: 91 Resp: 17300

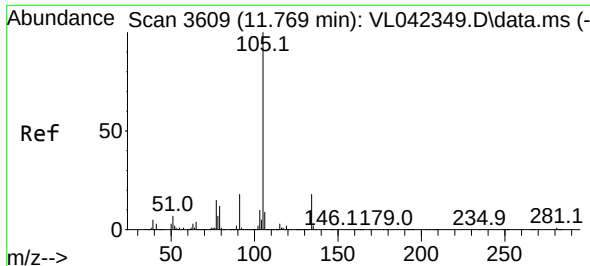
Ion Ratio Lower Upper

91 100

126 15.6 11.8 17.6

128 6.1 4.5 6.7

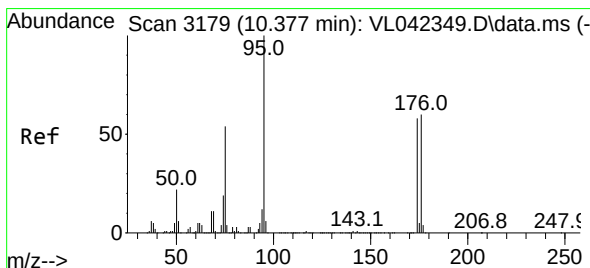
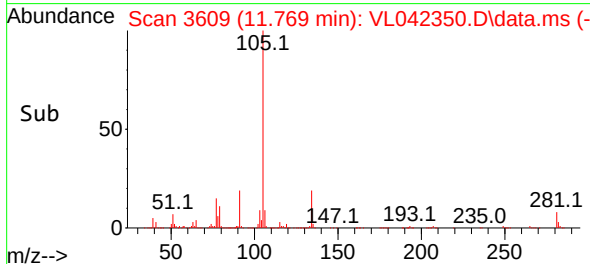
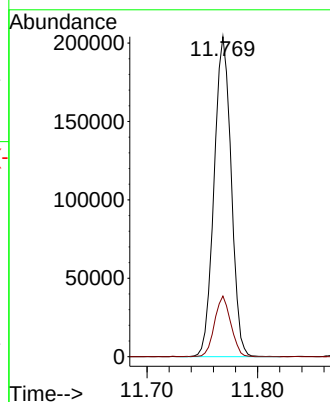
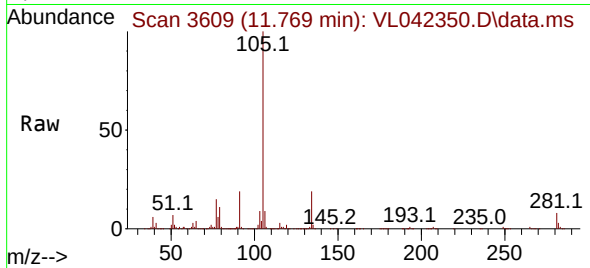




#67  
 sec-Butylbenzene  
 Concen: 2.156 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

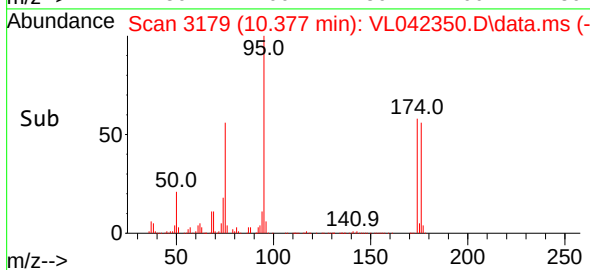
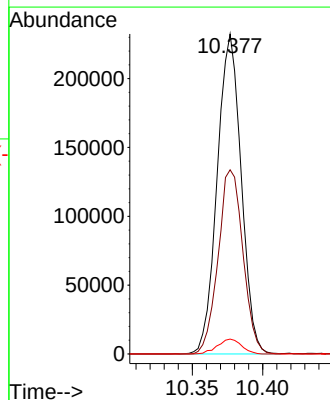
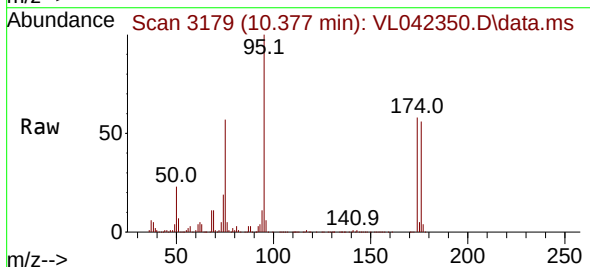
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

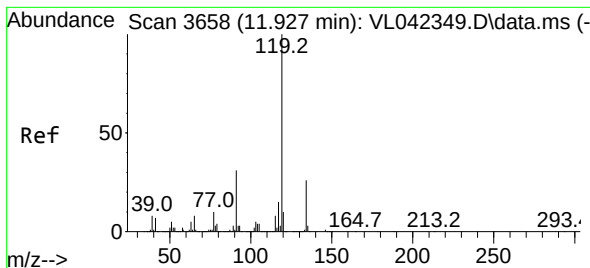
Tgt Ion:105 Resp: 218327  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.998 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715  
 Ion Ratio Lower Upper  
 95 100  
 174 59.6 48.5 72.7  
 175 4.7 3.7 5.5

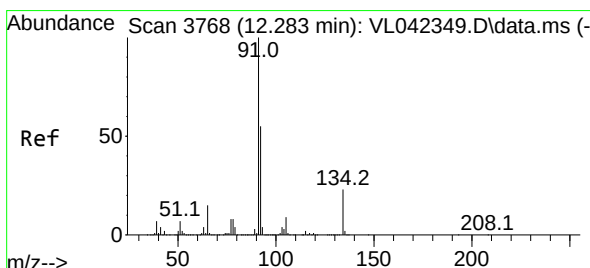
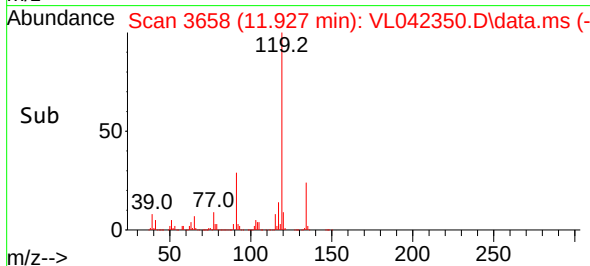
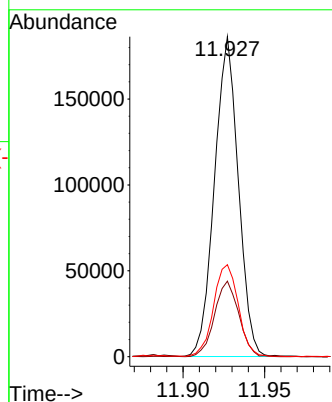
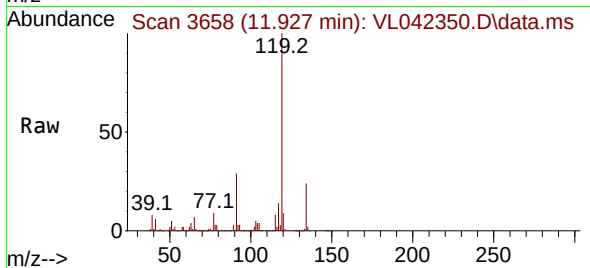




#69  
 p-Isopropyltoluene  
 Concen: 2.145 ppbv  
 RT: 11.927 min Scan# 3658  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

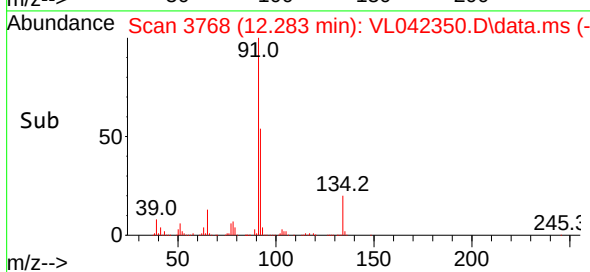
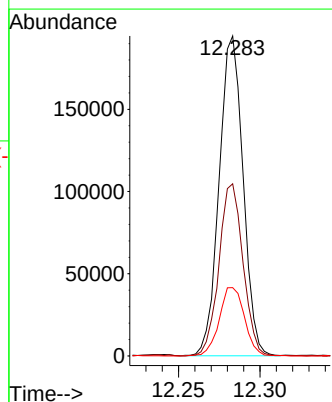
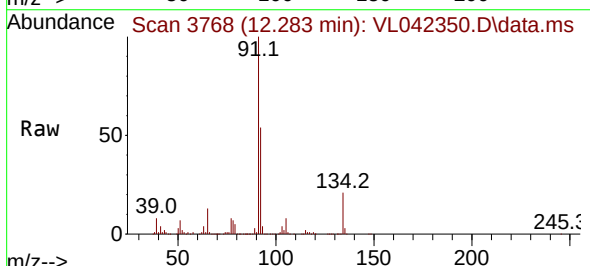
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

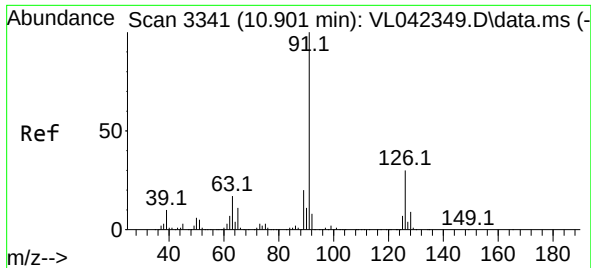
Tgt Ion: 119 Resp: 188657  
 Ion Ratio Lower Upper  
 119 100  
 134 24.2 20.0 30.0  
 91 30.8 24.4 36.6



#70  
 n-Butylbenzene  
 Concen: 2.164 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221  
 Ion Ratio Lower Upper  
 91 100  
 92 54.4 44.2 66.4  
 134 22.6 18.2 27.4

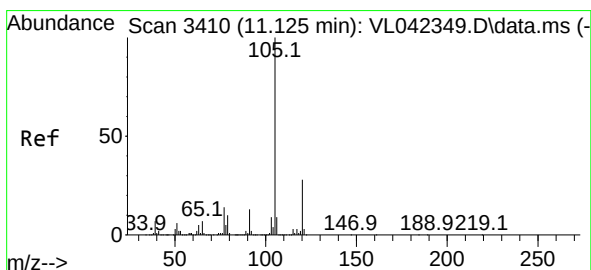
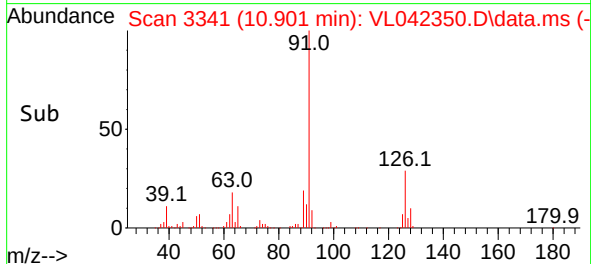
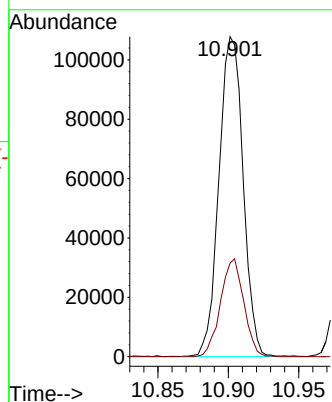
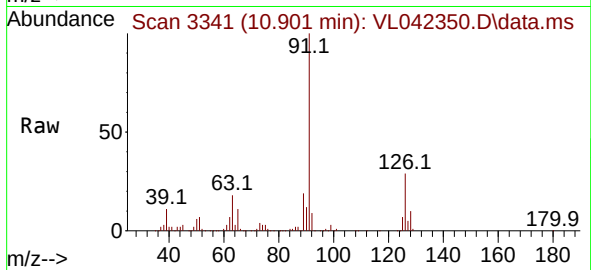




#71  
2-Chlorotoluene  
Concen: 2.075 ppbv  
RT: 10.901 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

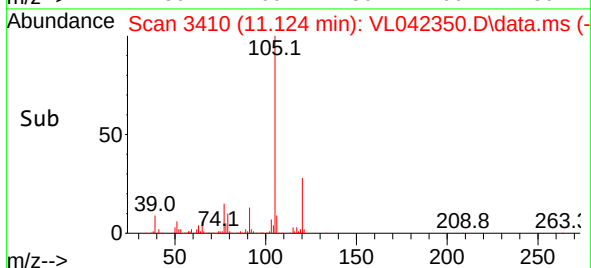
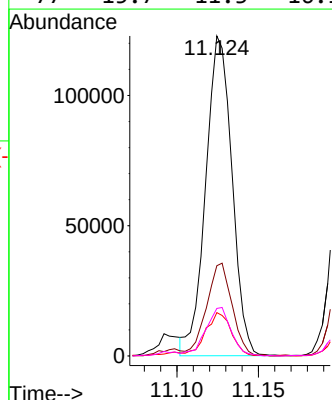
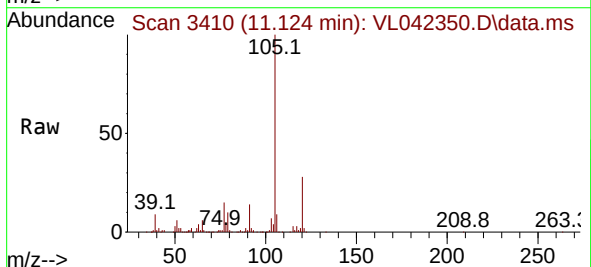
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

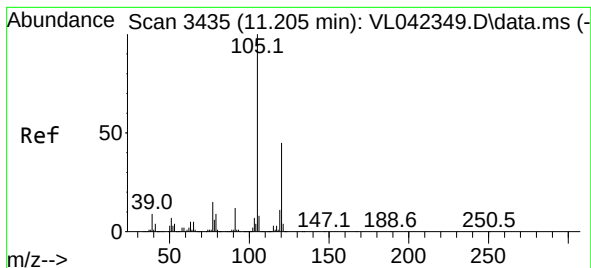
Tgt Ion: 91 Resp: 128858  
Ion Ratio Lower Upper  
91 100  
126 29.5 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 2.091 ppbv  
RT: 11.124 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL042350.D  
Acq: 17 Apr 2025 10:17

Tgt Ion: 105 Resp: 137872  
Ion Ratio Lower Upper  
105 100  
120 30.1 23.2 34.8  
91 14.4 10.4 15.6  
77 15.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 2.123 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

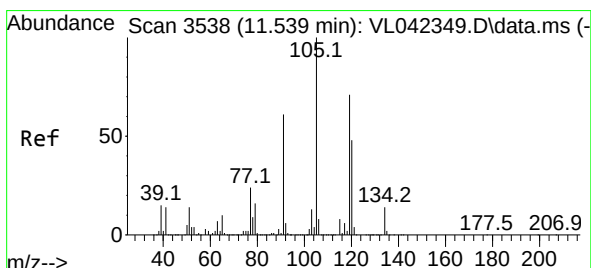
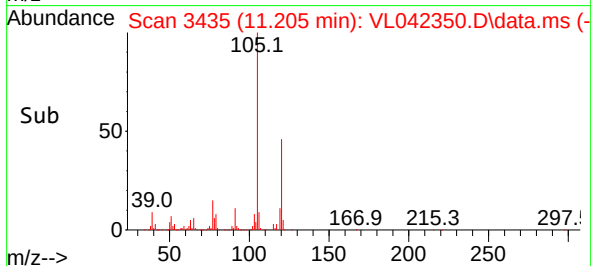
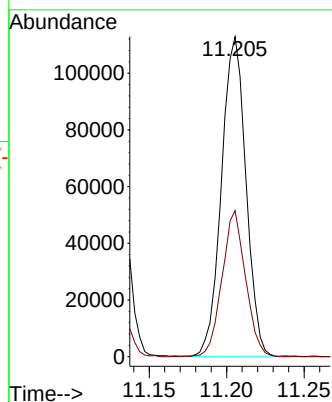
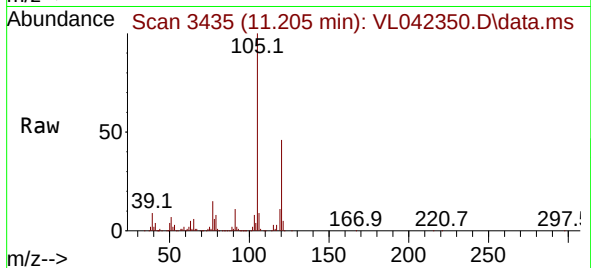
VSTDIC002

Tgt Ion:105 Resp: 123580

Ion Ratio Lower Upper

105 100

120 45.7 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 2.140 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

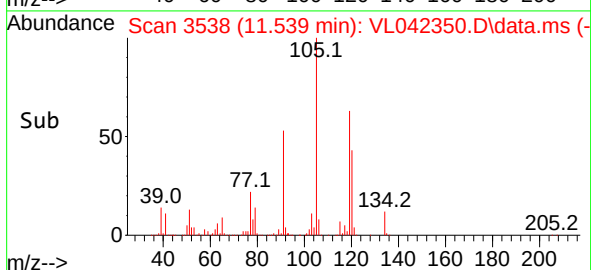
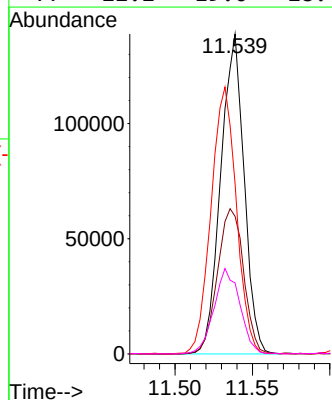
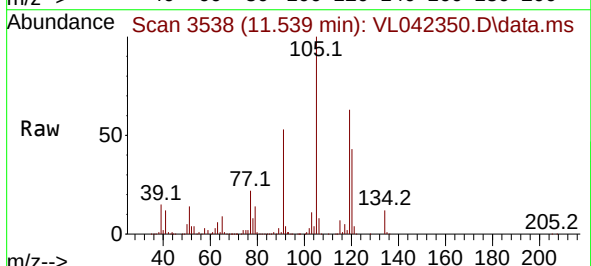
Ion Ratio Lower Upper

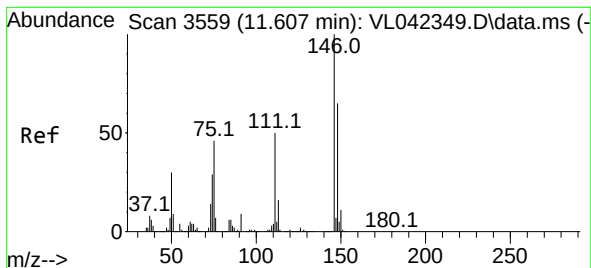
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

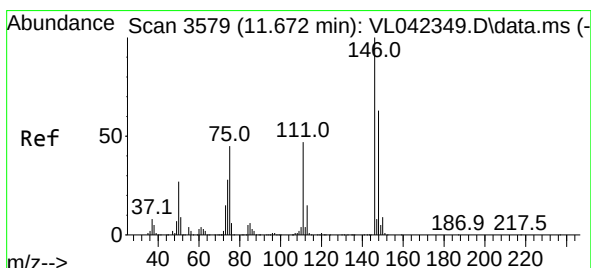
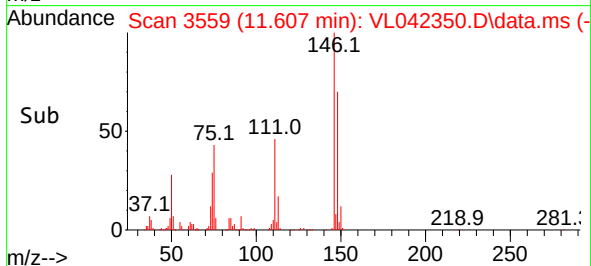
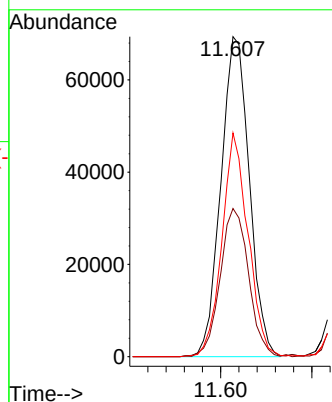
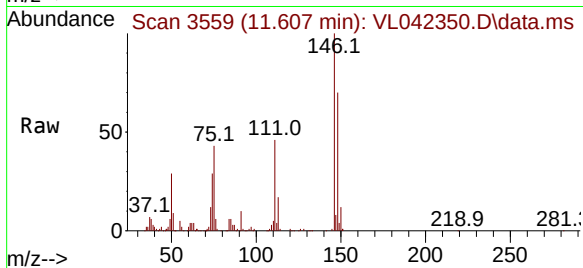
Tgt Ion:146 Resp: 75082

Ion Ratio Lower Upper

146 100

111 46.3 24.3 72.8

148 64.3 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 2.120 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

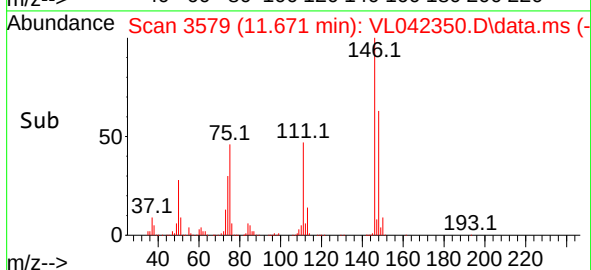
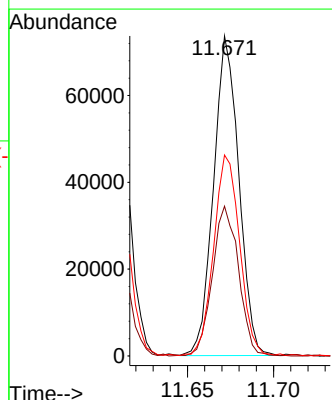
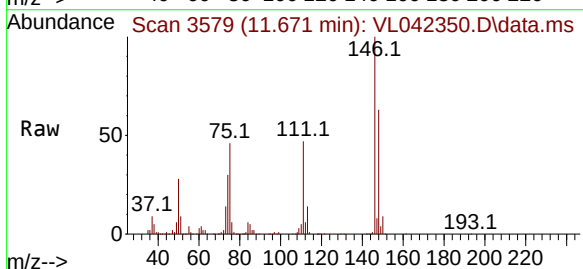
Tgt Ion:146 Resp: 75323

Ion Ratio Lower Upper

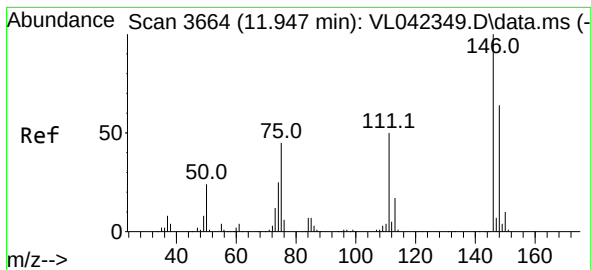
146 100

111 48.4 24.2 72.6

148 65.1 32.1 96.5







#77

1,2-Dichlorobenzene

Concen: 2.176 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

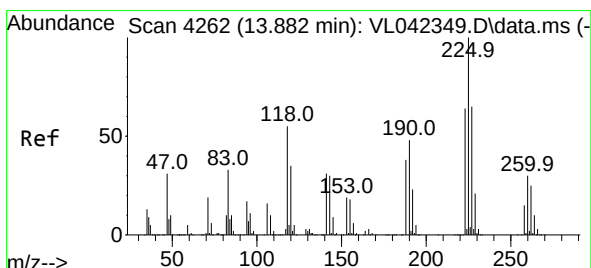
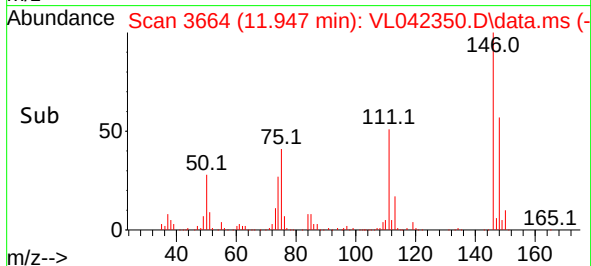
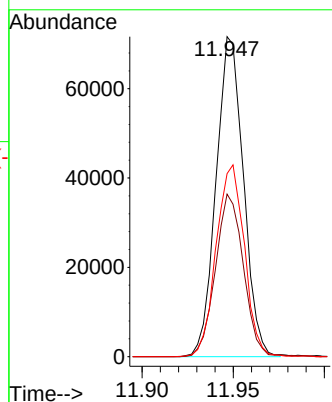
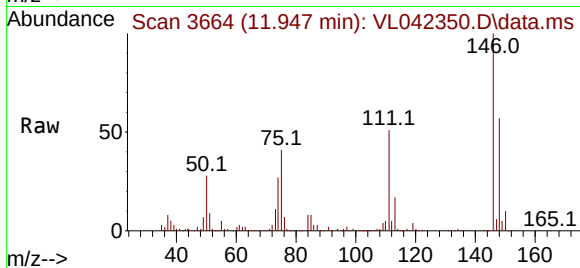
Tgt Ion:146 Resp: 74786

Ion Ratio Lower Upper

146 100

111 52.0 25.3 75.9

148 61.8 31.5 94.5



#78

Hexachloro-1,3-Butadiene

Concen: 2.194 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

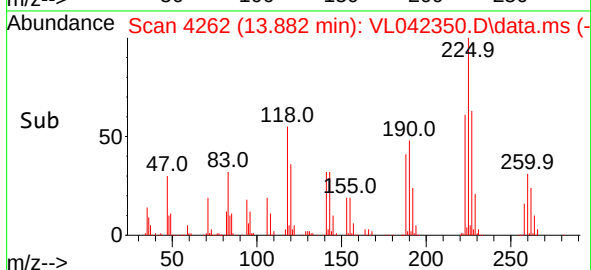
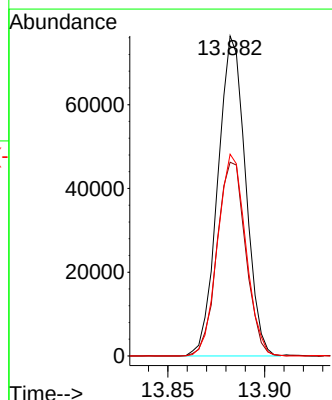
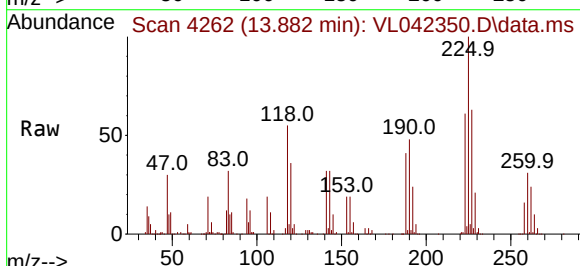
Tgt Ion:225 Resp: 76158

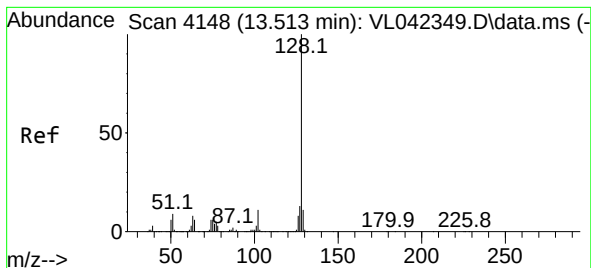
Ion Ratio Lower Upper

225 100

223 62.6 50.3 75.5

227 64.1 51.5 77.3





#79

Naphthalene

Concen: 2.401 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC002

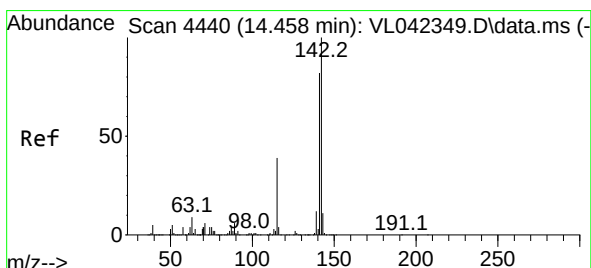
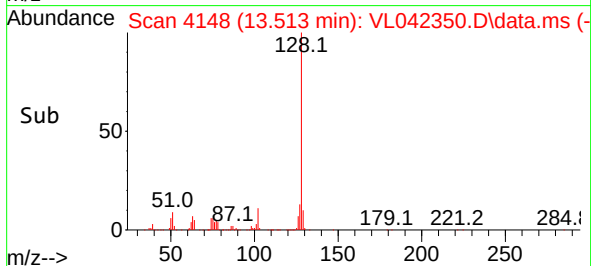
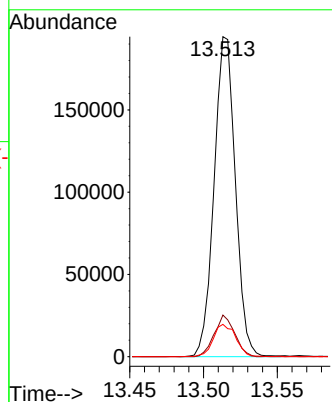
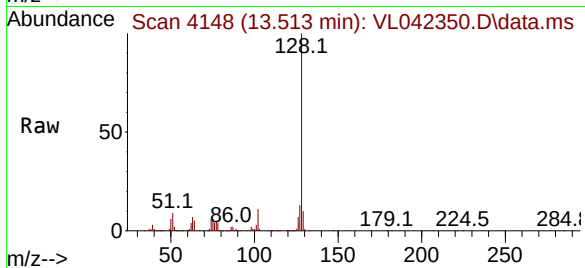
Tgt Ion:128 Resp: 195233

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

129 10.1 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 2.574 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

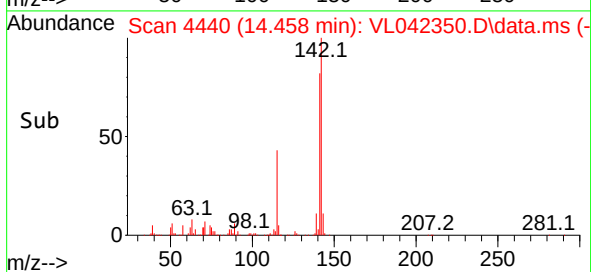
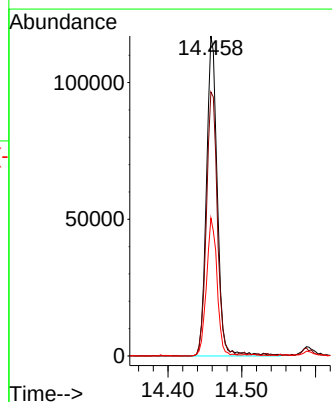
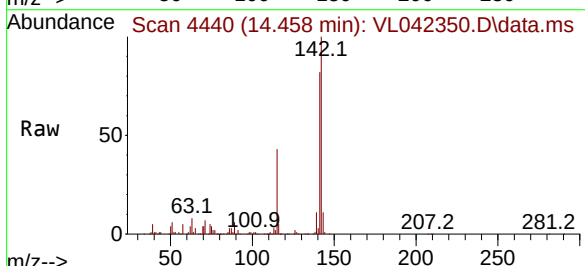
Tgt Ion:142 Resp: 119262

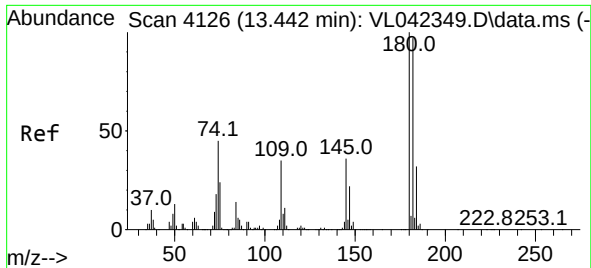
Ion Ratio Lower Upper

142 100

141 84.7 66.8 100.2

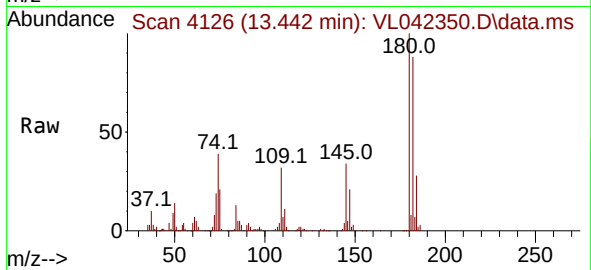
115 42.2 33.4 50.2



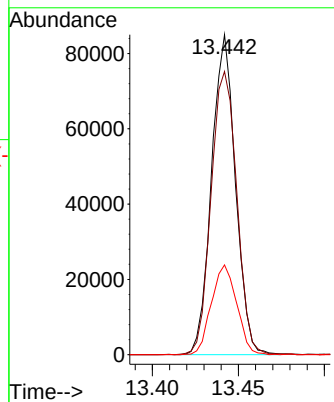
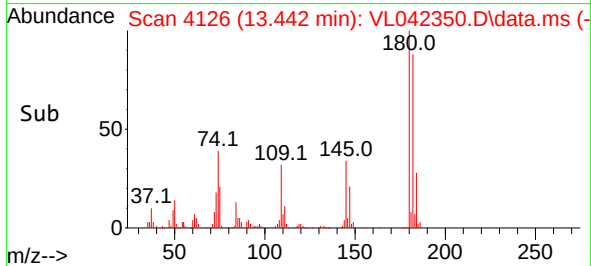


#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.353 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042350.D  
 Acq: 17 Apr 2025 10:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 76.8  | 115.2 |
| 184     | 29.8  | 24.6  | 36.8  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Apr 18 01:27:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 124177   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 359907   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 329090   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 269087   | 9.950    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.500% |

| Target Compounds              |       |     |       |       |        | Qvalue |
|-------------------------------|-------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 22816 | 1.040 | ppbv   | 93     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 20573 | 0.985 | ppbv   | 97     |
| 4) Chloromethane              | 1.535 | 50  | 9008  | 1.038 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 8807  | 0.932 | ppbv   | 98     |
| 6) Bromomethane               | 1.671 | 94  | 4099  | 1.001 | ppbv   | 91     |
| 7) Chloroethane               | 1.706 | 64  | 3559  | 1.041 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 19251 | 1.022 | ppbv   | 100    |
| 9) Propene                    | 1.486 | 41  | 9892  | 1.040 | ppbv   | 92     |
| 10) Heptane                   | 4.982 | 43  | 16193 | 0.633 | ppbv # | 49     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 22428 | 1.075 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 17865 | 1.047 | ppbv   | 98     |
| 13) Ethanol                   | 1.722 | 45  | 810   | 1.042 | ppbv # | 43     |
| 14) Bromoethene               | 1.784 | 108 | 6766  | 1.052 | ppbv # | 89     |
| 15) Acetone                   | 1.839 | 43  | 23537 | 1.158 | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 9495  | 0.995 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 26477 | 1.051 | ppbv # | 90     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 7890  | 0.962 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 12175 | 1.078 | ppbv # | 39     |
| 20) Methylene Chloride        | 2.062 | 84  | 9046  | 1.136 | ppbv   | 87     |
| 21) Allyl Chloride            | 2.098 | 41  | 15057 | 1.073 | ppbv   | 91     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 9421  | 1.038 | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.467 | 43  | 9234  | 1.122 | ppbv # | 90     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 18236 | 1.058 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.842 | 43  | 51494 | 1.027 | ppbv # | 97     |
| 26) Hexane                    | 2.826 | 57  | 21350 | 1.053 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.153 | 76  | 20739 | 0.955 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 14164 | 1.066 | ppbv # | 85     |
| 29) Chloroform                | 2.852 | 83  | 28973 | 1.011 | ppbv   | 100    |
| 30) Cyclohexane               | 3.862 | 84  | 8430  | 0.516 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 19904 | 1.032 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 31653 | 1.030 | ppbv   | 98     |
| 34) 2-Butanone                | 2.564 | 43  | 29735 | 1.045 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 29875 | 0.917 | ppbv   | 94     |
| 36) Benzene                   | 3.661 | 78  | 38707 | 0.997 | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 23284 | 0.999 | ppbv   | 97     |
| 38) Trichloroethene           | 4.551 | 130 | 16119 | 0.947 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 14866 | 1.027 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 4.603 | 88  | 967   | 0.123 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 3.062 | 42  | 17259 | 1.049 | ppbv   | 96     |
| 42) Bromodichloromethane      | 4.490 | 83  | 32721 | 1.009 | ppbv # | 98     |
| 43) Methyl Methacrylate       | 4.885 | 69  | 13084 | 0.751 | ppbv # | 47     |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 28653 | 0.427 | ppbv # | 21     |
| 45) t-1,3-Dichloropropene     | 6.416 | 75  | 11763 | 0.658 | ppbv   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042351.D  
 Acq On : 17 Apr 2025 10:48  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

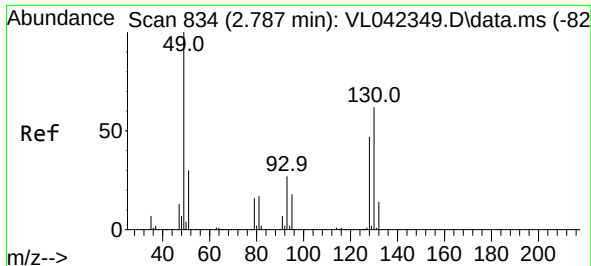
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Apr 18 01:27:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 13028    | 0.596 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 7690     | 0.521 | ppbv # | 78       |
| 48) Dibromochloromethane      | 7.390  | 129  | 25948    | 0.997 | ppbv   | 100      |
| 49) Bromoform                 | 9.484  | 173  | 22413    | 0.984 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 49725    | 1.049 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.445  | 43   | 47178    | 1.103 | ppbv   | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 14154    | 0.943 | ppbv   | 93       |
| 53) Toluene                   | 6.940  | 91   | 46611    | 1.001 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 21780    | 1.036 | ppbv   | 93       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 21052    | 1.057 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.921  | 112  | 35113    | 1.026 | ppbv # | 95       |
| 58) Ethyl Benzene             | 9.354  | 91   | 68703    | 1.054 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.552  | 91   | 48794    | 0.926 | ppbv # | 32       |
| 60) o-Xylene                  | 9.966  | 91   | 55831    | 1.056 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 25544    | 1.012 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.542 | 105  | 81286    | 1.047 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 32410    | 0.943 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 19898    | 1.019 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 77598    | 1.087 | ppbv   | 92       |
| 66) Benzyl Chloride           | 11.617 | 91   | 7864     | 1.003 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 105919   | 1.067 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 92733    | 1.075 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.284 | 91   | 96306    | 1.072 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 63321    | 1.040 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 69698    | 1.078 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 60927    | 1.067 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 73888    | 1.108 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 36877    | 1.064 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 36692    | 1.053 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 35977    | 1.068 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 37377    | 1.098 | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 90710    | 1.138 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 50487    | 1.111 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 36764    | 1.074 | ppbv   | 99       |

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

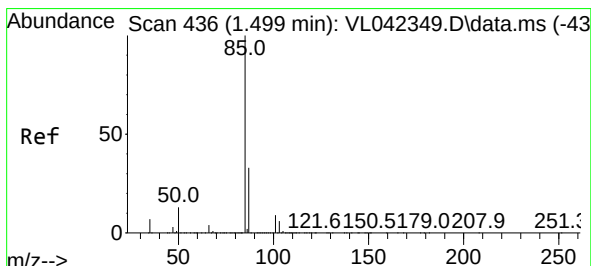
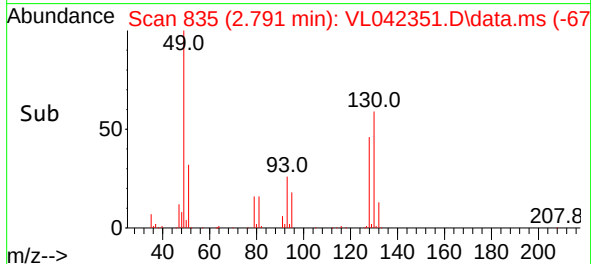
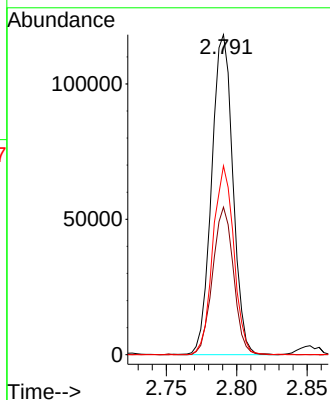
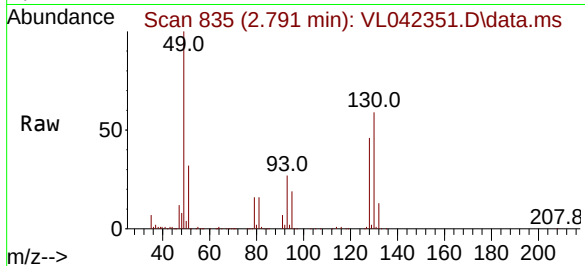




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 834  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

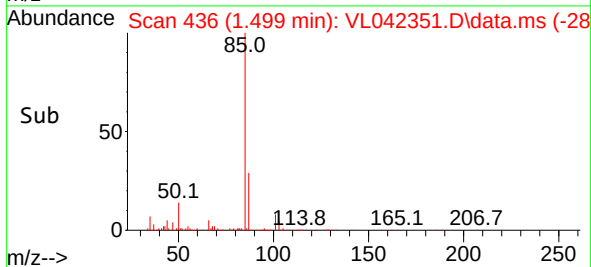
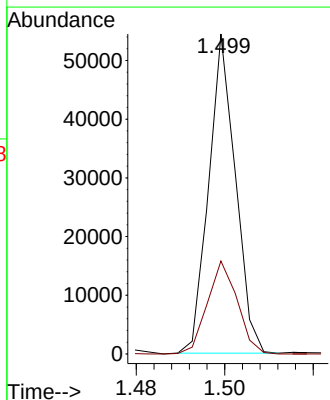
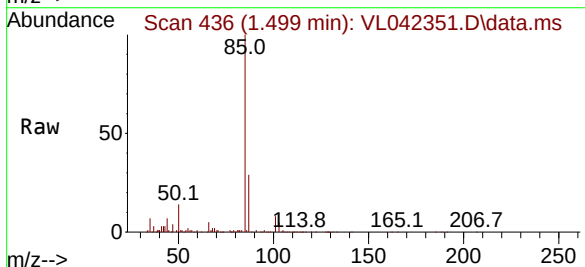
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

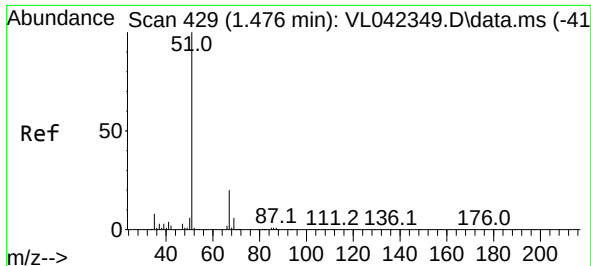
Tgt Ion: 49 Resp: 124177  
Ion Ratio Lower Upper  
49 100  
128 45.2 22.8 68.4  
130 58.1 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 1.040 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816  
Ion Ratio Lower Upper  
85 100  
87 29.1 26.6 39.8

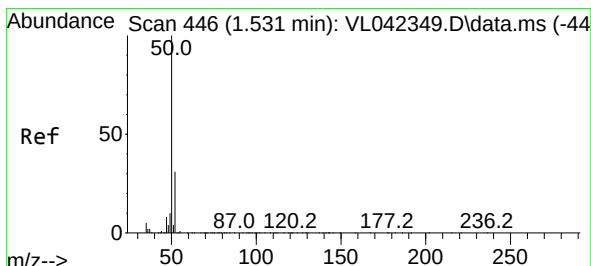
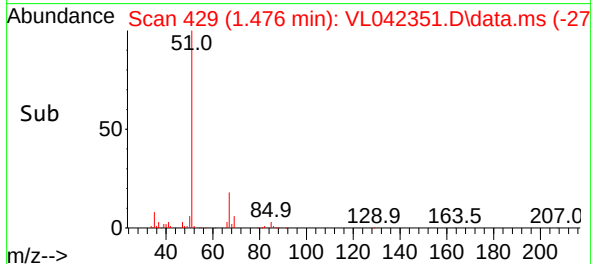
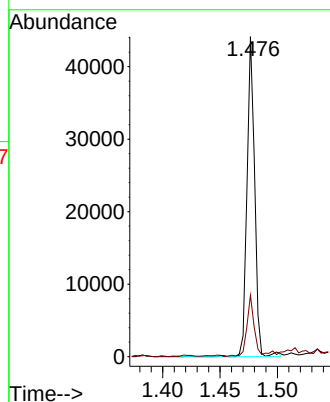
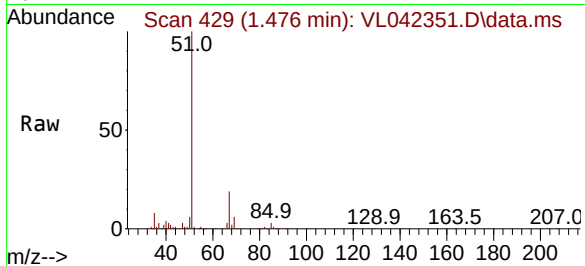




#3  
Chlorodifluoromethane  
Concen: 0.985 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

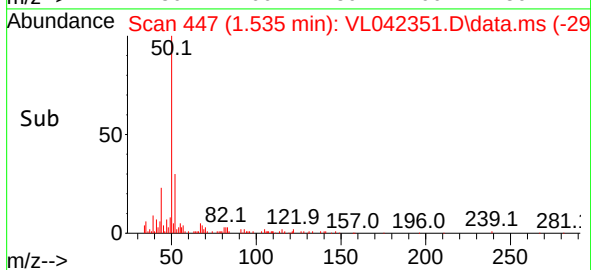
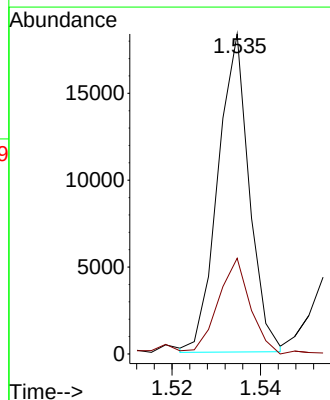
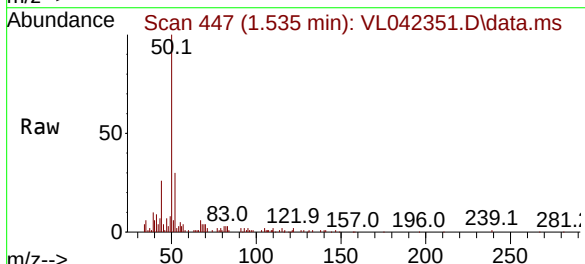
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion: 51 Resp: 20573  
Ion Ratio Lower Upper  
51 100  
67 19.1 16.2 24.4

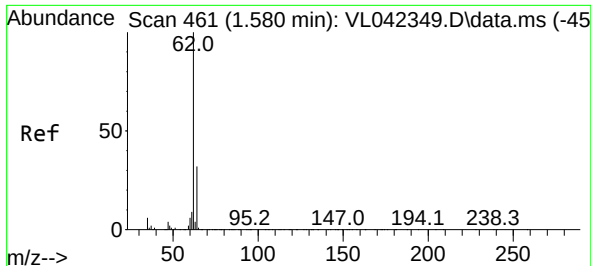


#4  
Chloromethane  
Concen: 1.038 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008  
Ion Ratio Lower Upper  
50 100  
52 30.4 24.7 37.1



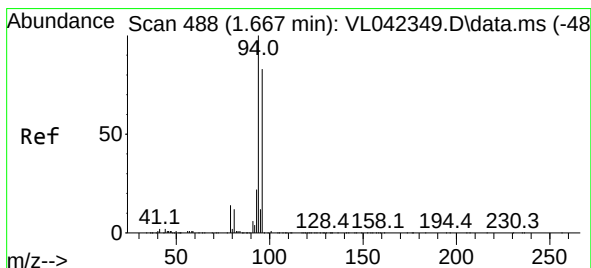
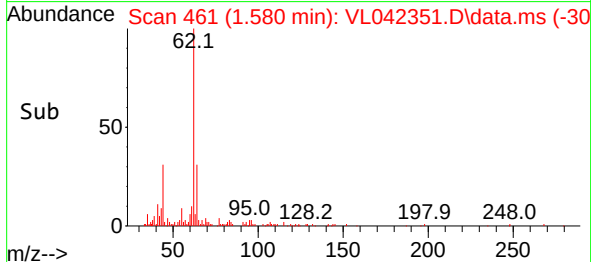
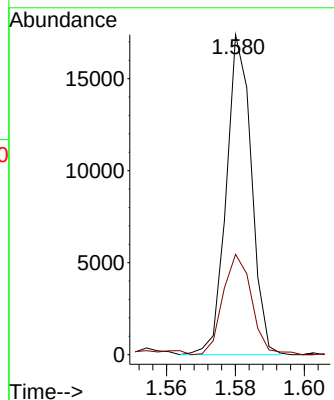
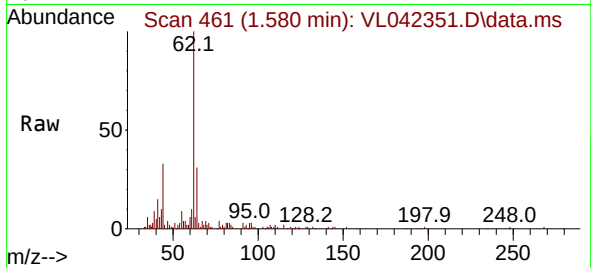




#5  
 Vinyl Chloride  
 Concen: 0.932 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

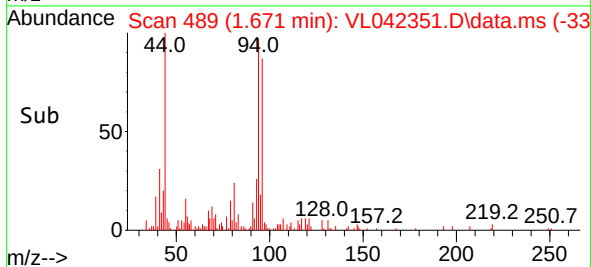
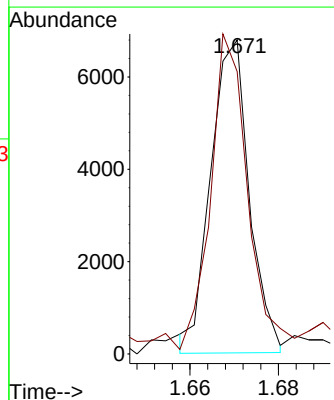
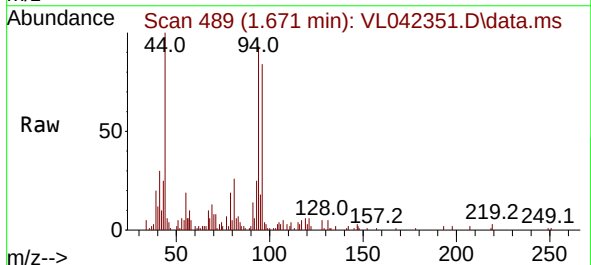
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

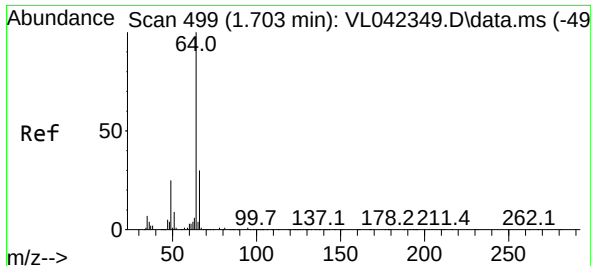
Tgt Ion: 62 Resp: 8807  
 Ion Ratio Lower Upper  
 62 100  
 64 30.5 25.4 38.0



#6  
 Bromomethane  
 Concen: 1.001 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099  
 Ion Ratio Lower Upper  
 94 100  
 96 91.0 66.2 99.2

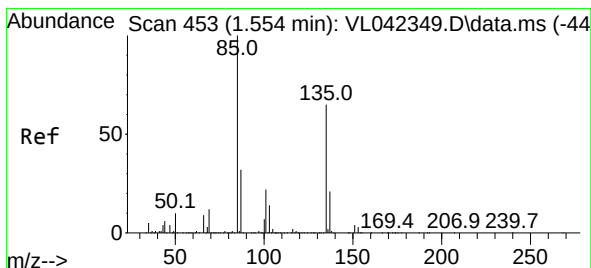
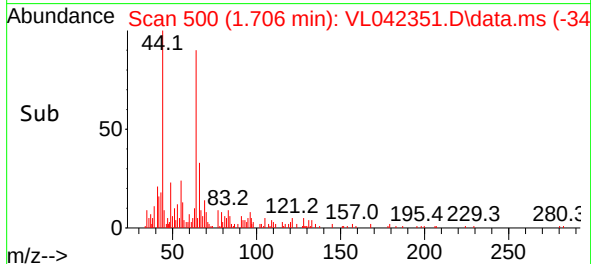
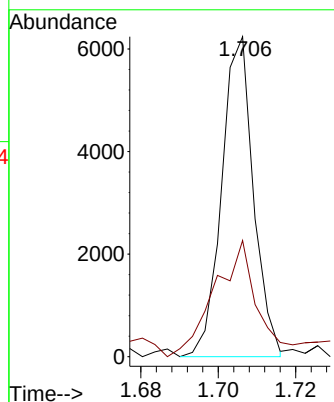
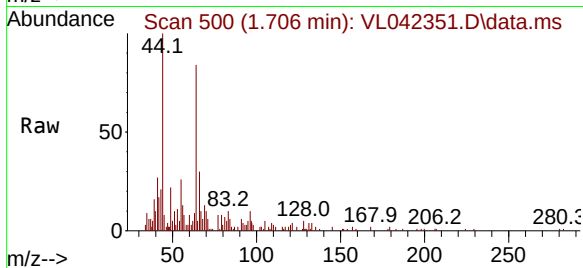




#7  
Chloroethane  
Concen: 1.041 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

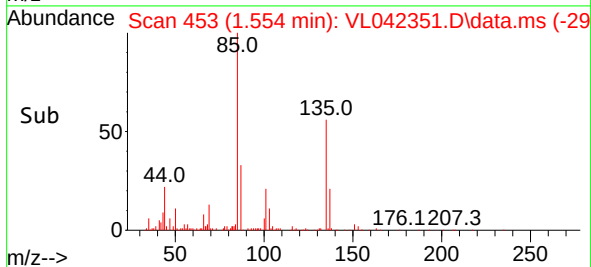
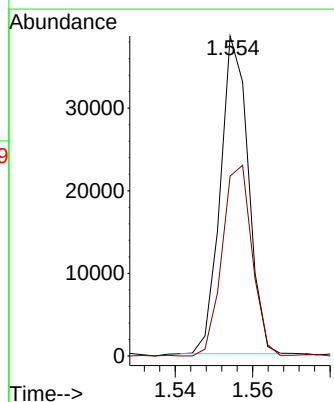
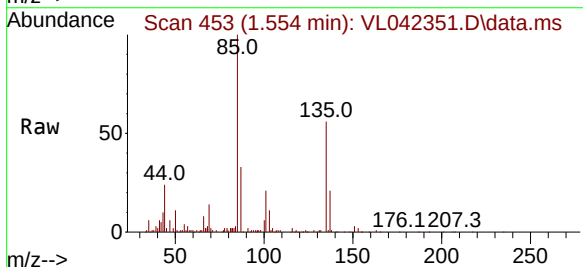
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

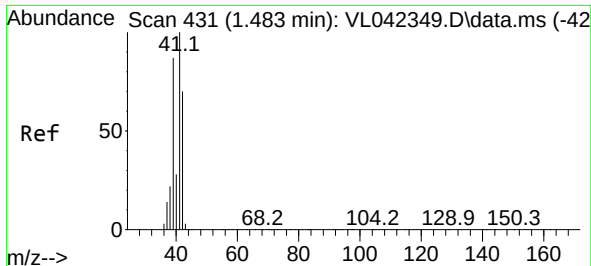
Tgt Ion: 64 Resp: 3559  
Ion Ratio Lower Upper  
64 100  
66 36.3 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 1.022 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251  
Ion Ratio Lower Upper  
85 100  
135 65.2 52.2 78.2





#9

Propene

Concen: 1.040 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

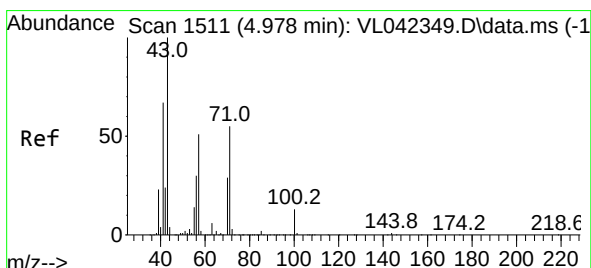
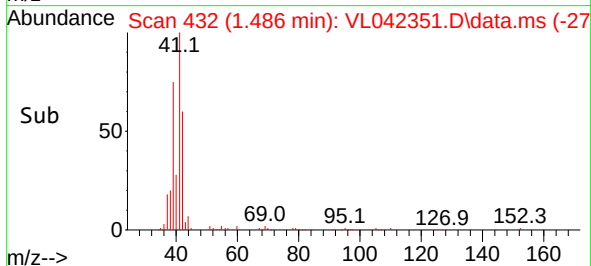
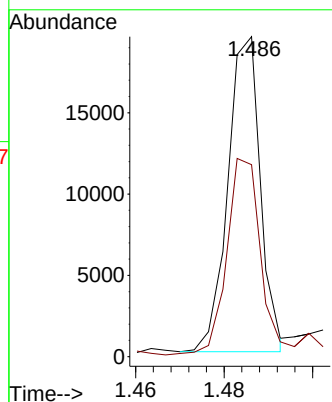
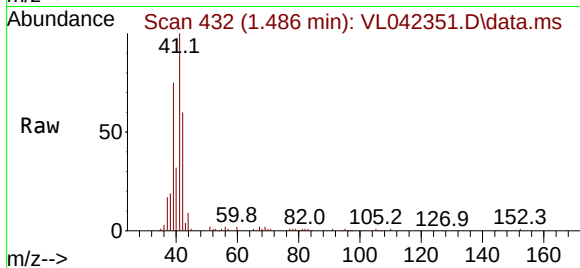
VSTDIC001

Tgt Ion: 41 Resp: 9892

Ion Ratio Lower Upper

41 100

42 77.2 56.2 84.4



#10

Heptane

Concen: 0.633 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042351.D

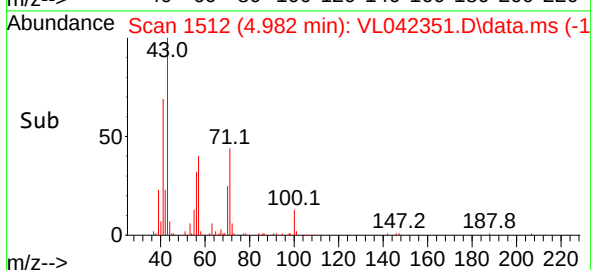
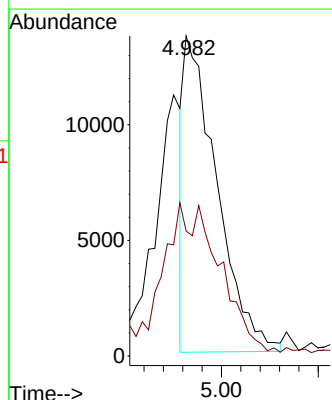
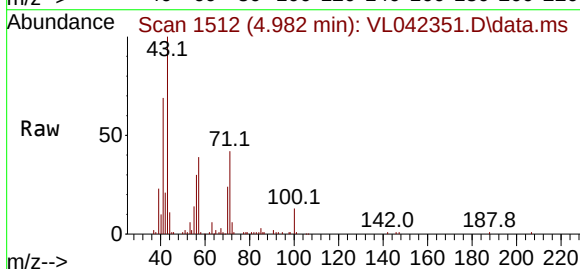
Acq: 17 Apr 2025 10:48

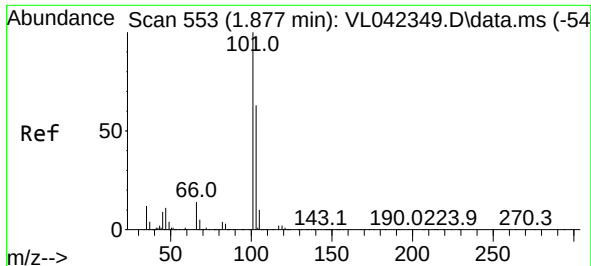
Tgt Ion: 43 Resp: 16193

Ion Ratio Lower Upper

43 100

57 84.7 39.9 59.9#

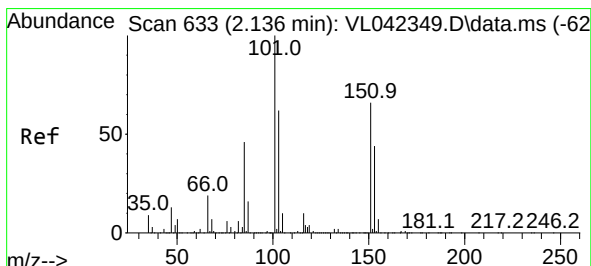
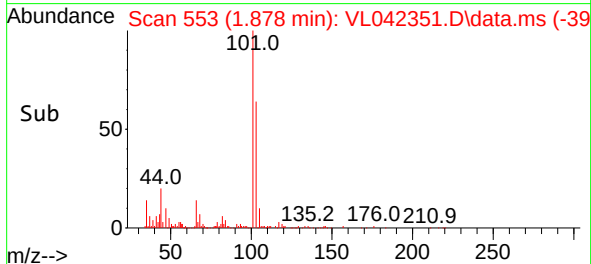
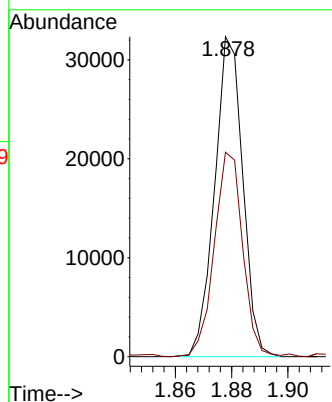
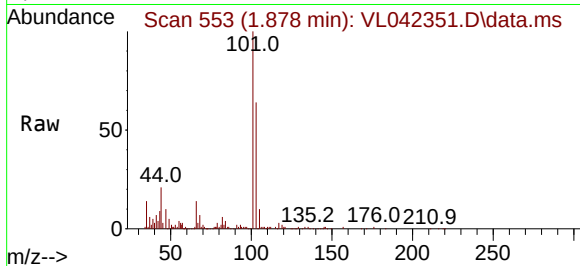




#11  
Trichlorofluoromethane  
Concen: 1.075 ppbv  
RT: 1.878 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

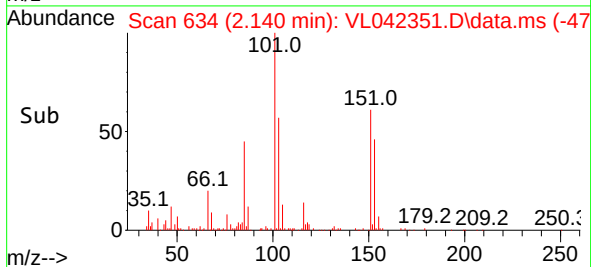
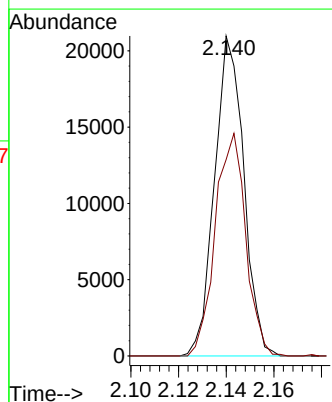
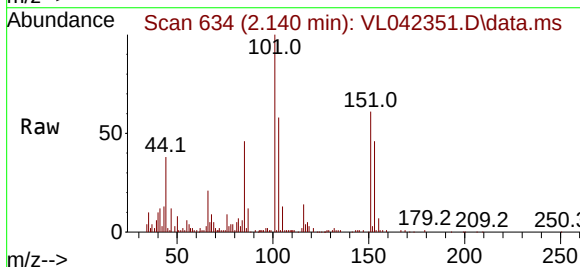
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

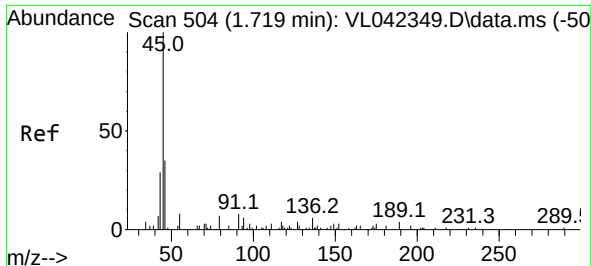
Tgt Ion:101 Resp: 22428  
Ion Ratio Lower Upper  
101 100  
103 63.6 50.1 75.1



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.047 ppbv  
RT: 2.140 min Scan# 634  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865  
Ion Ratio Lower Upper  
101 100  
151 72.6 57.0 85.6

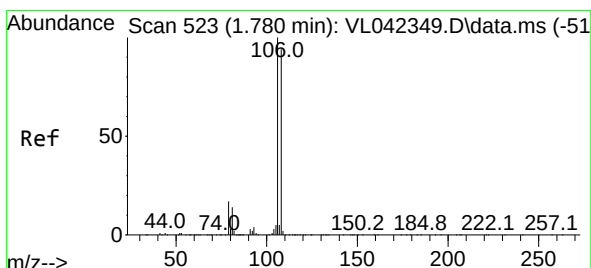
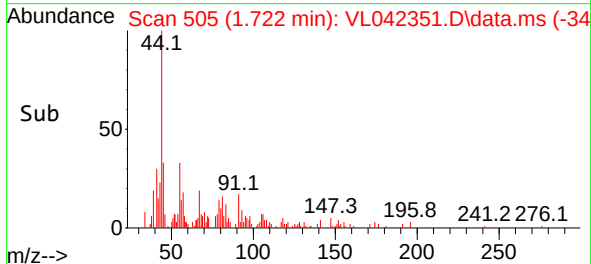
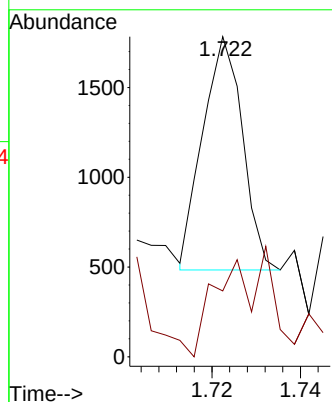
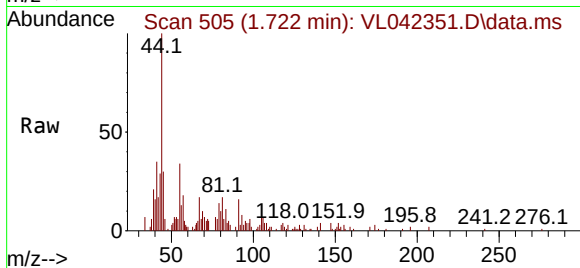




#13  
Ethanol  
Concen: 1.042 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

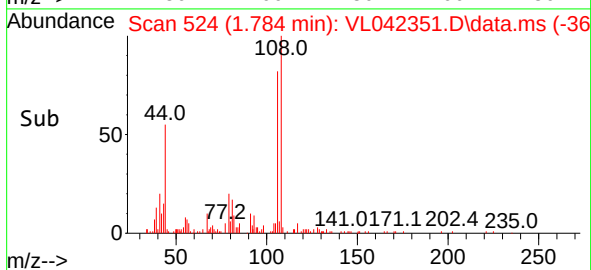
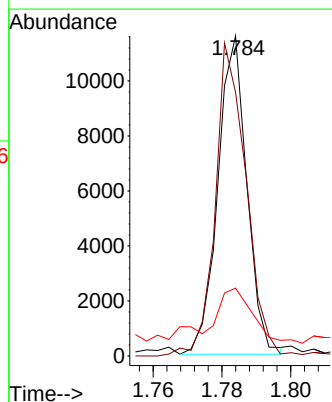
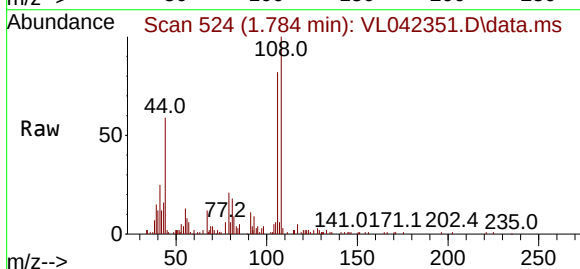
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

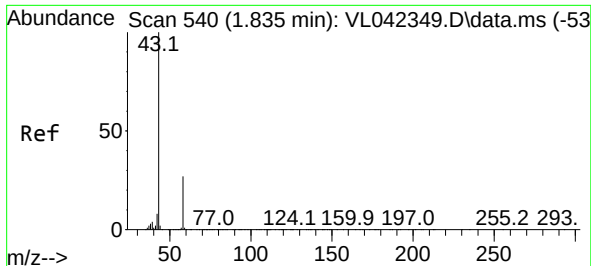
Tgt Ion: 45 Resp: 810  
Ion Ratio Lower Upper  
45 100  
46 95.8 21.9 87.7#



#14  
Bromoethene  
Concen: 1.052 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 108 Resp: 6766  
Ion Ratio Lower Upper  
108 100  
106 104.7 85.9 128.9  
79 45.4 13.9 20.9#





#15

Acetone

Concen: 1.158 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

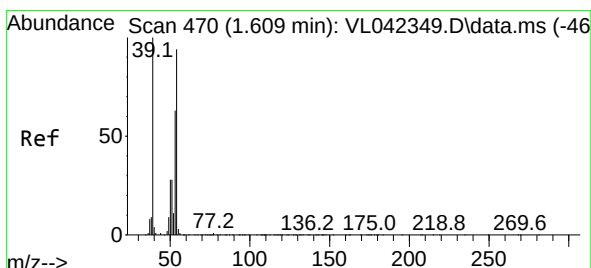
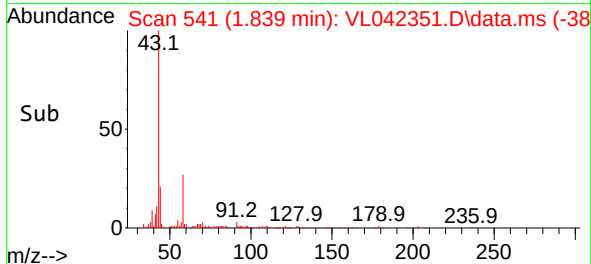
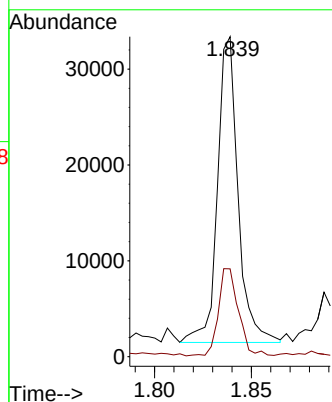
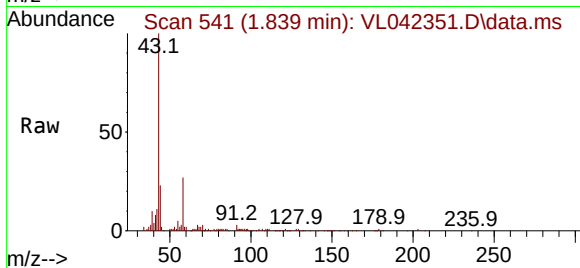
VSTDIC001

Tgt Ion: 43 Resp: 23537

Ion Ratio Lower Upper

43 100

58 29.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.995 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.000 min

Lab File: VL042351.D

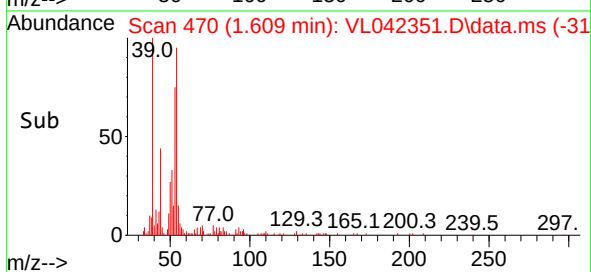
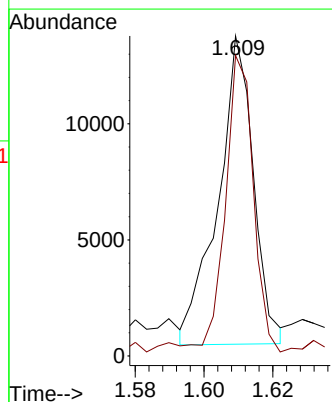
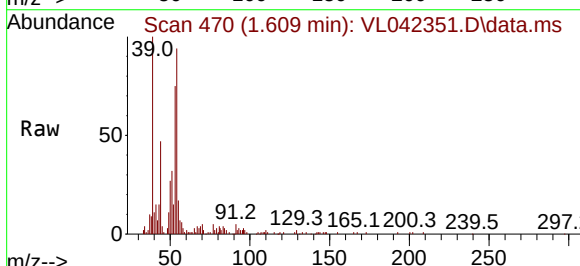
Acq: 17 Apr 2025 10:48

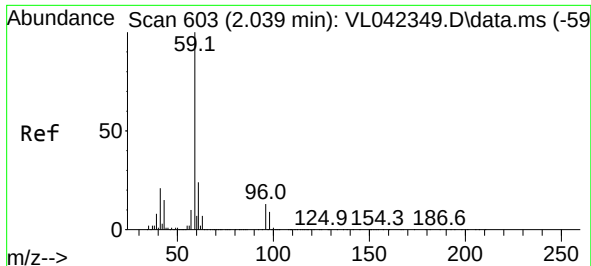
Tgt Ion: 39 Resp: 9495

Ion Ratio Lower Upper

39 100

54 77.6 64.9 97.3





#17

tert-Butyl alcohol

Concen: 1.051 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

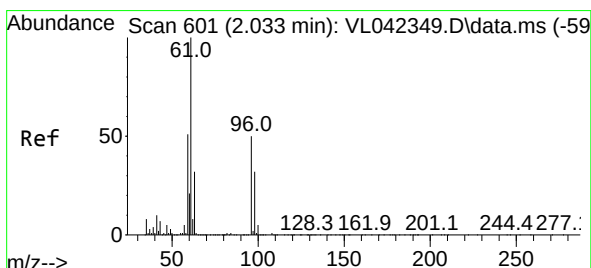
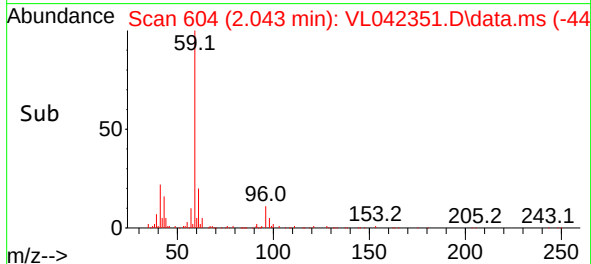
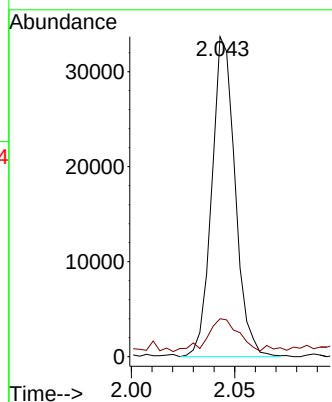
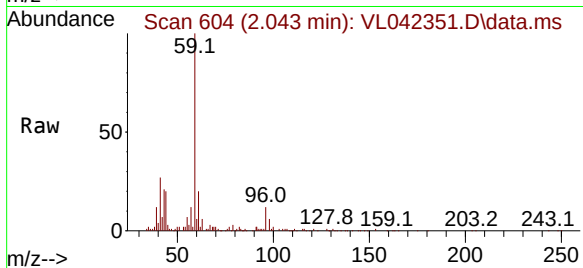
VSTDIC001

Tgt Ion: 59 Resp: 26477

Ion Ratio Lower Upper

59 100

57 14.6 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.962 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

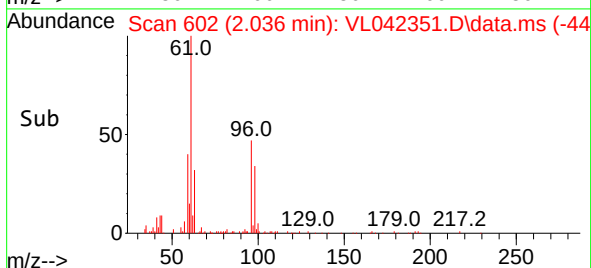
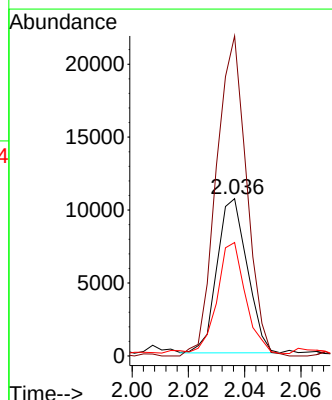
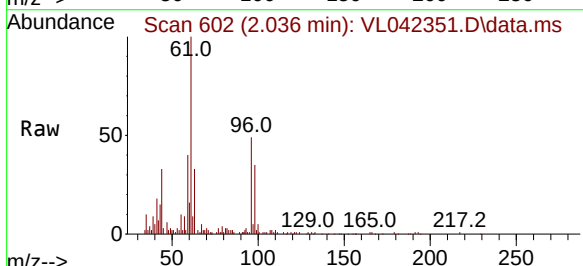
Tgt Ion: 96 Resp: 7890

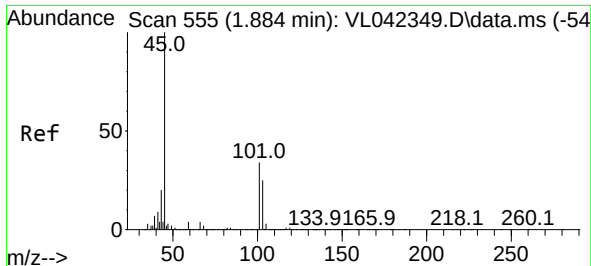
Ion Ratio Lower Upper

96 100

61 207.8 160.2 240.2

98 71.9 51.0 76.4

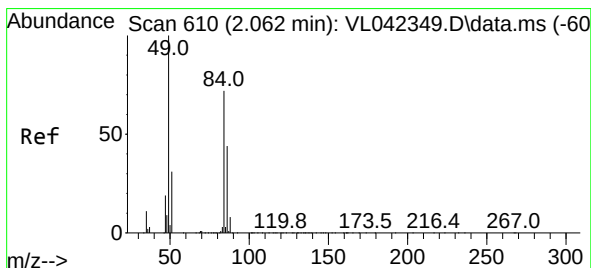
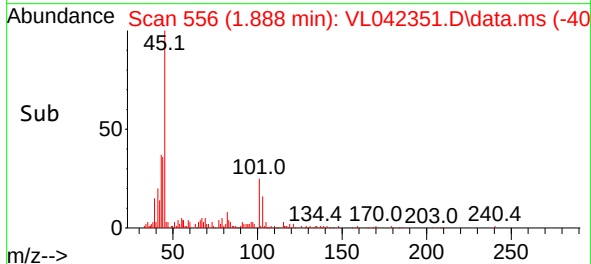
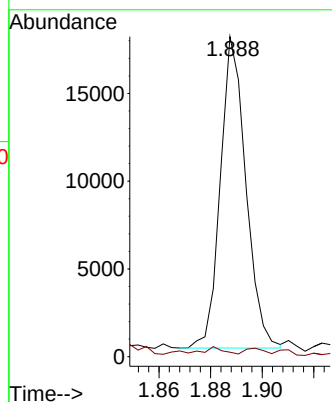
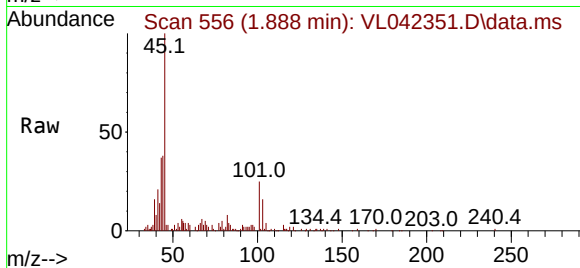




#19  
Isopropyl Alcohol  
Concen: 1.078 ppbv  
RT: 1.888 min Scan# 511  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

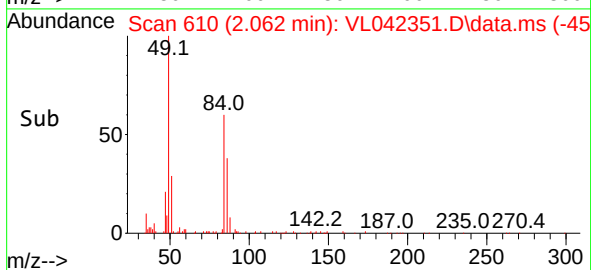
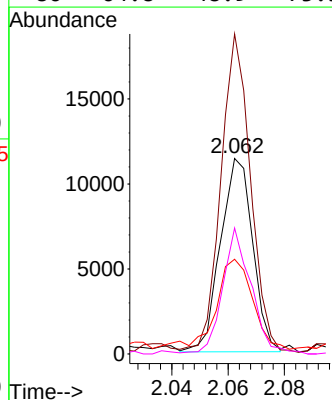
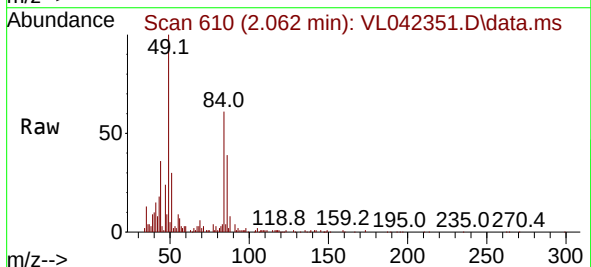
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion: 45 Resp: 12175  
Ion Ratio Lower Upper  
45 100  
58 3.8 34.5 51.7#

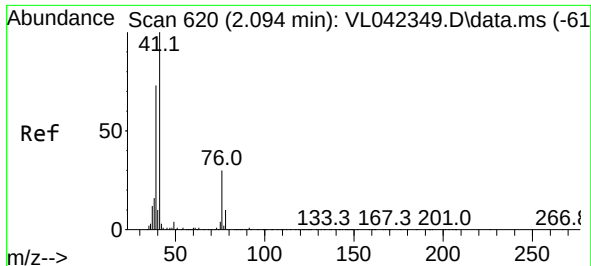


#20  
Methylene Chloride  
Concen: 1.136 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046  
Ion Ratio Lower Upper  
84 100  
49 164.4 111.6 167.4  
51 44.4 35.1 52.7  
86 64.8 48.9 73.3



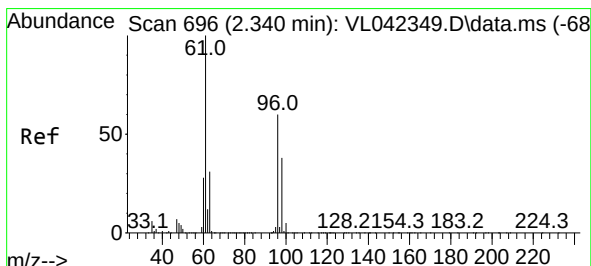
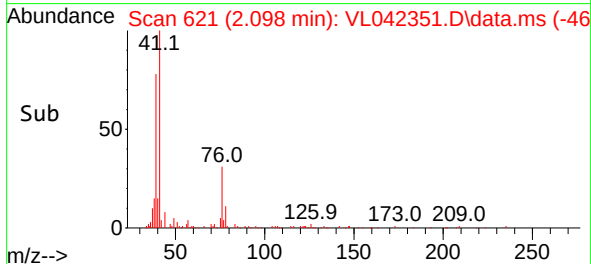
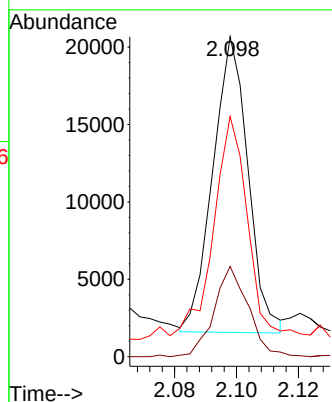
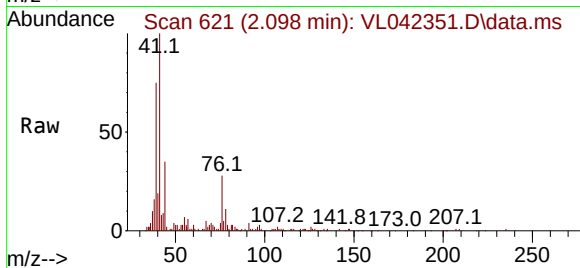




#21  
 Allyl Chloride  
 Concen: 1.073 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

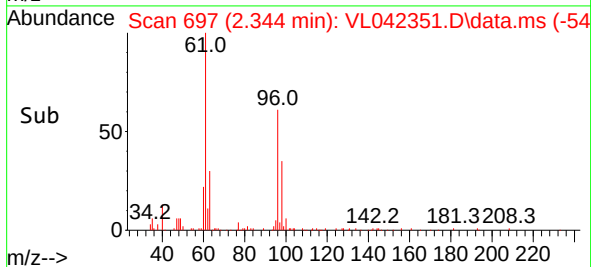
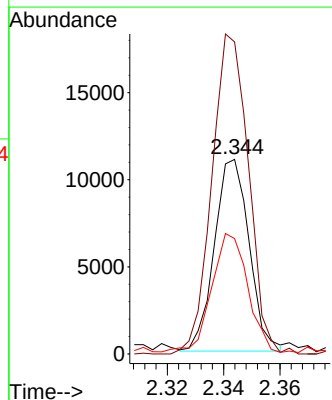
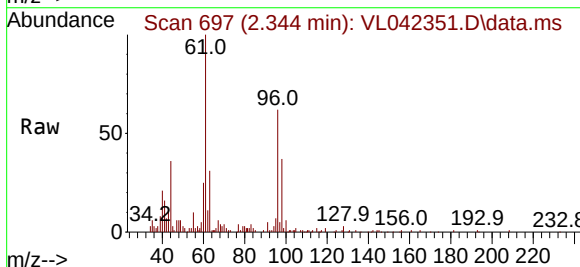
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

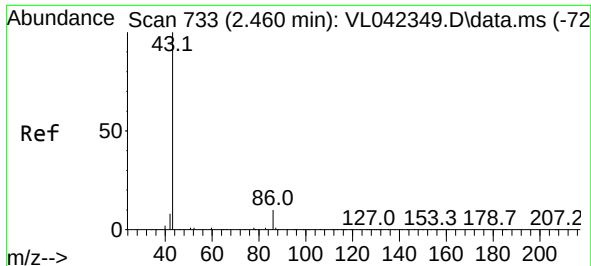
Tgt Ion: 41 Resp: 15057  
 Ion Ratio Lower Upper  
 41 100  
 76 29.8 24.8 37.2  
 39 86.1 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.038 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421  
 Ion Ratio Lower Upper  
 96 100  
 61 161.7 133.7 200.5  
 98 59.8 50.3 75.5

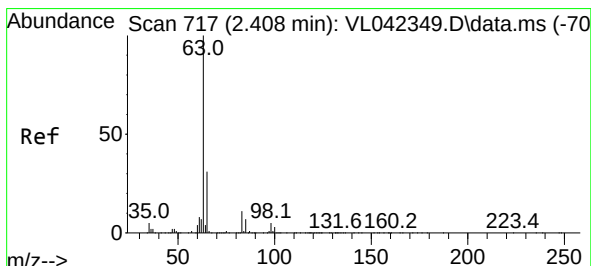
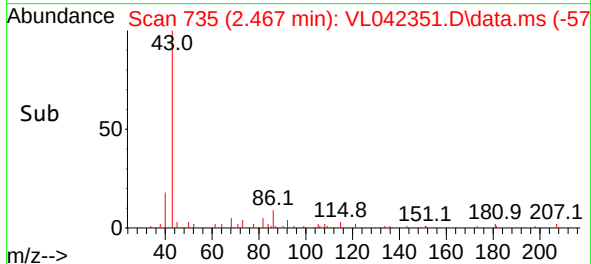
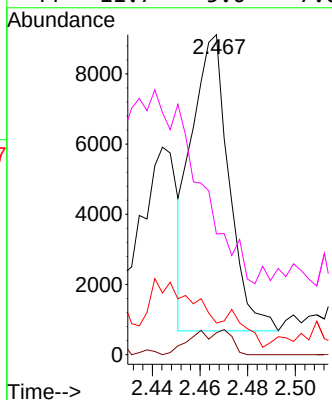
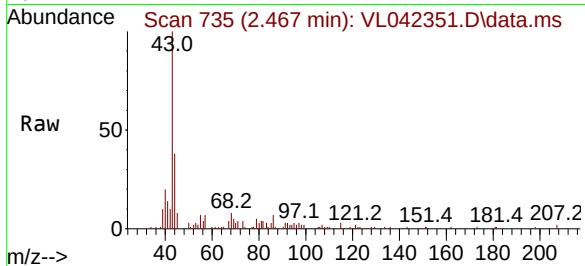




#23  
 Vinyl Acetate  
 Concen: 1.122 ppbv  
 RT: 2.467 min Scan# 717  
 Delta R.T. 0.007 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

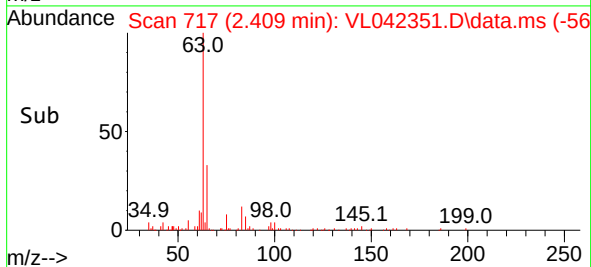
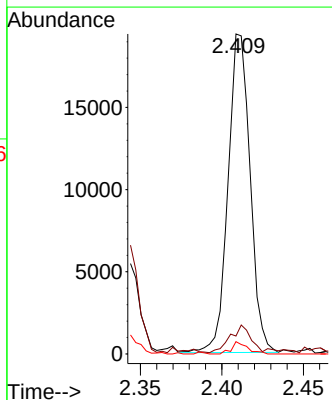
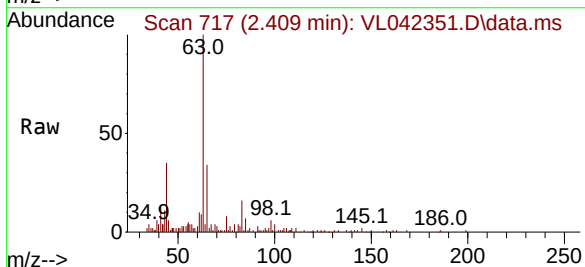
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

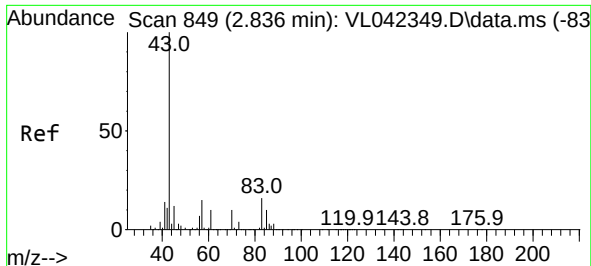
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9234  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 7.4   | 6.5   | 9.7   |
| 42       | 4.6   | 7.8   | 11.8# |
| 44       | 11.7  | 5.0   | 7.6#  |



#24  
 1,1-Dichloroethane  
 Concen: 1.058 ppbv  
 RT: 2.409 min Scan# 717  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 18236 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.7   | 2.3   | 6.8   |
| 100      | 3.9   | 1.6   | 4.8   |



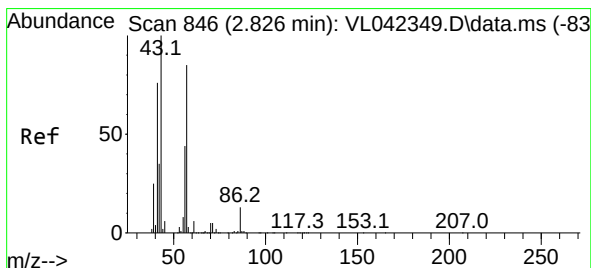
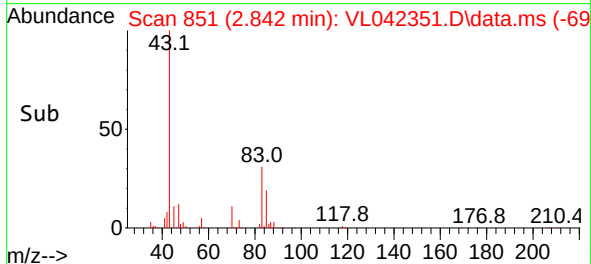
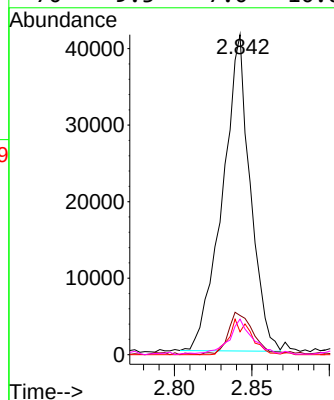
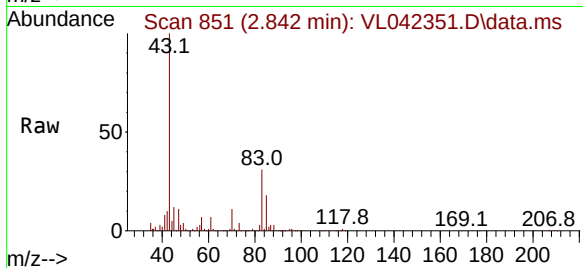


#25  
Ethyl Acetate  
Concen: 1.027 ppbv  
RT: 2.842 min Scan# 849  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

Tgt Ion: 43 Resp: 51494

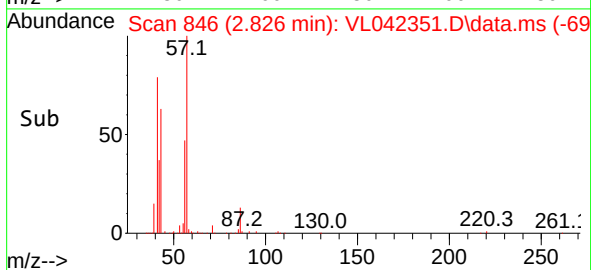
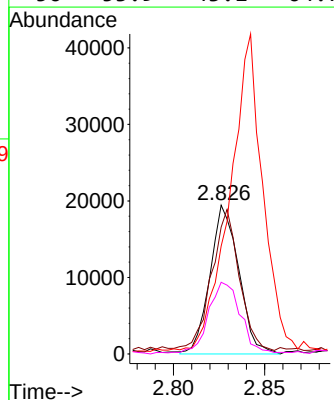
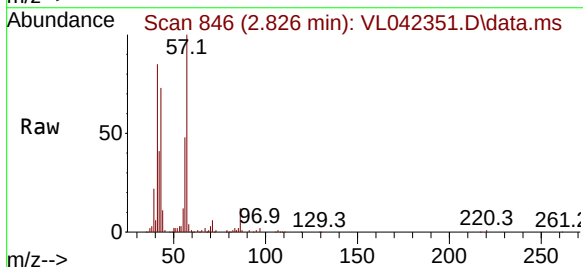
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 13.1  | 8.3   | 12.5  |
| 61  | 9.0   | 7.3   | 10.9  |
| 70  | 9.3   | 7.0   | 10.6  |

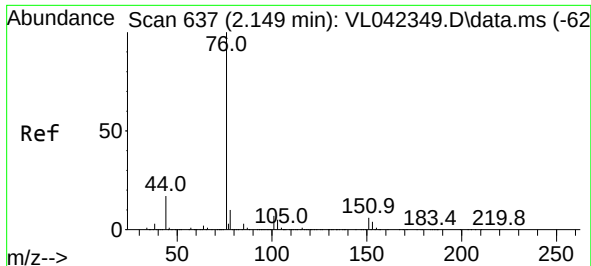


#26  
Hexane  
Concen: 1.053 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 95.3  | 77.9  | 116.9 |
| 43  | 247.5 | 208.4 | 312.6 |
| 56  | 53.9  | 43.1  | 64.7  |





#27

Carbon Disulfide

Concen: 0.955 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

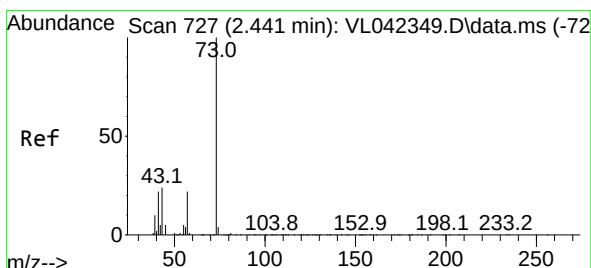
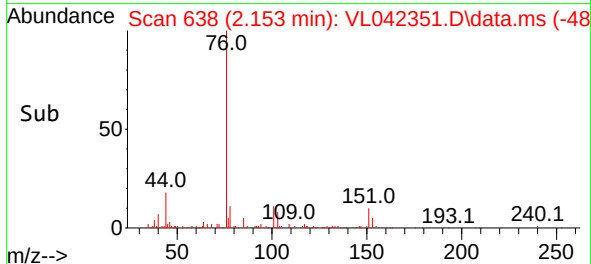
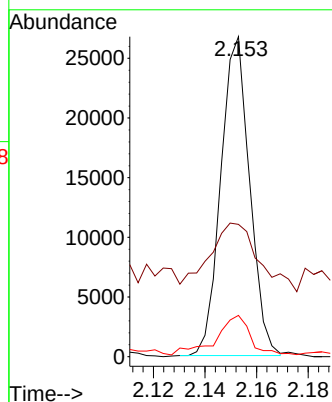
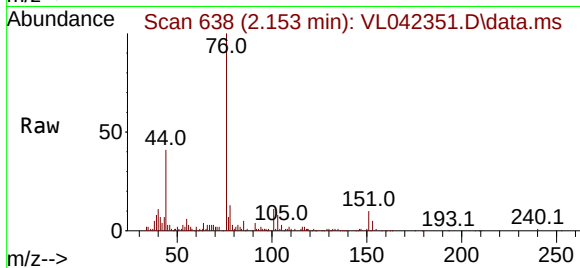
Tgt Ion: 76 Resp: 20739

Ion Ratio Lower Upper

76 100

44 93.1 15.5 23.3#

78 19.8 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.004 min

Lab File: VL042351.D

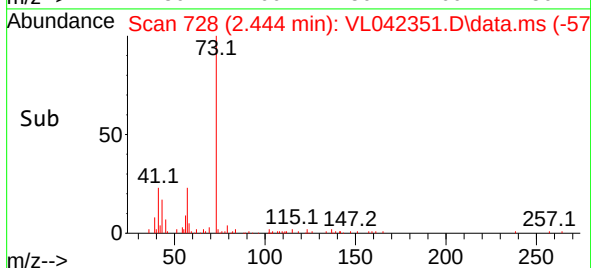
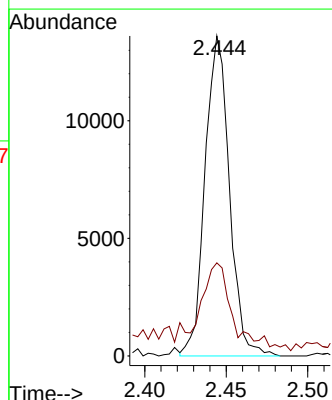
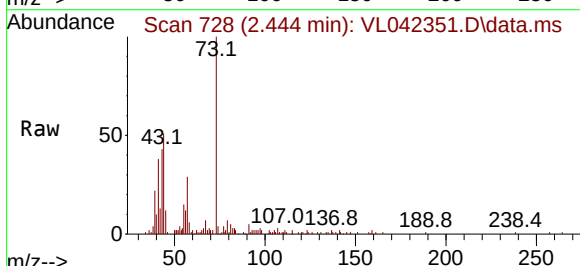
Acq: 17 Apr 2025 10:48

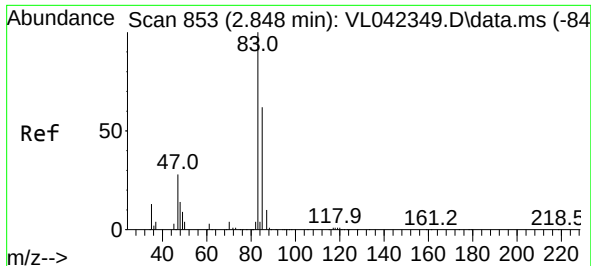
Tgt Ion: 73 Resp: 14164

Ion Ratio Lower Upper

73 100

57 34.2 21.3 31.9#





#29

Chloroform

Concen: 1.011 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

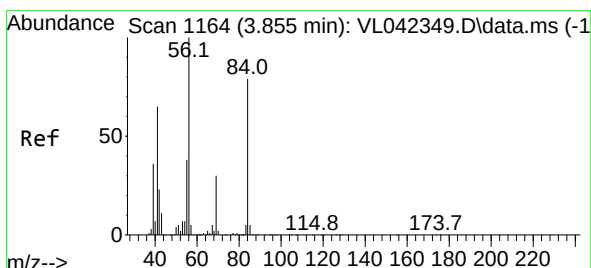
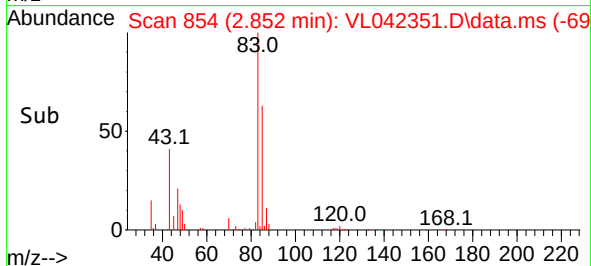
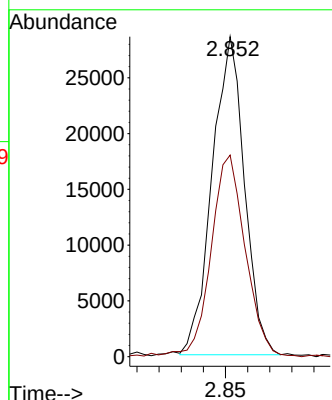
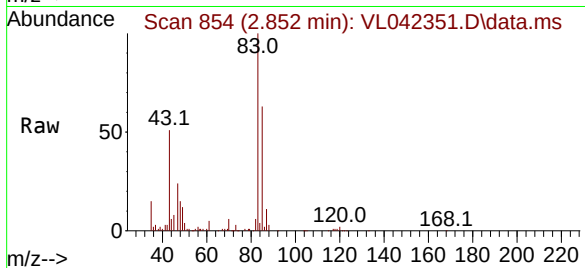
VSTDIC001

Tgt Ion: 83 Resp: 28973

Ion Ratio Lower Upper

83 100

85 62.6 50.0 75.0



#30

Cyclohexane

Concen: 0.516 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

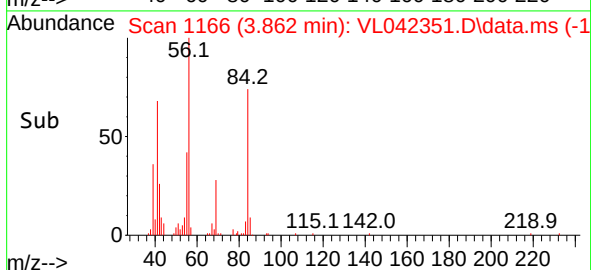
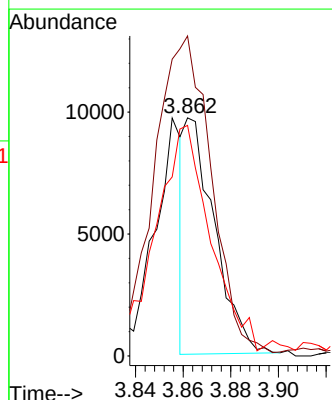
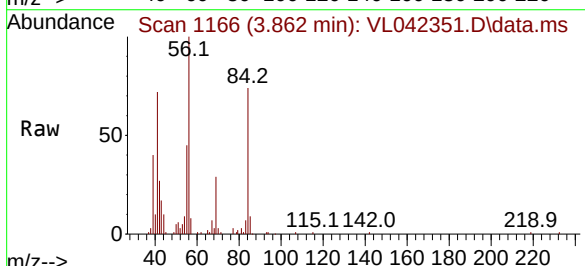
Tgt Ion: 84 Resp: 8430

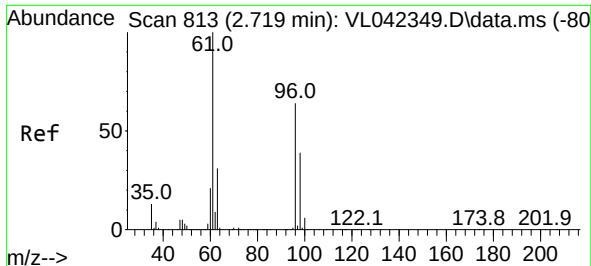
Ion Ratio Lower Upper

84 100

56 263.5 101.0 151.4#

41 167.0 67.4 101.0#

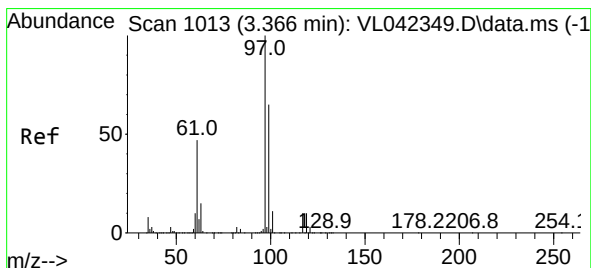
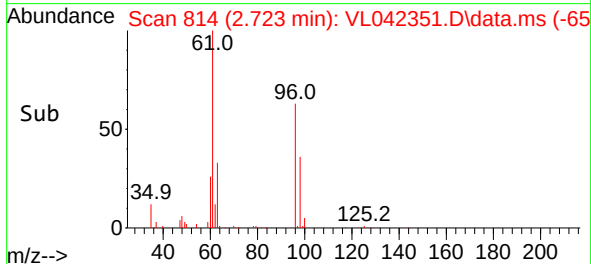
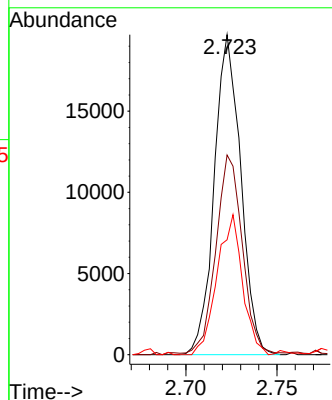
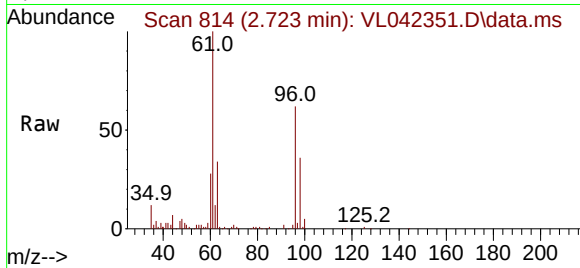




#31  
 cis-1,2-Dichloroethene  
 Concen: 1.032 ppbv  
 RT: 2.723 min Scan# 813  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

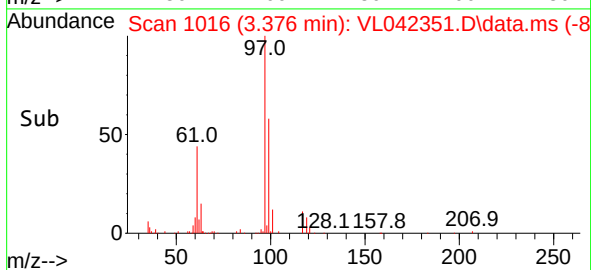
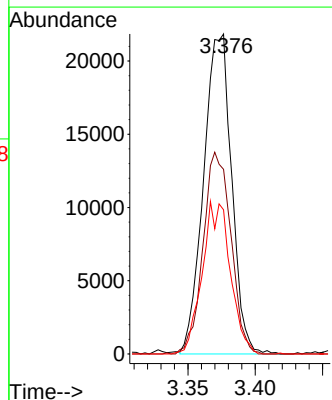
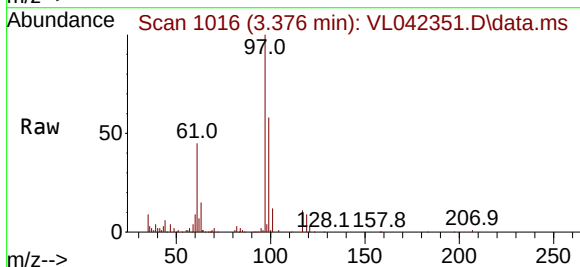
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

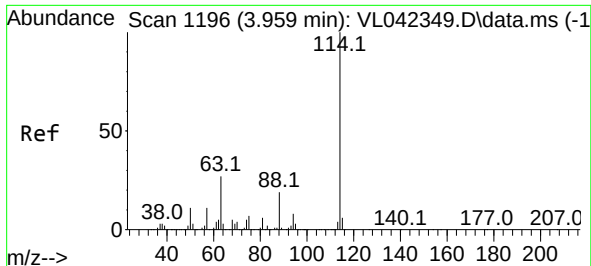
Tgt Ion: 61 Resp: 19904  
 Ion Ratio Lower Upper  
 61 100  
 96 61.9 50.8 76.2  
 98 35.9 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 1.030 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.010 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653  
 Ion Ratio Lower Upper  
 97 100  
 99 62.4 51.0 76.4  
 61 47.6 38.8 58.2

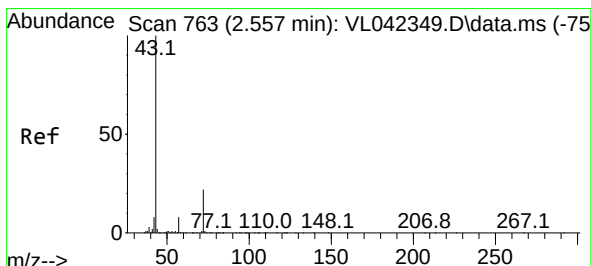
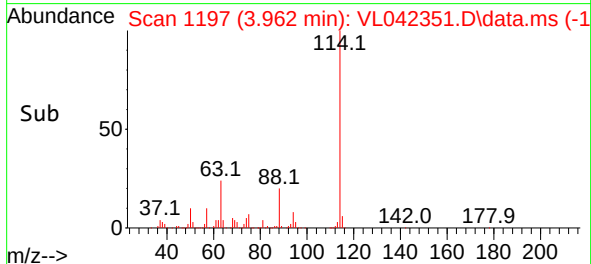
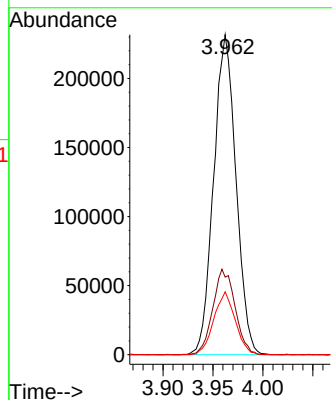
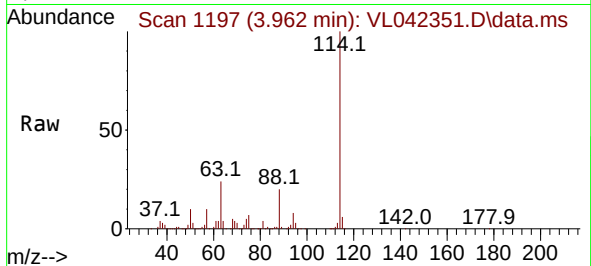




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.962 min Scan# 1196  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

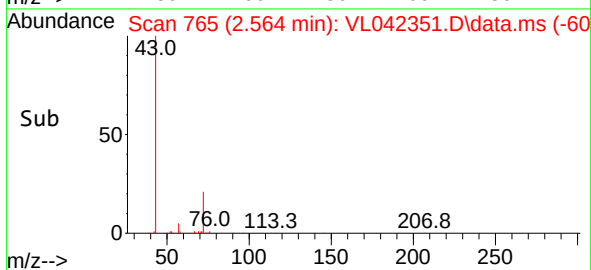
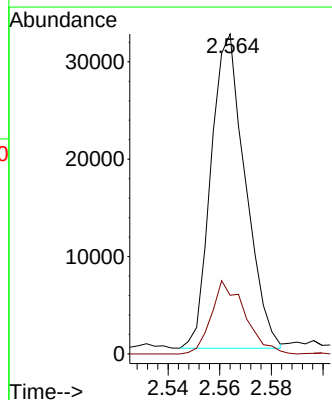
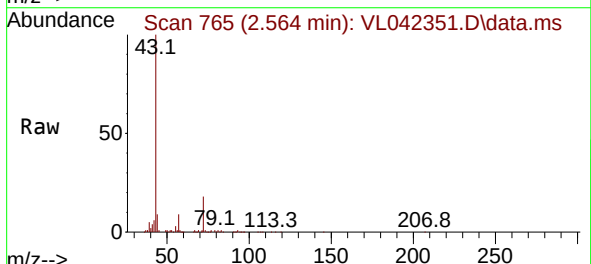
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

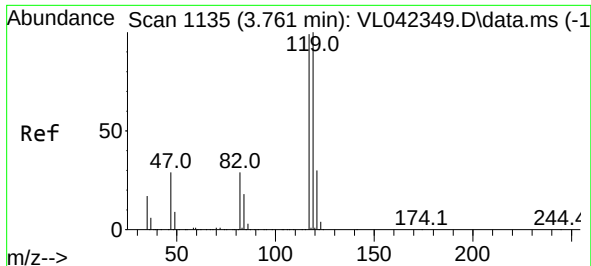
Tgt Ion:114 Resp: 359907  
 Ion Ratio Lower Upper  
 114 100  
 63 26.7 21.8 32.6  
 88 18.8 15.5 23.3



#34  
 2-Butanone  
 Concen: 1.045 ppbv  
 RT: 2.564 min Scan# 765  
 Delta R.T. 0.007 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735  
 Ion Ratio Lower Upper  
 43 100  
 72 23.1 18.2 27.2

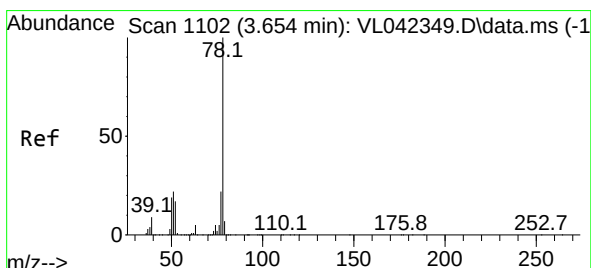
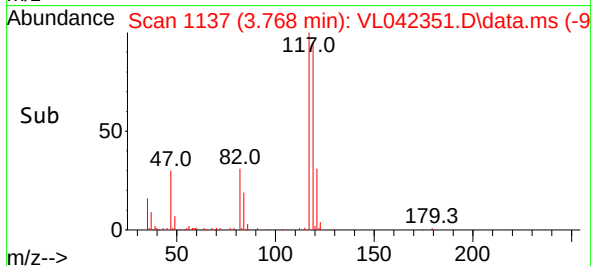
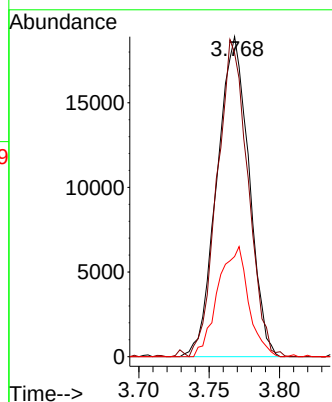
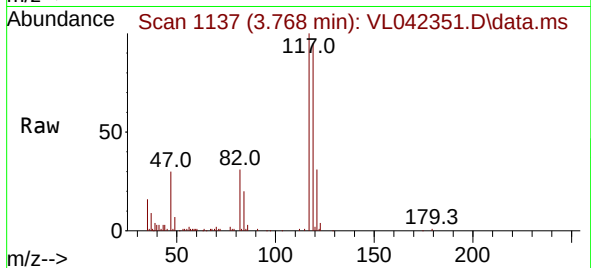




#35  
Carbon Tetrachloride  
Concen: 0.917 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

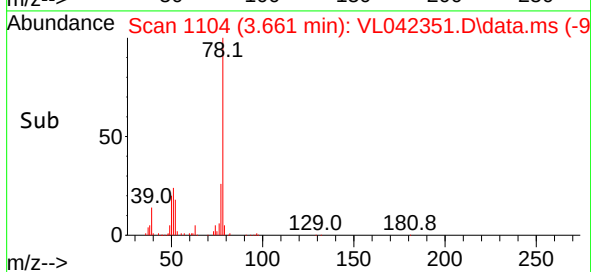
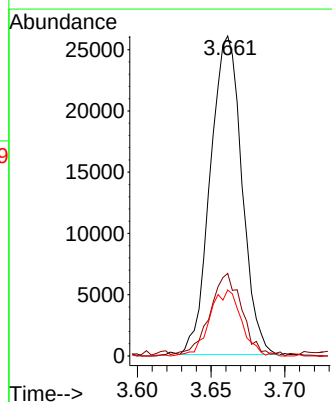
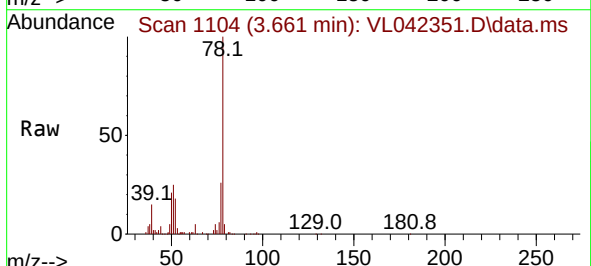
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 117 Resp: 29875  
Ion Ratio Lower Upper  
117 100  
119 93.3 80.5 120.7  
121 31.3 24.2 36.2

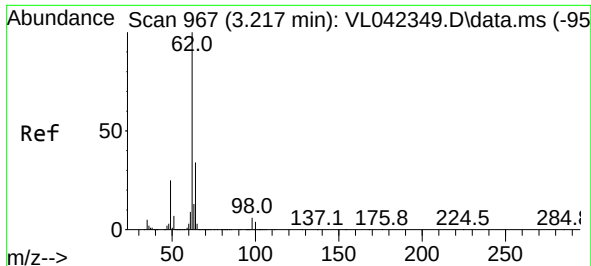


#36  
Benzene  
Concen: 0.997 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707  
Ion Ratio Lower Upper  
78 100  
77 24.7 17.4 26.0  
50 20.7 15.5 23.3







#37

1,2-Dichloroethane

Concen: 0.999 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

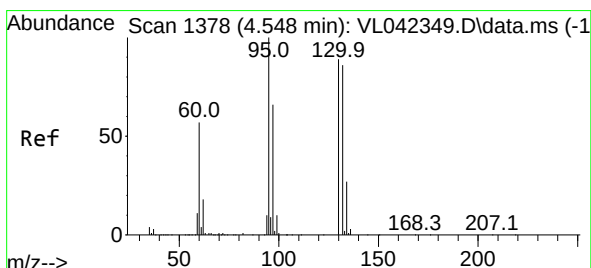
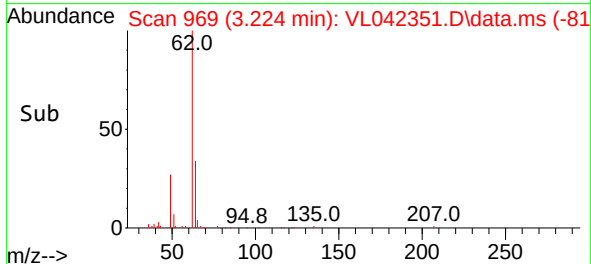
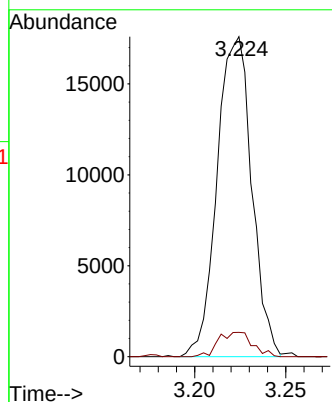
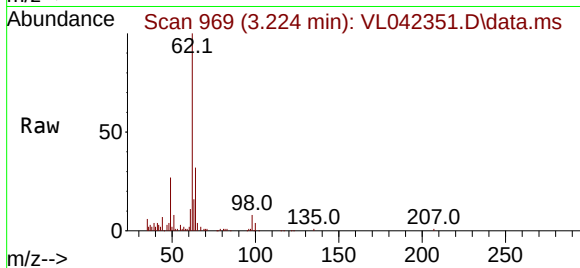
VSTDIC001

Tgt Ion: 62 Resp: 23284

Ion Ratio Lower Upper

62 100

98 7.5 5.1 7.7



#38

Trichloroethene

Concen: 0.947 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

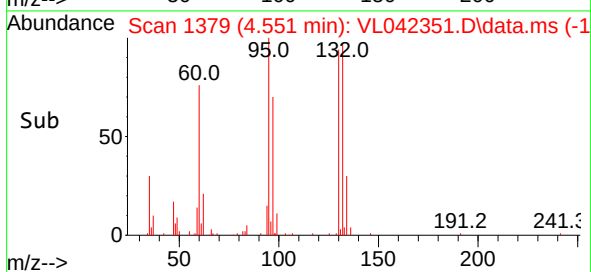
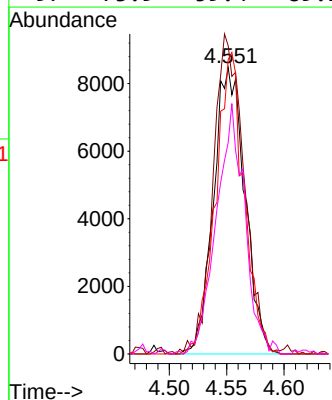
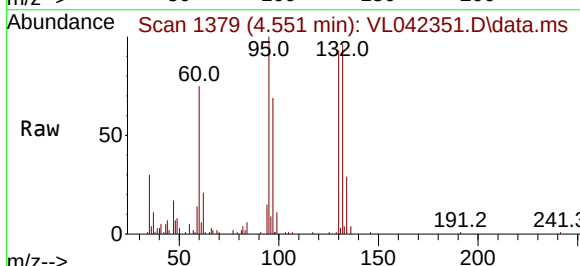
Ion Ratio Lower Upper

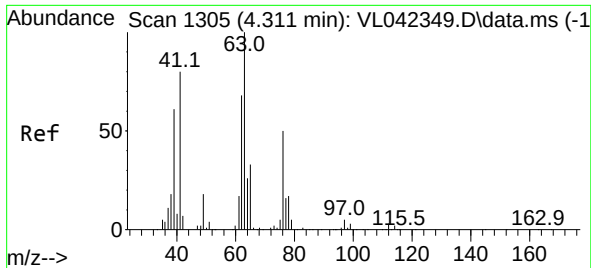
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

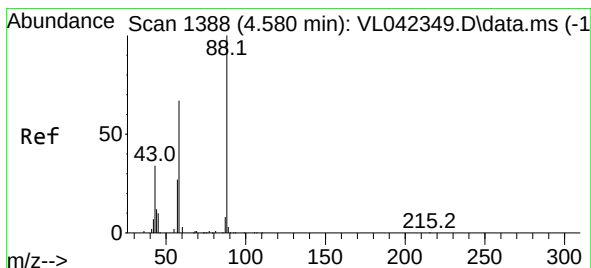
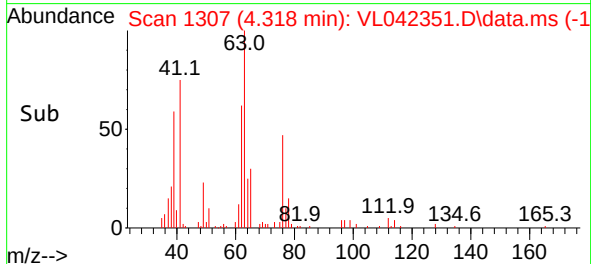
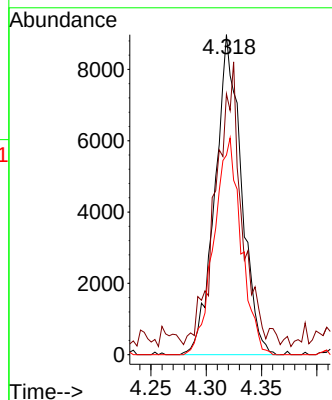
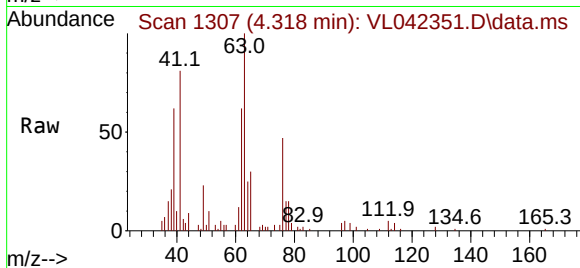
Tgt Ion: 63 Resp: 14866

Ion Ratio Lower Upper

63 100

41 78.3 64.2 96.2

62 62.3 54.3 81.5



#40

1,4-Dioxane

Concen: 0.123 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.023 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 967

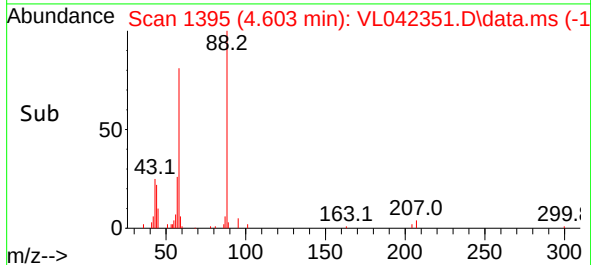
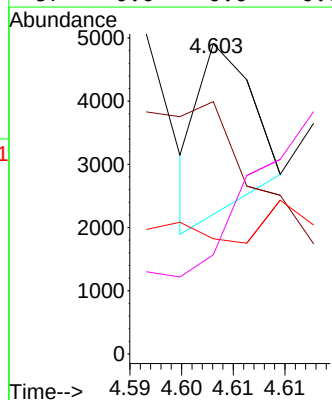
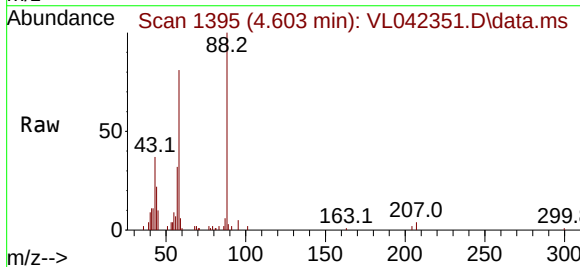
Ion Ratio Lower Upper

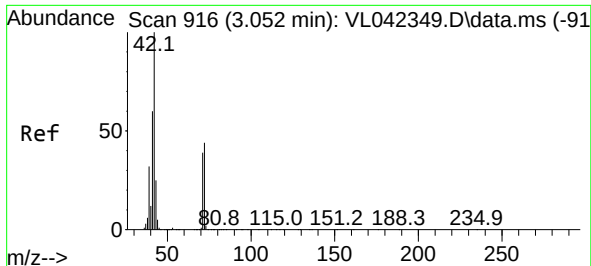
88 100

58 998.9 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.049 ppbv

RT: 3.062 min Scan# 916

Delta R.T. 0.010 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

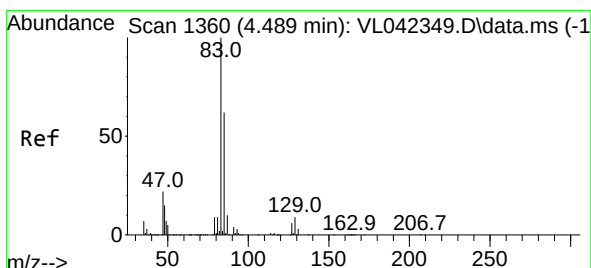
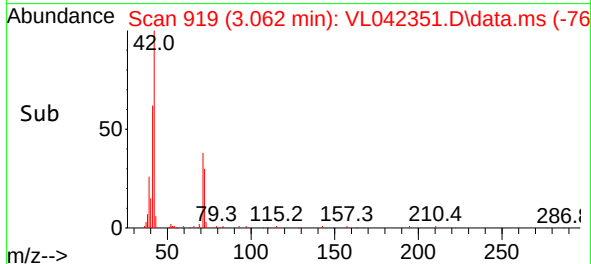
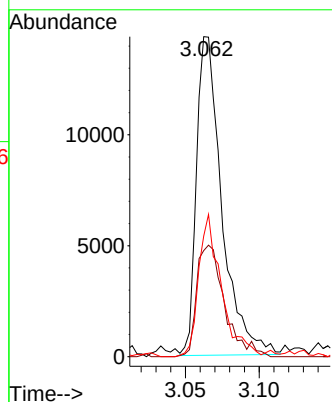
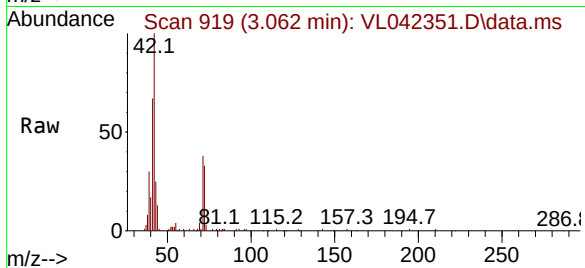
Tgt Ion: 42 Resp: 17259

Ion Ratio Lower Upper

42 100

72 38.1 32.3 48.5

71 42.3 31.4 47.2



#42

Bromodichloromethane

Concen: 1.009 ppbv

RT: 4.490 min Scan# 1360

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

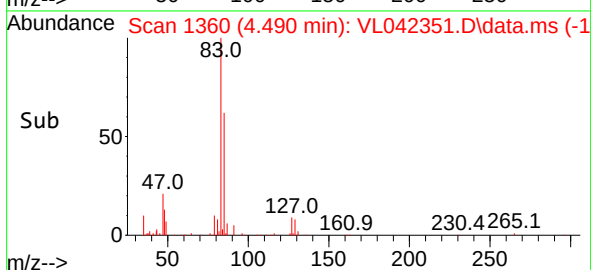
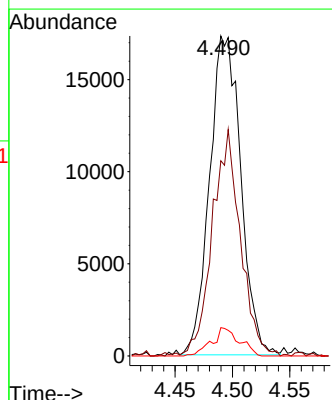
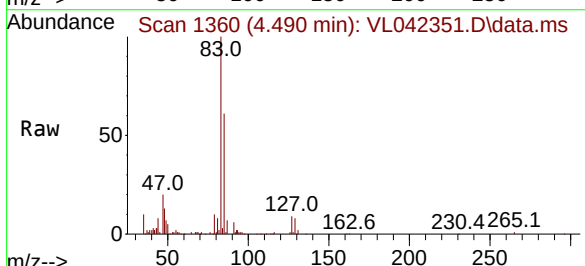
Tgt Ion: 83 Resp: 32721

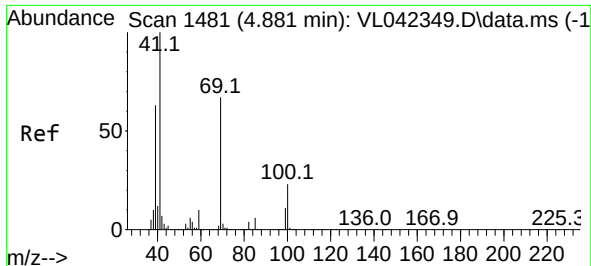
Ion Ratio Lower Upper

83 100

85 61.2 49.7 74.5

127 8.9 5.1 7.7#

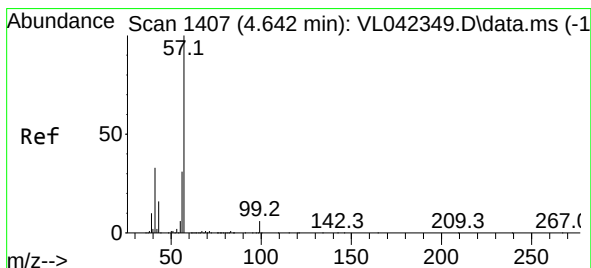
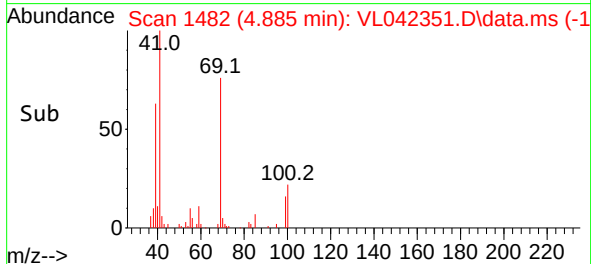
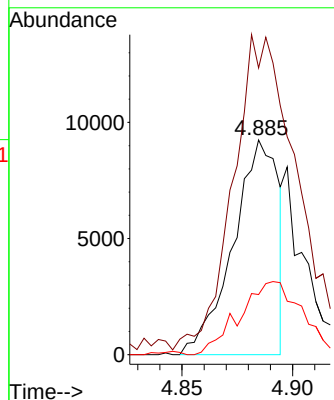
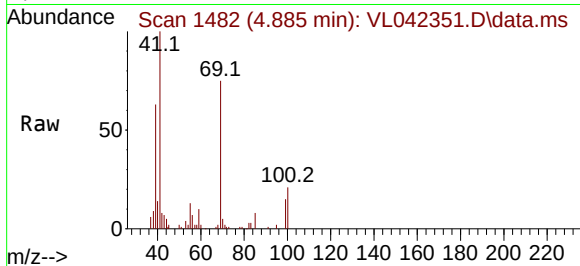




#43  
Methyl Methacrylate  
Concen: 0.751 ppbv  
RT: 4.885 min Scan# 1481  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

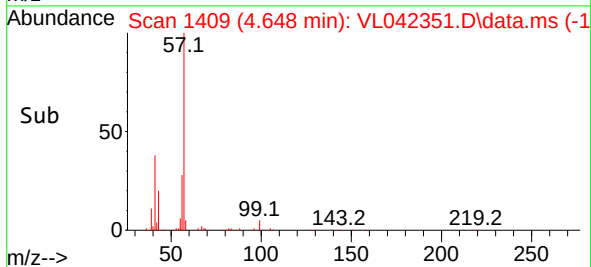
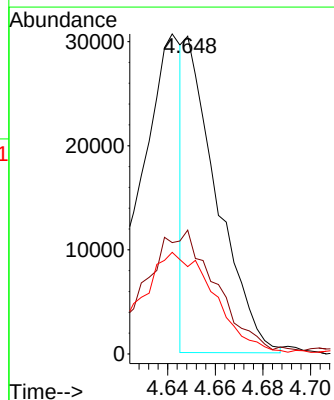
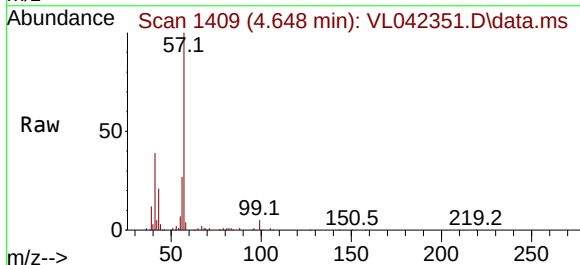
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

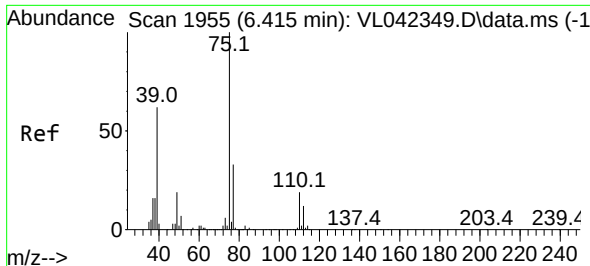
Tgt Ion: 69 Resp: 13084  
Ion Ratio Lower Upper  
69 100  
41 213.4 118.6 177.8#  
100 0.0 28.2 42.2#



#44  
2,2,4-Trimethylpentane  
Concen: 0.427 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 28653  
Ion Ratio Lower Upper  
57 100  
41 91.3 27.2 40.8#  
56 0.0 25.7 38.5#





#45

t-1,3-Dichloropropene

Concen: 0.658 ppbv

RT: 6.416 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

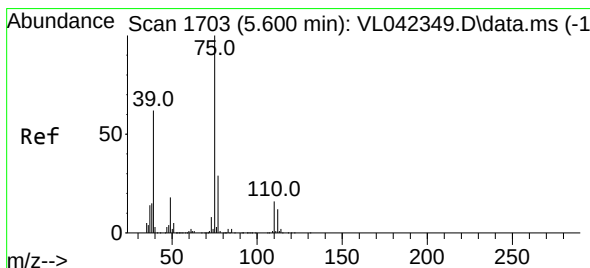
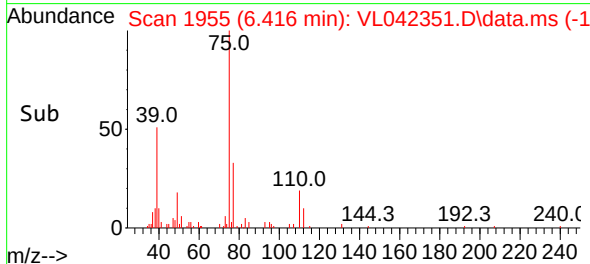
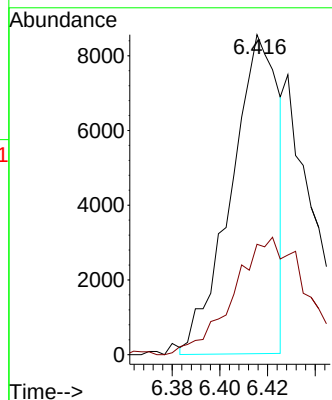
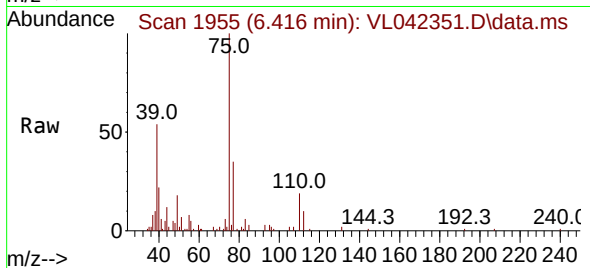
VSTDIC001

Tgt Ion: 75 Resp: 11763

Ion Ratio Lower Upper

75 100

77 34.5 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.596 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

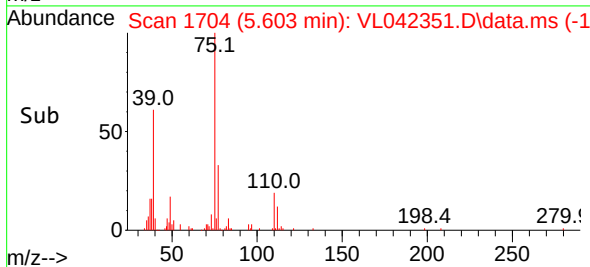
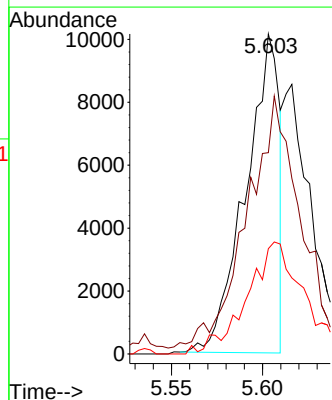
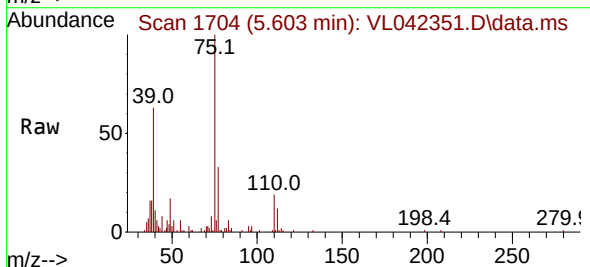
Tgt Ion: 75 Resp: 13028

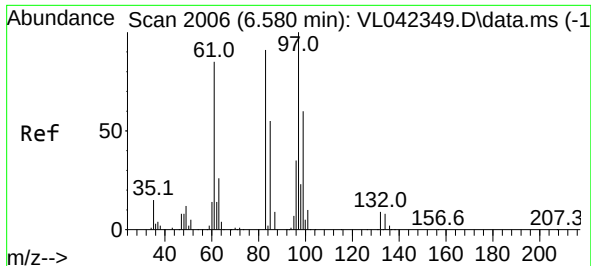
Ion Ratio Lower Upper

75 100

39 59.7 50.0 75.0

77 33.1 23.0 34.6



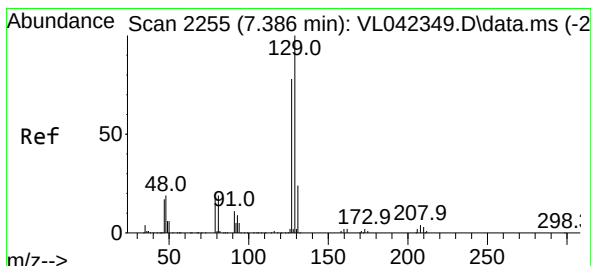
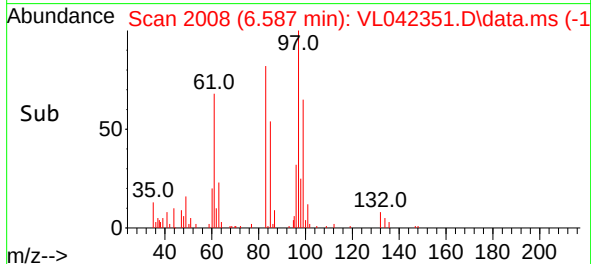
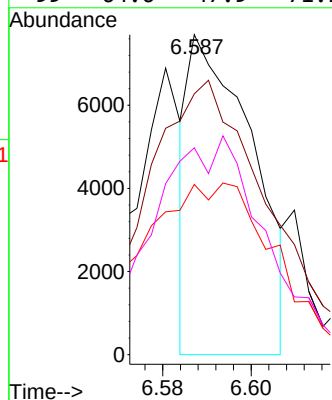
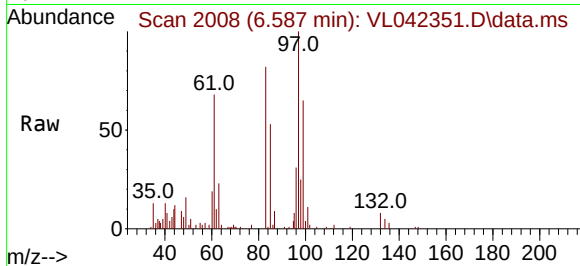


#47  
 1,1,2-Trichloroethane  
 Concen: 0.521 ppbv  
 RT: 6.587 min Scan# 2006  
 Delta R.T. 0.007 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tgt Ion: 97 Resp: 7690

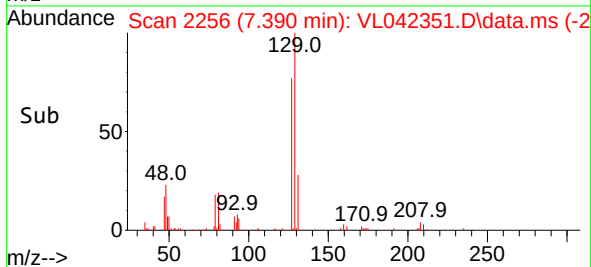
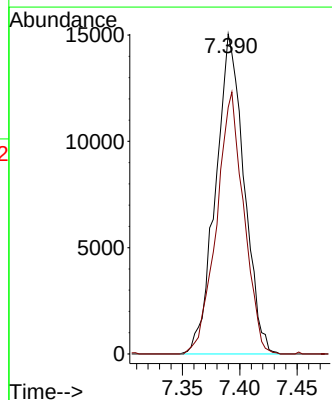
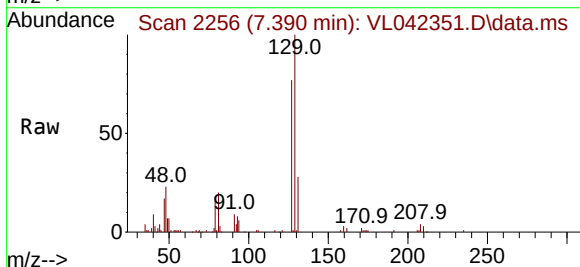
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 97  | 100   |       |        |
| 83  | 67.7  | 72.8  | 109.2# |
| 85  | 31.3  | 44.2  | 66.4#  |
| 99  | 64.6  | 47.9  | 71.9   |

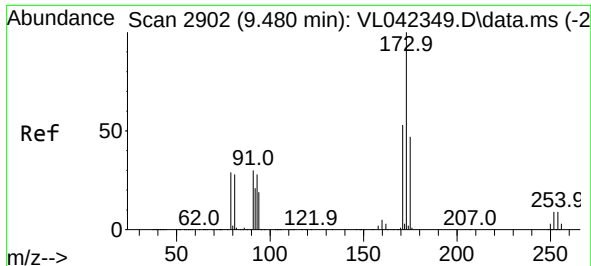


#48  
 Dibromochloromethane  
 Concen: 0.997 ppbv  
 RT: 7.390 min Scan# 2256  
 Delta R.T. 0.004 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 129 Resp: 25948

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.4  | 39.1  | 117.3 |

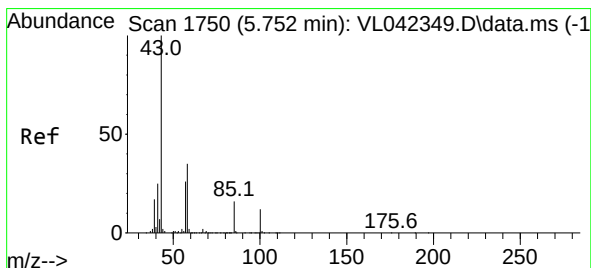
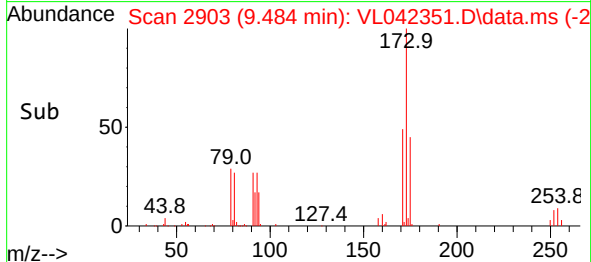
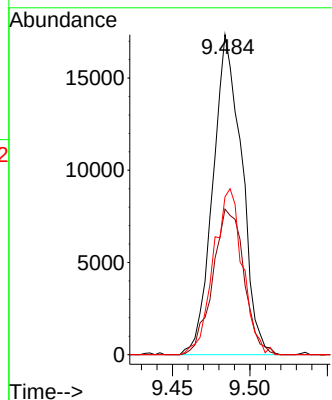
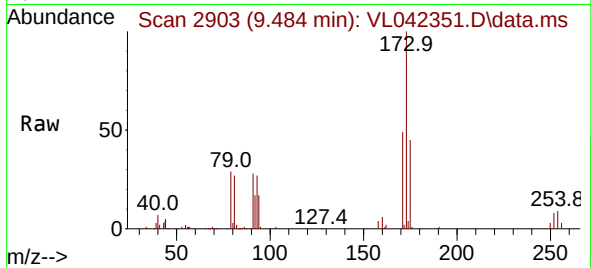




#49  
Bromoform  
Concen: 0.984 ppbv  
RT: 9.484 min Scan# 2902  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

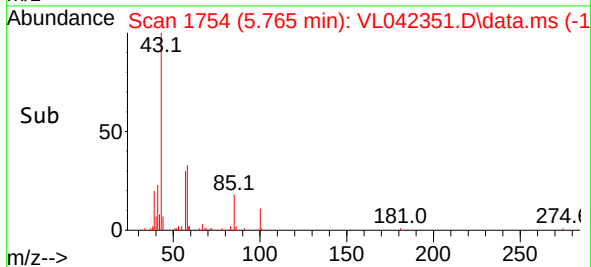
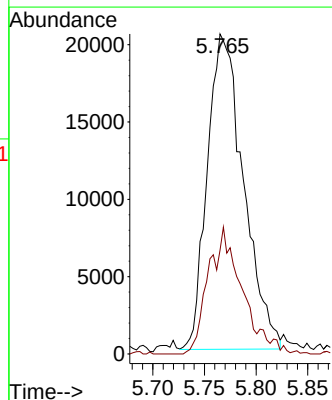
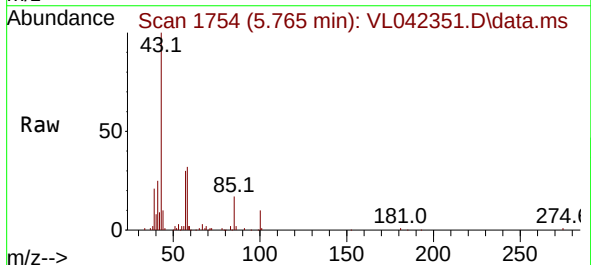
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

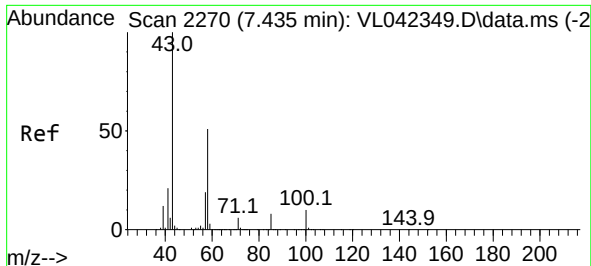
Tgt Ion:173 Resp: 22413  
Ion Ratio Lower Upper  
173 100  
175 49.3 38.2 57.2  
171 52.7 40.9 61.3



#50  
4-Methyl-2-Pentanone  
Concen: 1.049 ppbv  
RT: 5.765 min Scan# 1754  
Delta R.T. 0.013 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725  
Ion Ratio Lower Upper  
43 100  
58 37.7 28.6 43.0

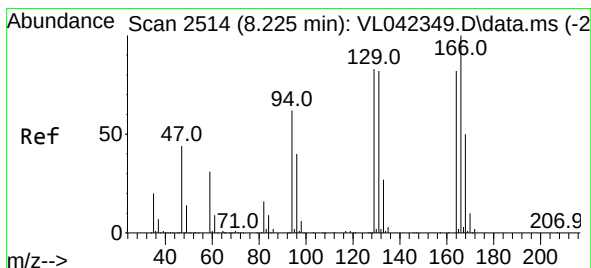
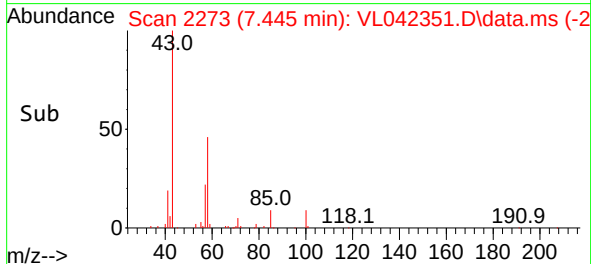
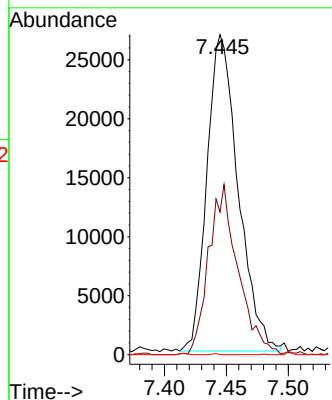
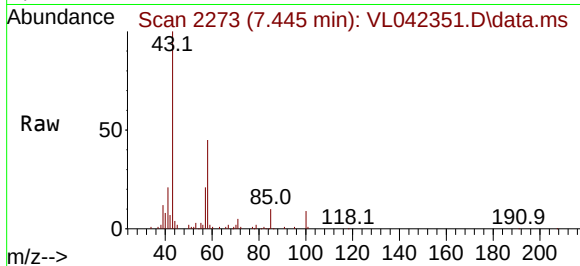




#51  
2-Hexanone  
Concen: 1.103 ppbv  
RT: 7.445 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

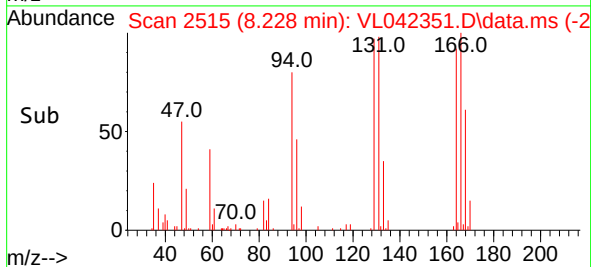
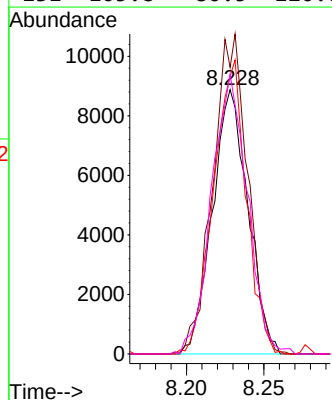
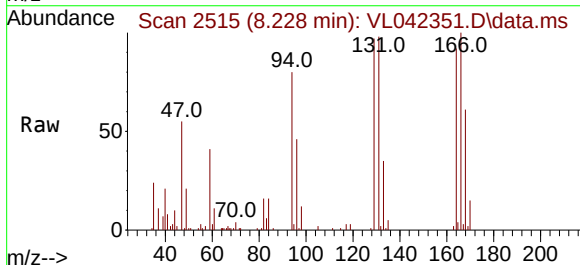
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 43 Resp: 47178  
Ion Ratio Lower Upper  
43 100  
58 50.8 40.2 60.4  
98 0.1 0.1 0.1

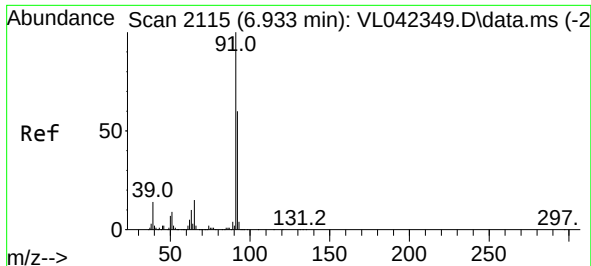


#52  
Tetrachloroethene  
Concen: 0.943 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 164 Resp: 14154  
Ion Ratio Lower Upper  
164 100  
166 107.7 98.2 147.2  
129 104.2 81.8 122.8  
131 105.8 80.5 120.7



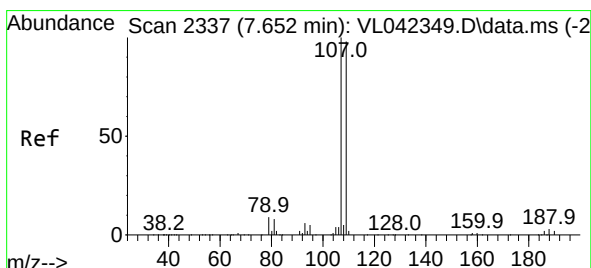
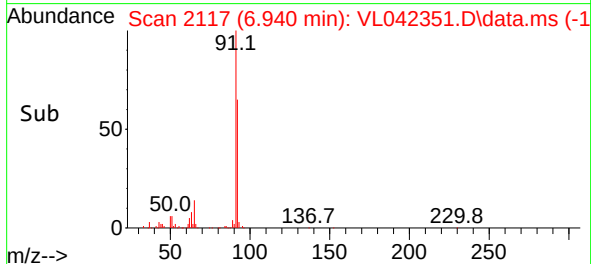
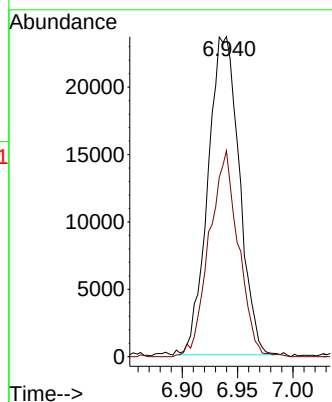
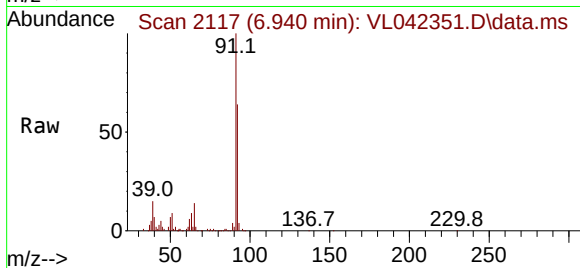




#53  
Toluene  
Concen: 1.001 ppbv  
RT: 6.940 min Scan# 2115  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

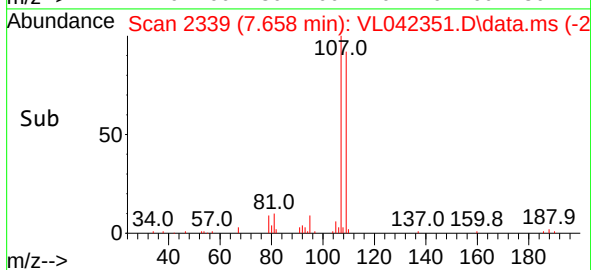
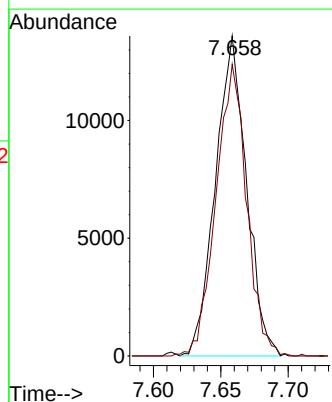
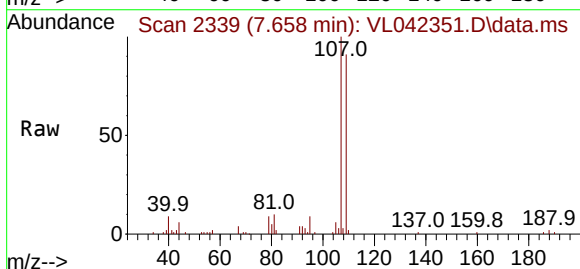
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

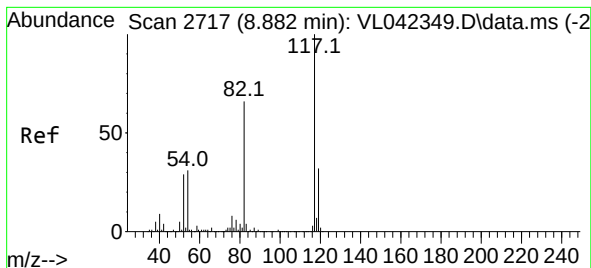
Tgt Ion: 91 Resp: 46611  
Ion Ratio Lower Upper  
91 100  
92 60.4 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 1.036 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. 0.007 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 107 Resp: 21780  
Ion Ratio Lower Upper  
107 100  
109 90.7 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

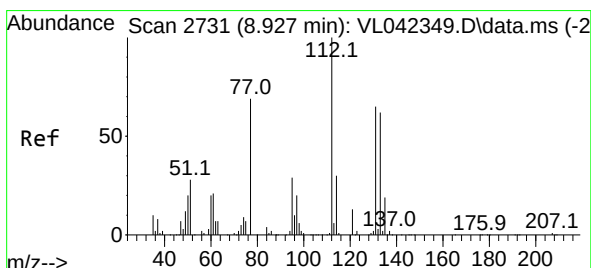
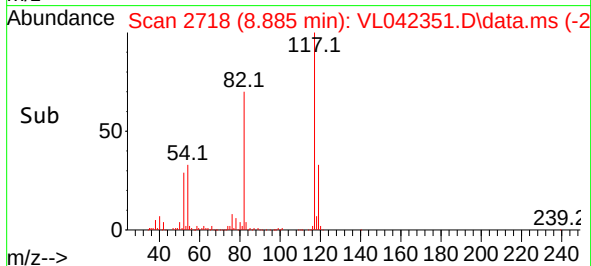
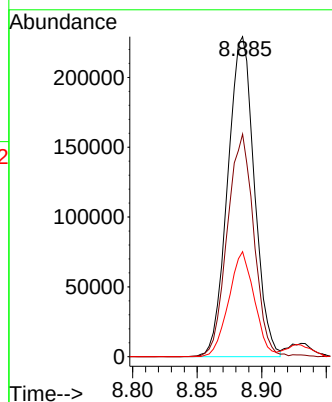
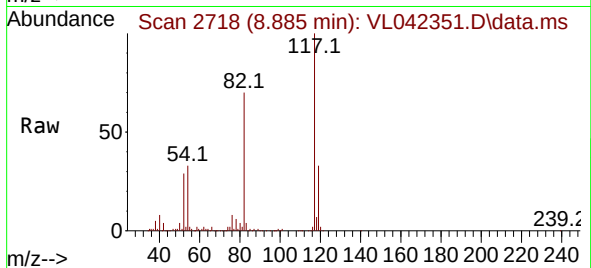
Tgt Ion:117 Resp: 329090

Ion Ratio Lower Upper

117 100

82 69.7 57.8 86.6

119 31.8 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

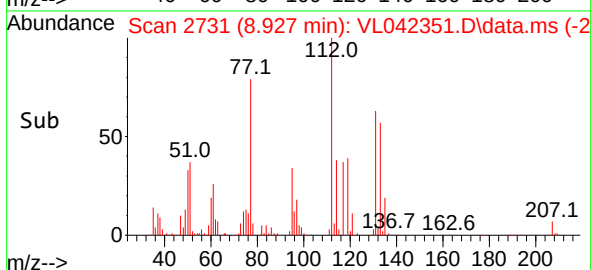
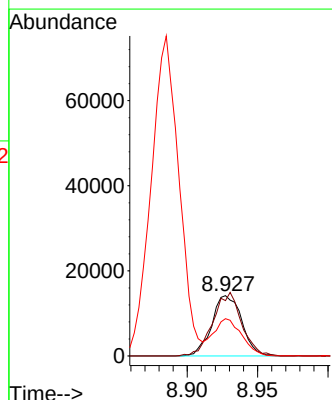
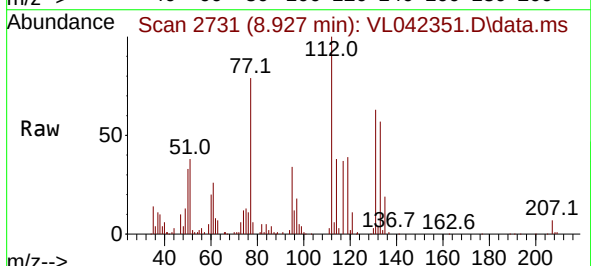
Tgt Ion:131 Resp: 21052

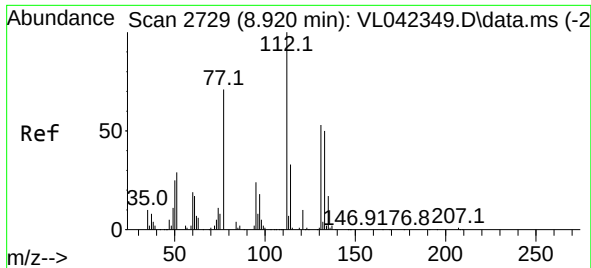
Ion Ratio Lower Upper

131 100

133 100.5 78.3 117.5

119 55.1 48.7 73.1

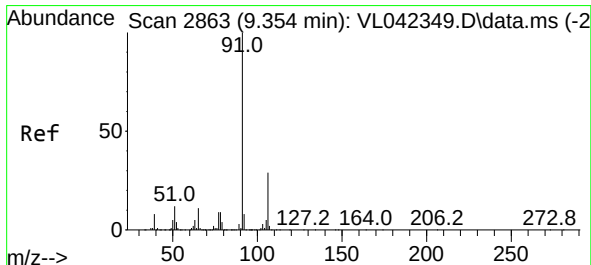
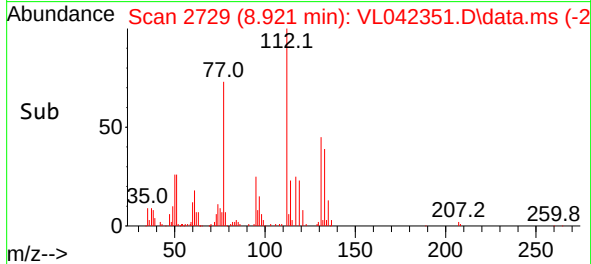
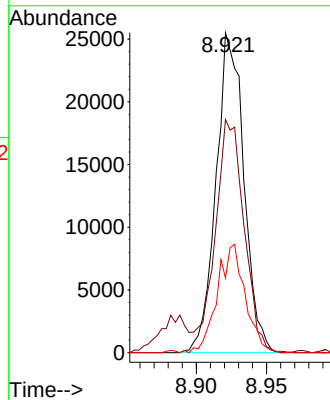
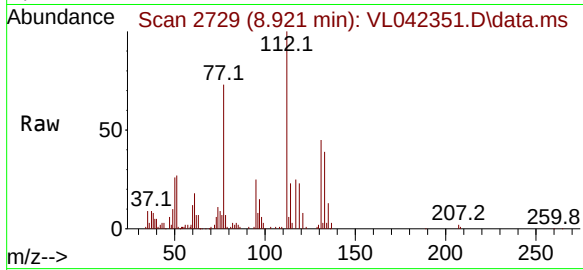




#57  
Chlorobenzene  
Concen: 1.026 ppbv  
RT: 8.921 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

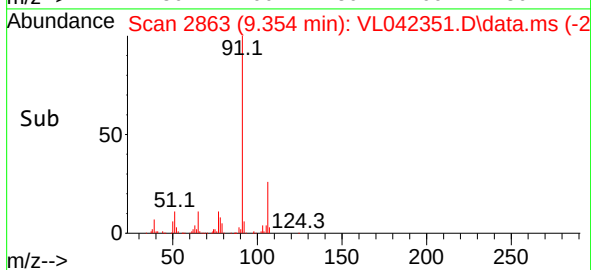
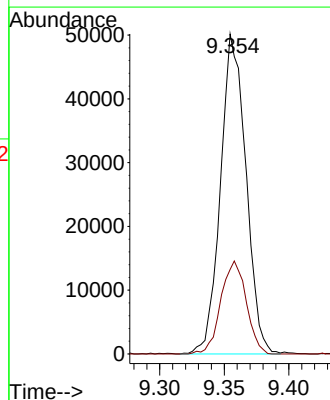
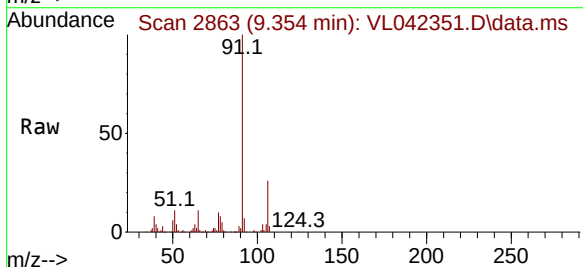
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

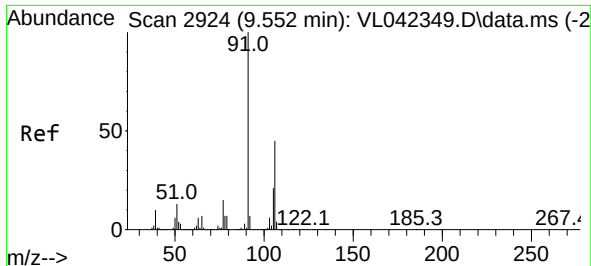
Tgt Ion:112 Resp: 35113  
Ion Ratio Lower Upper  
112 100  
77 72.4 57.8 86.6  
114 23.3 29.3 35.9#



#58  
Ethyl Benzene  
Concen: 1.054 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703  
Ion Ratio Lower Upper  
91 100  
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 0.926 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

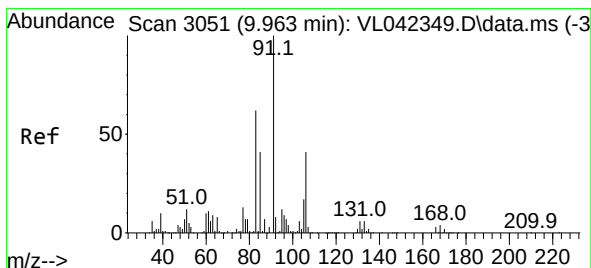
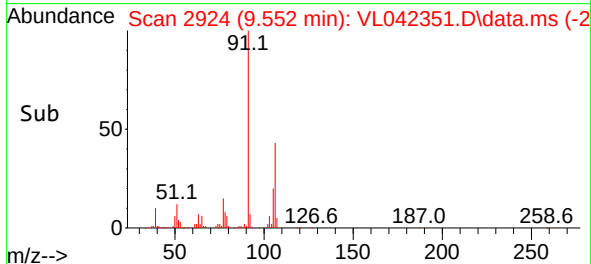
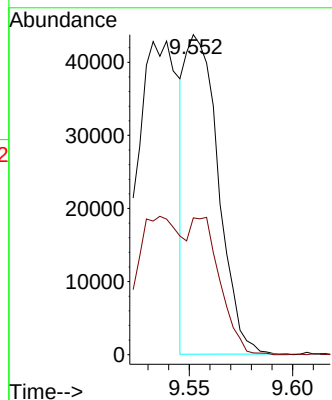
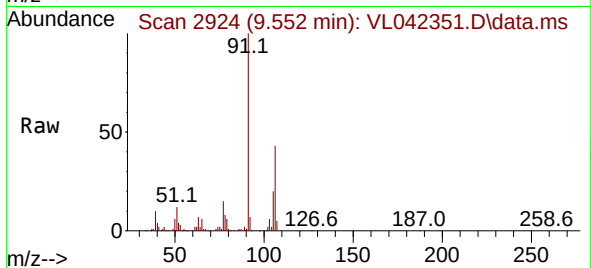
VSTDIC001

Tgt Ion: 91 Resp: 48794

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 1.056 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042351.D

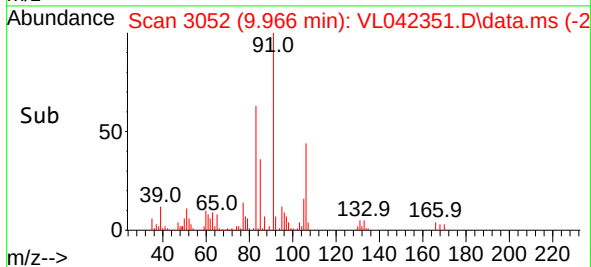
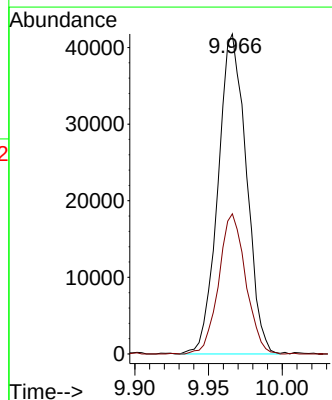
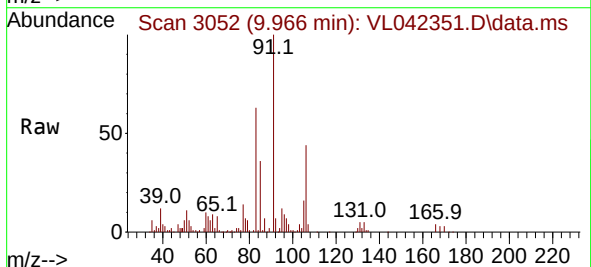
Acq: 17 Apr 2025 10:48

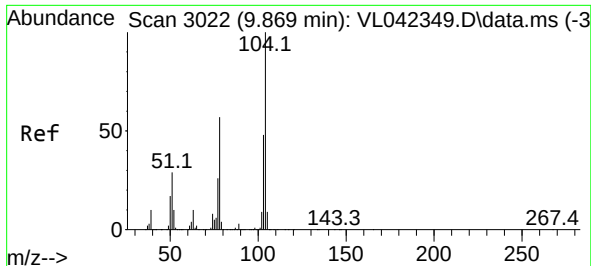
Tgt Ion: 91 Resp: 55831

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





#61

Styrene

Concen: 1.012 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

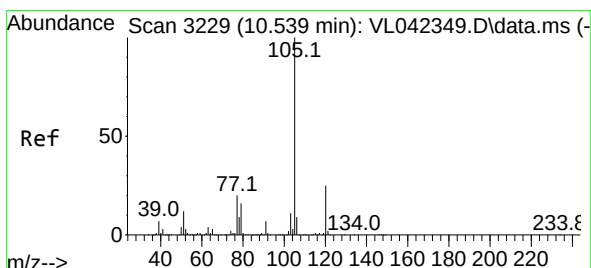
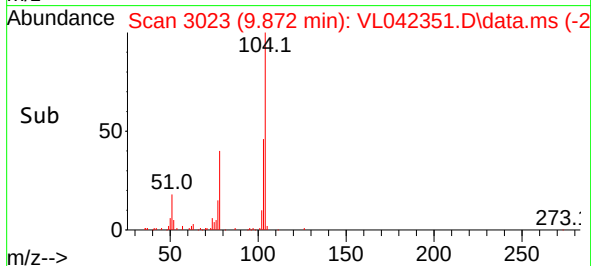
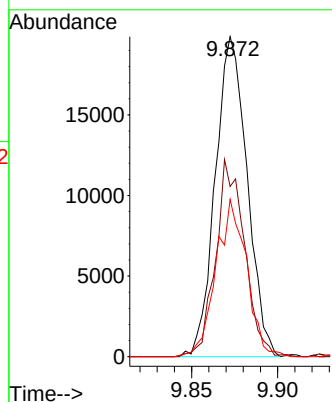
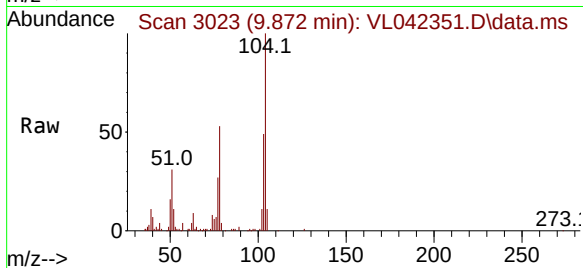
Tgt Ion:104 Resp: 25544

Ion Ratio Lower Upper

104 100

78 55.7 44.6 66.8

103 47.2 37.4 56.0



#62

Isopropylbenzene

Concen: 1.047 ppbv

RT: 10.542 min Scan# 3230

Delta R.T. 0.004 min

Lab File: VL042351.D

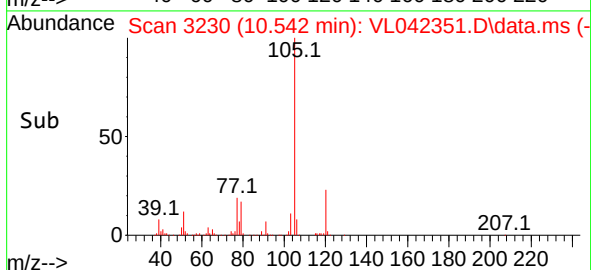
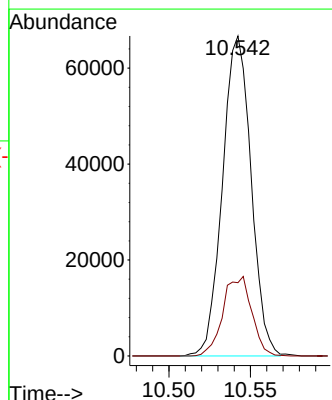
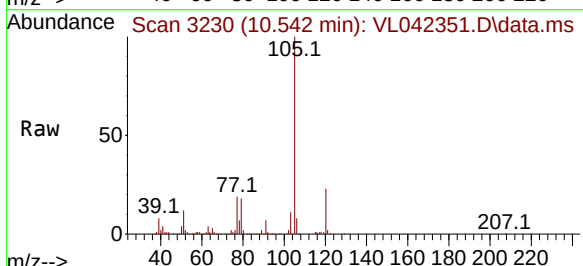
Acq: 17 Apr 2025 10:48

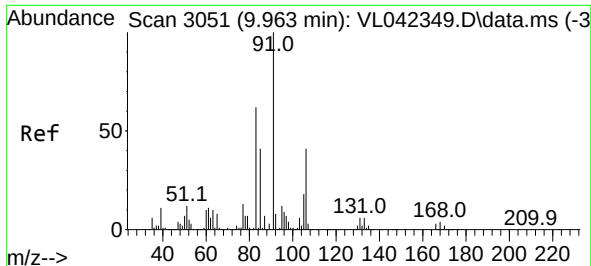
Tgt Ion:105 Resp: 81286

Ion Ratio Lower Upper

105 100

120 25.0 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.943 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

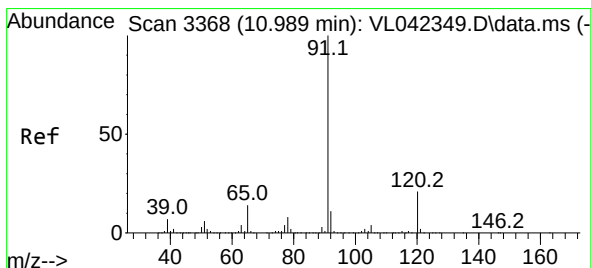
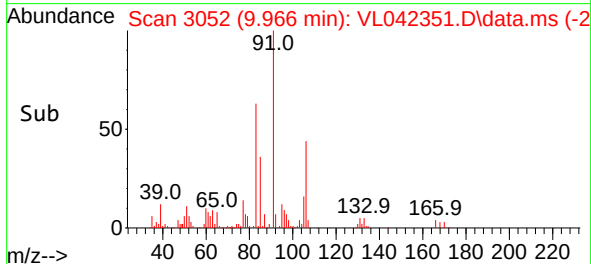
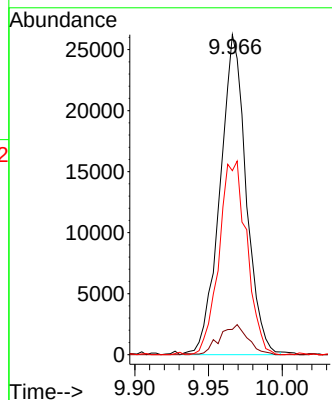
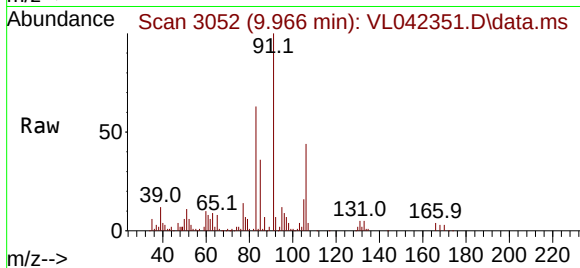
Tgt Ion: 83 Resp: 32410

Ion Ratio Lower Upper

83 100

131 10.2 4.5 13.7

85 64.4 32.4 97.0



#64

n-propylbenzene

Concen: 1.019 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL042351.D

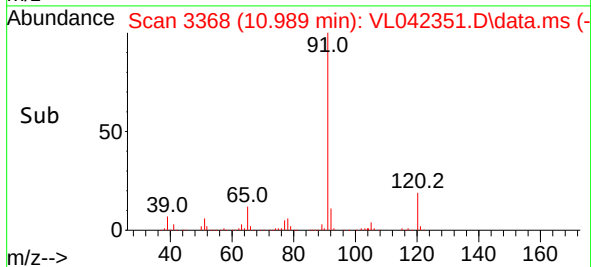
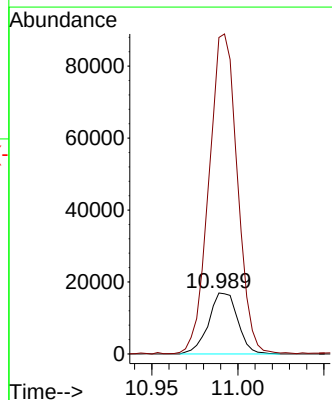
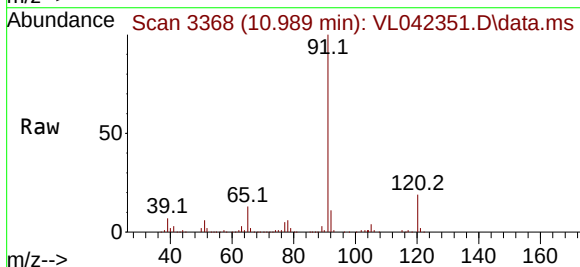
Acq: 17 Apr 2025 10:48

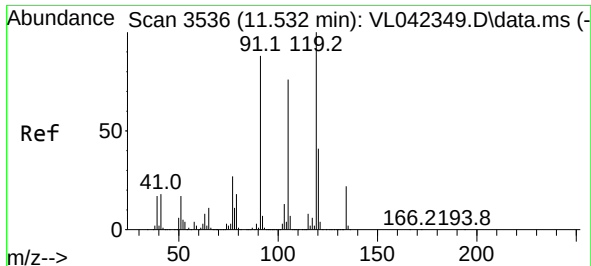
Tgt Ion:120 Resp: 19898

Ion Ratio Lower Upper

120 100

91 517.6 392.4 588.6

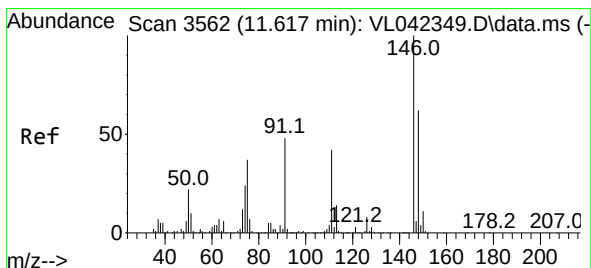
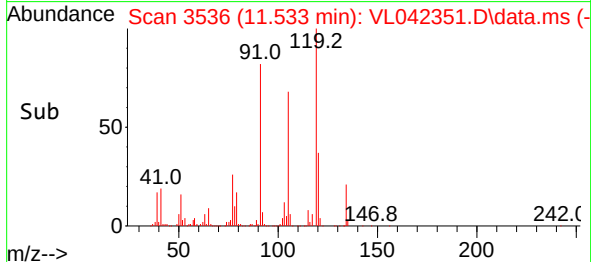
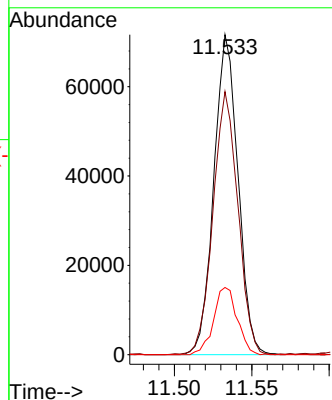
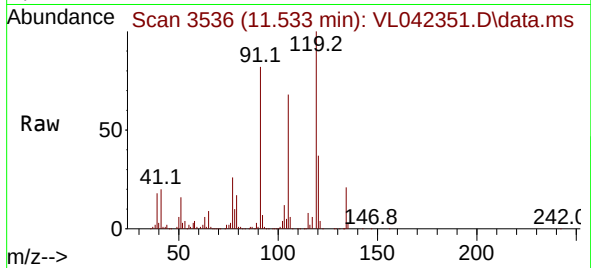




#65  
tert-Butylbenzene  
Concen: 1.087 ppbv  
RT: 11.533 min Scan# 3536  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

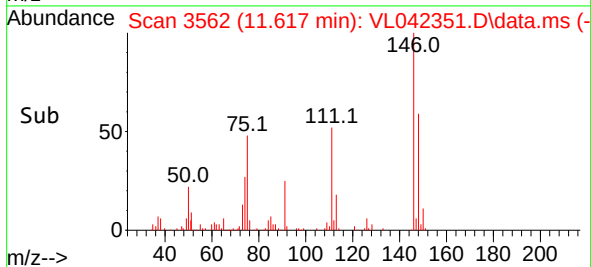
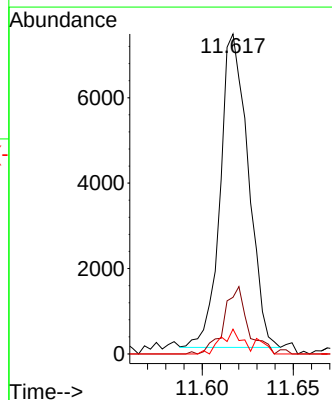
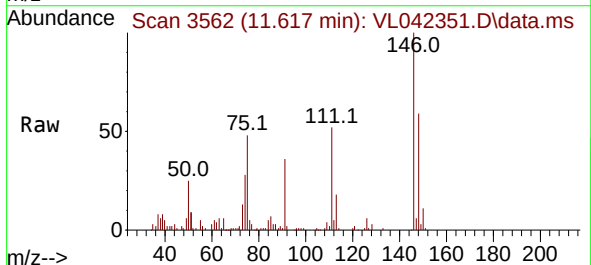
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

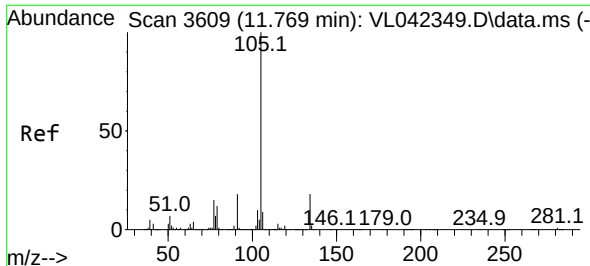
Tgt Ion:119 Resp: 77598  
Ion Ratio Lower Upper  
119 100  
91 85.0 74.6 111.8  
134 20.5 18.8 28.2



#66  
Benzyl Chloride  
Concen: 1.003 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864  
Ion Ratio Lower Upper  
91 100  
126 18.6 11.8 17.6#  
128 7.7 4.5 6.7#

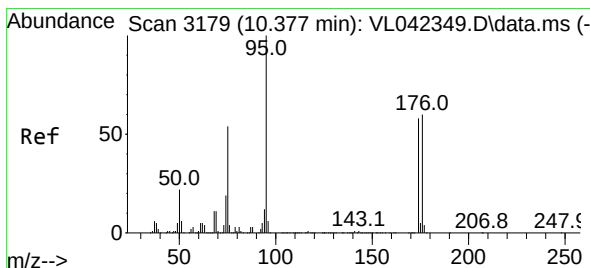
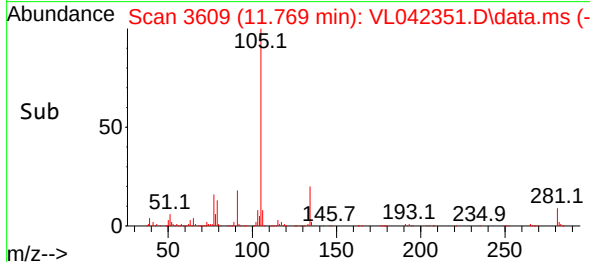
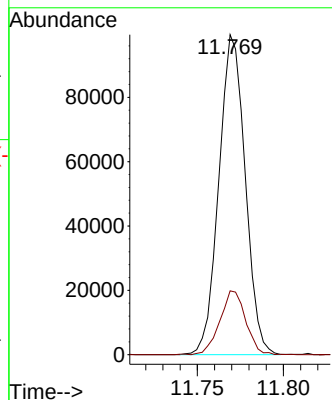
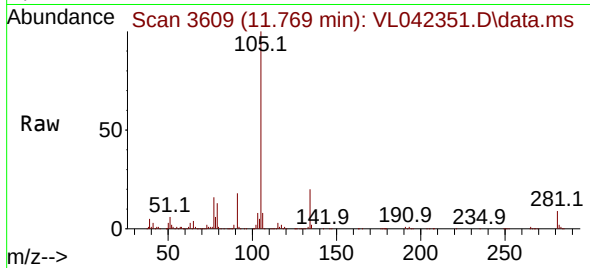




#67  
 sec-Butylbenzene  
 Concen: 1.067 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

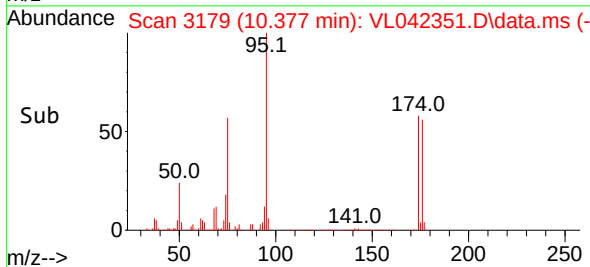
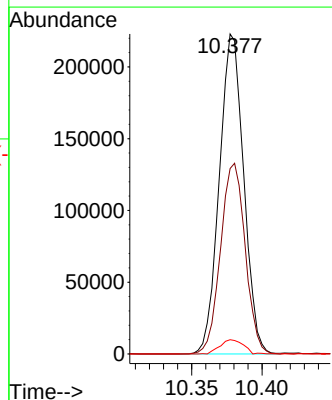
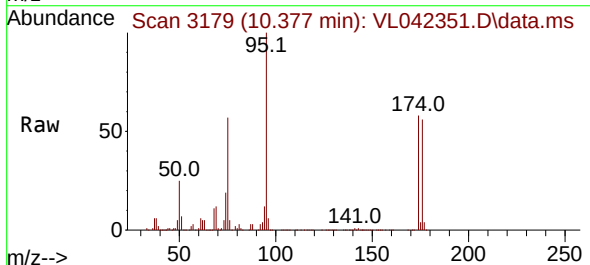
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

Tgt Ion:105 Resp: 105919  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 14.6 21.8

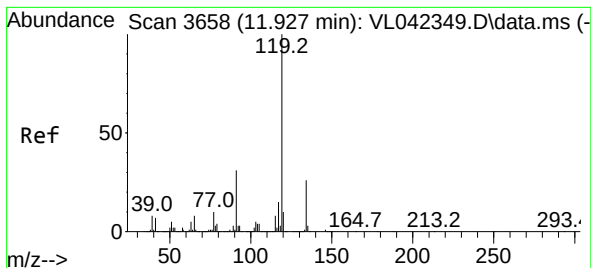


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.950 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087  
 Ion Ratio Lower Upper  
 95 100  
 174 60.4 48.5 72.7  
 175 4.3 3.7 5.5







#69

p-Isopropyltoluene

Concen: 1.075 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

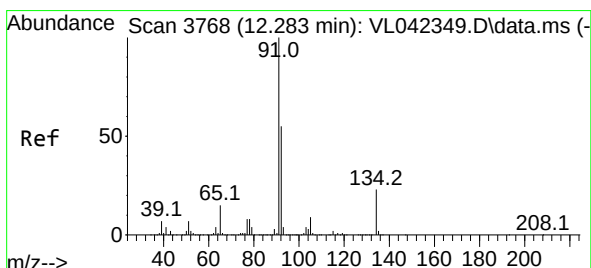
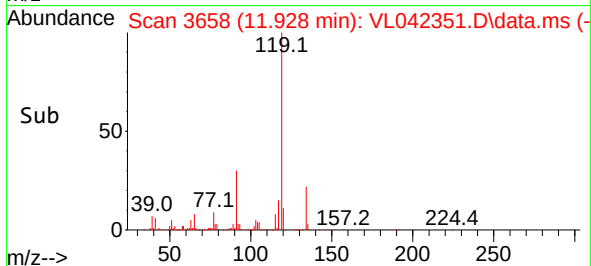
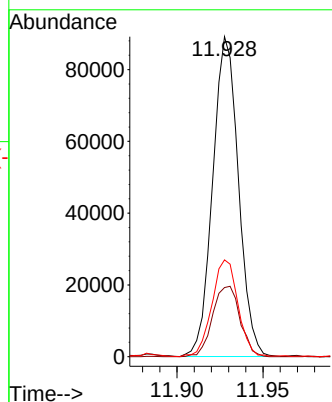
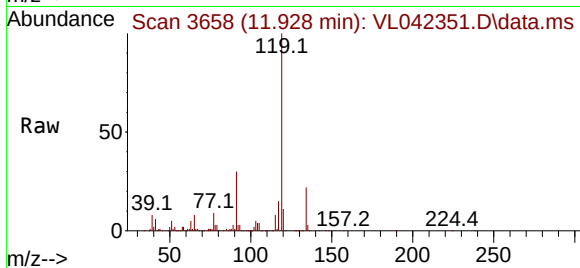
Tgt Ion:119 Resp: 92733

Ion Ratio Lower Upper

119 100

134 23.5 20.0 30.0

91 32.1 24.4 36.6



#70

n-Butylbenzene

Concen: 1.072 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

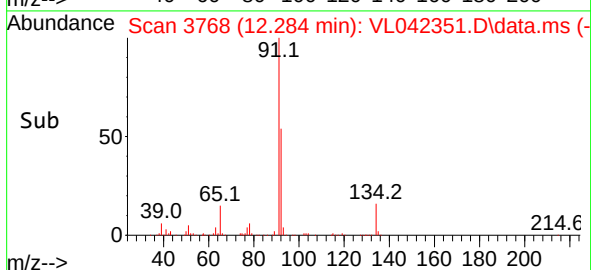
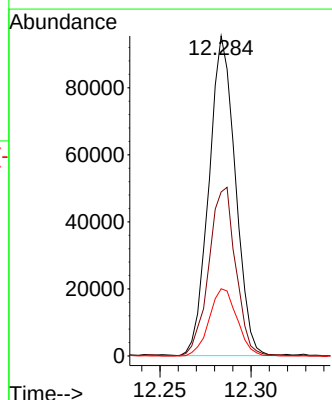
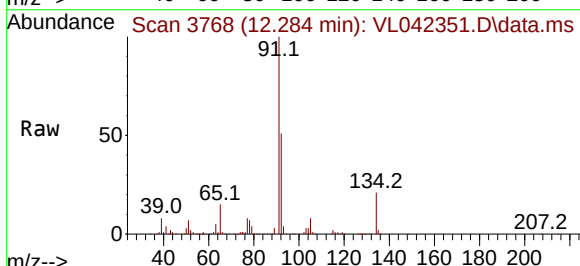
Tgt Ion: 91 Resp: 96306

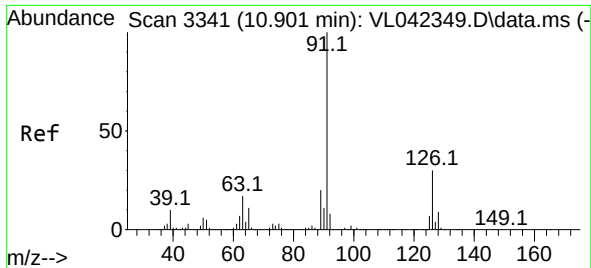
Ion Ratio Lower Upper

91 100

92 54.2 44.2 66.4

134 22.1 18.2 27.4

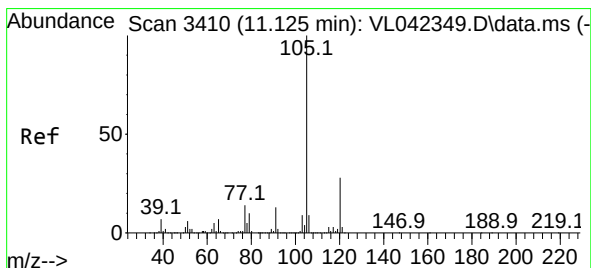
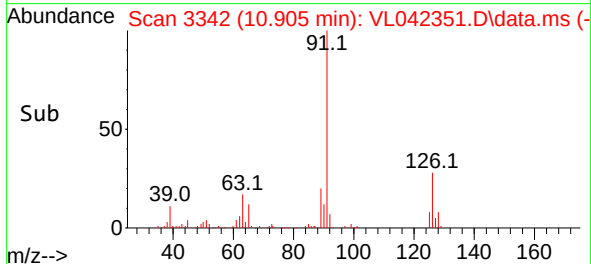
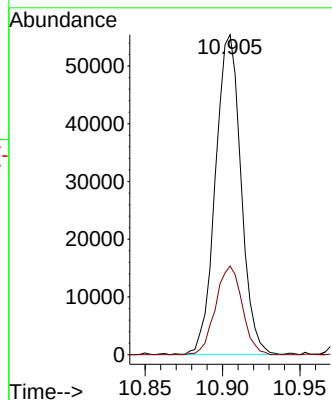
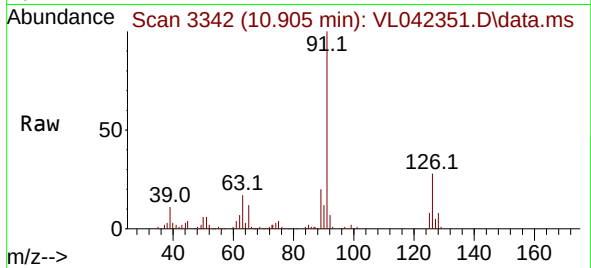




#71  
2-Chlorotoluene  
Concen: 1.040 ppbv  
RT: 10.905 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

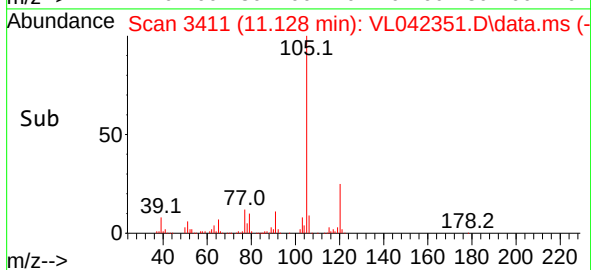
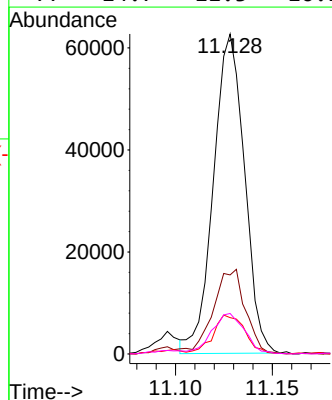
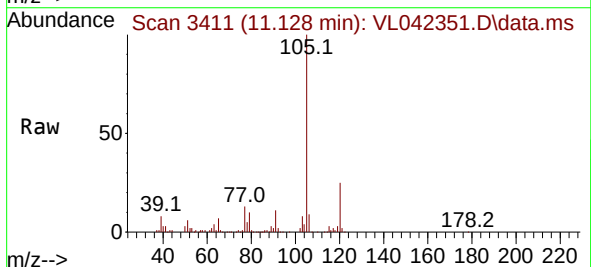
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

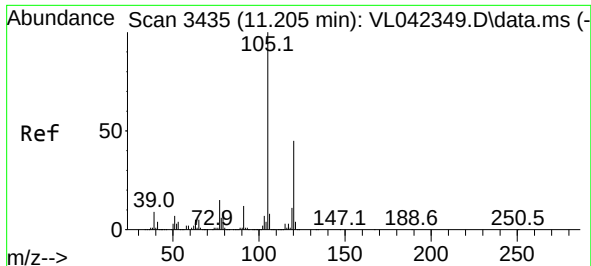
Tgt Ion: 91 Resp: 63321  
Ion Ratio Lower Upper  
91 100  
126 28.9 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 1.078 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.2 34.8  
91 13.5 10.4 15.6  
77 14.7 11.3 16.9

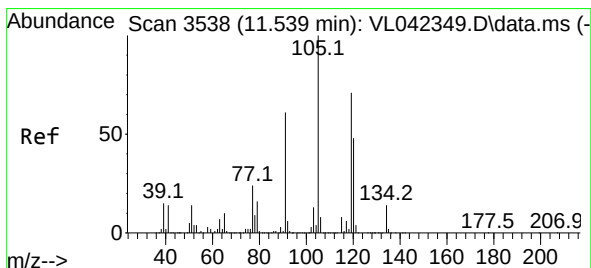
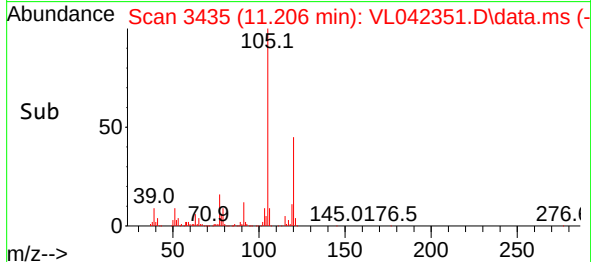
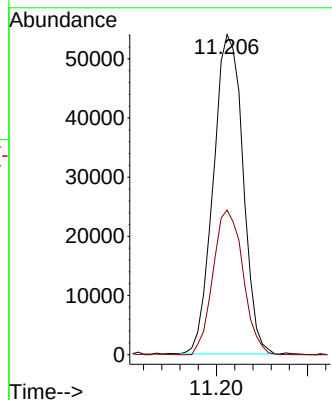
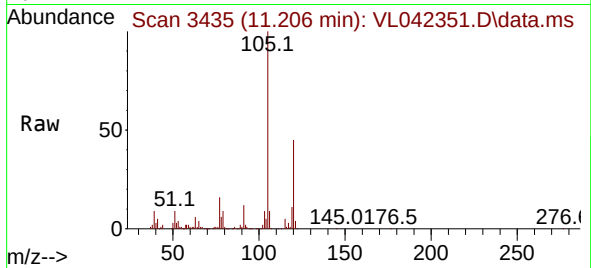




#73  
 1,3,5-Trimethylbenzene  
 Concen: 1.067 ppbv  
 RT: 11.206 min Scan# 3435  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

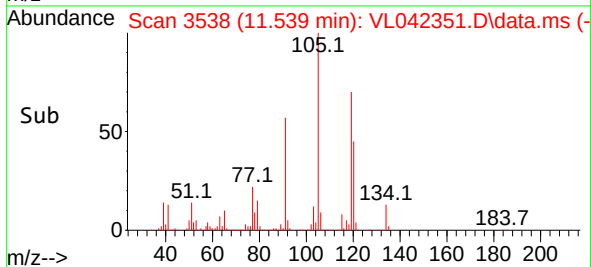
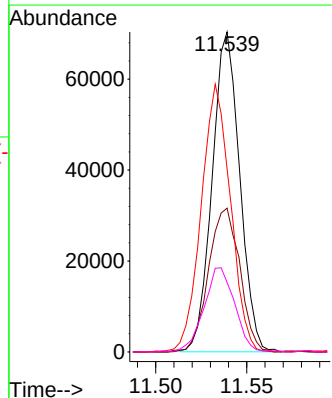
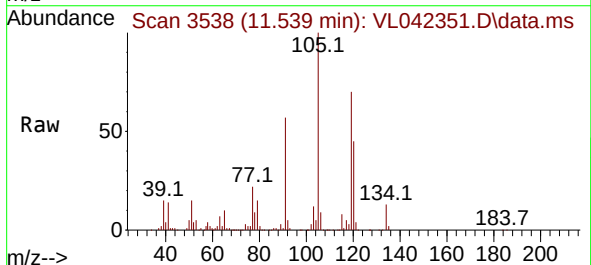
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

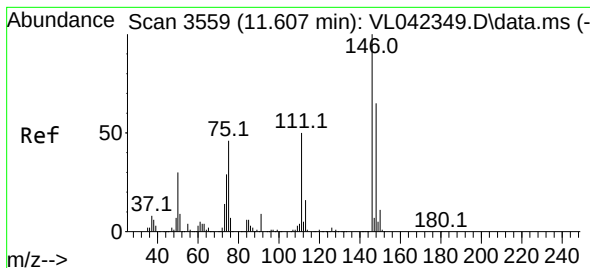
Tgt Ion:105 Resp: 60927  
 Ion Ratio Lower Upper  
 105 100  
 120 45.3 35.6 53.4



#74  
 1,2,4-Trimethylbenzene  
 Concen: 1.108 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 38.1 57.1  
 91 57.0 48.8 73.2  
 77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 1.064 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

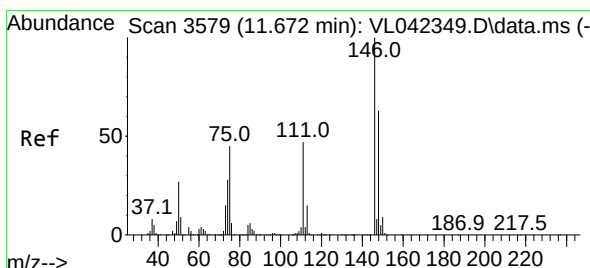
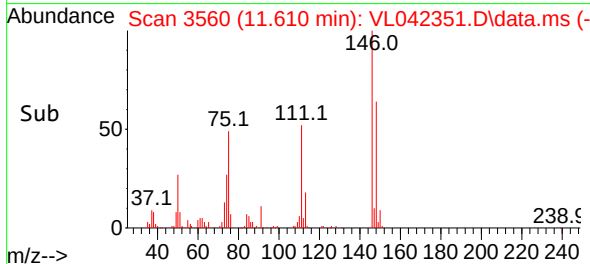
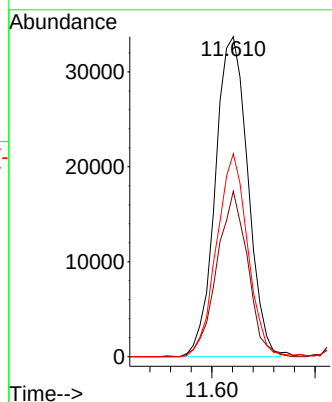
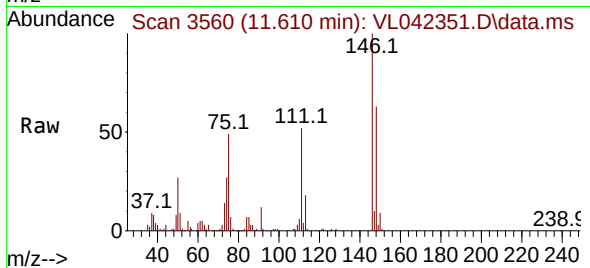
Tgt Ion:146 Resp: 36877

Ion Ratio Lower Upper

146 100

111 48.9 24.3 72.8

148 60.8 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 1.053 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

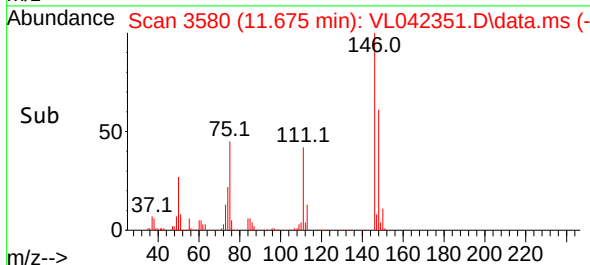
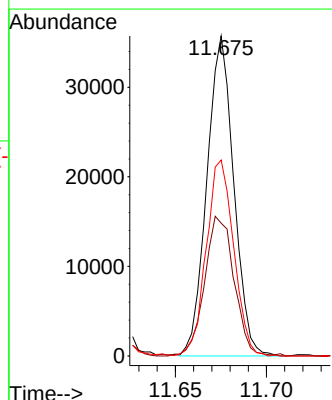
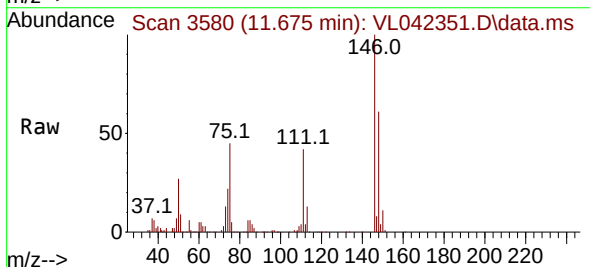
Tgt Ion:146 Resp: 36692

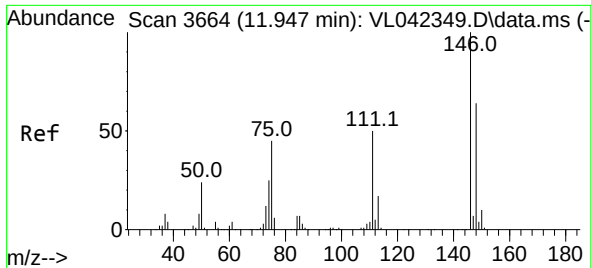
Ion Ratio Lower Upper

146 100

111 47.7 24.2 72.6

148 62.3 32.1 96.5

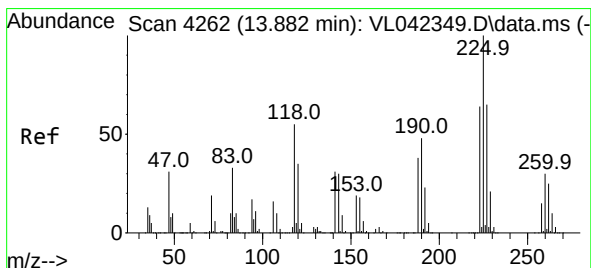
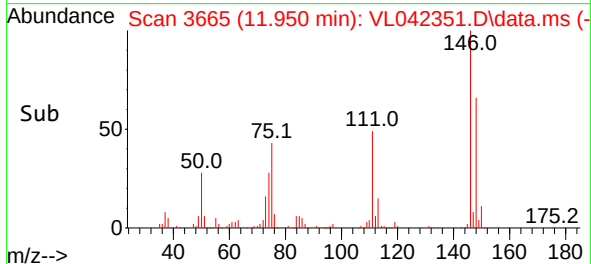
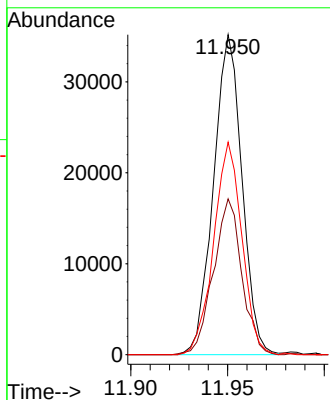
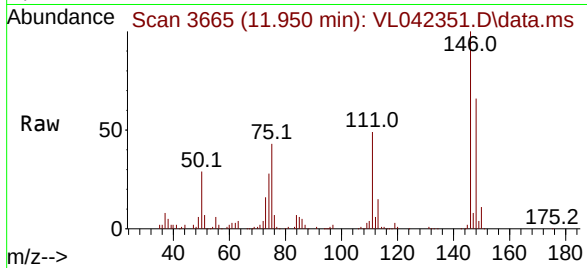




#77  
1,2-Dichlorobenzene  
Concen: 1.068 ppbv  
RT: 11.950 min Scan# 30  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

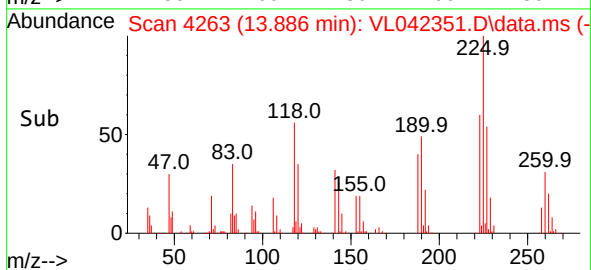
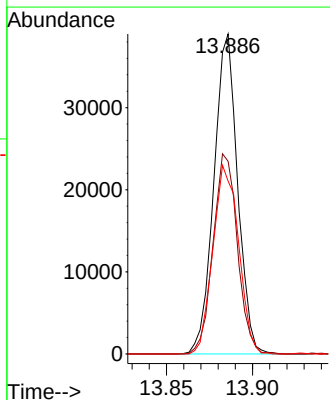
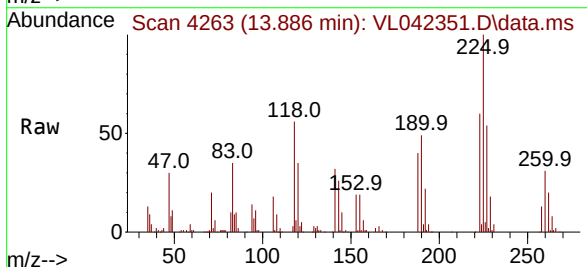
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

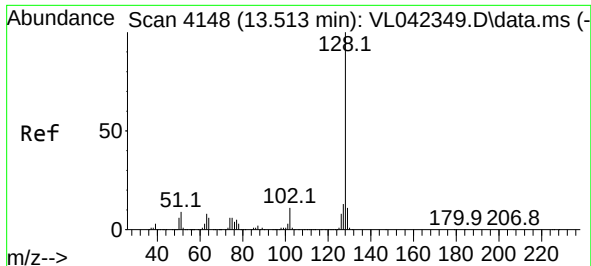
Tgt Ion:146 Resp: 35977  
Ion Ratio Lower Upper  
146 100  
111 48.7 25.3 75.9  
148 65.9 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 1.098 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377  
Ion Ratio Lower Upper  
225 100  
223 64.1 50.3 75.5  
227 63.6 51.5 77.3

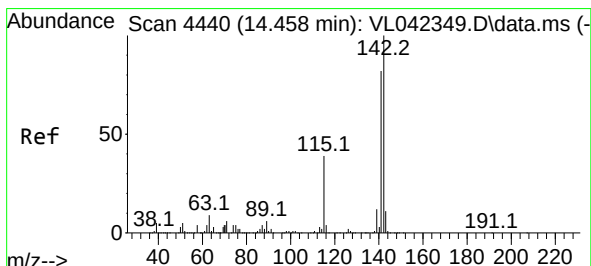
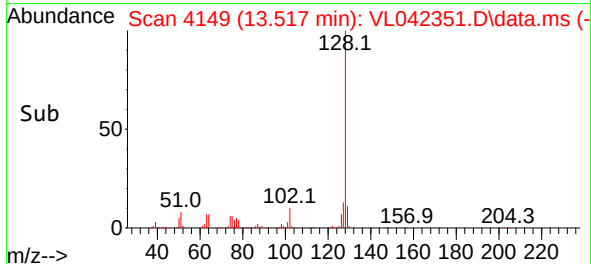
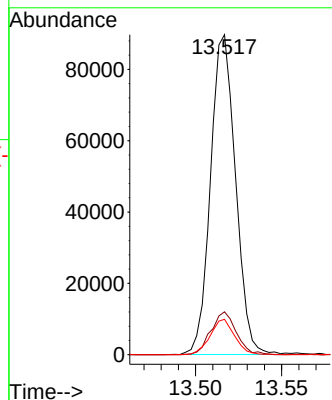
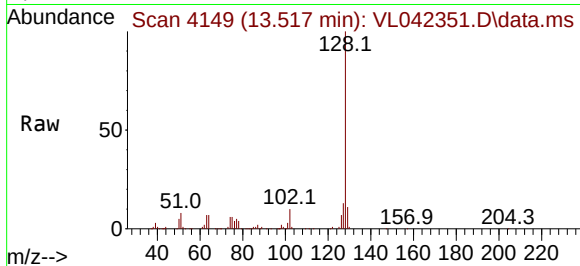




#79  
Naphthalene  
Concen: 1.138 ppbv  
RT: 13.517 min Scan# 4148  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

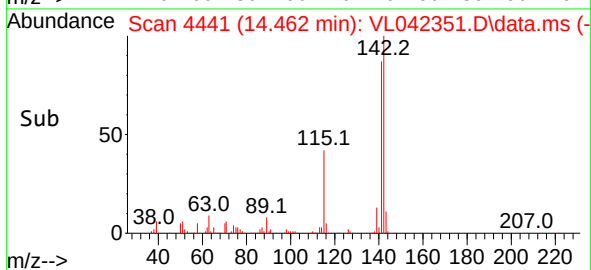
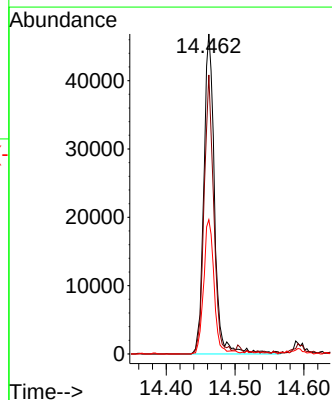
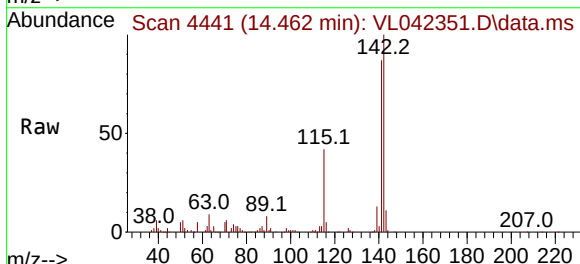
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

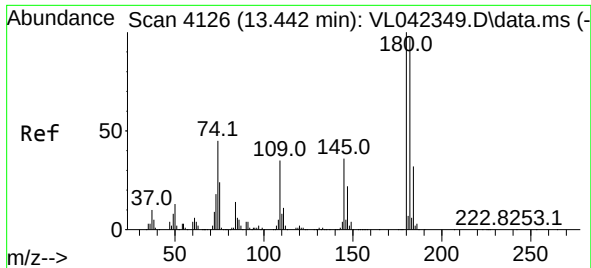
Tgt Ion:128 Resp: 90710  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.6 15.8  
129 11.1 8.6 12.8



#80  
Naphthalene,2-methyl-  
Concen: 1.111 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.004 min  
Lab File: VL042351.D  
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487  
Ion Ratio Lower Upper  
142 100  
141 80.9 66.8 100.2  
115 41.2 33.4 50.2

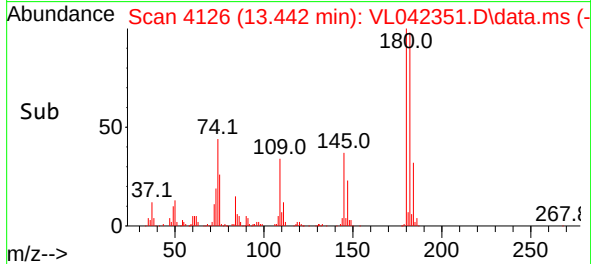
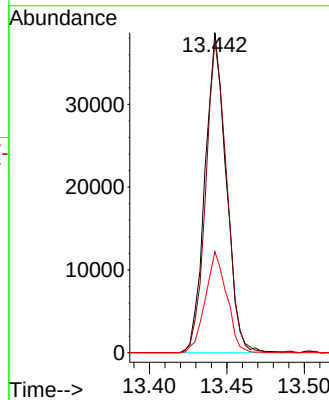
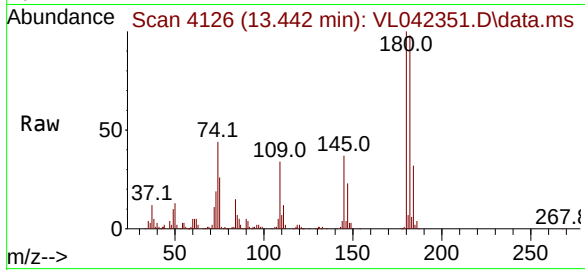




#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.074 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042351.D  
 Acq: 17 Apr 2025 10:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 76.8  | 115.2 |
| 184     | 32.0  | 24.6  | 36.8  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042352.D  
 Acq On : 17 Apr 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Apr 18 01:28:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 120542   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 353137   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 321644   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 265161   | 10.032   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.300% |

| Target Compounds              |       |     |       |       |        | Qvalue |
|-------------------------------|-------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 11036 | 0.518 | ppbv   | 92     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 11304 | 0.557 | ppbv # | 84     |
| 4) Chloromethane              | 1.531 | 50  | 4534  | 0.538 | ppbv   | 97     |
| 5) Vinyl Chloride             | 1.580 | 62  | 4406  | 0.480 | ppbv   | 97     |
| 6) Bromomethane               | 1.667 | 94  | 2394  | 0.602 | ppbv   | 95     |
| 7) Chloroethane               | 1.703 | 64  | 1824  | 0.550 | ppbv # | 87     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 9381  | 0.513 | ppbv   | 99     |
| 9) Propene                    | 1.483 | 41  | 5303  | 0.574 | ppbv   | 93     |
| 10) Heptane                   | 4.978 | 43  | 5438  | 0.219 | ppbv # | 1      |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 10150 | 0.501 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 8371  | 0.506 | ppbv   | 93     |
| 13) Ethanol                   | 1.719 | 45  | 715   | 0.947 | ppbv # | 24     |
| 14) Bromoethene               | 1.780 | 108 | 3238  | 0.519 | ppbv # | 93     |
| 15) Acetone                   | 1.835 | 43  | 11859 | 0.601 | ppbv # | 74     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 6120  | 0.660 | ppbv # | 82     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 13640 | 0.558 | ppbv # | 85     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 4430  | 0.556 | ppbv # | 87     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 6327  | 0.577 | ppbv # | 39     |
| 20) Methylene Chloride        | 2.059 | 84  | 5273  | 0.682 | ppbv   | 93     |
| 21) Allyl Chloride            | 2.094 | 41  | 7692  | 0.565 | ppbv # | 81     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 4908  | 0.557 | ppbv   | 92     |
| 23) Vinyl Acetate             | 2.460 | 43  | 3953  | 0.495 | ppbv # | 57     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 8753  | 0.523 | ppbv # | 94     |
| 25) Ethyl Acetate             | 2.835 | 43  | 26686 | 0.548 | ppbv # | 93     |
| 26) Hexane                    | 2.823 | 57  | 11448 | 0.581 | ppbv   | 91     |
| 27) Carbon Disulfide          | 2.149 | 76  | 11472 | 0.544 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 6833  | 0.530 | ppbv # | 32     |
| 29) Chloroform                | 2.848 | 83  | 14815 | 0.532 | ppbv   | 93     |
| 30) Cyclohexane               | 3.852 | 84  | 8572  | 0.541 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 9571  | 0.511 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 15413 | 0.516 | ppbv   | 97     |
| 34) 2-Butanone                | 2.560 | 43  | 15640 | 0.560 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 14683 | 0.459 | ppbv   | 87     |
| 36) Benzene                   | 3.651 | 78  | 20233 | 0.531 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 12194 | 0.533 | ppbv # | 95     |
| 38) Trichloroethene           | 4.551 | 130 | 7819  | 0.468 | ppbv # | 78     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 3195  | 0.225 | ppbv   | 89     |
| 40) 1,4-Dioxane               | 4.599 | 88  | 2550  | 0.331 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 3.062 | 42  | 8773  | 0.544 | ppbv   | 95     |
| 42) Bromodichloromethane      | 4.489 | 83  | 16642 | 0.523 | ppbv # | 91     |
| 43) Methyl Methacrylate       | 4.871 | 69  | 1556  | 0.091 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 34170 | 0.519 | ppbv   | 91     |
| 45) t-1,3-Dichloropropene     | 6.393 | 75  | 1332  | 0.076 | ppbv   | 92     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042352.D  
 Acq On : 17 Apr 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

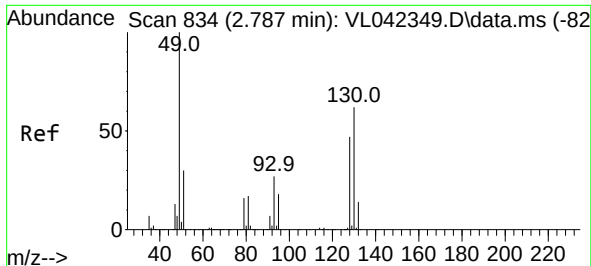
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 7634     | 0.356 | ppbv # | 91       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 2374     | 0.164 | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.386  | 129  | 13122    | 0.514 | ppbv   | 97       |
| 49) Bromoform                 | 9.477  | 173  | 10988    | 0.492 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 14380    | 0.309 | ppbv # | 39       |
| 51) 2-Hexanone                | 7.441  | 43   | 23684    | 0.564 | ppbv   | 98       |
| 52) Tetrachloroethene         | 8.221  | 164  | 7412     | 0.503 | ppbv # | 88       |
| 53) Toluene                   | 6.927  | 91   | 24200    | 0.529 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 10282    | 0.499 | ppbv   | 84       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 9987     | 0.513 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.924  | 112  | 6884     | 0.206 | ppbv   | 90       |
| 58) Ethyl Benzene             | 9.351  | 91   | 32624    | 0.512 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.548  | 91   | 22598    | 0.439 | ppbv # | 32       |
| 60) o-Xylene                  | 9.963  | 91   | 27983    | 0.541 | ppbv   | 99       |
| 61) Styrene                   | 9.869  | 104  | 12736    | 0.516 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.539 | 105  | 40481    | 0.533 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 15920    | 0.474 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 10369    | 0.544 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 37294    | 0.535 | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.613 | 91   | 3878     | 0.506 | ppbv # | 91       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 52139    | 0.537 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 45574    | 0.541 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 48004    | 0.547 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 31709    | 0.533 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 33048    | 0.523 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 30464    | 0.546 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 37765    | 0.579 | ppbv # | 90       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 18003    | 0.531 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 18300    | 0.537 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 17446    | 0.530 | ppbv   | 95       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 18705    | 0.562 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 38521    | 0.494 | ppbv # | 92       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 21076    | 0.475 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 16504    | 0.493 | ppbv   | 97       |

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

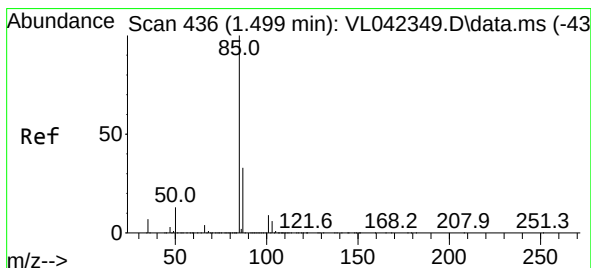
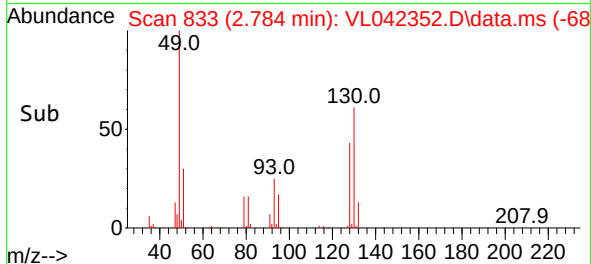
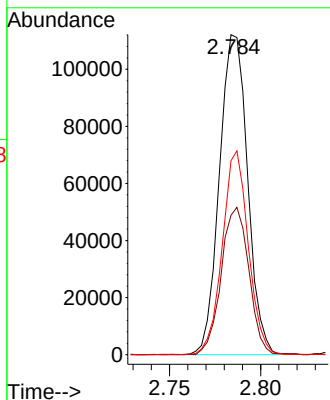
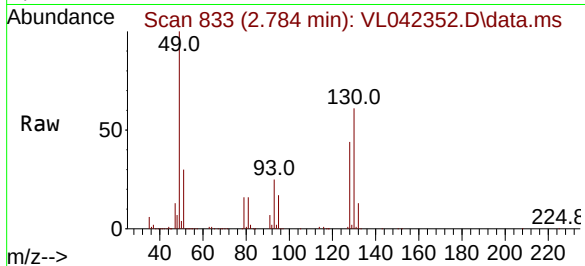




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.784 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

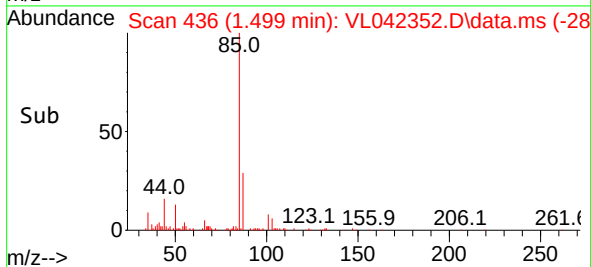
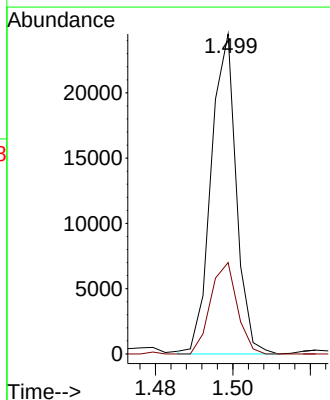
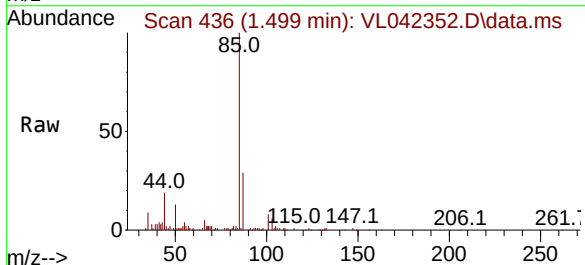
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

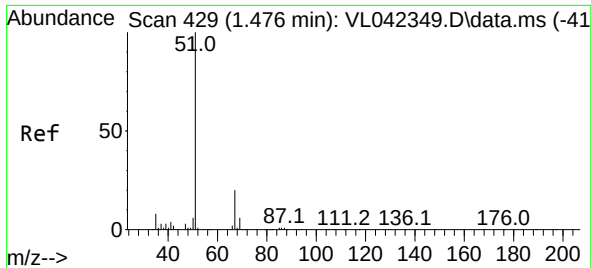
Tgt Ion: 49 Resp: 120542  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 59.0 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 0.518 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036  
Ion Ratio Lower Upper  
85 100  
87 28.6 26.6 39.8

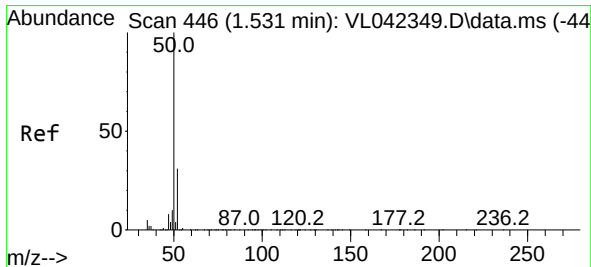
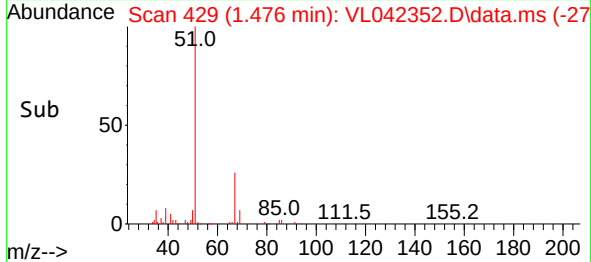
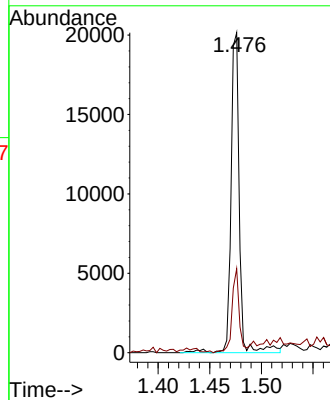
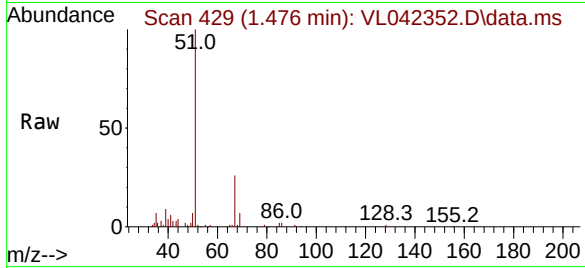




#3  
Chlorodifluoromethane  
Concen: 0.557 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

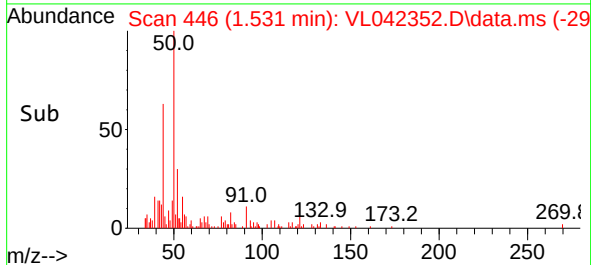
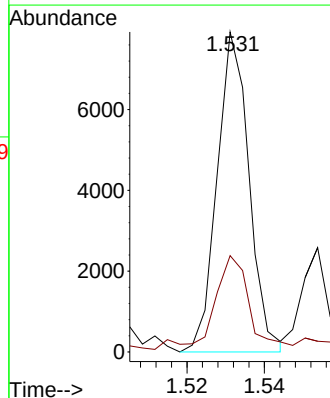
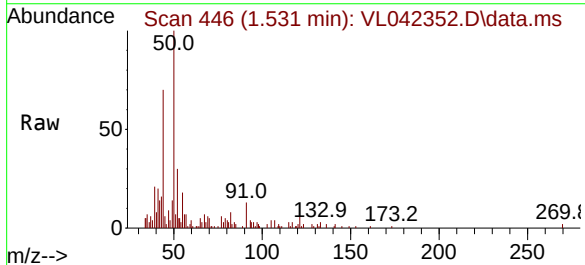
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

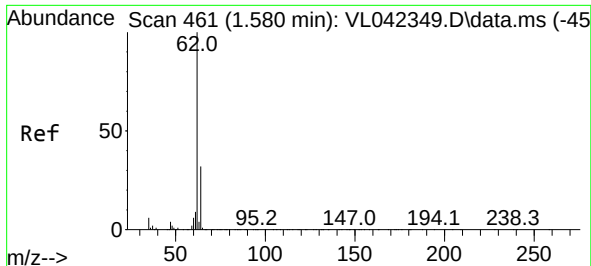
Tgt Ion: 51 Resp: 11304  
Ion Ratio Lower Upper  
51 100  
67 27.8 16.2 24.4#



#4  
Chloromethane  
Concen: 0.538 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534  
Ion Ratio Lower Upper  
50 100  
52 32.8 24.7 37.1

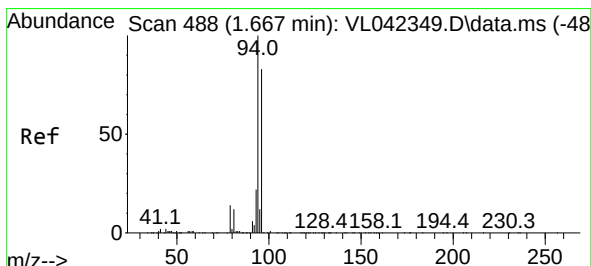
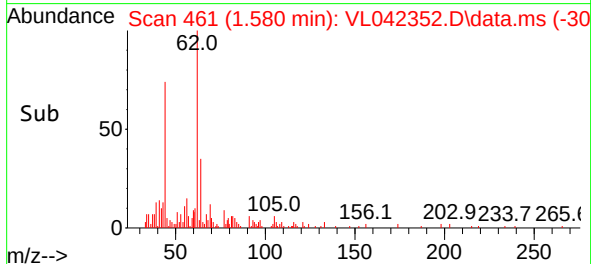
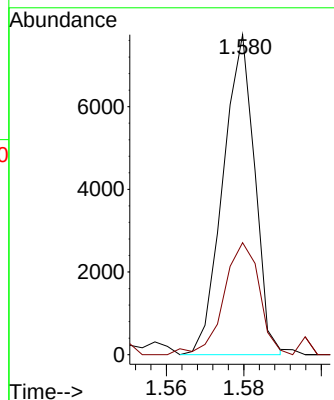
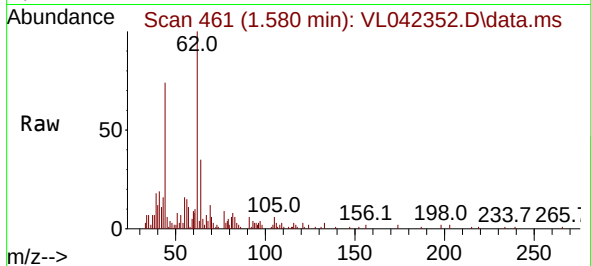




#5  
 Vinyl Chloride  
 Concen: 0.480 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

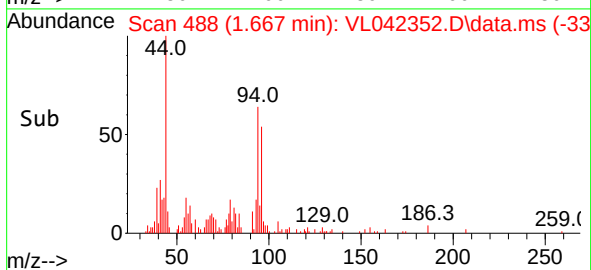
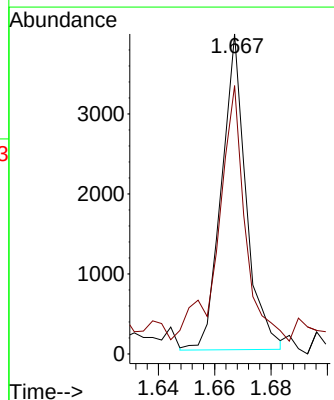
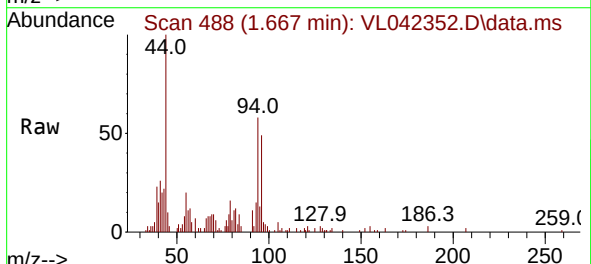
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

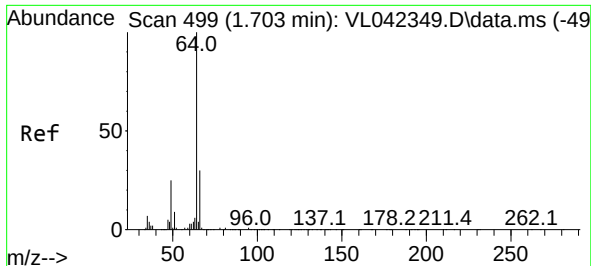
Tgt Ion: 62 Resp: 4406  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 25.4 38.0



#6  
 Bromomethane  
 Concen: 0.602 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394  
 Ion Ratio Lower Upper  
 94 100  
 96 78.1 66.2 99.2

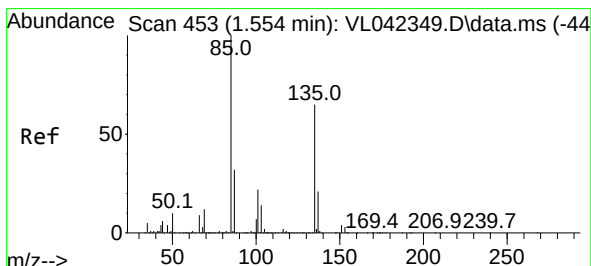
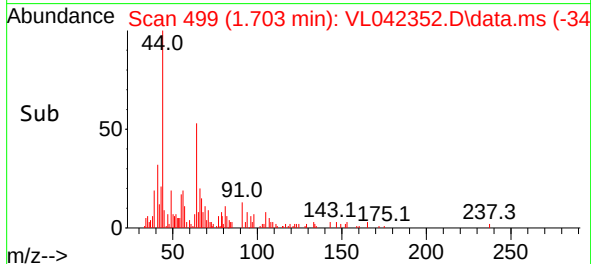
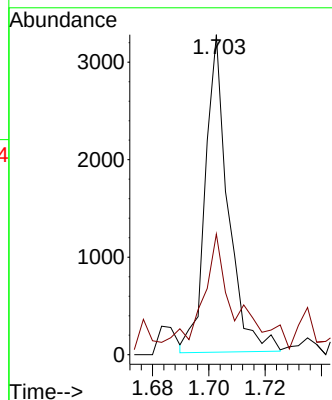
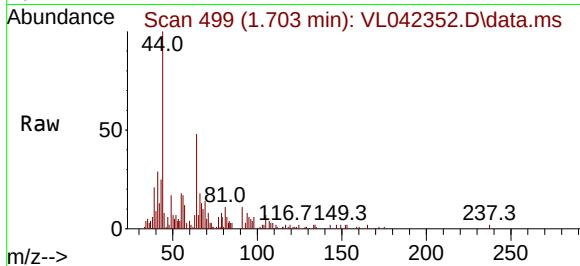




#7  
Chloroethane  
Concen: 0.550 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

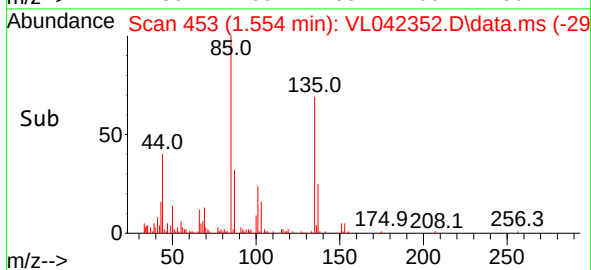
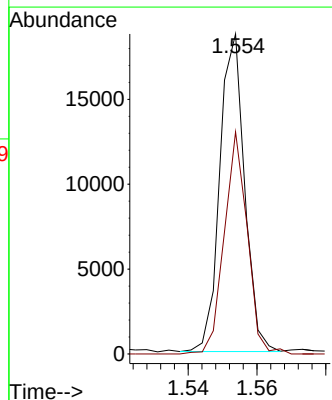
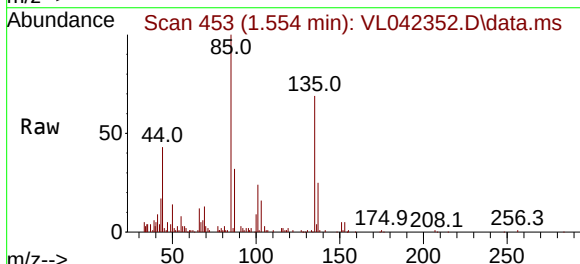
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

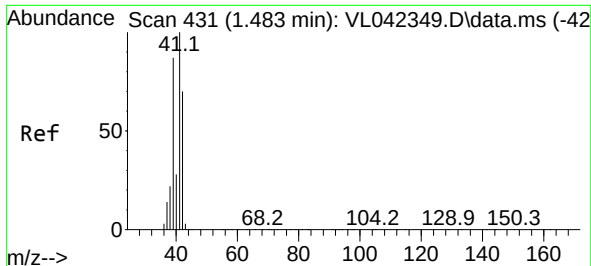
Tgt Ion: 64 Resp: 1824  
Ion Ratio Lower Upper  
64 100  
66 37.7 24.6 37.0#



#8  
Dichlorotetrafluoroethane  
Concen: 0.513 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381  
Ion Ratio Lower Upper  
85 100  
135 66.2 52.2 78.2





#9

Propene

Concen: 0.574 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_1

ClientSampleId :

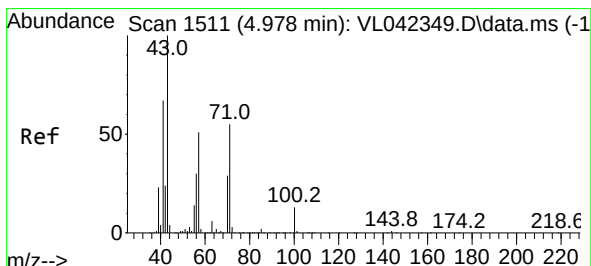
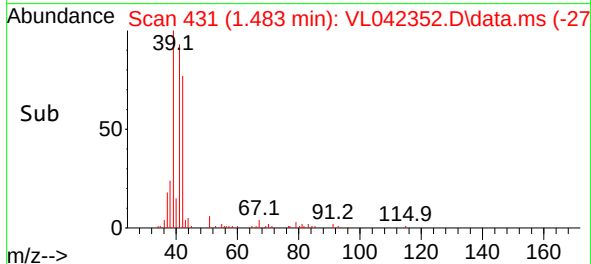
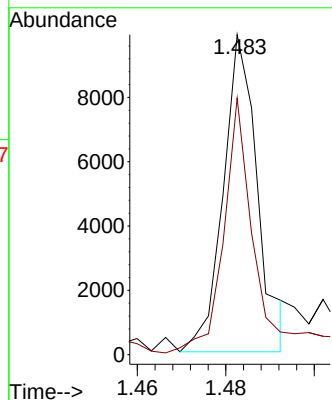
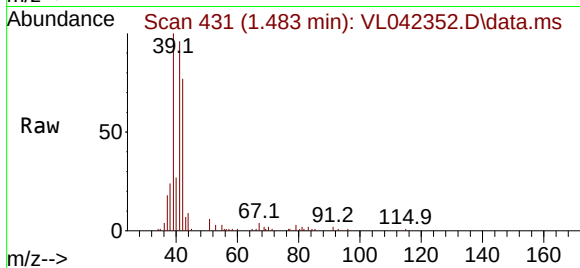
VSTDICC0.5

Tgt Ion: 41 Resp: 5303

Ion Ratio Lower Upper

41 100

42 64.8 56.2 84.4



#10

Heptane

Concen: 0.219 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042352.D

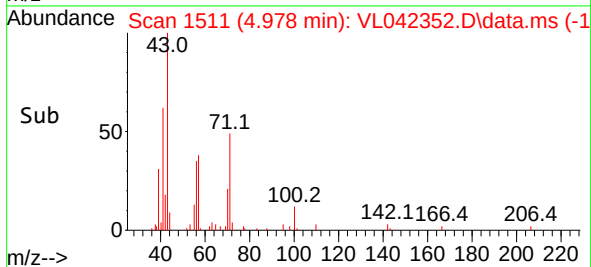
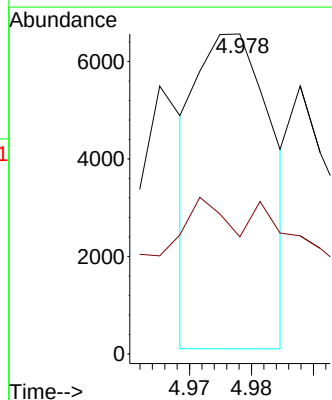
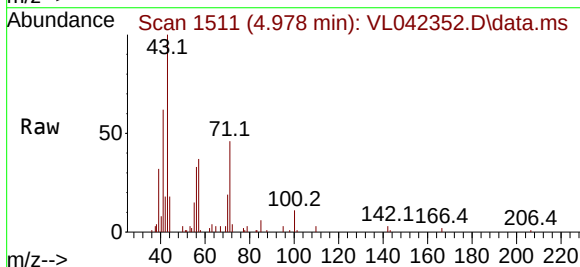
Acq: 17 Apr 2025 11:19

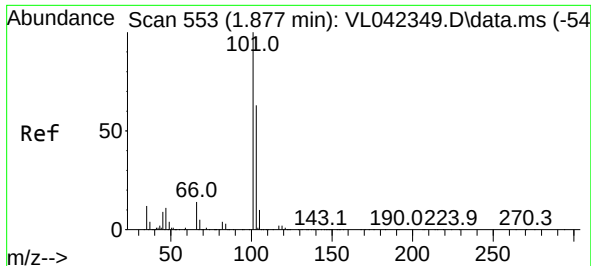
Tgt Ion: 43 Resp: 5438

Ion Ratio Lower Upper

43 100

57 138.4 39.9 59.9#

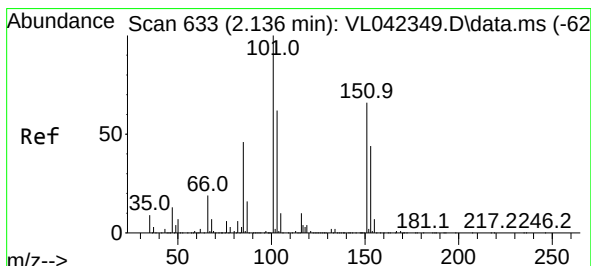
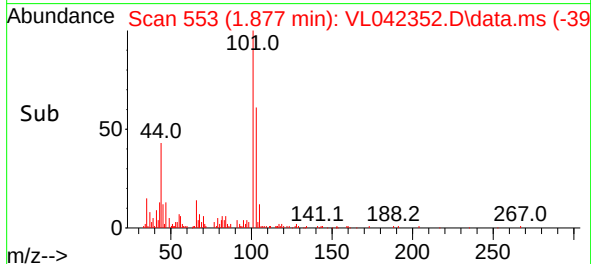
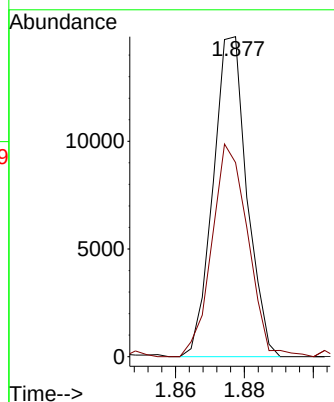
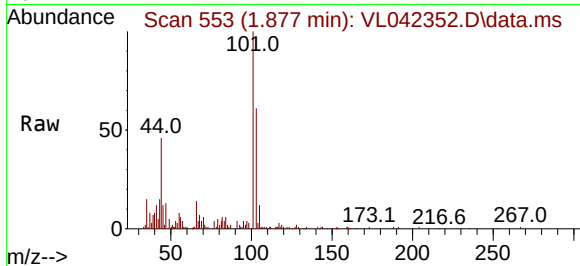




#11  
Trichlorofluoromethane  
Concen: 0.501 ppbv  
RT: 1.877 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

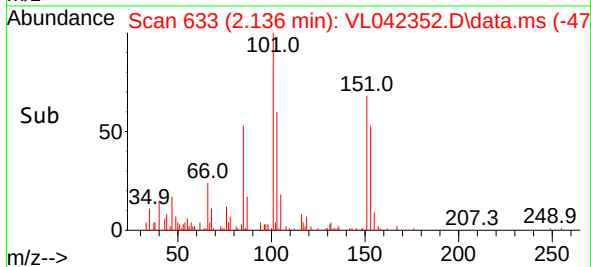
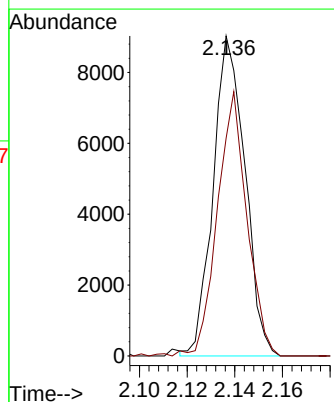
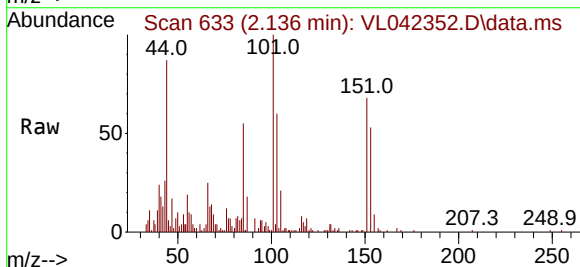
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:101 Resp: 10150  
Ion Ratio Lower Upper  
101 100  
103 60.6 50.1 75.1

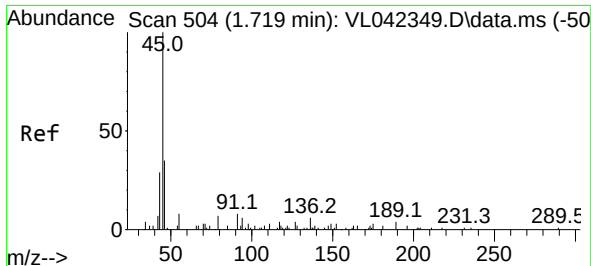


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.506 ppbv  
RT: 2.136 min Scan# 633  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371  
Ion Ratio Lower Upper  
101 100  
151 77.4 57.0 85.6



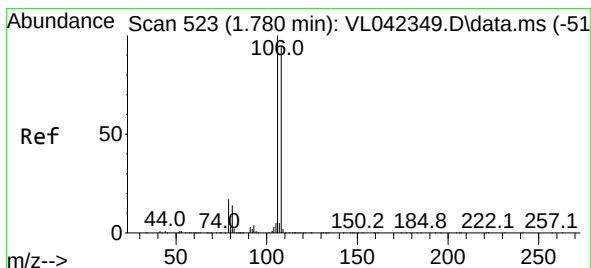
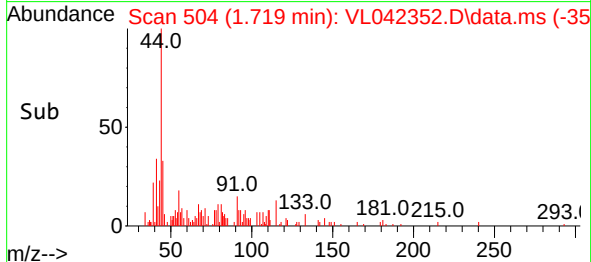
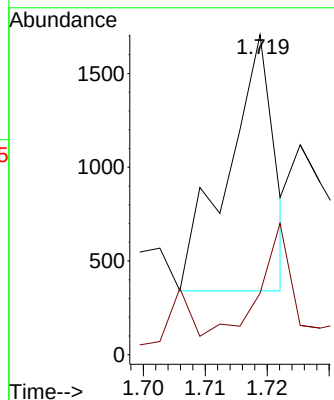
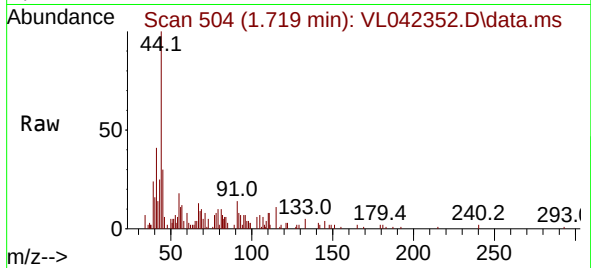




#13  
Ethanol  
Concen: 0.947 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

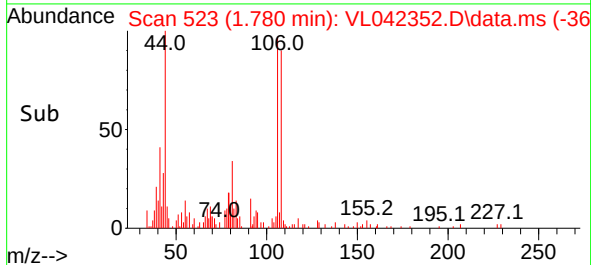
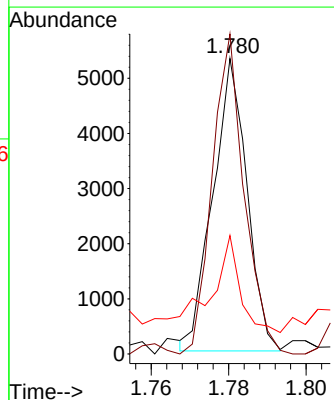
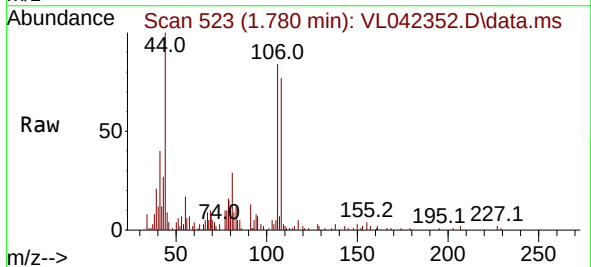
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

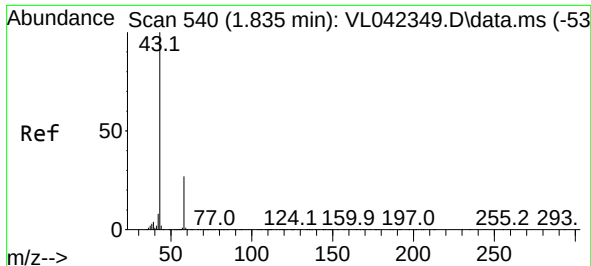
Tgt Ion: 45 Resp: 715  
Ion Ratio Lower Upper  
45 100  
46 0.0 21.9 87.7#



#14  
Bromoethene  
Concen: 0.519 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 108 Resp: 3238  
Ion Ratio Lower Upper  
108 100  
106 110.3 85.9 128.9  
79 33.0 13.9 20.9#

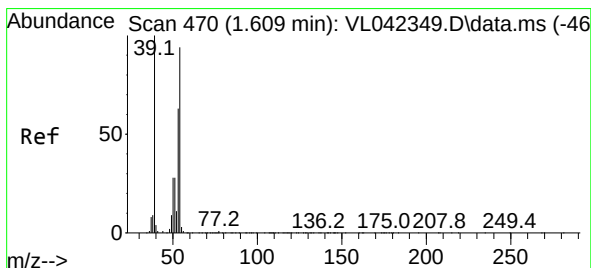
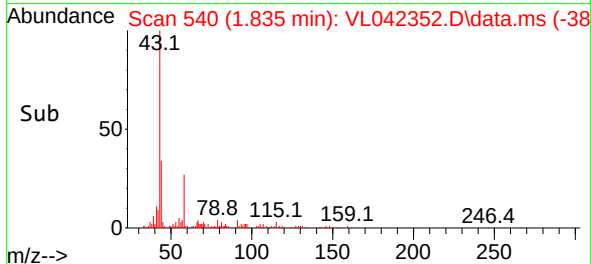
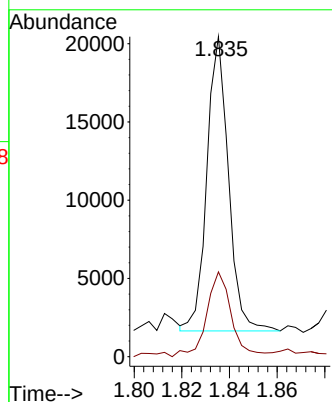
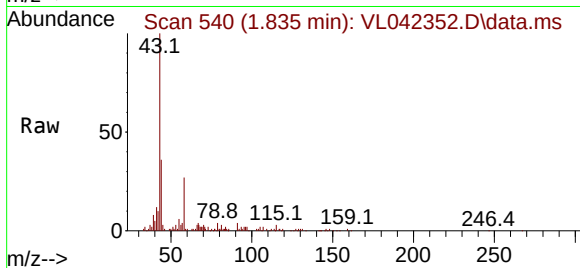




#15  
Acetone  
Concen: 0.601 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

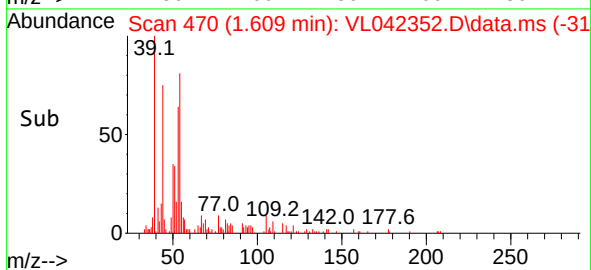
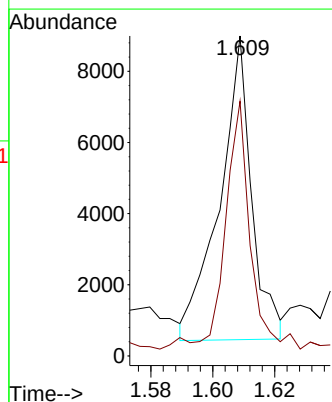
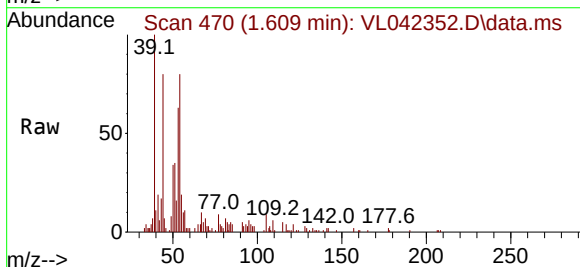
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

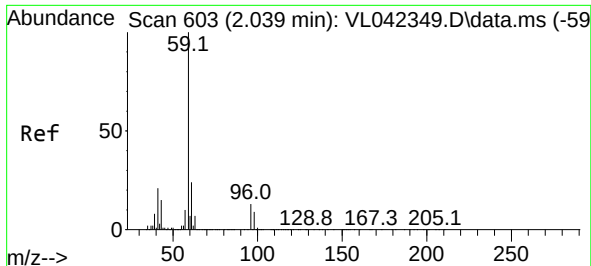
Tgt Ion: 43 Resp: 11859  
Ion Ratio Lower Upper  
43 100  
58 41.7 22.4 33.6#



#16  
1,3-Butadiene  
Concen: 0.660 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120  
Ion Ratio Lower Upper  
39 100  
54 64.7 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_1

ClientSampleId :

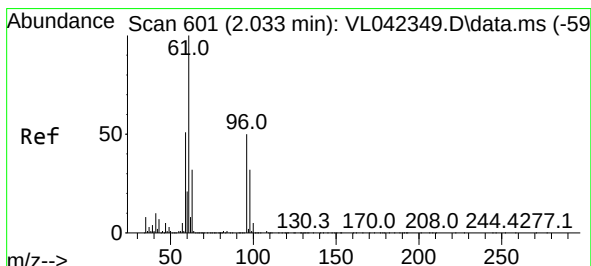
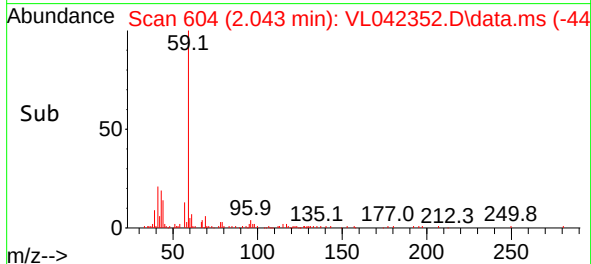
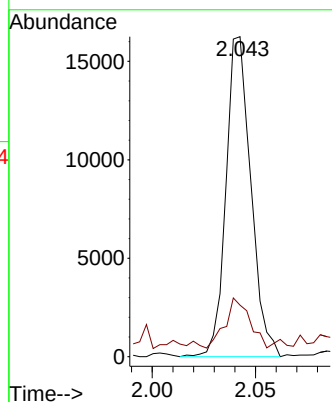
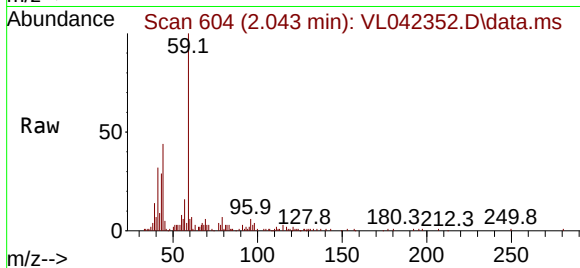
VSTDIC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

57 16.5 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.556 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

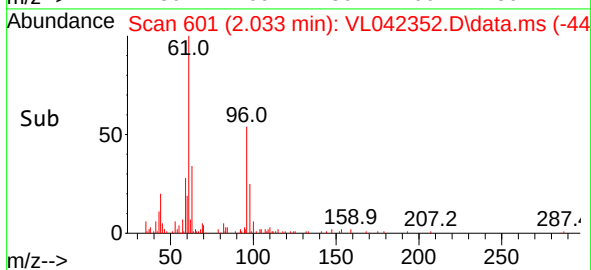
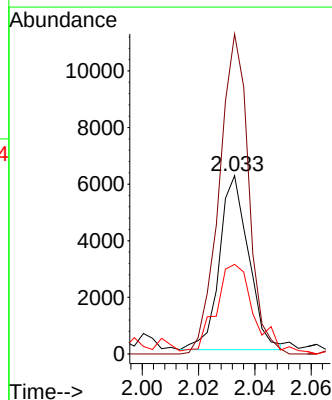
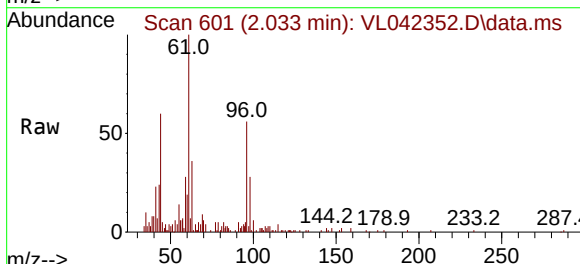
Tgt Ion: 96 Resp: 4430

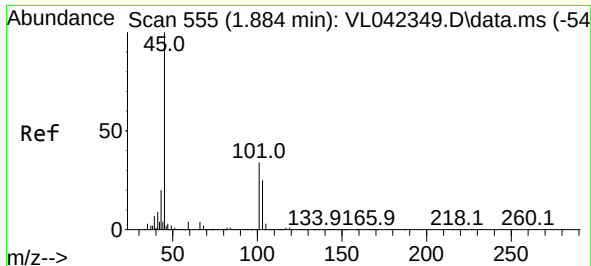
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

98 49.7 51.0 76.4#

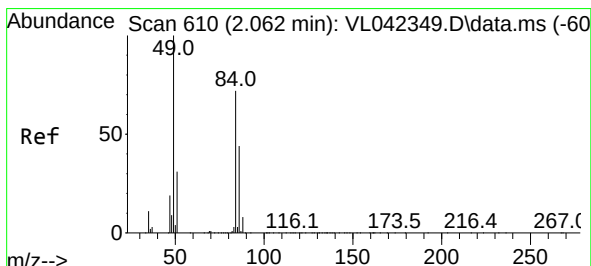
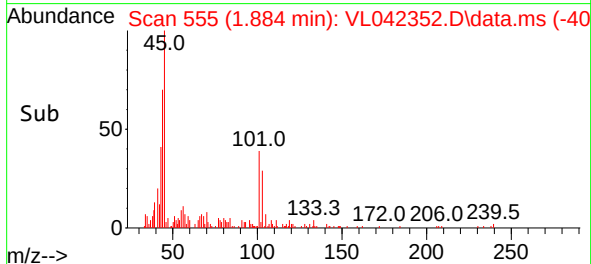
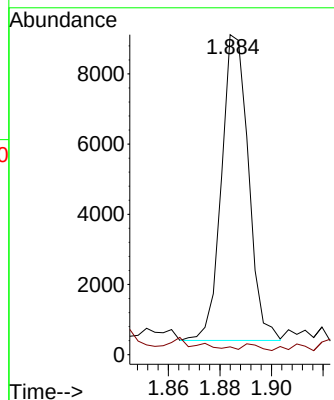
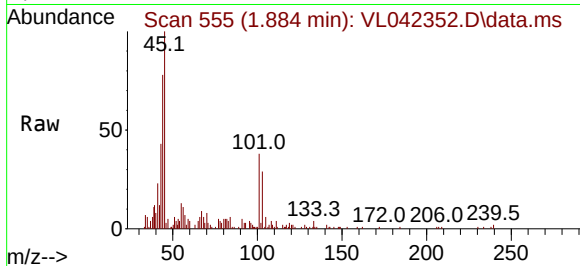




#19  
Isopropyl Alcohol  
Concen: 0.577 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

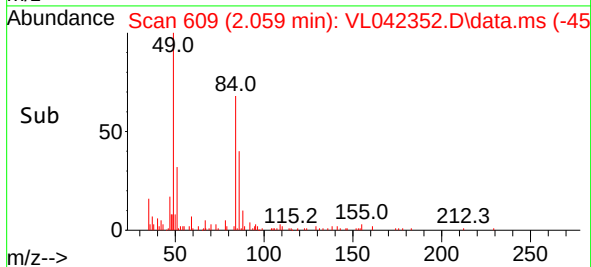
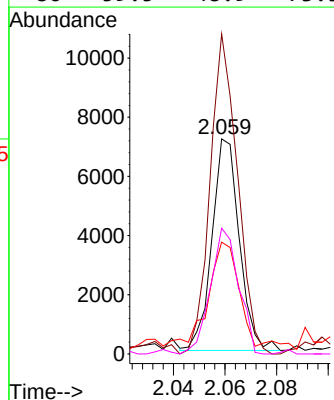
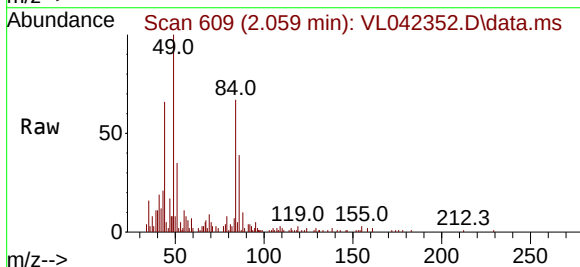
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

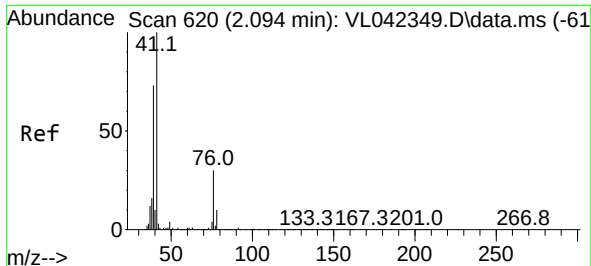
Tgt Ion: 45 Resp: 6327  
Ion Ratio Lower Upper  
45 100  
58 3.8 34.5 51.7#



#20  
Methylene Chloride  
Concen: 0.682 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273  
Ion Ratio Lower Upper  
84 100  
49 151.3 111.6 167.4  
51 48.1 35.1 52.7  
86 59.5 48.9 73.3

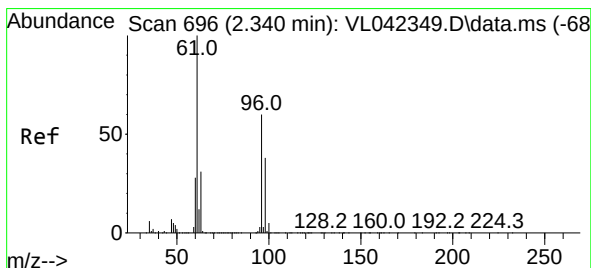
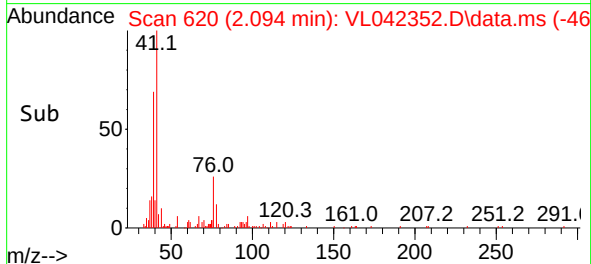
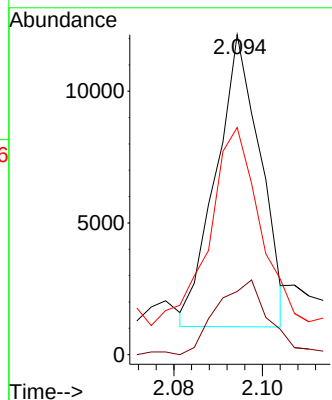
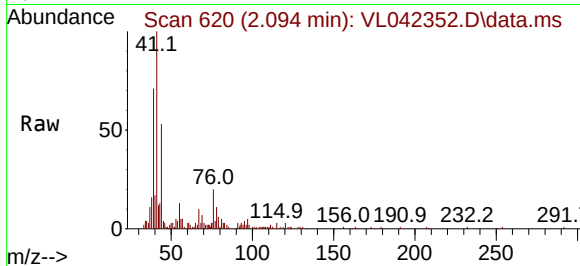




#21  
 Allyl Chloride  
 Concen: 0.565 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

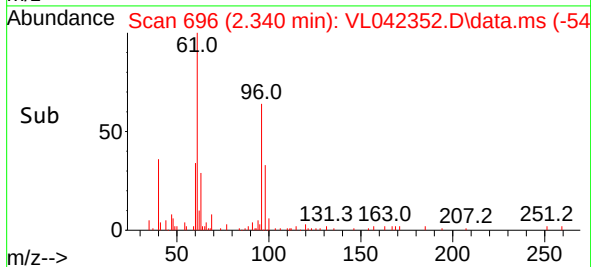
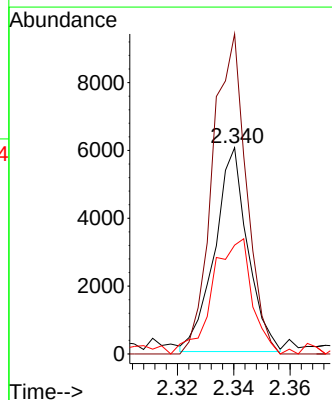
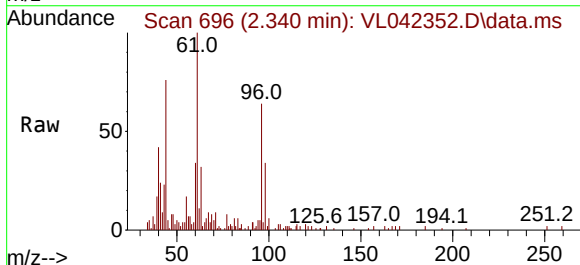
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

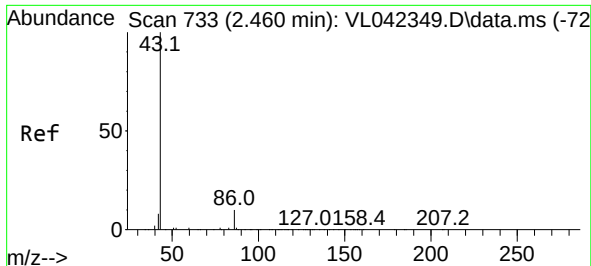
Tgt Ion: 41 Resp: 7692  
 Ion Ratio Lower Upper  
 41 100  
 76 31.1 24.8 37.2  
 39 98.8 60.6 90.8#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.557 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908  
 Ion Ratio Lower Upper  
 96 100  
 61 158.7 133.7 200.5  
 98 54.0 50.3 75.5

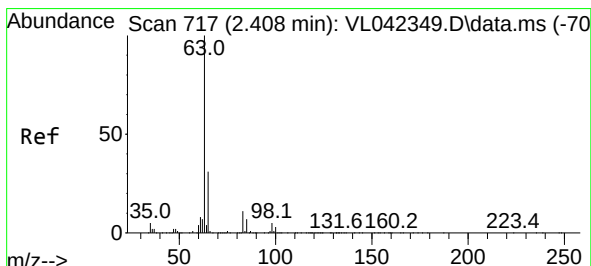
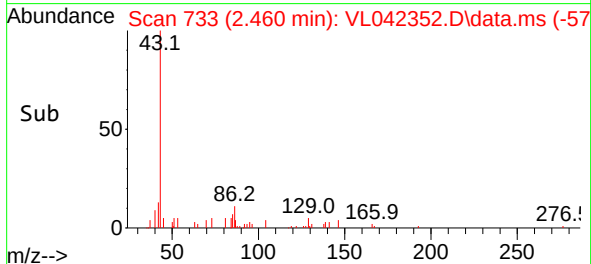
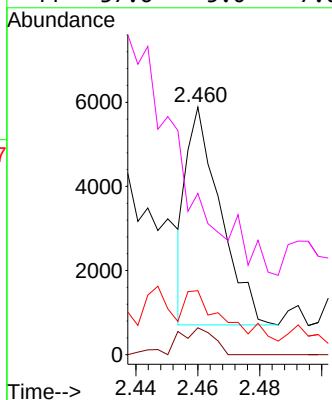
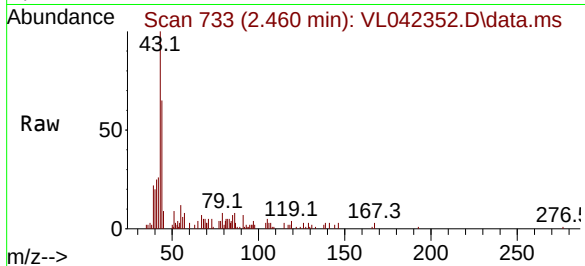




#23  
 Vinyl Acetate  
 Concen: 0.495 ppbv  
 RT: 2.460 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

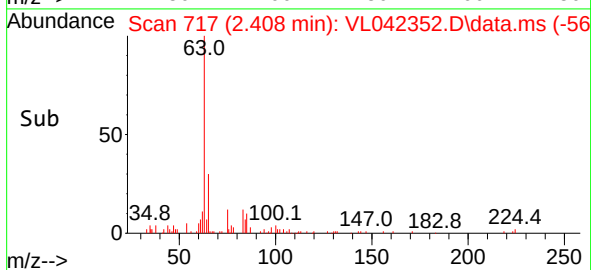
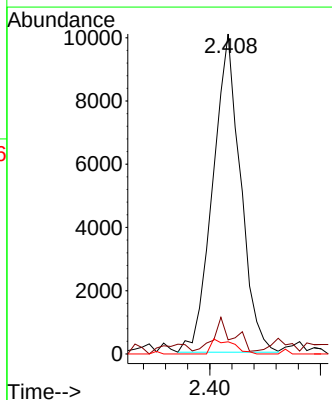
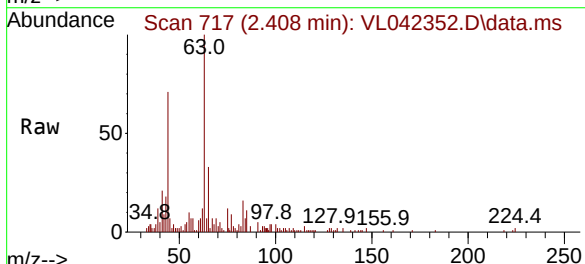
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

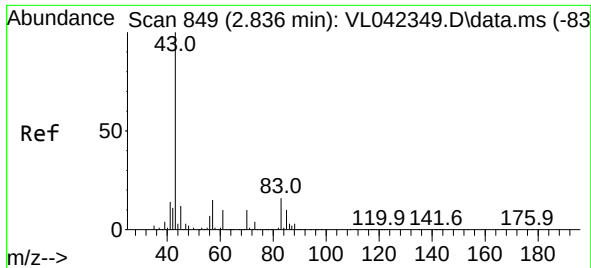
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3953  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 12.4  | 6.5   | 9.7#  |
| 42       | 23.2  | 7.8   | 11.8# |
| 44       | 37.6  | 5.0   | 7.6#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.523 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 8753  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 1.4   | 2.3   | 6.8#  |
| 100      | 3.8   | 1.6   | 4.8   |

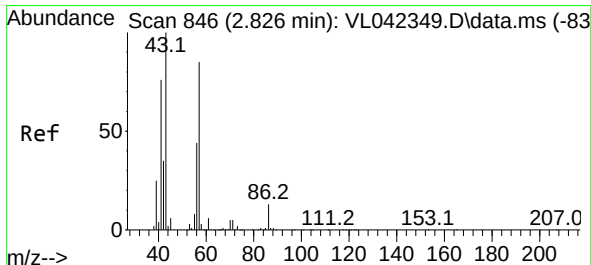
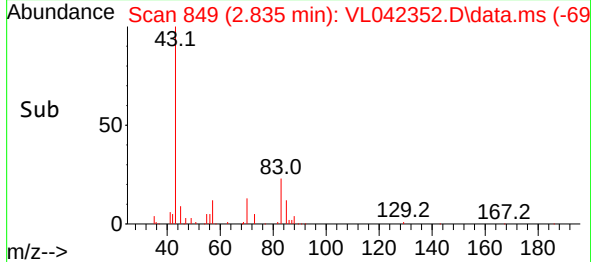
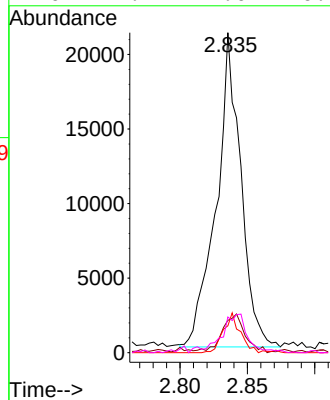
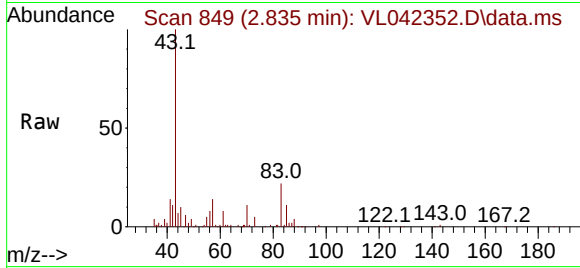




#25  
Ethyl Acetate  
Concen: 0.548 ppbv  
RT: 2.835 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

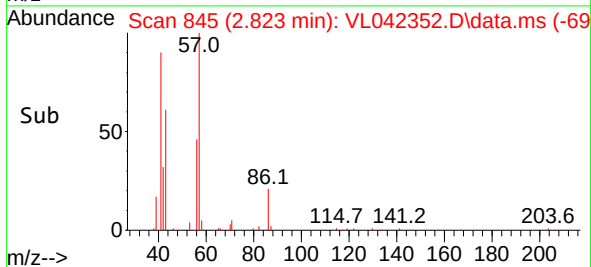
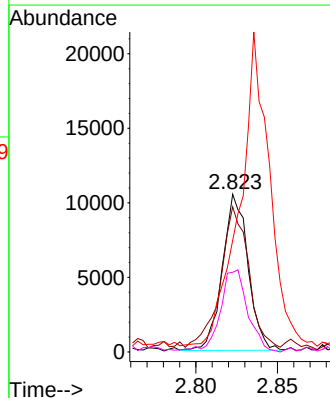
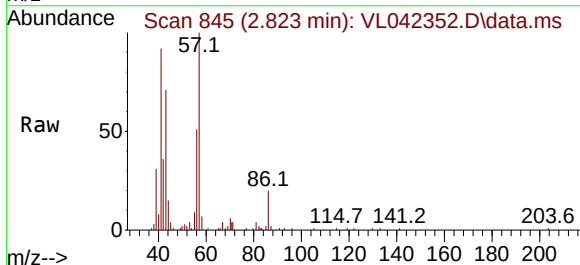
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

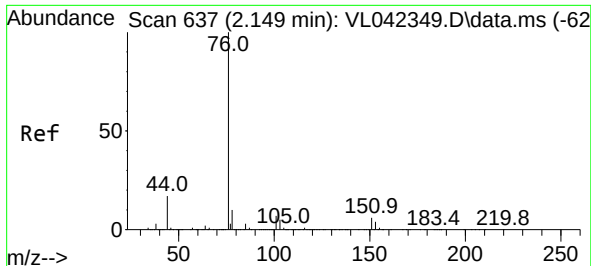
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 26686 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 13.3  | 8.3   | 12.5# |
| 61       | 9.0   | 7.3   | 10.9  |
| 70       | 14.1  | 7.0   | 10.6# |



#26  
Hexane  
Concen: 0.581 ppbv  
RT: 2.823 min Scan# 845  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 11448 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 103.5 | 77.9  | 116.9 |
| 43       | 240.0 | 208.4 | 312.6 |
| 56       | 52.5  | 43.1  | 64.7  |

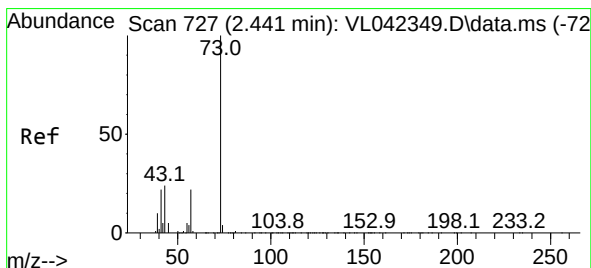
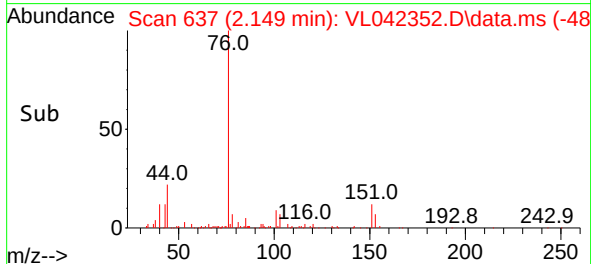
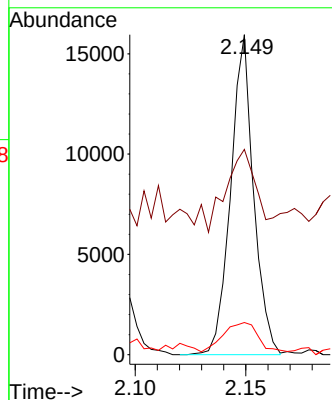
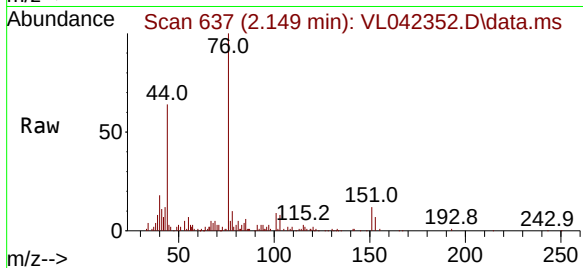




#27  
Carbon Disulfide  
Concen: 0.544 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

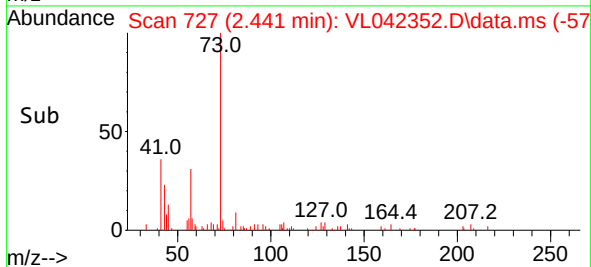
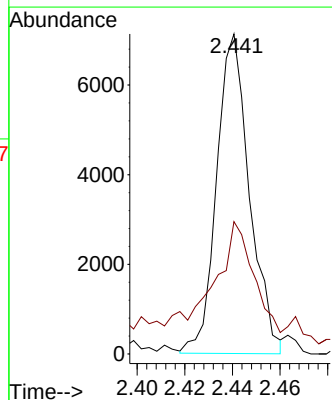
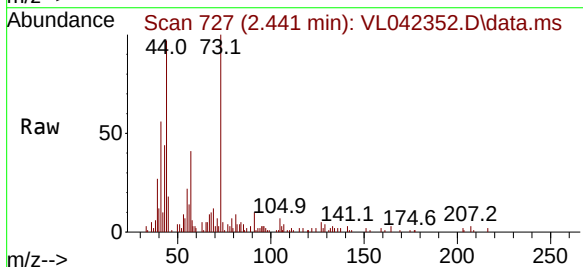
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 76 Resp: 11472  
Ion Ratio Lower Upper  
76 100  
44 123.7 15.5 23.3#  
78 18.8 9.3 13.9#

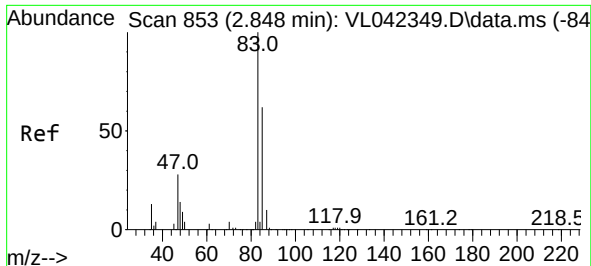


#28  
Methyl tert-Butyl Ether  
Concen: 0.530 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833  
Ion Ratio Lower Upper  
73 100  
57 61.8 21.3 31.9#







#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

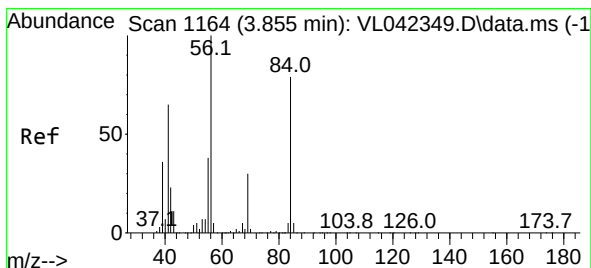
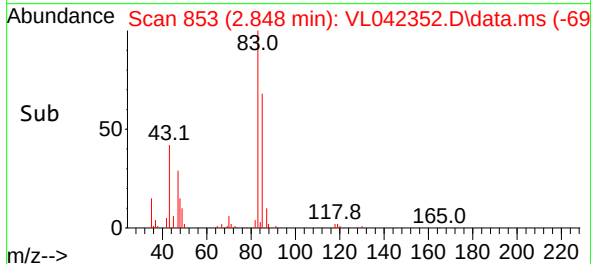
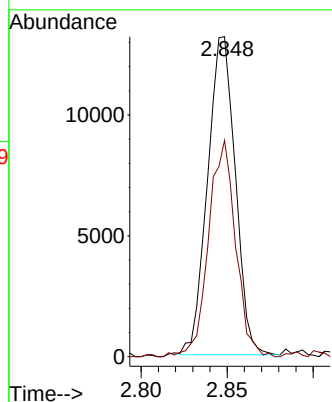
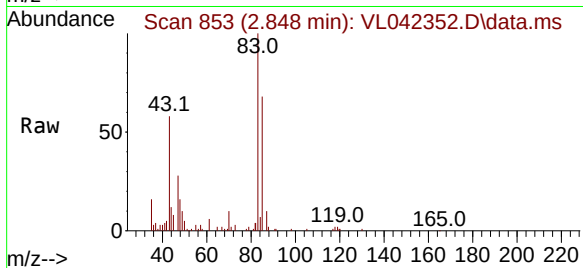
VSTDICC0.5

Tgt Ion: 83 Resp: 14815

Ion Ratio Lower Upper

83 100

85 68.0 50.0 75.0



#30

Cyclohexane

Concen: 0.541 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

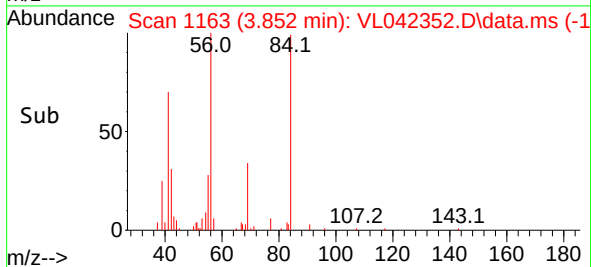
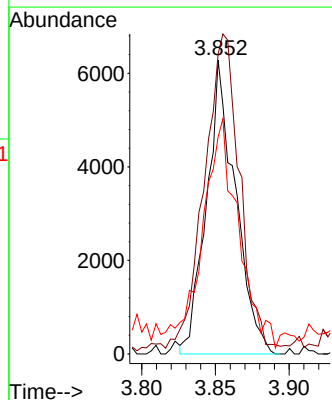
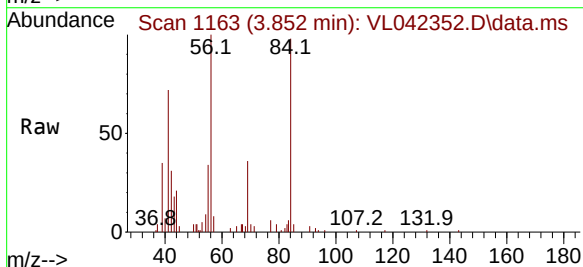
Tgt Ion: 84 Resp: 8572

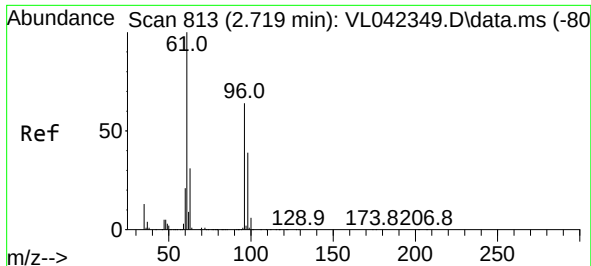
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

41 89.8 67.4 101.0

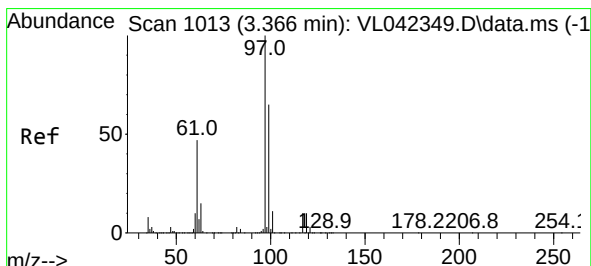
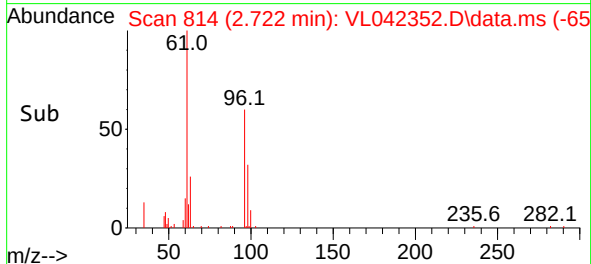
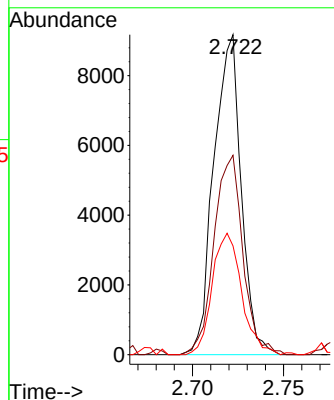
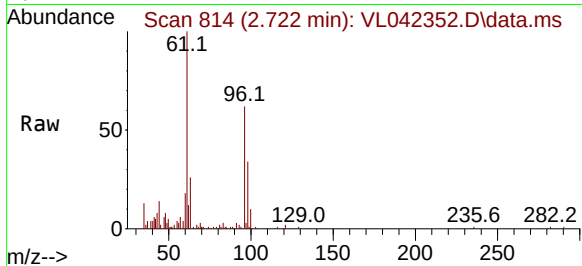




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.511 ppbv  
 RT: 2.722 min Scan# 813  
 Delta R.T. 0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

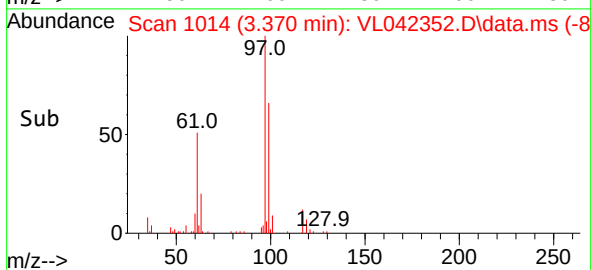
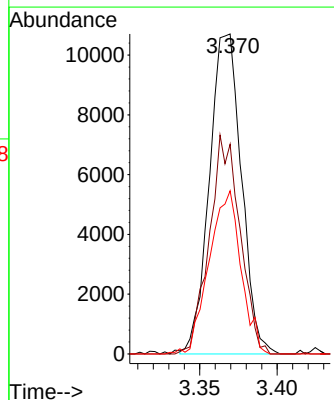
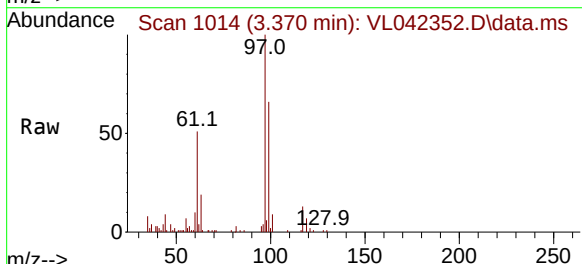
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

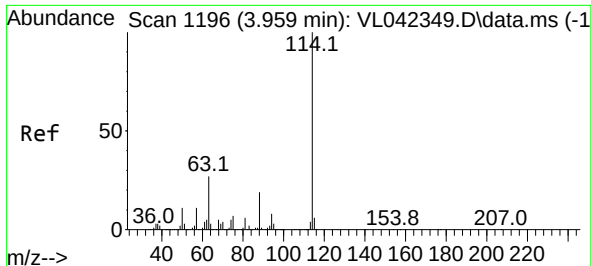
Tgt Ion: 61 Resp: 9571  
 Ion Ratio Lower Upper  
 61 100  
 96 62.3 50.8 76.2  
 98 34.0 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 0.516 ppbv  
 RT: 3.370 min Scan# 1014  
 Delta R.T. 0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413  
 Ion Ratio Lower Upper  
 97 100  
 99 65.6 51.0 76.4  
 61 50.8 38.8 58.2

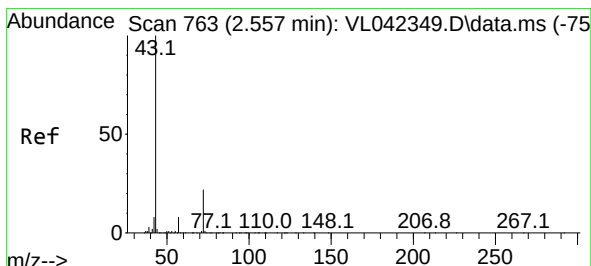
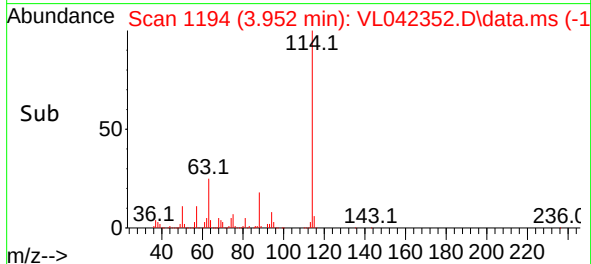
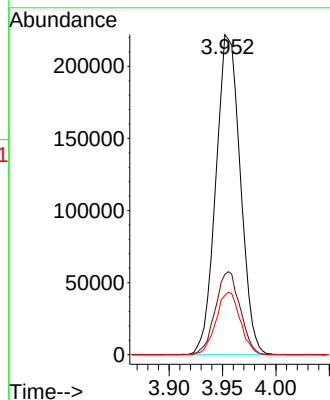
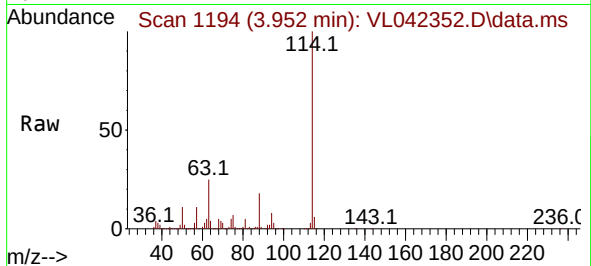




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.952 min Scan# 1194  
 Delta R.T. -0.006 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

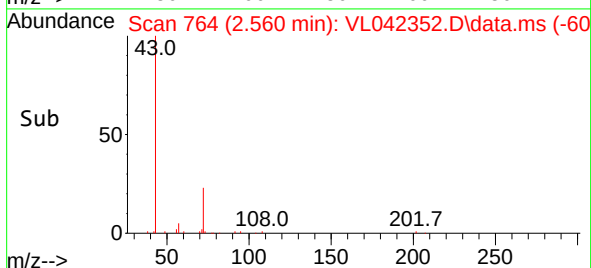
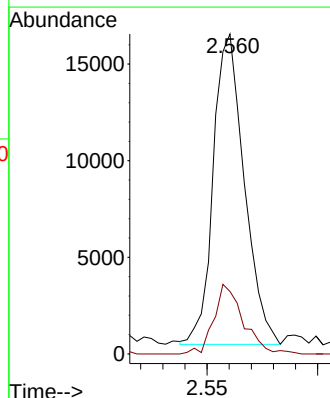
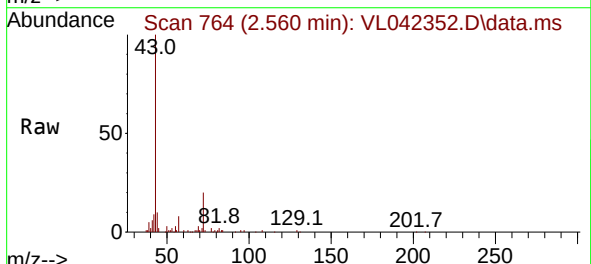
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

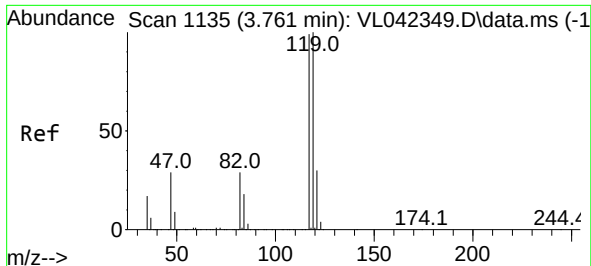
Tgt Ion:114 Resp: 353137  
 Ion Ratio Lower Upper  
 114 100  
 63 26.3 21.8 32.6  
 88 19.4 15.5 23.3



#34  
 2-Butanone  
 Concen: 0.560 ppbv  
 RT: 2.560 min Scan# 764  
 Delta R.T. 0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640  
 Ion Ratio Lower Upper  
 43 100  
 72 21.3 18.2 27.2

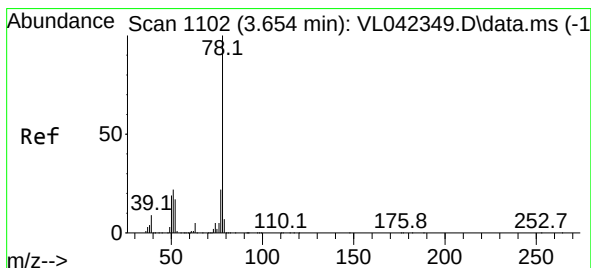
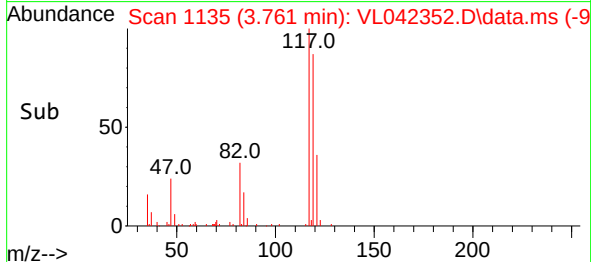
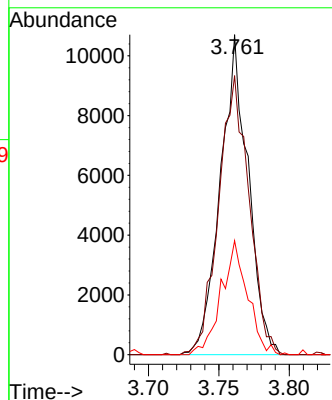
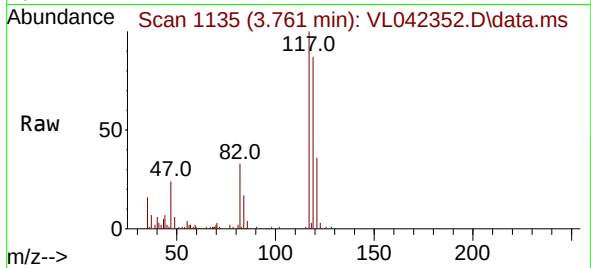




#35  
Carbon Tetrachloride  
Concen: 0.459 ppbv  
RT: 3.761 min Scan# 1135  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

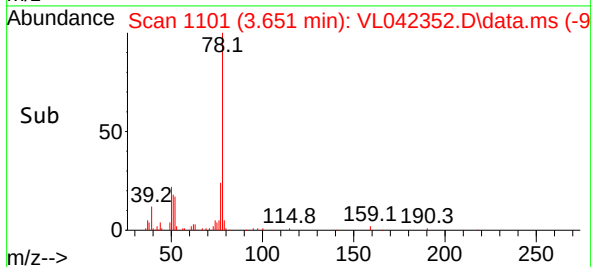
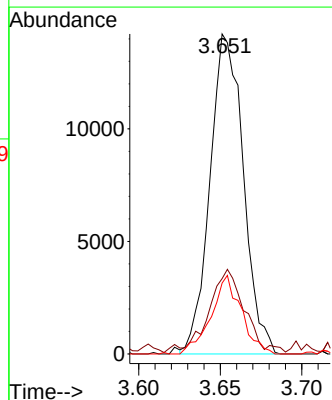
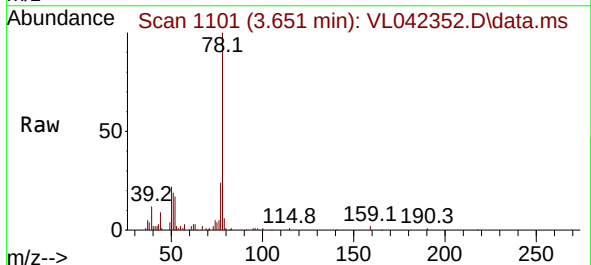
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

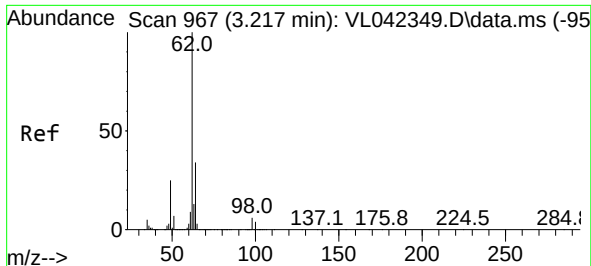
Tgt Ion: 117 Resp: 14683  
Ion Ratio Lower Upper  
117 100  
119 87.2 80.5 120.7  
121 35.6 24.2 36.2



#36  
Benzene  
Concen: 0.531 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233  
Ion Ratio Lower Upper  
78 100  
77 21.7 17.4 26.0  
50 22.1 15.5 23.3

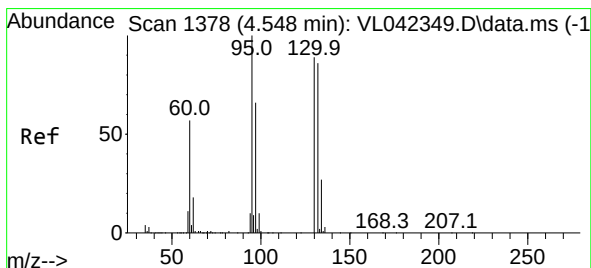
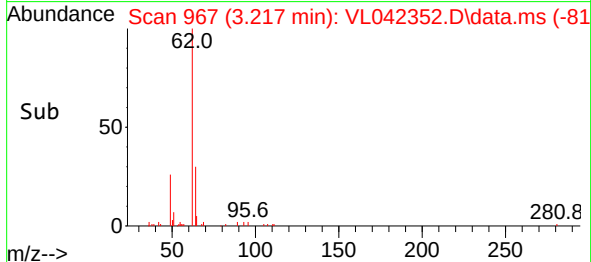
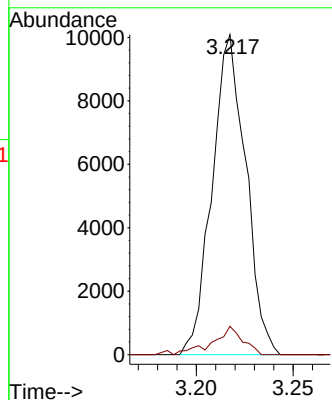
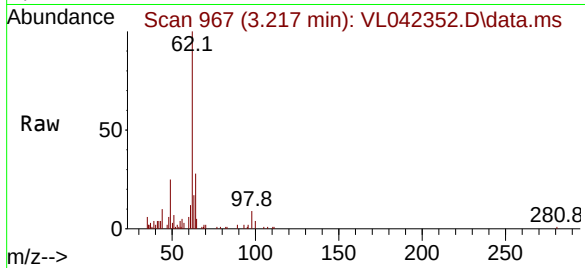




#37  
1,2-Dichloroethane  
Concen: 0.533 ppbv  
RT: 3.217 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

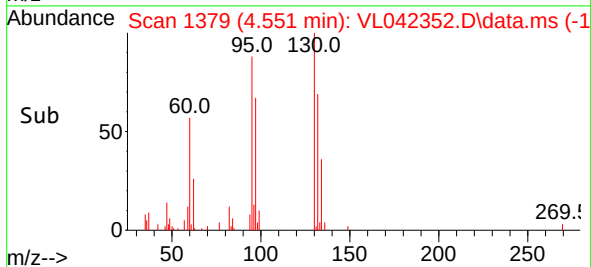
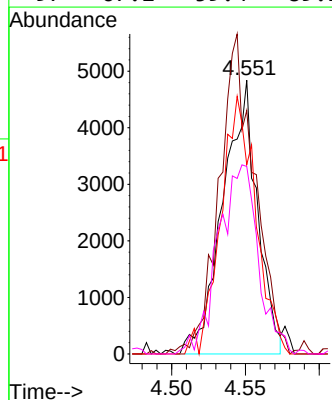
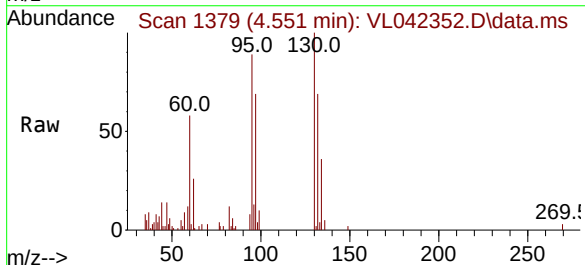
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

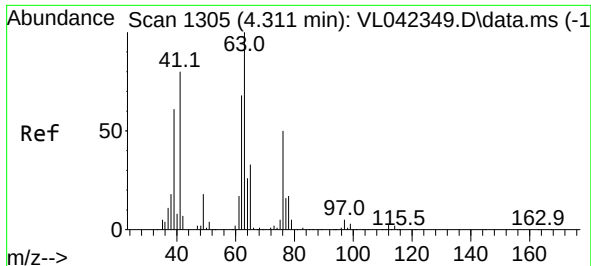
Tgt Ion: 62 Resp: 12194  
Ion Ratio Lower Upper  
62 100  
98 8.1 5.1 7.7#



#38  
Trichloroethene  
Concen: 0.468 ppbv  
RT: 4.551 min Scan# 1379  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819  
Ion Ratio Lower Upper  
130 100  
95 86.2 89.8 134.6#  
132 69.1 77.7 116.5#  
97 67.2 59.4 89.2





#39

1,2-Dichloropropane

Concen: 0.225 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

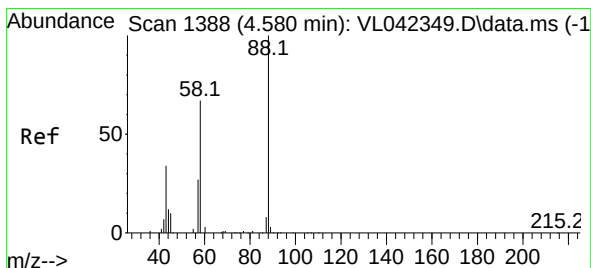
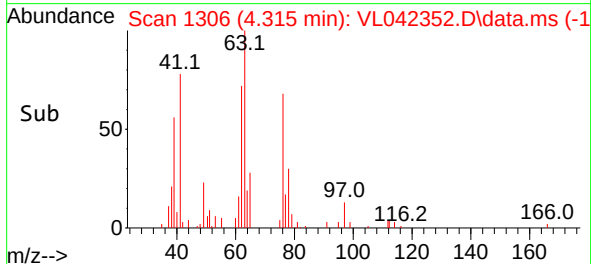
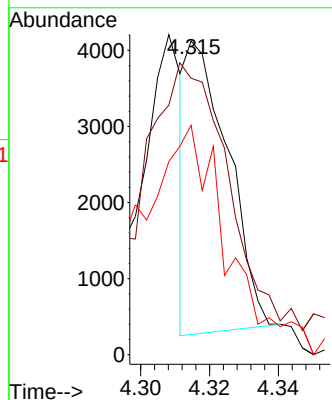
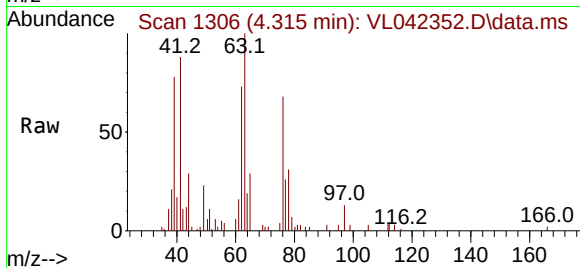
Tgt Ion: 63 Resp: 3195

Ion Ratio Lower Upper

63 100

41 90.7 64.2 96.2

62 75.2 54.3 81.5



#40

1,4-Dioxane

Concen: 0.331 ppbv

RT: 4.599 min Scan# 1394

Delta R.T. 0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 2550

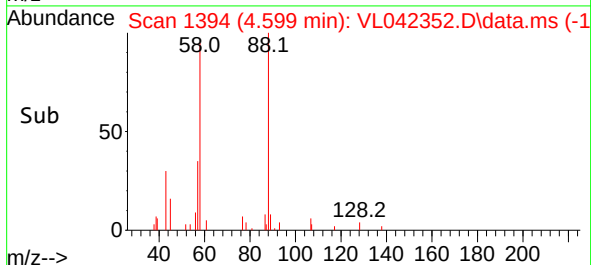
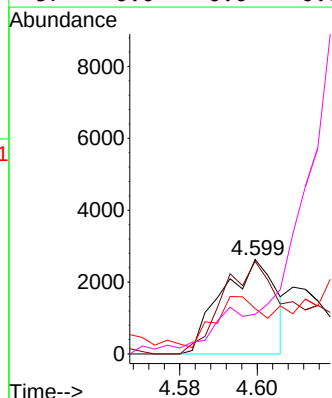
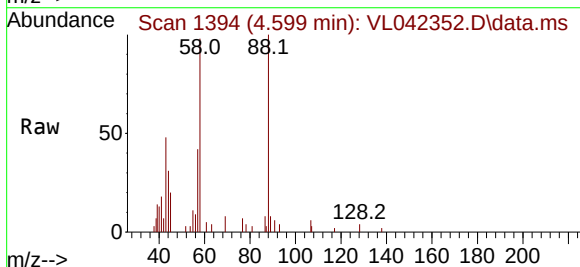
Ion Ratio Lower Upper

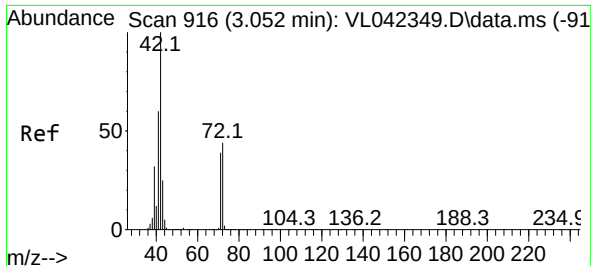
88 100

58 214.8 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.544 ppbv

RT: 3.062 min Scan# 916

Delta R.T. 0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC0.5

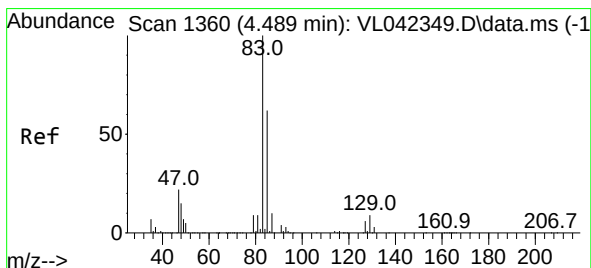
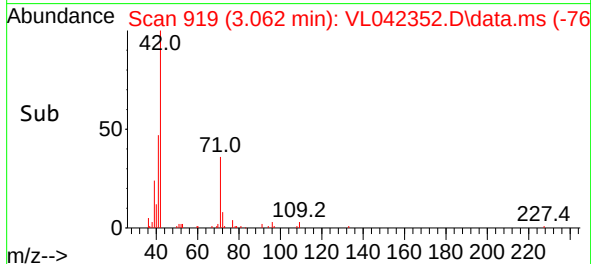
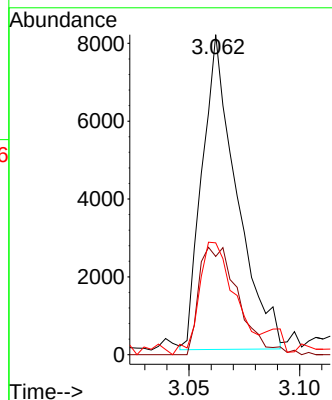
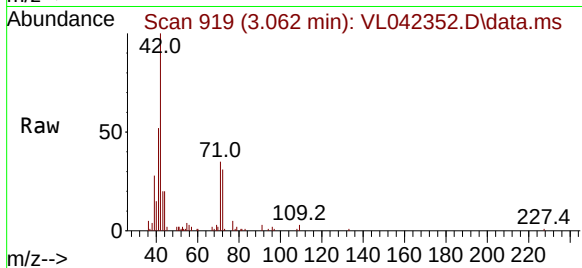
Tgt Ion: 42 Resp: 8773

Ion Ratio Lower Upper

42 100

72 39.3 32.3 48.5

71 44.9 31.4 47.2



#42

Bromodichloromethane

Concen: 0.523 ppbv

RT: 4.489 min Scan# 1360

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

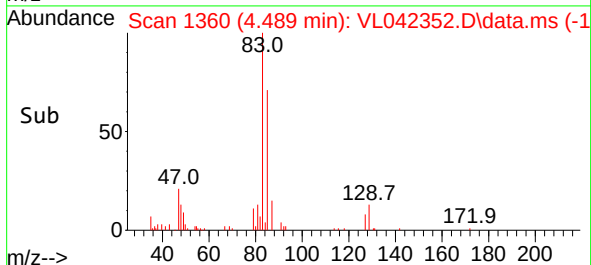
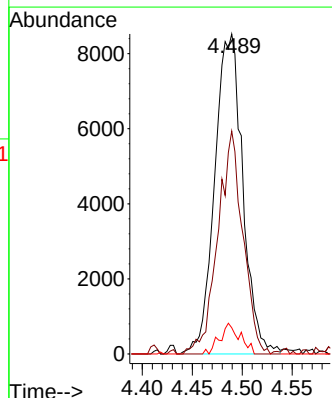
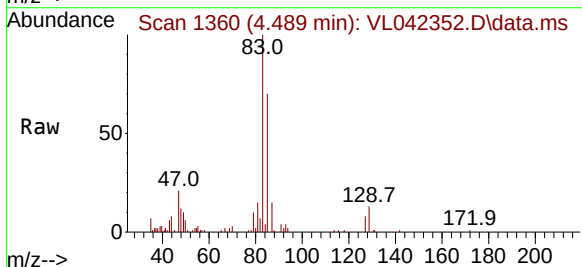
Tgt Ion: 83 Resp: 16642

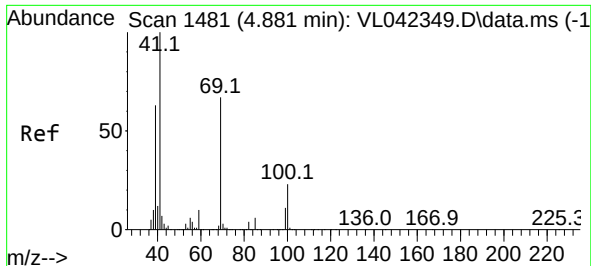
Ion Ratio Lower Upper

83 100

85 69.6 49.7 74.5

127 8.2 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.091 ppbv

RT: 4.871 min Scan# 1481

Delta R.T. -0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

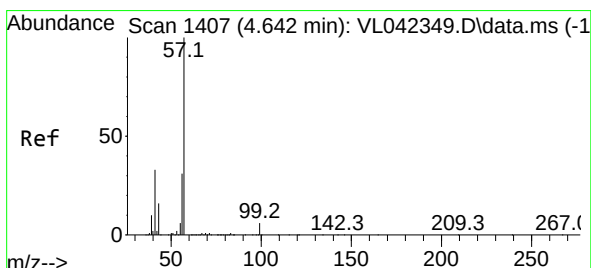
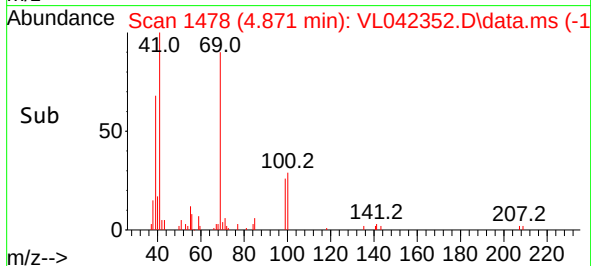
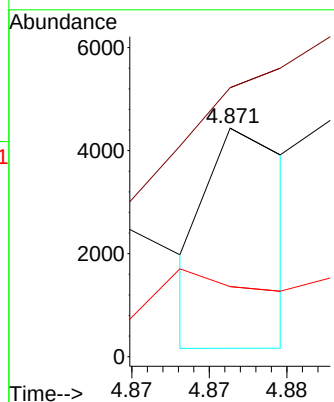
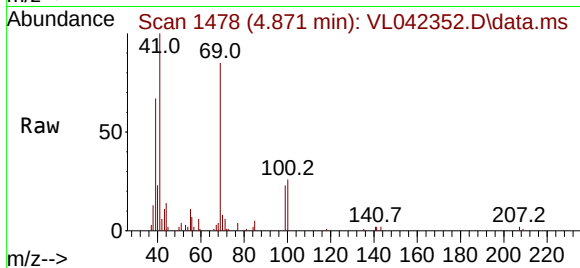
Tgt Ion: 69 Resp: 1556

Ion Ratio Lower Upper

69 100

41 0.0 118.6 177.8#

100 0.0 28.2 42.2#



#44

2,2,4-Trimethylpentane

Concen: 0.519 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.006 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

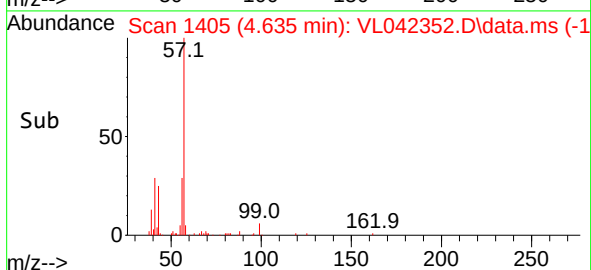
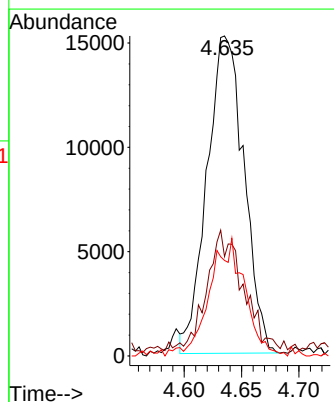
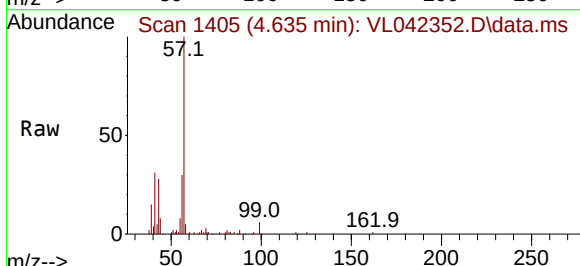
Tgt Ion: 57 Resp: 34170

Ion Ratio Lower Upper

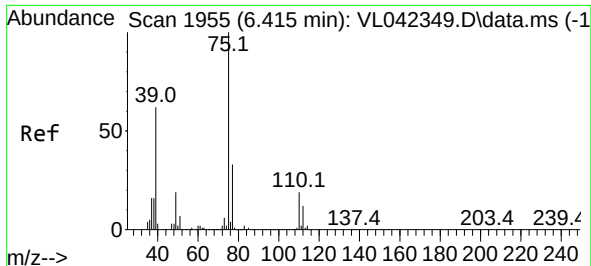
57 100

41 39.1 27.2 40.8

56 37.1 25.7 38.5







#45

t-1,3-Dichloropropene

Concen: 0.076 ppbv

RT: 6.393 min Scan# 1955

Delta R.T. -0.023 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_1

ClientSampleId :

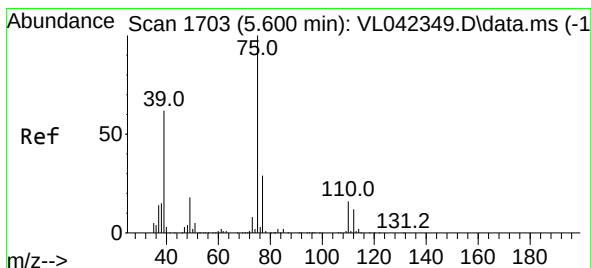
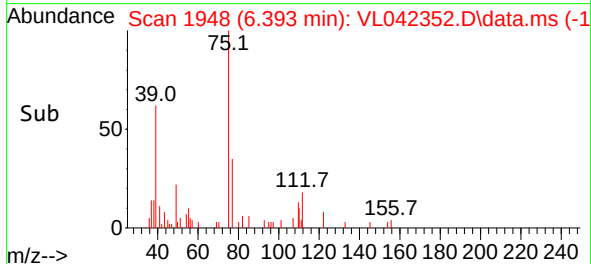
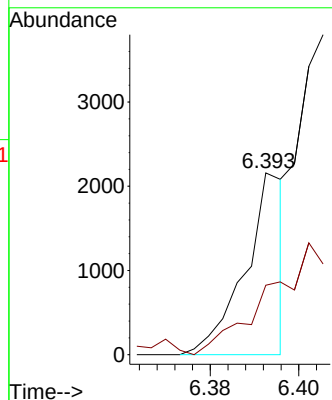
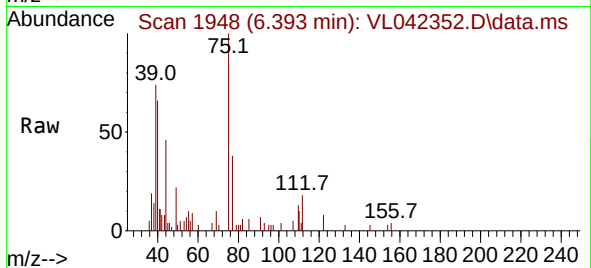
VSTDIC0.5

Tgt Ion: 75 Resp: 1332

Ion Ratio Lower Upper

75 100

77 38.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.356 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

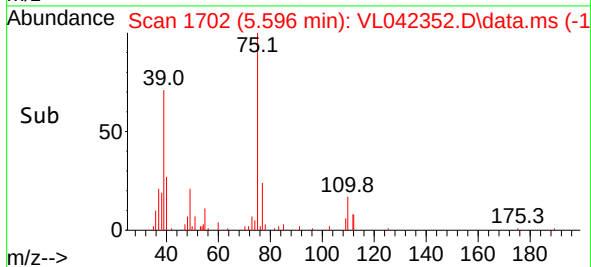
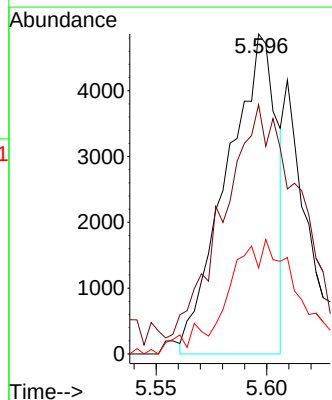
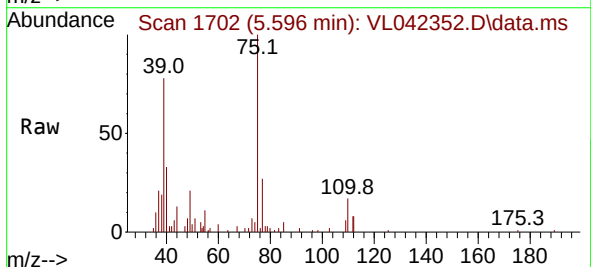
Tgt Ion: 75 Resp: 7634

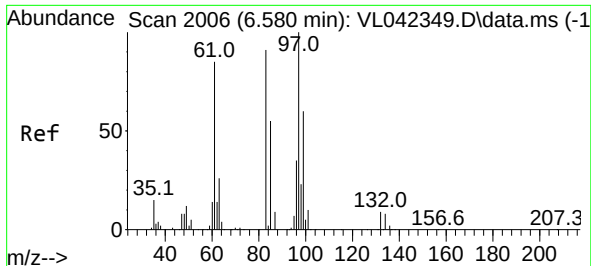
Ion Ratio Lower Upper

75 100

39 67.9 50.0 75.0

77 21.6 23.0 34.6#

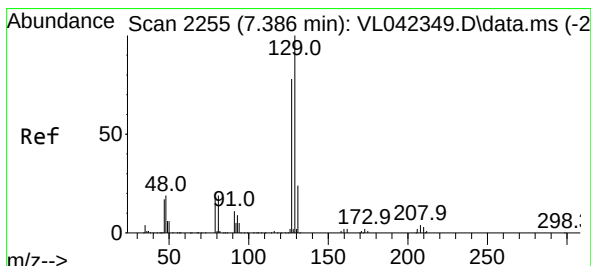
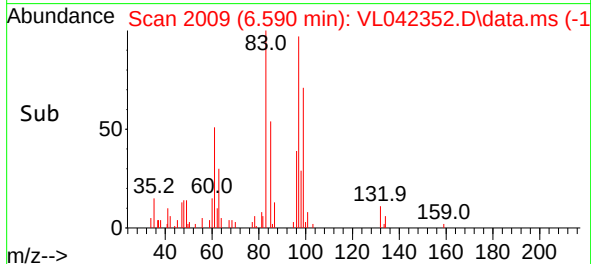
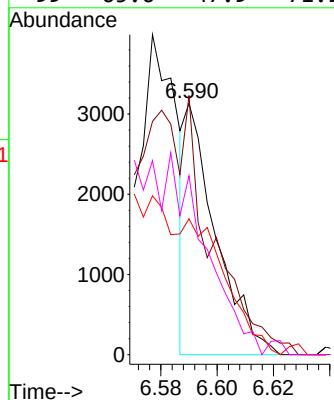
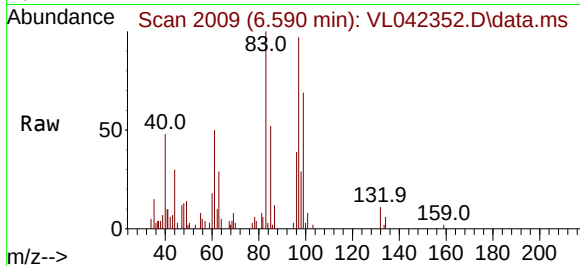




#47  
1,1,2-Trichloroethane  
Concen: 0.164 ppbv  
RT: 6.590 min Scan# 2009  
Delta R.T. 0.010 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

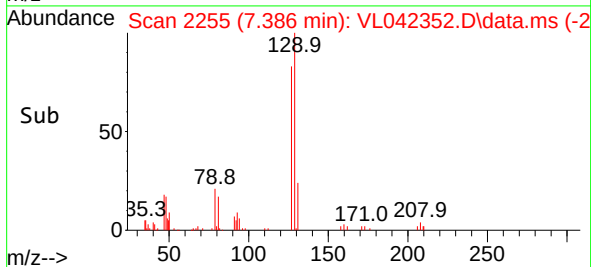
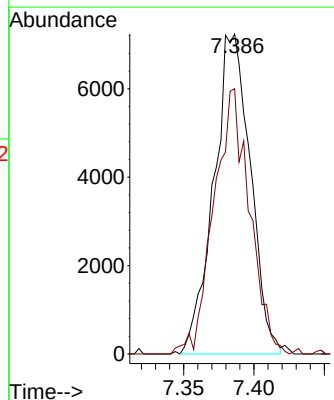
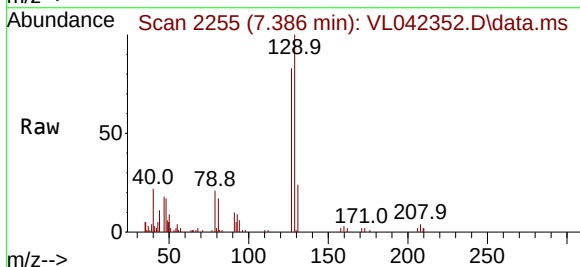
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

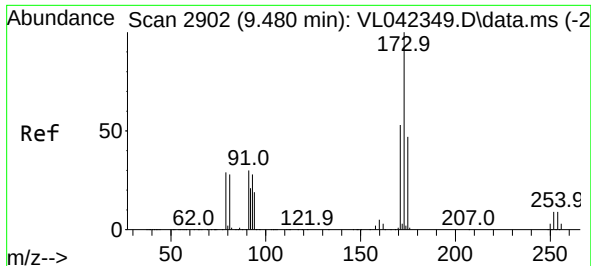
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 2374  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 98.5  | 72.8  | 109.2 |
| 85       | 54.0  | 44.2  | 66.4  |
| 99       | 65.6  | 47.9  | 71.9  |



#48  
Dibromochloromethane  
Concen: 0.514 ppbv  
RT: 7.386 min Scan# 2255  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 13122 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 80.9  | 39.1  | 117.3 |

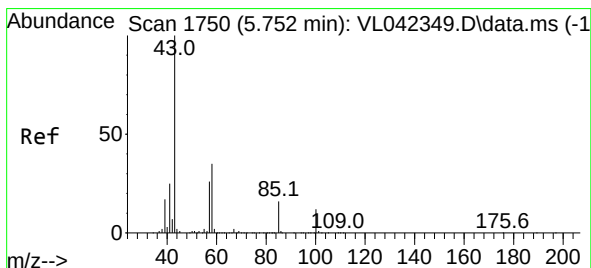
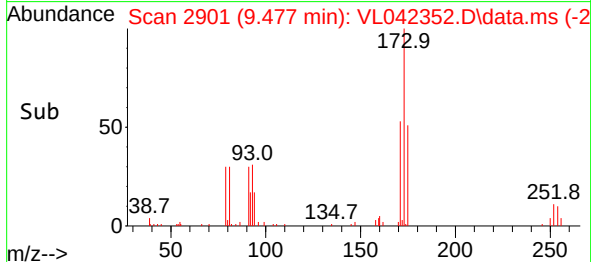
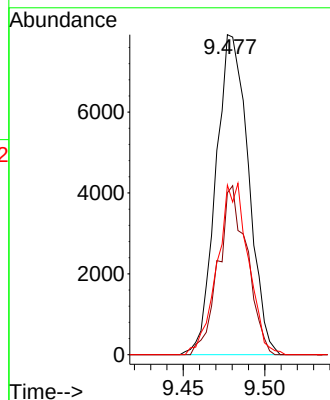
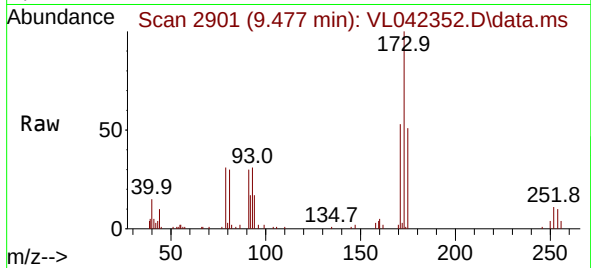




#49  
Bromoform  
Concen: 0.492 ppbv  
RT: 9.477 min Scan# 2902  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

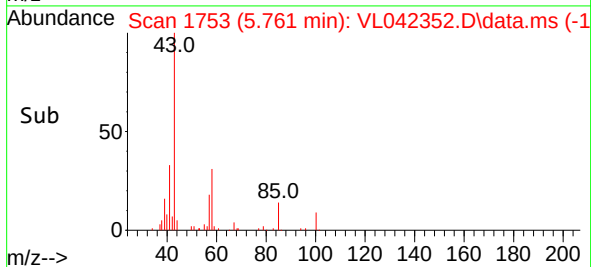
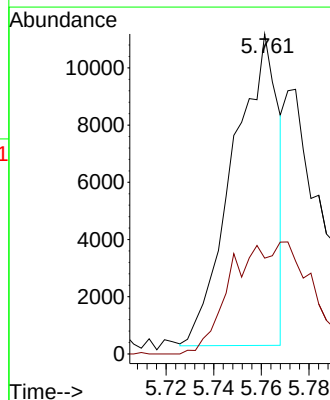
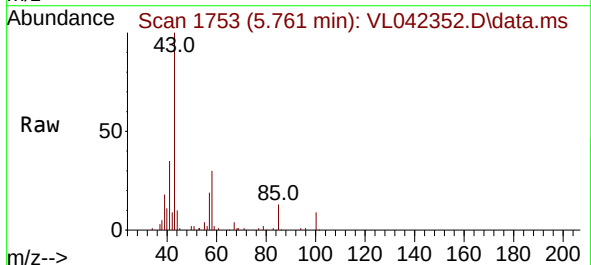
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

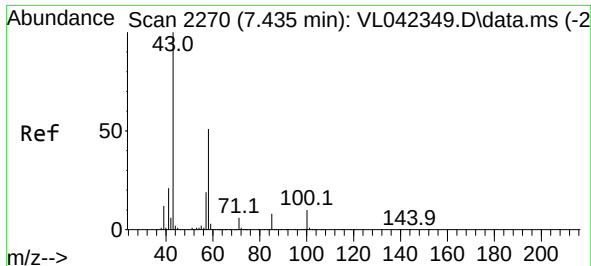
Tgt Ion:173 Resp: 10988  
Ion Ratio Lower Upper  
173 100  
175 46.8 38.2 57.2  
171 51.2 40.9 61.3



#50  
4-Methyl-2-Pentanone  
Concen: 0.309 ppbv  
RT: 5.761 min Scan# 1753  
Delta R.T. 0.010 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14380  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#

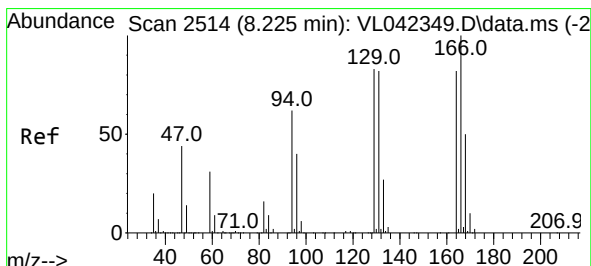
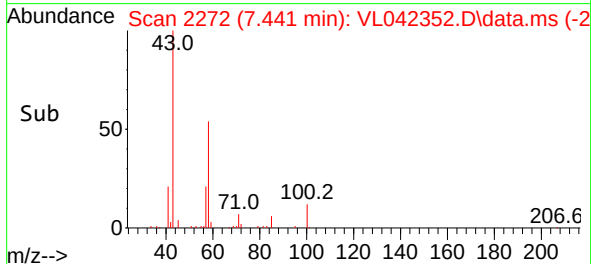
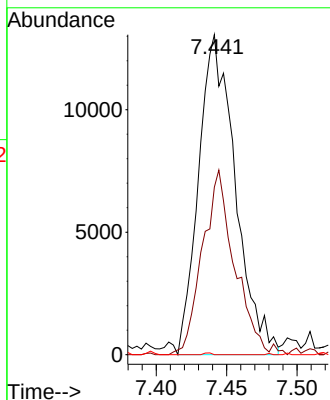
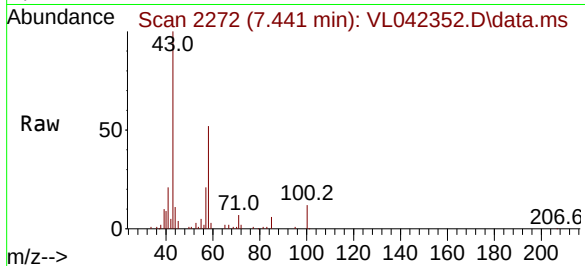




#51  
2-Hexanone  
Concen: 0.564 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

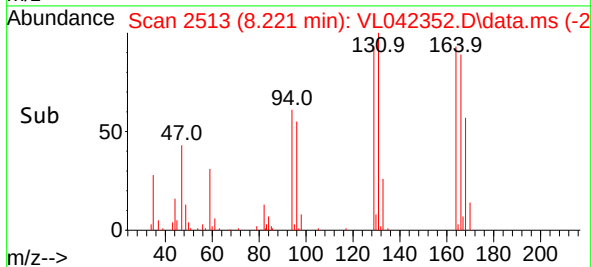
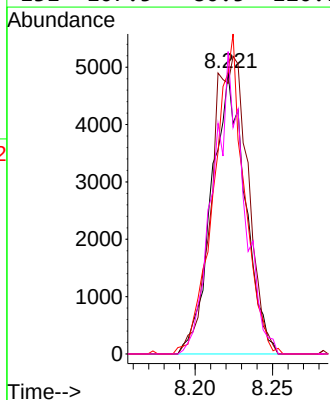
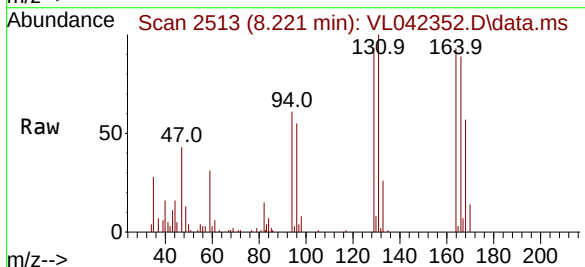
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

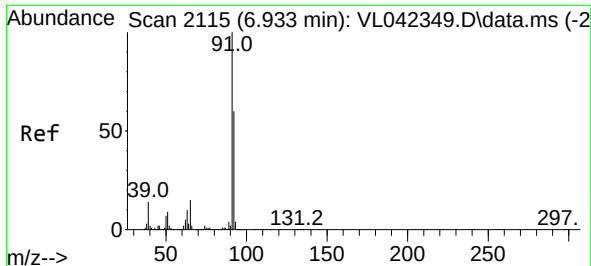
Tgt Ion: 43 Resp: 23684  
Ion Ratio Lower Upper  
43 100  
58 51.7 40.2 60.4  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 0.503 ppbv  
RT: 8.221 min Scan# 2513  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 164 Resp: 7412  
Ion Ratio Lower Upper  
164 100  
166 96.1 98.2 147.2#  
129 97.8 81.8 122.8  
131 107.5 80.5 120.7

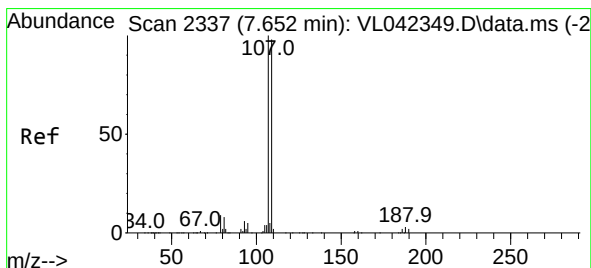
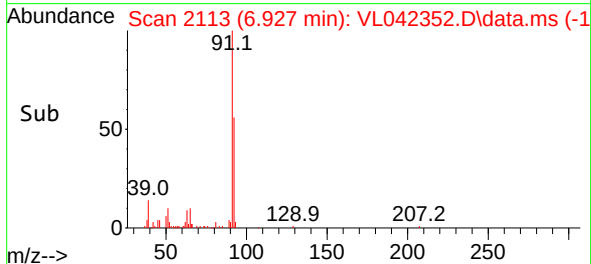
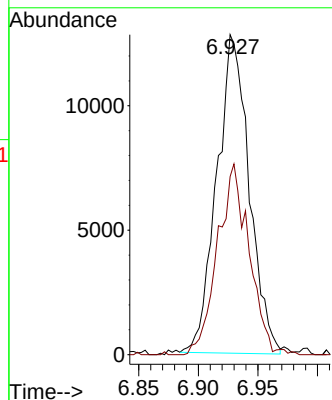
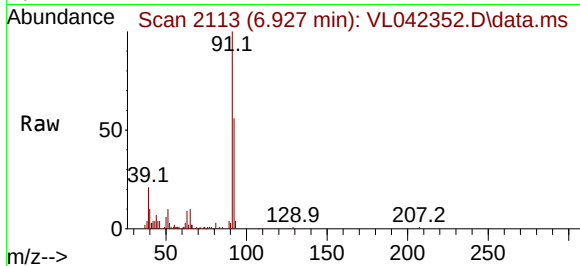




#53  
Toluene  
Concen: 0.529 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. -0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

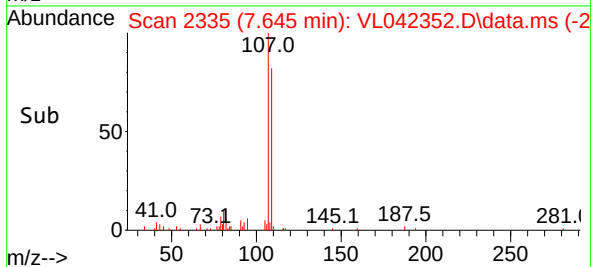
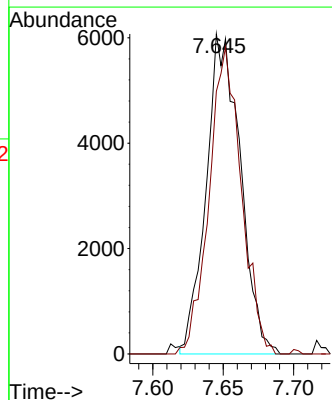
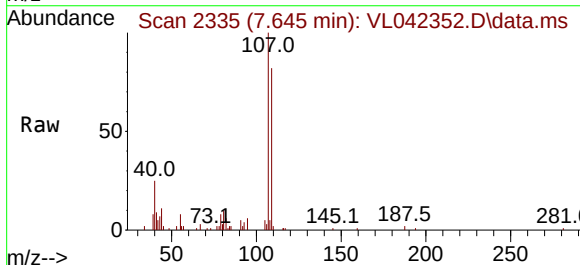
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

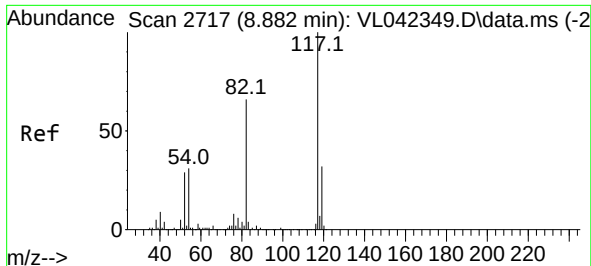
Tgt Ion: 91 Resp: 24200  
Ion Ratio Lower Upper  
91 100  
92 58.4 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 0.499 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.006 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion: 107 Resp: 10282  
Ion Ratio Lower Upper  
107 100  
109 82.1 78.2 117.4

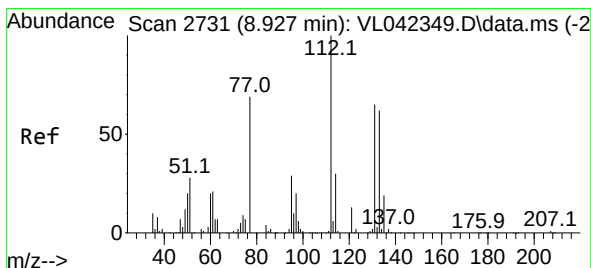
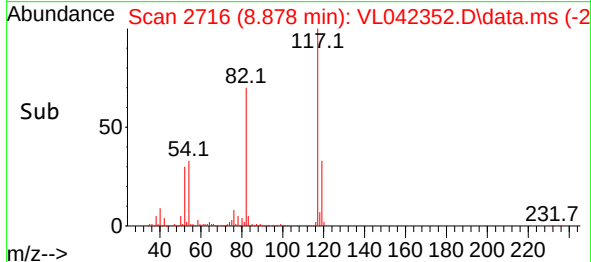
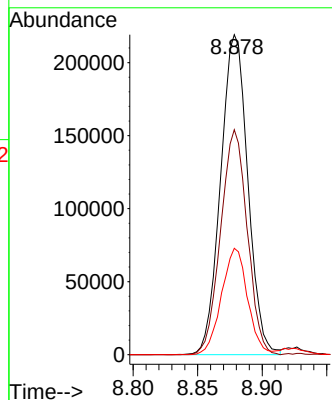
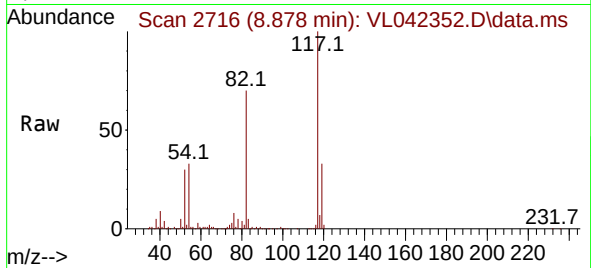




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2716  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

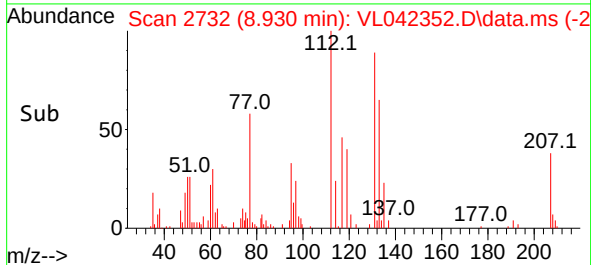
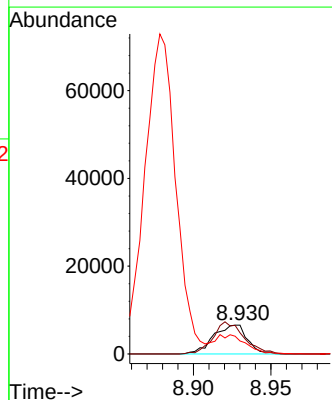
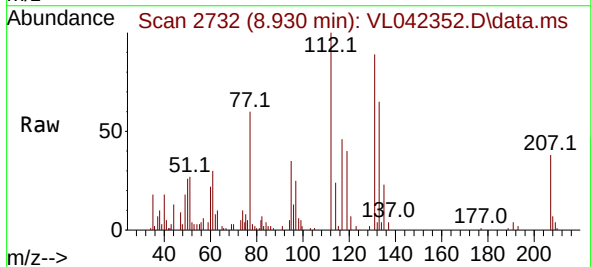
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

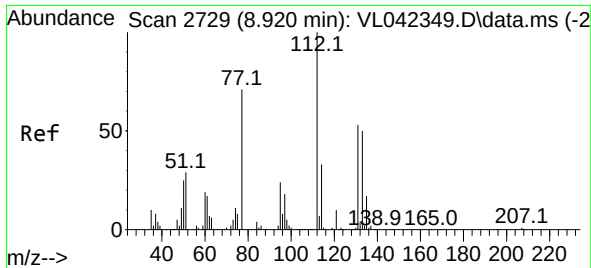
Tgt Ion:117 Resp: 321644  
Ion Ratio Lower Upper  
117 100  
82 69.0 57.8 86.6  
119 33.8 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.513 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987  
Ion Ratio Lower Upper  
131 100  
133 102.0 78.3 117.5  
119 1087.9 48.7 73.1#

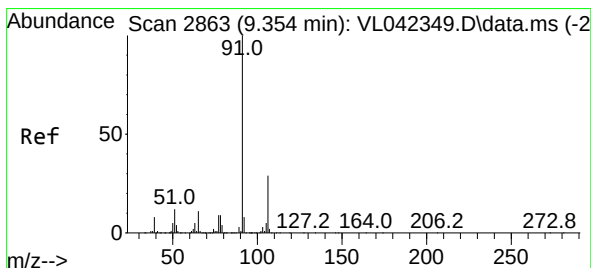
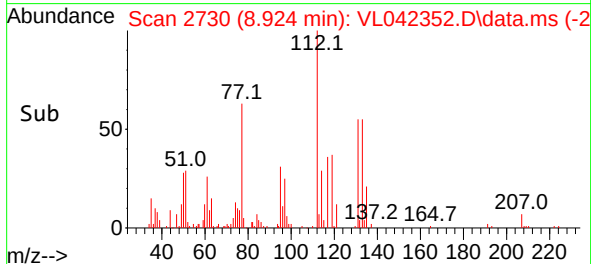
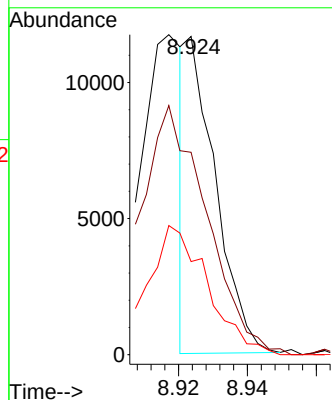
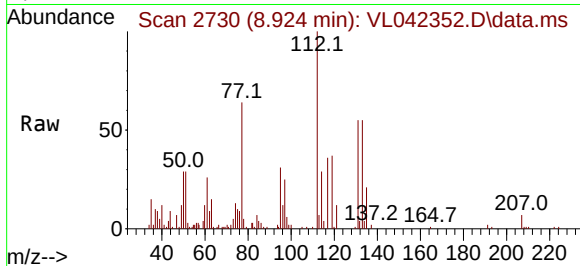




#57  
Chlorobenzene  
Concen: 0.206 ppbv  
RT: 8.924 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

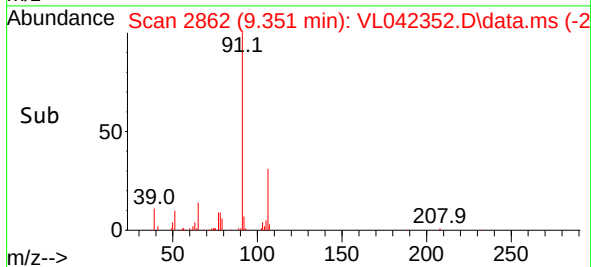
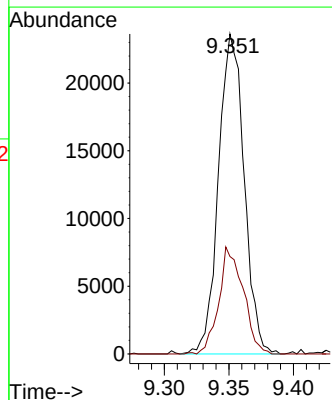
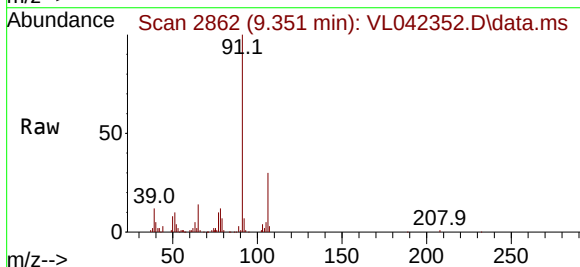
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

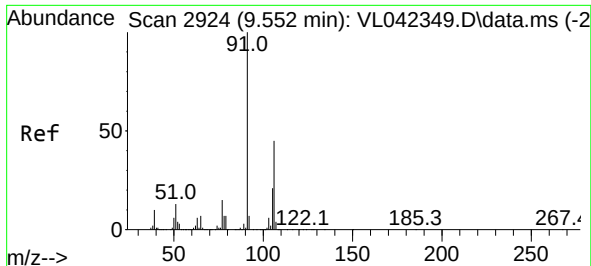
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 6884 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 77        | 62.1  | 57.8  | 86.6 |
| 114       | 29.5  | 29.3  | 35.9 |



#58  
Ethyl Benzene  
Concen: 0.512 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 32624 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 30.5  | 23.0  | 34.4  |





#59

m/p-Xylene

Concen: 0.439 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

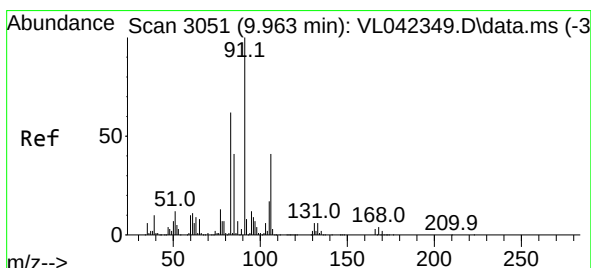
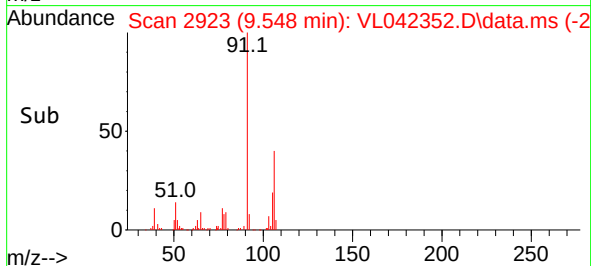
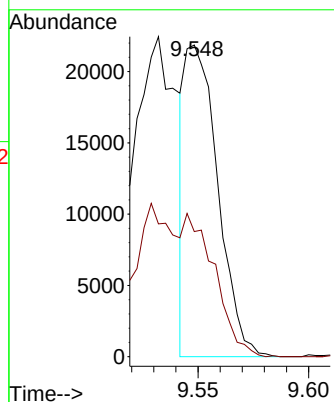
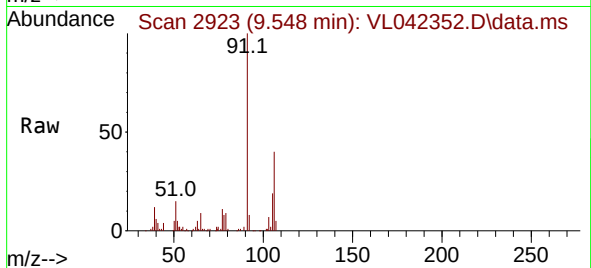
VSTDIC0.5

Tgt Ion: 91 Resp: 22598

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.541 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042352.D

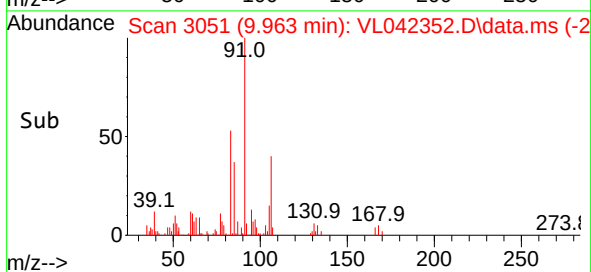
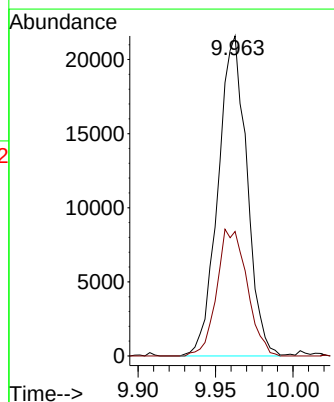
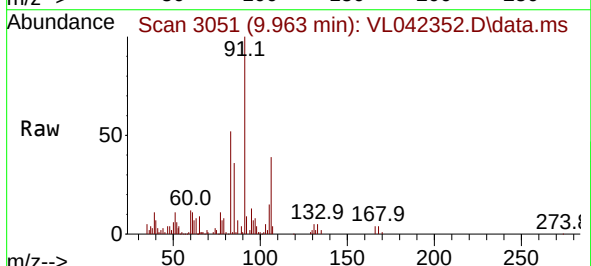
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 27983

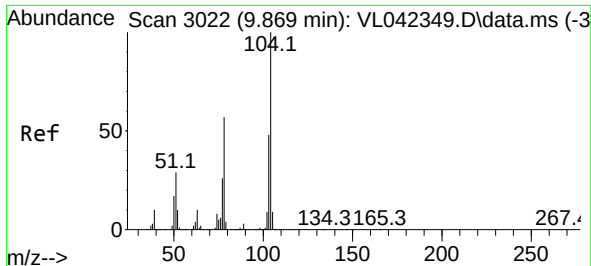
Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4



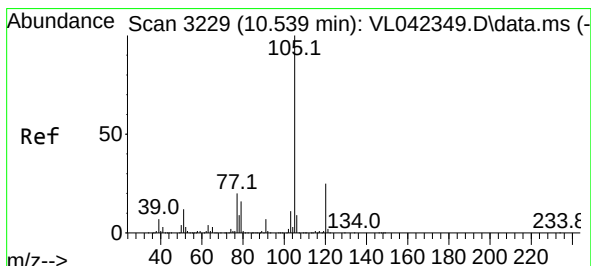
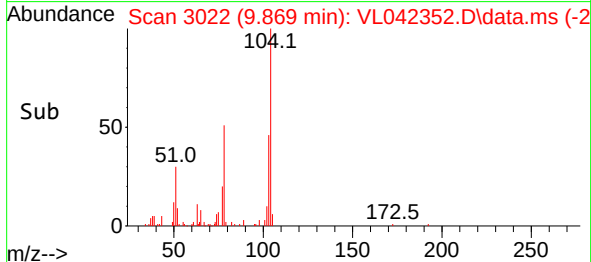
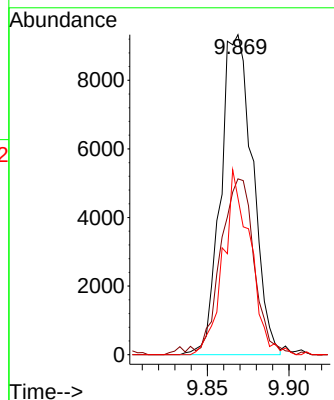
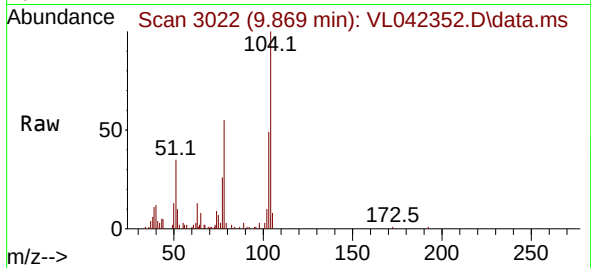




#61  
Styrene  
Concen: 0.516 ppbv  
RT: 9.869 min Scan# 3022  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

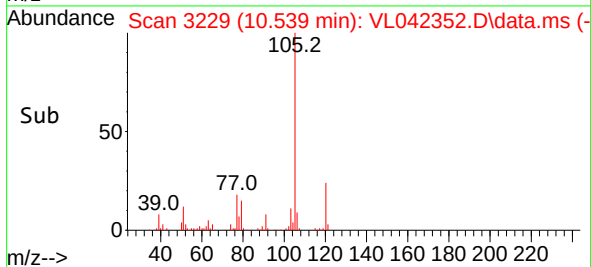
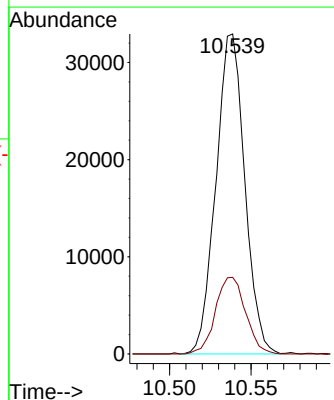
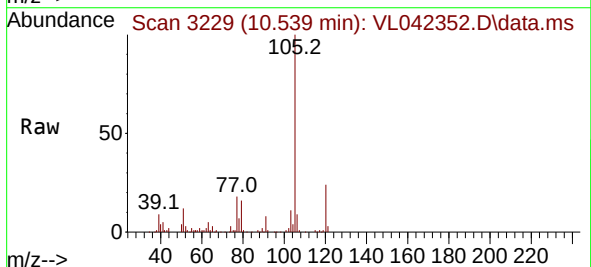
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

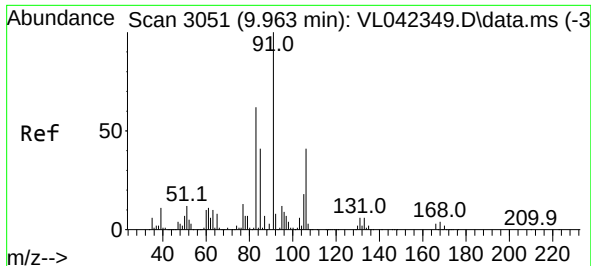
Tgt Ion:104 Resp: 12736  
Ion Ratio Lower Upper  
104 100  
78 58.6 44.6 66.8  
103 49.2 37.4 56.0



#62  
Isopropylbenzene  
Concen: 0.533 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481  
Ion Ratio Lower Upper  
105 100  
120 24.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.474 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

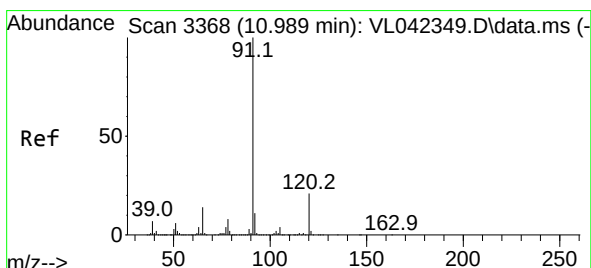
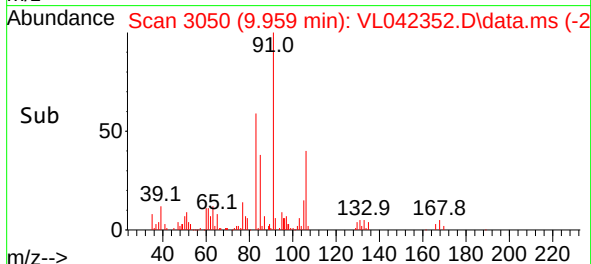
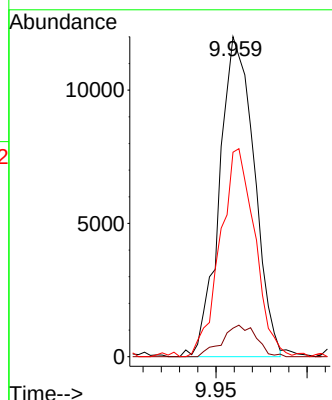
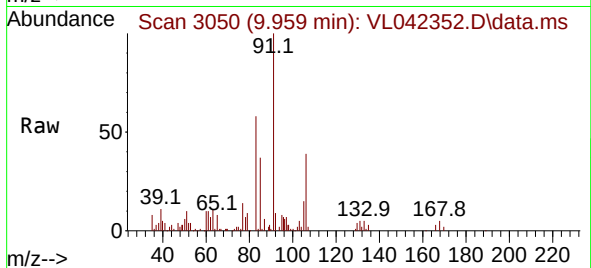
Tgt Ion: 83 Resp: 15920

Ion Ratio Lower Upper

83 100

131 9.8 4.5 13.7

85 65.6 32.4 97.0



#64

n-propylbenzene

Concen: 0.544 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042352.D

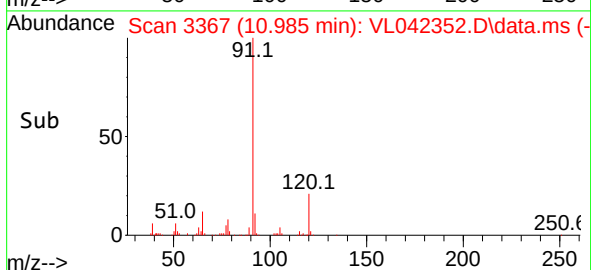
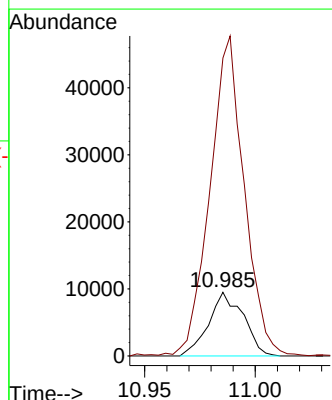
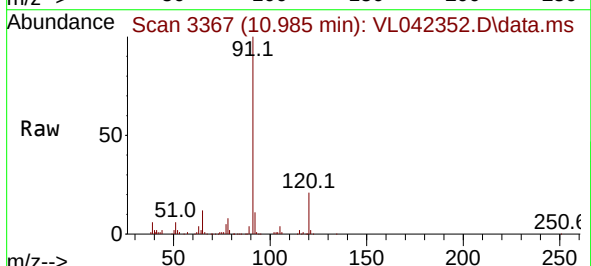
Acq: 17 Apr 2025 11:19

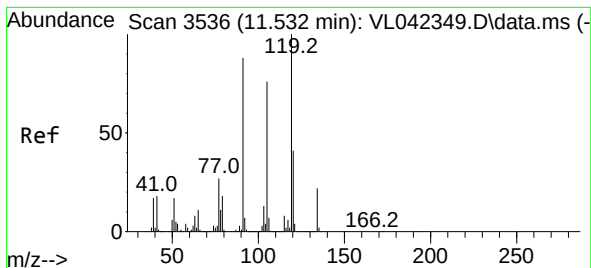
Tgt Ion: 120 Resp: 10369

Ion Ratio Lower Upper

120 100

91 499.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

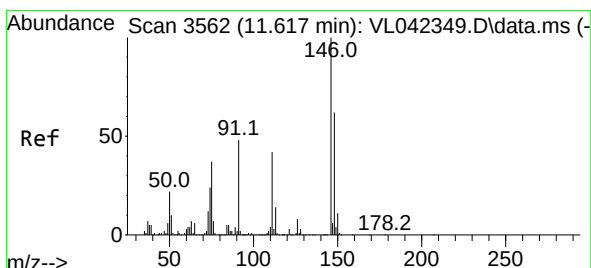
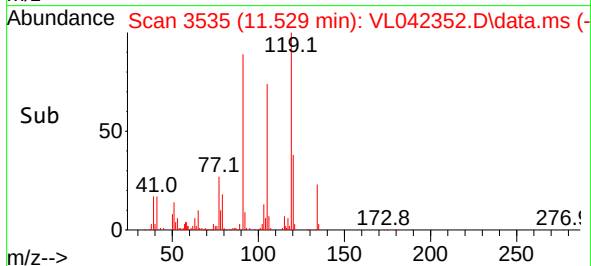
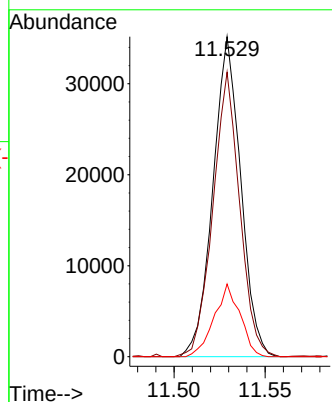
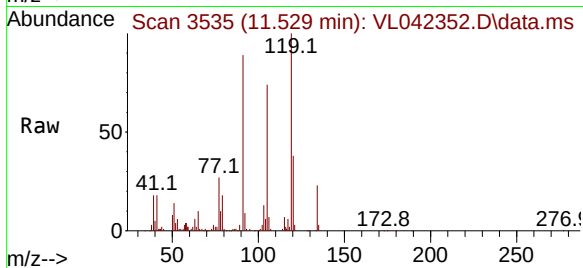
Tgt Ion:119 Resp: 37294

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 21.1 18.8 28.2



#66

Benzyl Chloride

Concen: 0.506 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

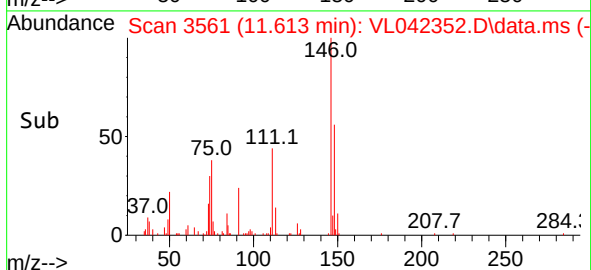
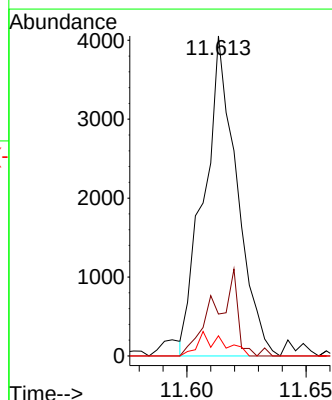
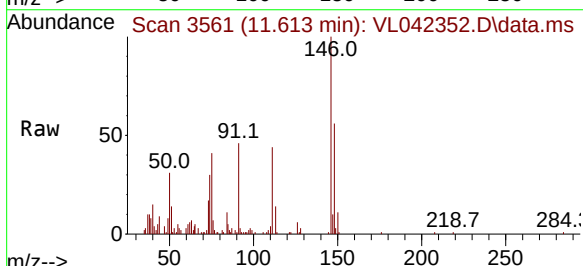
Tgt Ion: 91 Resp: 3878

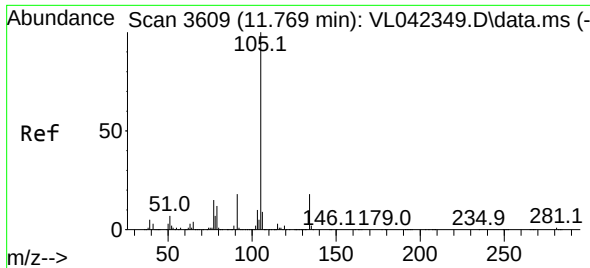
Ion Ratio Lower Upper

91 100

126 19.8 11.8 17.6#

128 5.8 4.5 6.7

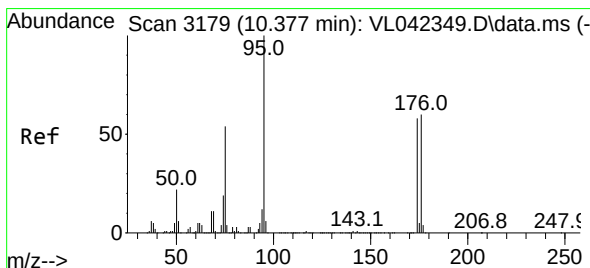
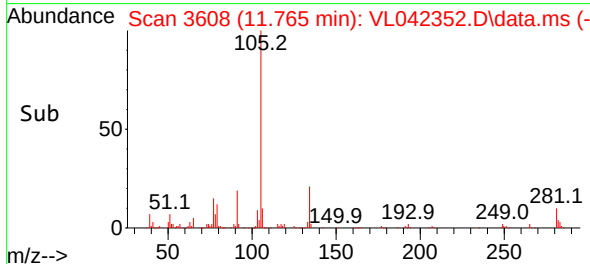
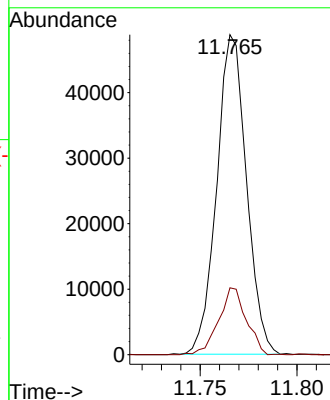
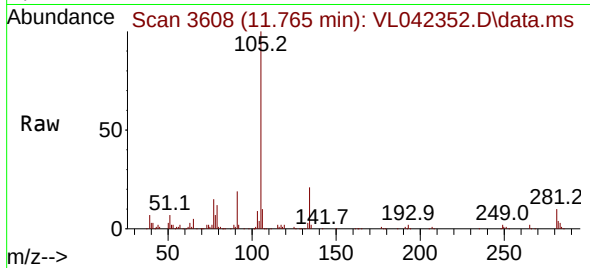




#67  
 sec-Butylbenzene  
 Concen: 0.537 ppbv  
 RT: 11.765 min Scan# 3107  
 Delta R.T. -0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

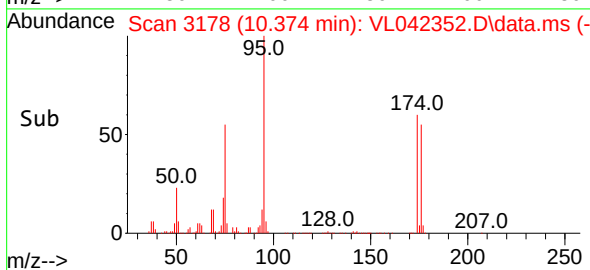
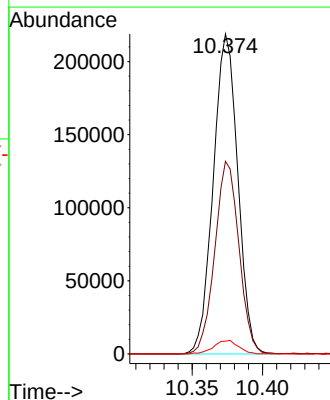
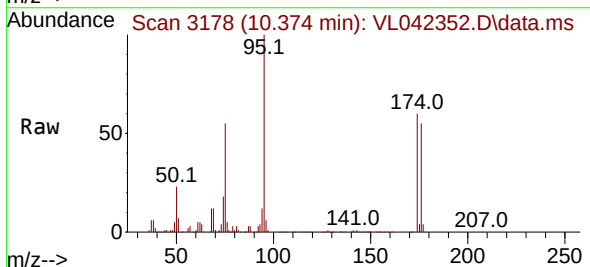
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

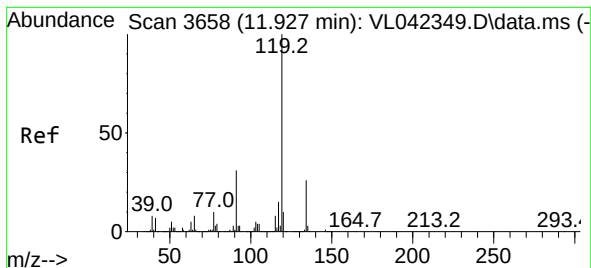
Tgt Ion:105 Resp: 52139  
 Ion Ratio Lower Upper  
 105 100  
 134 19.5 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.032 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. -0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161  
 Ion Ratio Lower Upper  
 95 100  
 174 59.4 48.5 72.7  
 175 4.3 3.7 5.5

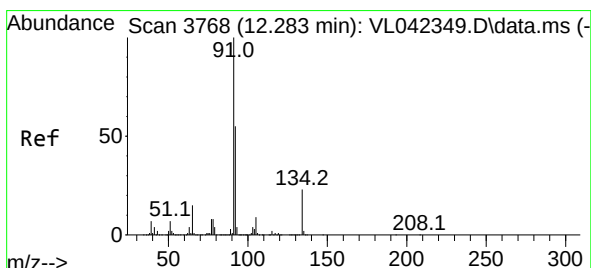
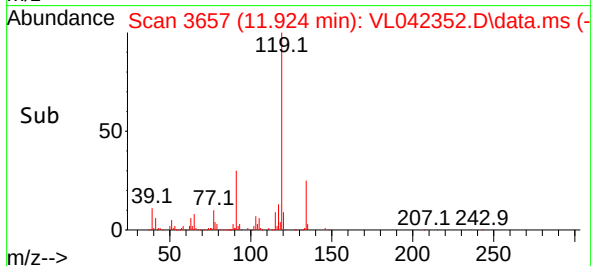
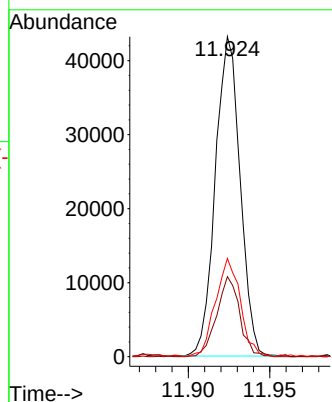
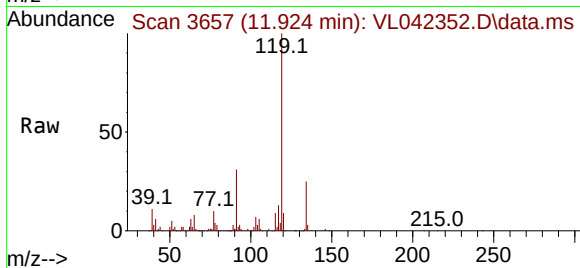




#69  
 p-Isopropyltoluene  
 Concen: 0.541 ppbv  
 RT: 11.924 min Scan# 3657  
 Delta R.T. -0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

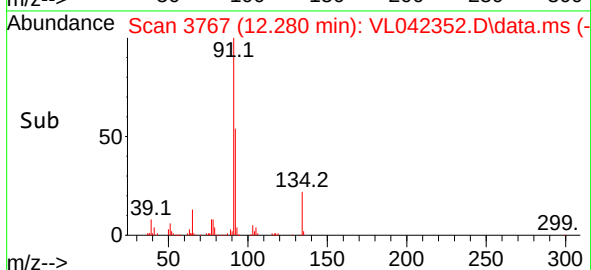
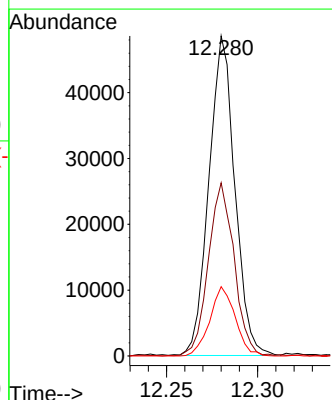
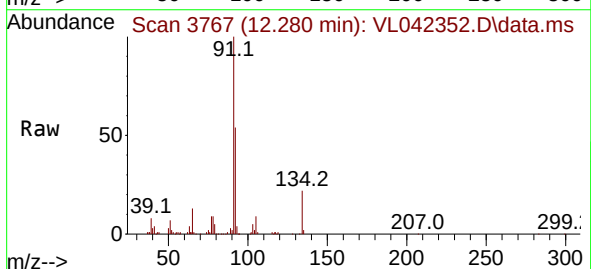
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

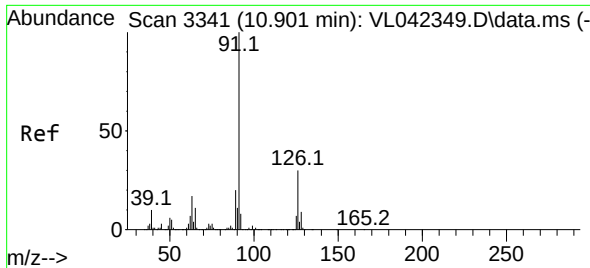
Tgt Ion: 119 Resp: 45574  
 Ion Ratio Lower Upper  
 119 100  
 134 23.3 20.0 30.0  
 91 31.4 24.4 36.6



#70  
 n-Butylbenzene  
 Concen: 0.547 ppbv  
 RT: 12.280 min Scan# 3767  
 Delta R.T. -0.003 min  
 Lab File: VL042352.D  
 Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 48004  
 Ion Ratio Lower Upper  
 91 100  
 92 54.7 44.2 66.4  
 134 21.4 18.2 27.4

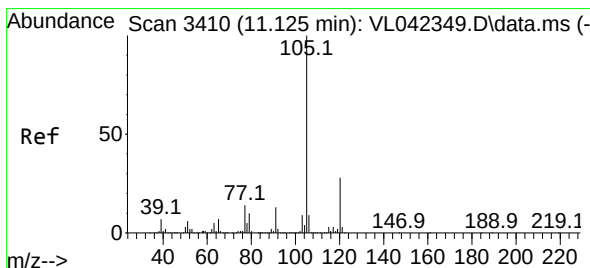
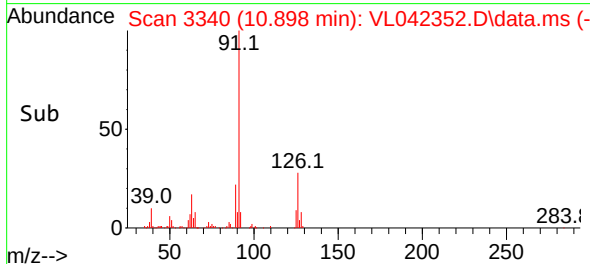
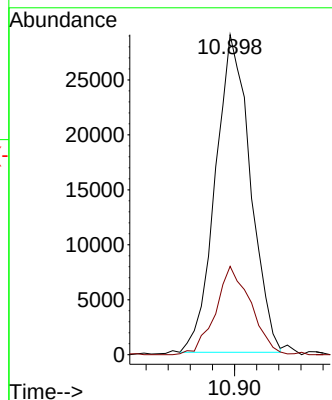
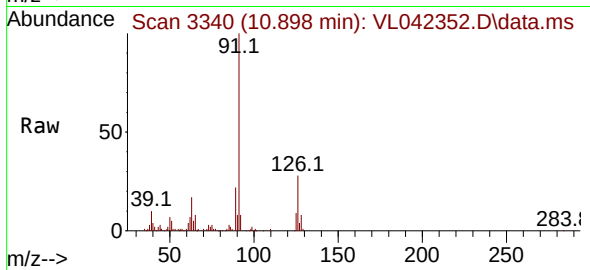




#71  
2-Chlorotoluene  
Concen: 0.533 ppbv  
RT: 10.898 min Scan# 31709  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

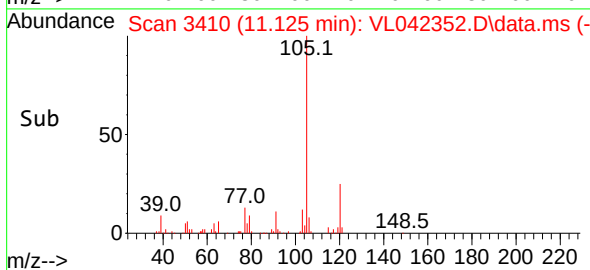
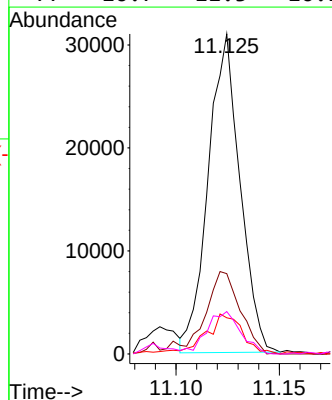
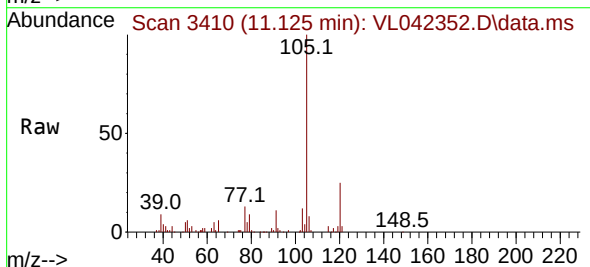
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

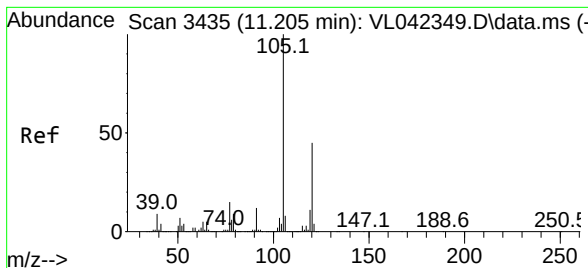
Tgt Ion: 91 Resp: 31709  
Ion Ratio Lower Upper  
91 100  
126 28.3 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 0.523 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 33048  
Ion Ratio Lower Upper  
105 100  
120 30.5 23.2 34.8  
91 15.7 10.4 15.6#  
77 16.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.546 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA\_1

ClientSampleId :

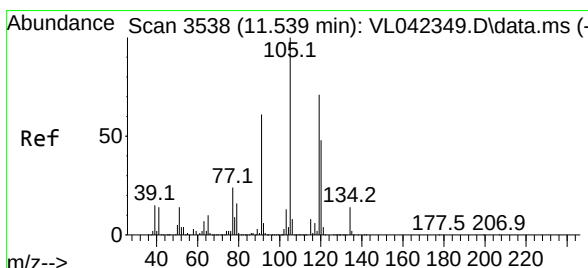
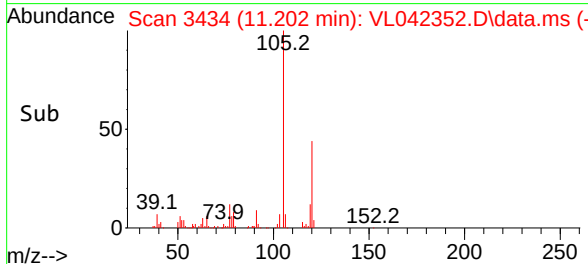
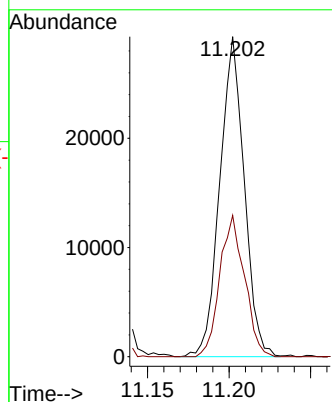
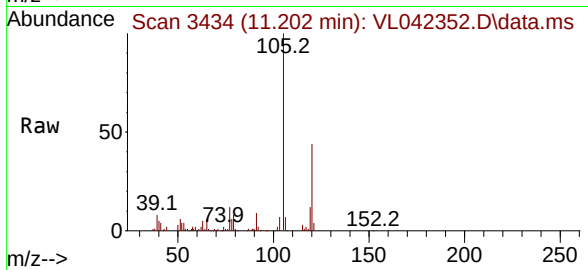
VSTDIC0.5

Tgt Ion:105 Resp: 30464

Ion Ratio Lower Upper

105 100

120 44.1 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.579 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

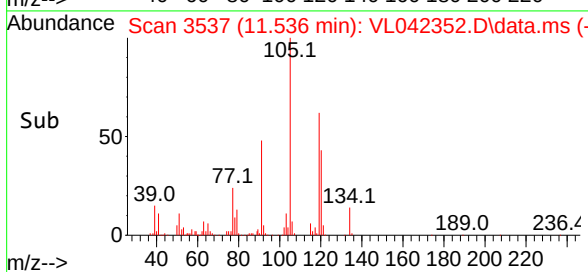
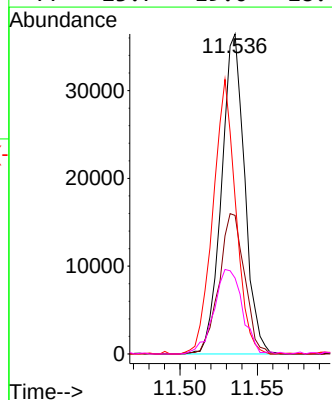
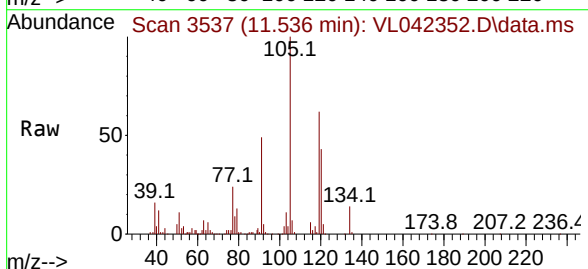
Ion Ratio Lower Upper

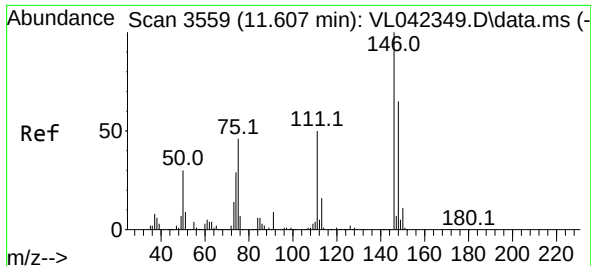
105 100

120 43.3 38.1 57.1

91 48.7 48.8 73.2#

77 23.7 19.0 28.4

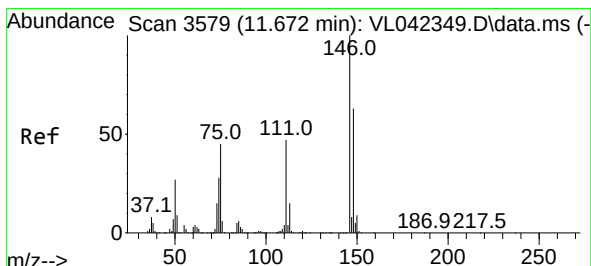
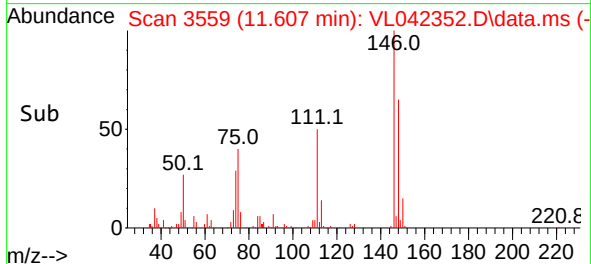
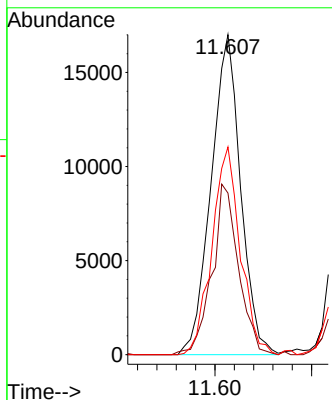
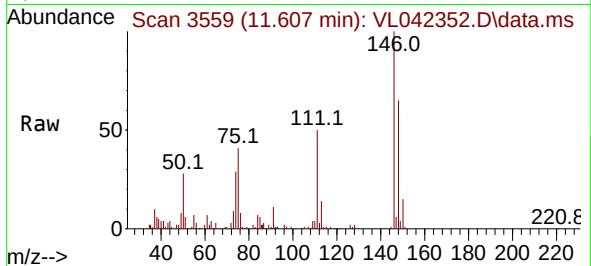




#75  
1,3-Dichlorobenzene  
Concen: 0.531 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

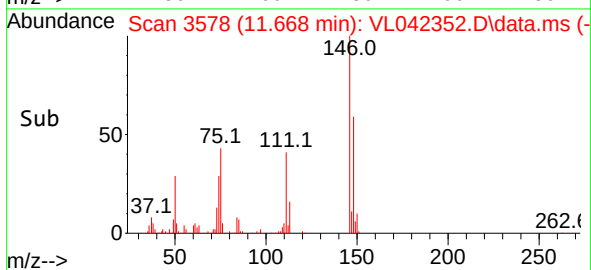
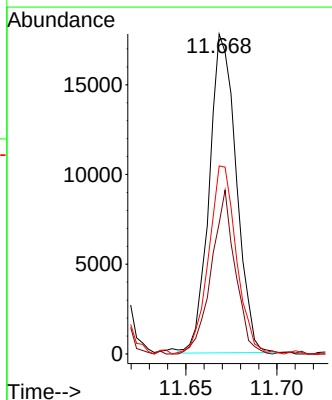
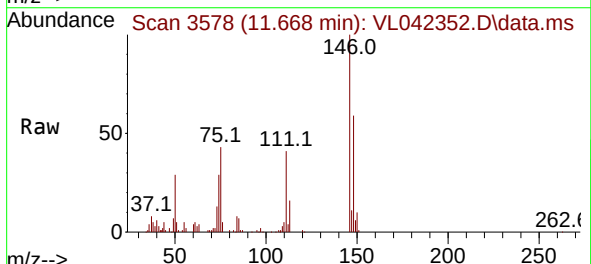
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:146 Resp: 18003  
Ion Ratio Lower Upper  
146 100  
111 47.9 24.3 72.8  
148 62.9 31.6 94.8

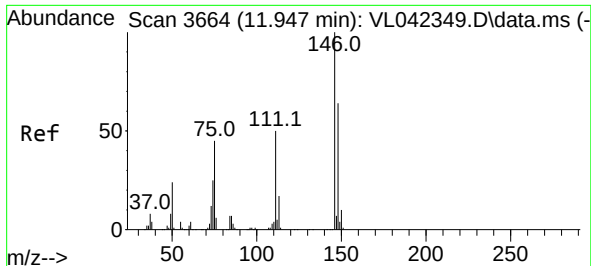


#76  
1,4-Dichlorobenzene  
Concen: 0.537 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300  
Ion Ratio Lower Upper  
146 100  
111 45.9 24.2 72.6  
148 61.2 32.1 96.5



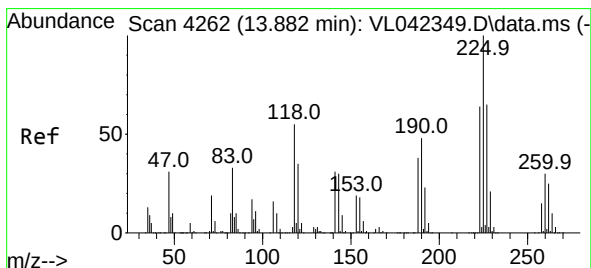
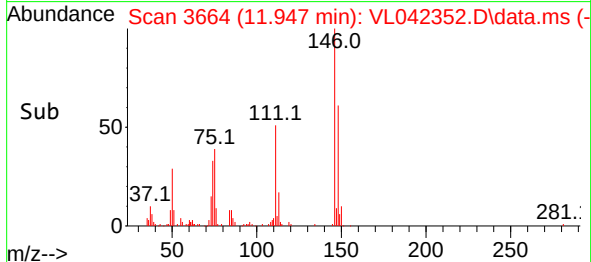
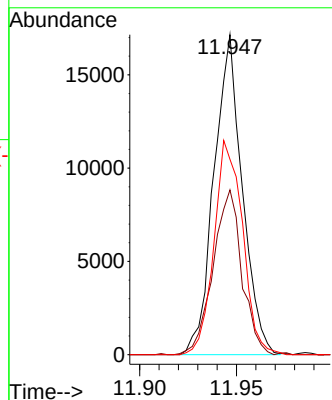
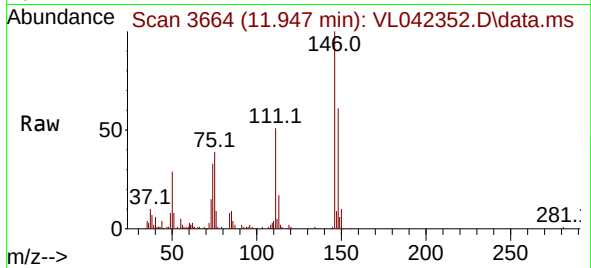




#77  
1,2-Dichlorobenzene  
Concen: 0.530 ppbv  
RT: 11.947 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

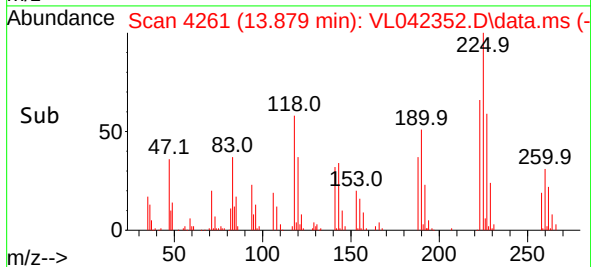
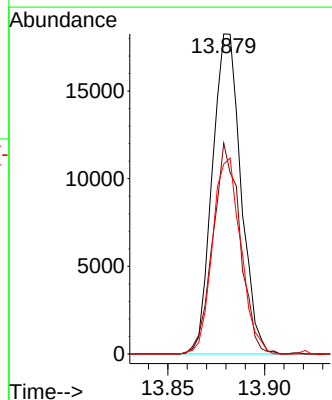
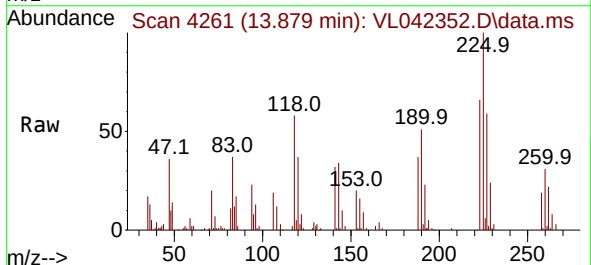
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

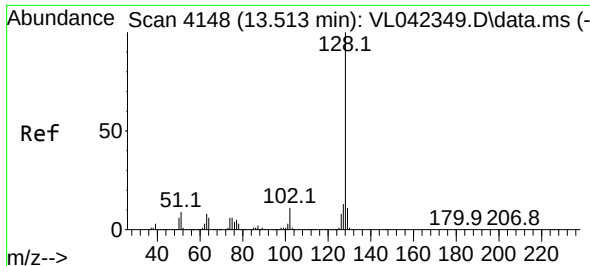
Tgt Ion:146 Resp: 17446  
Ion Ratio Lower Upper  
146 100  
111 52.6 25.3 75.9  
148 67.5 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.562 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.003 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705  
Ion Ratio Lower Upper  
225 100  
223 62.8 50.3 75.5  
227 61.1 51.5 77.3

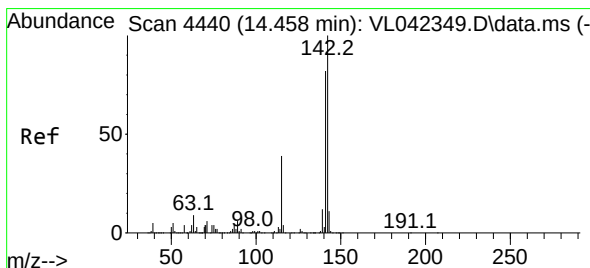
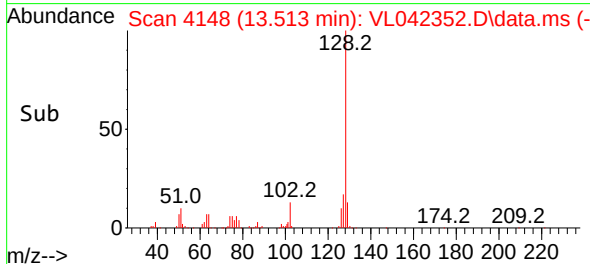
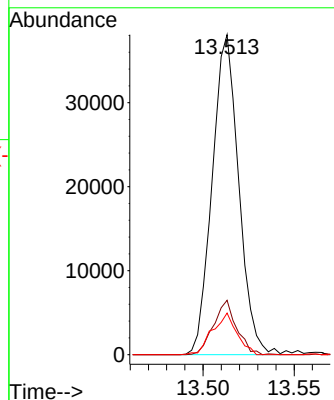
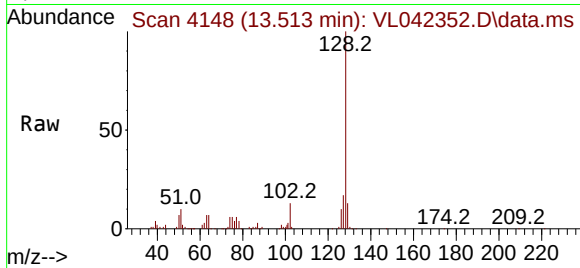




#79  
Naphthalene  
Concen: 0.494 ppbv  
RT: 13.513 min Scan# 4148  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

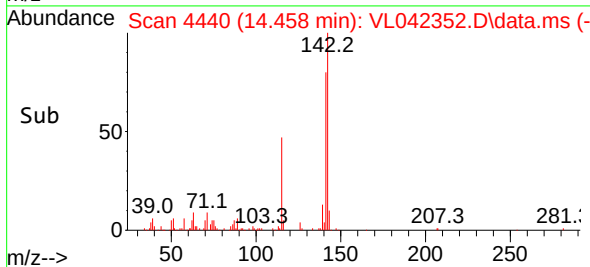
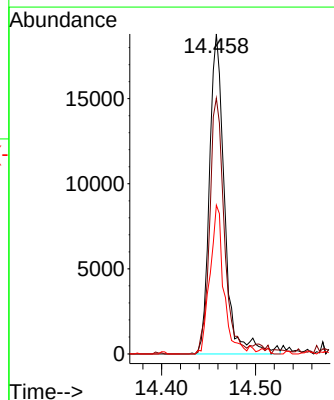
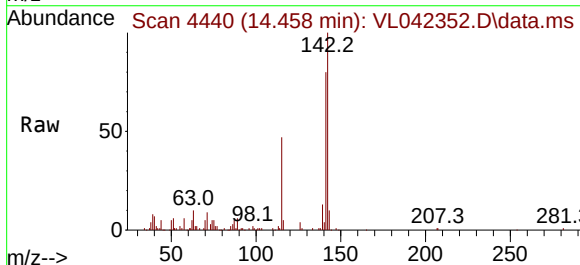
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

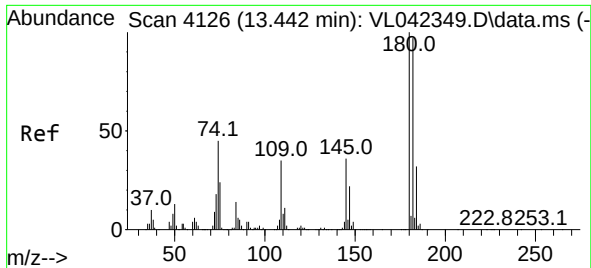
Tgt Ion:128 Resp: 38521  
Ion Ratio Lower Upper  
128 100  
127 17.0 10.6 15.8#  
129 13.0 8.6 12.8#



#80  
Naphthalene,2-methyl-  
Concen: 0.475 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL042352.D  
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076  
Ion Ratio Lower Upper  
142 100  
141 79.2 66.8 100.2  
115 44.1 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 0.493 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

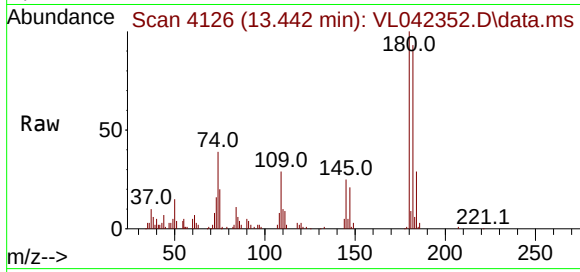
Acq: 17 Apr 2025 11:19

Instrument :

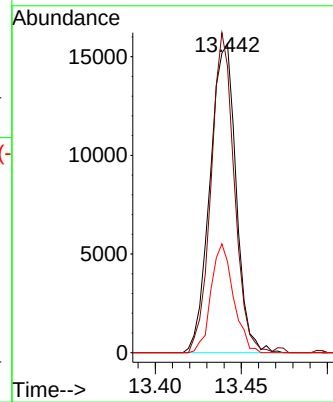
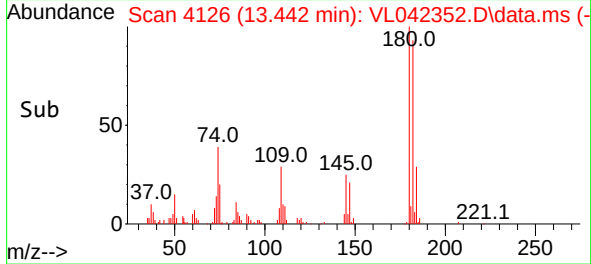
MSVOA\_L

ClientSampleId :

VSTDIC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 16504 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.4  | 76.8  | 115.2 |
| 184      | 30.2  | 24.6  | 36.8  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042353.D  
 Acq On : 17 Apr 2025 11:50  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 119461   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 350484   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 315004   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.381 | 95    | 256417   | 9.906    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.100% |

|                               |       |     |      |        |        |     |
|-------------------------------|-------|-----|------|--------|--------|-----|
| Target Compounds              |       |     |      | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 2857 | 0.135  | ppbv   | 98  |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 2706 | 0.135  | ppbv # | 91  |
| 4) Chloromethane              | 1.535 | 50  | 1225 | 0.147  | ppbv # | 85  |
| 5) Vinyl Chloride             | 1.580 | 62  | 1088 | 0.120  | ppbv # | 74  |
| 6) Bromomethane               | 1.668 | 94  | 663  | 0.168  | ppbv # | 72  |
| 7) Chloroethane               | 1.703 | 64  | 579  | 0.176  | ppbv # | 78  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 2377 | 0.131  | ppbv   | 94  |
| 9) Propene                    | 1.435 | 41  | 314  | 0.034  | ppbv   | 90  |
| 10) Heptane                   | 4.988 | 43  | 1056 | 0.043  | ppbv # | 1   |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 2017 | 0.123  | ppbv   | 94  |
| 13) Ethanol                   | 1.891 | 45  | 1958 | 2.618  | ppbv # | 24  |
| 14) Bromoethene               | 1.781 | 108 | 1015 | 0.164  | ppbv # | 77  |
| 15) Acetone                   | 1.839 | 43  | 4783 | 0.245  | ppbv # | 82  |
| 16) 1,3-Butadiene             | 1.609 | 39  | 1776 | 0.193  | ppbv # | 46  |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 3130 | 0.129  | ppbv # | 6   |
| 18) 1,1-Dichloroethene        | 2.037 | 96  | 1074 | 0.136  | ppbv   | 85  |
| 19) Isopropyl Alcohol         | 1.891 | 45  | 1958 | 0.180  | ppbv   | 90  |
| 20) Methylene Chloride        | 2.066 | 84  | 2741 | 0.358  | ppbv # | 74  |
| 21) Allyl Chloride            | 2.098 | 41  | 2786 | 0.206  | ppbv # | 72  |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 1201 | 0.138  | ppbv # | 60  |
| 23) Vinyl Acetate             | 2.457 | 43  | 326  | 0.041  | ppbv # | 77  |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 2169 | 0.131  | ppbv # | 78  |
| 26) Hexane                    | 2.833 | 57  | 3260 | 0.167  | ppbv # | 1   |
| 27) Carbon Disulfide          | 2.150 | 76  | 2396 | 0.115  | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.448 | 73  | 1460 | 0.114  | ppbv # | 1   |
| 29) Chloroform                | 2.849 | 83  | 3542 | 0.128  | ppbv   | 100 |
| 30) Cyclohexane               | 3.859 | 84  | 1037 | 0.066  | ppbv # | 1   |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 1734 | 0.059  | ppbv # | 20  |
| 34) 2-Butanone                | 2.564 | 43  | 3506 | 0.126  | ppbv # | 79  |
| 35) Carbon Tetrachloride      | 3.771 | 117 | 3204 | 0.101  | ppbv # | 94  |
| 36) Benzene                   | 3.665 | 78  | 4424 | 0.117  | ppbv   | 97  |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 2523 | 0.111  | ppbv # | 81  |
| 38) Trichloroethene           | 4.551 | 130 | 1113 | 0.067  | ppbv # | 63  |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 1007 | 0.071  | ppbv   | 96  |
| 40) 1,4-Dioxane               | 4.616 | 88  | 431  | 0.056  | ppbv # | 1   |
| 42) Bromodichloromethane      | 4.496 | 83  | 2443 | 0.077  | ppbv # | 89  |
| 43) Methyl Methacrylate       | 4.894 | 69  | 1683 | 0.099  | ppbv # | 60  |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 2115 | 0.032  | ppbv # | 42  |
| 45) t-1,3-Dichloropropene     | 6.429 | 75  | 748  | 0.043  | ppbv   | 98  |
| 46) cis-1,3-Dichloropropene   | 5.610 | 75  | 1032 | 0.048  | ppbv   | 90  |
| 47) 1,1,2-Trichloroethane     | 6.584 | 97  | 540  | 0.038  | ppbv # | 39  |
| 48) Dibromochloromethane      | 7.393 | 129 | 1149 | 0.045  | ppbv # | 1   |
| 49) Bromoform                 | 9.484 | 173 | 1973 | 0.089  | ppbv # | 86  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042353.D  
 Acq On : 17 Apr 2025 11:50  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

Quant Time: Apr 18 01:29:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

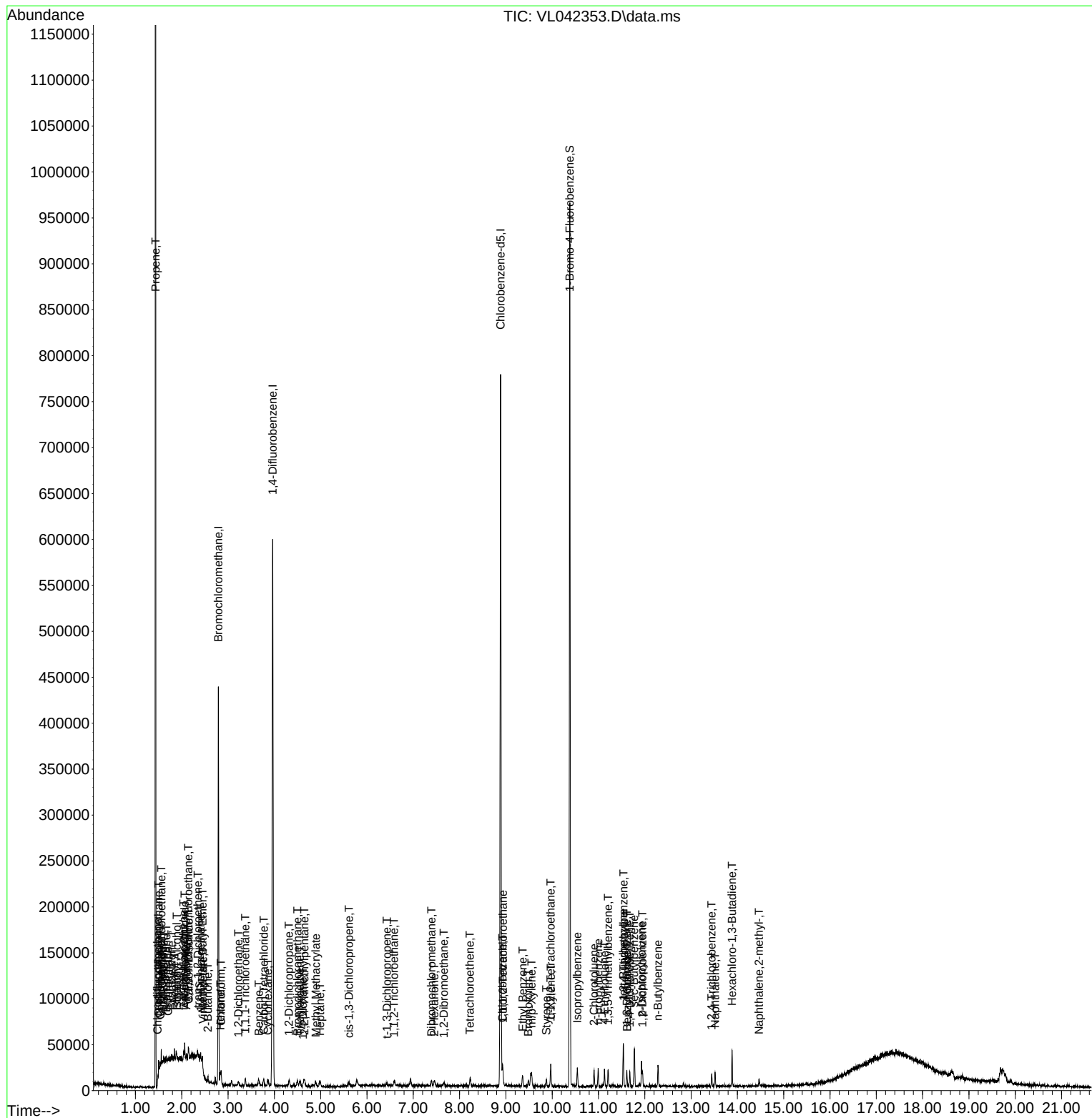
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |    |
|-------------------------------|--------|------|----------|-------|-------|----------|----|
| 51) 2-Hexanone                | 7.455  | 43   | 4915     | 0.118 | ppbv  | #        | 99 |
| 52) Tetrachloroethene         | 8.222  | 164  | 957      | 0.065 | ppbv  |          | 88 |
| 54) 1,2-Dibromoethane         | 7.662  | 107  | 1470     | 0.072 | ppbv  | #        | 75 |
| 56) 1,1,1,2-Tetrachloroethane | 8.934  | 131  | 2031     | 0.107 | ppbv  | #        | 47 |
| 57) Chlorobenzene             | 8.924  | 112  | 3842     | 0.117 | ppbv  | #        | 76 |
| 58) Ethyl Benzene             | 9.361  | 91   | 3105     | 0.050 | ppbv  |          | 95 |
| 59) m/p-Xylene                | 9.552  | 91   | 4844     | 0.096 | ppbv  | #        | 32 |
| 60) o-Xylene                  | 9.970  | 91   | 5359     | 0.106 | ppbv  |          | 91 |
| 61) Styrene                   | 9.872  | 104  | 1549     | 0.064 | ppbv  | #        | 26 |
| 62) Isopropylbenzene          | 10.542 | 105  | 8285     | 0.111 | ppbv  |          | 97 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 3646     | 0.111 | ppbv  |          | 97 |
| 64) n-propylbenzene           | 10.996 | 120  | 2186     | 0.117 | ppbv  |          | 93 |
| 65) tert-Butylbenzene         | 11.536 | 119  | 8656     | 0.127 | ppbv  |          | 85 |
| 66) Benzyl Chloride           | 11.617 | 91   | 414      | 0.055 | ppbv  | #        | 81 |
| 67) sec-Butylbenzene          | 11.769 | 105  | 11126    | 0.117 | ppbv  |          | 96 |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 9534     | 0.115 | ppbv  |          | 98 |
| 70) n-Butylbenzene            | 12.284 | 91   | 8684     | 0.101 | ppbv  |          | 96 |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 6703     | 0.115 | ppbv  |          | 99 |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 6463     | 0.104 | ppbv  | #        | 80 |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 6797     | 0.124 | ppbv  |          | 96 |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 8745     | 0.137 | ppbv  | #        | 81 |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 3258     | 0.098 | ppbv  |          | 85 |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 3366     | 0.101 | ppbv  |          | 92 |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 3996     | 0.124 | ppbv  |          | 93 |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 4030     | 0.124 | ppbv  |          | 97 |
| 79) Naphthalene               | 13.517 | 128  | 7664     | 0.100 | ppbv  | #        | 92 |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 3339     | 0.077 | ppbv  | #        | 92 |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 2245     | 0.069 | ppbv  | #        | 95 |

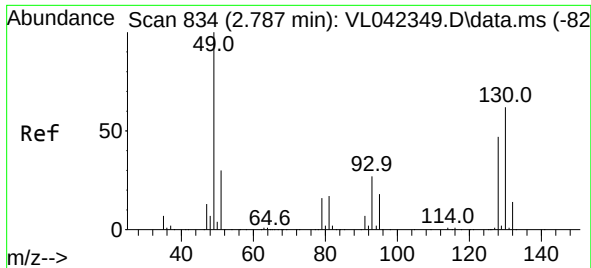
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042353.D  
Acq On : 17 Apr 2025 11:50  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration

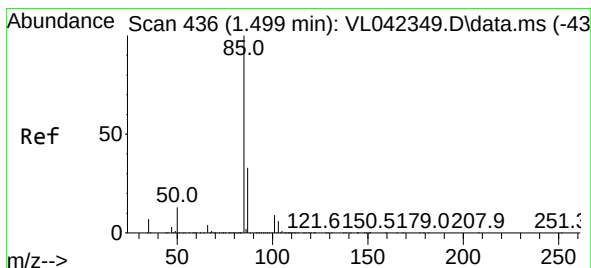
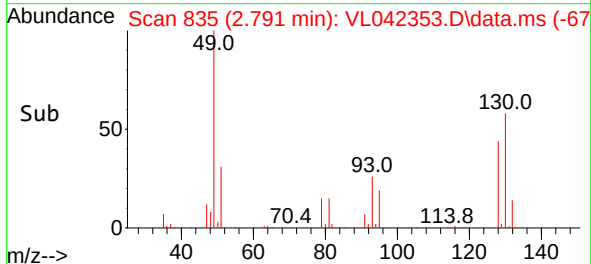
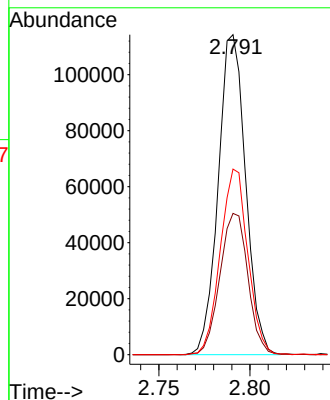
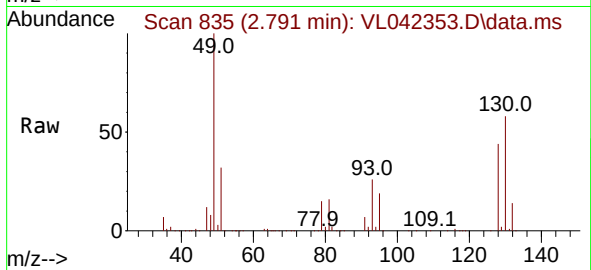




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

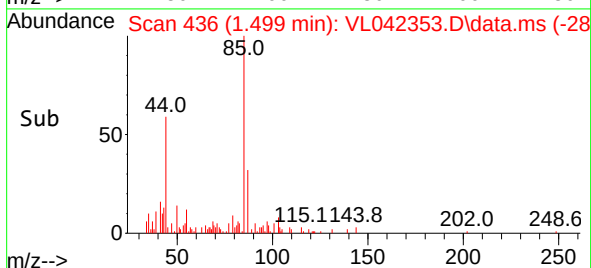
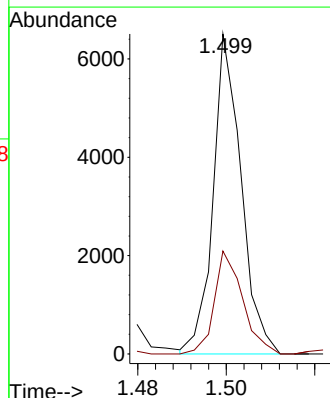
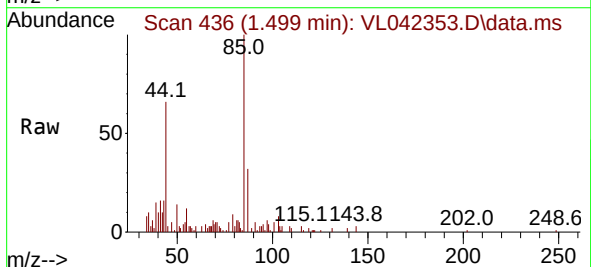
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

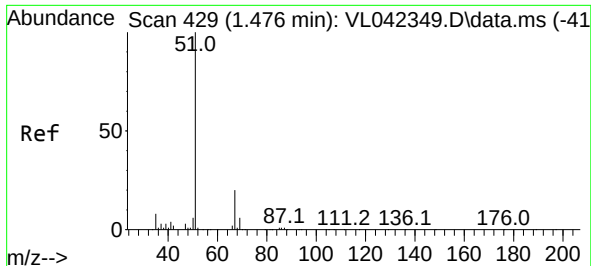
Tgt Ion: 49 Resp: 119461  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 58.3 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 0.135 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2857  
Ion Ratio Lower Upper  
85 100  
87 32.2 26.6 39.8

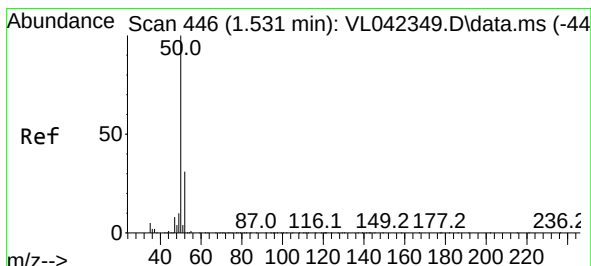
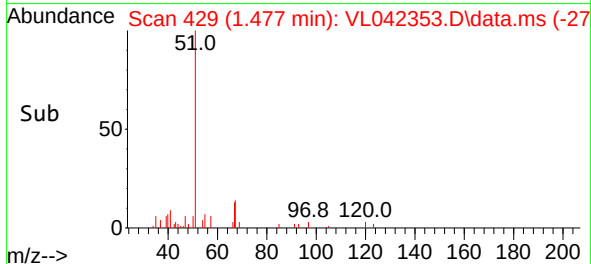
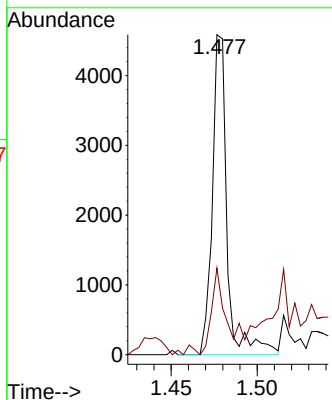
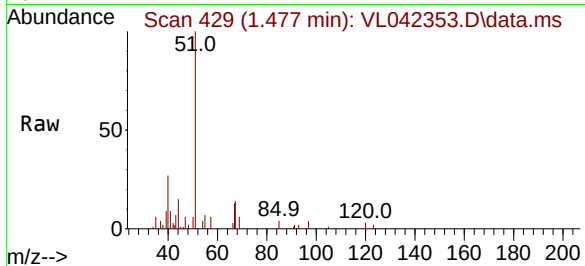




#3  
Chlorodifluoromethane  
Concen: 0.135 ppbv  
RT: 1.477 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

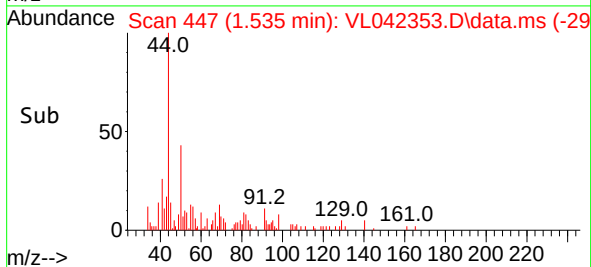
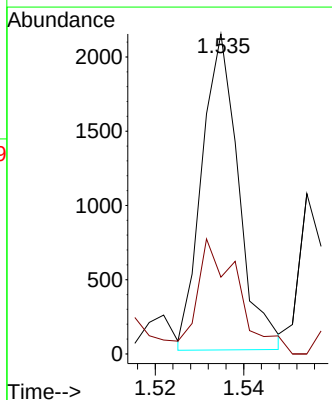
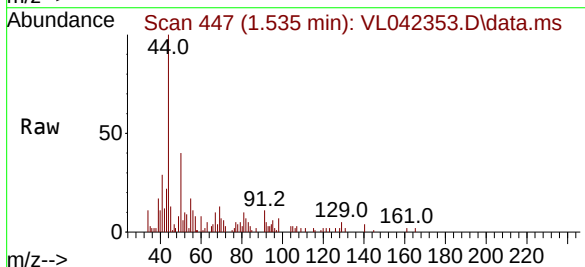
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 51 Resp: 2706  
Ion Ratio Lower Upper  
51 100  
67 24.5 16.2 24.4#

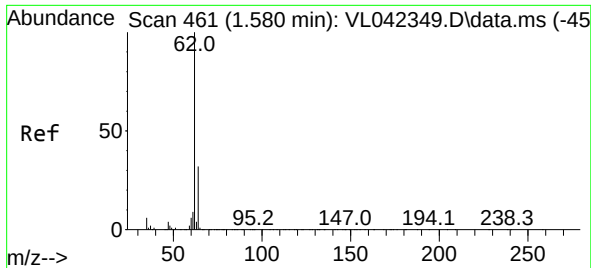


#4  
Chloromethane  
Concen: 0.147 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 50 Resp: 1225  
Ion Ratio Lower Upper  
50 100  
52 22.9 24.7 37.1#



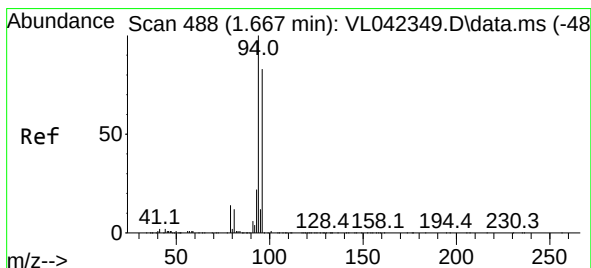
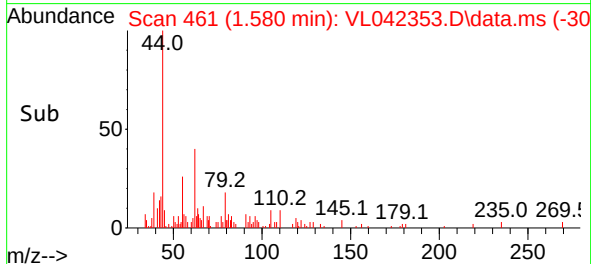
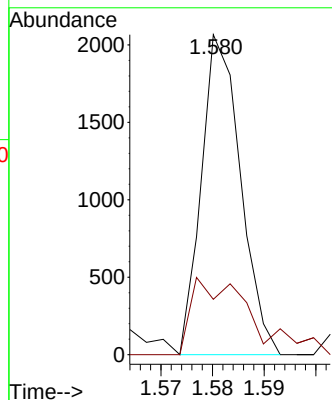
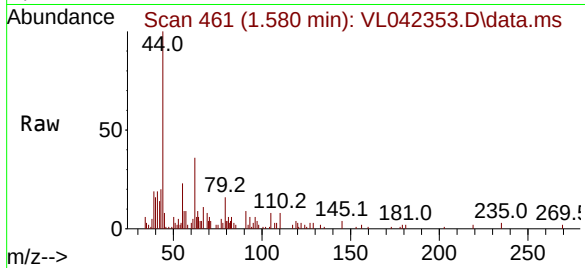




#5  
 Vinyl Chloride  
 Concen: 0.120 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

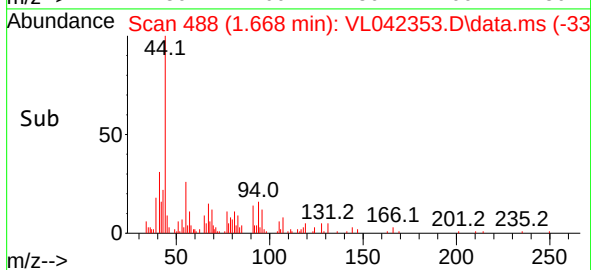
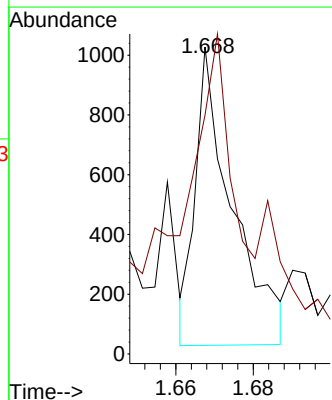
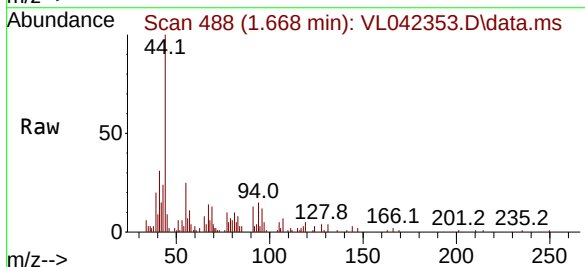
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

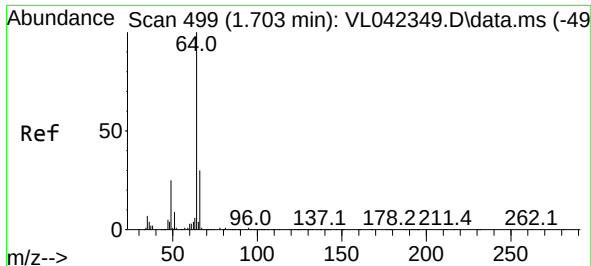
Tgt Ion: 62 Resp: 1088  
 Ion Ratio Lower Upper  
 62 100  
 64 17.3 25.4 38.0#



#6  
 Bromomethane  
 Concen: 0.168 ppbv  
 RT: 1.668 min Scan# 488  
 Delta R.T. 0.000 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

Tgt Ion: 94 Resp: 663  
 Ion Ratio Lower Upper  
 94 100  
 96 57.5 66.2 99.2#

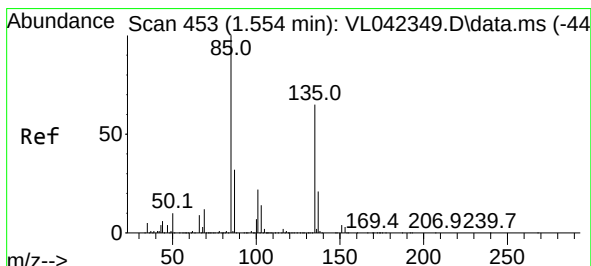
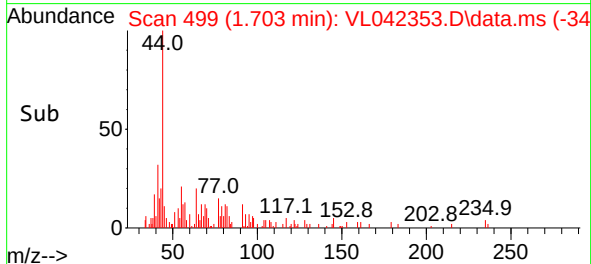
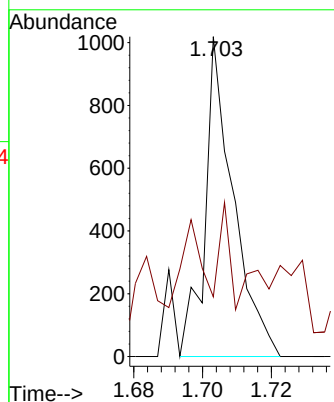
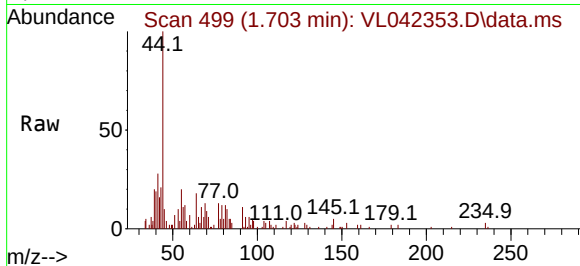




#7  
Chloroethane  
Concen: 0.176 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

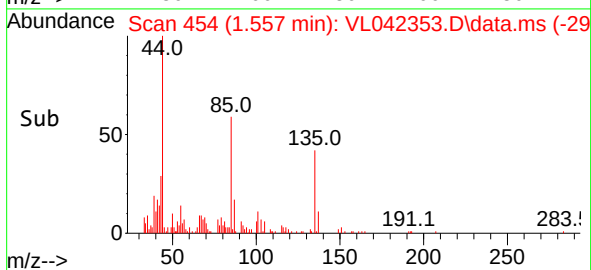
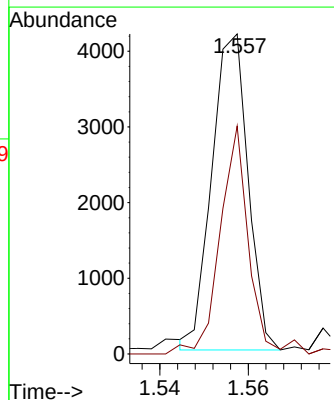
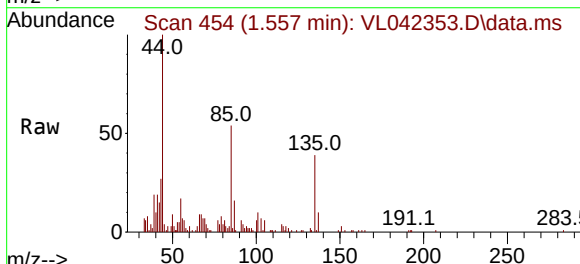
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

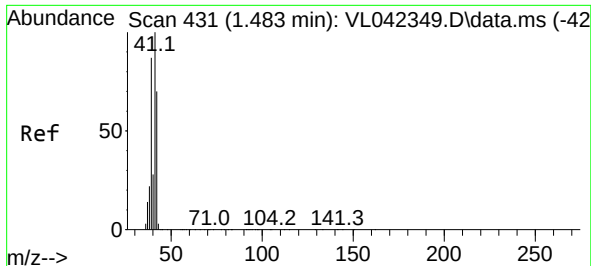
Tgt Ion: 64 Resp: 579  
Ion Ratio Lower Upper  
64 100  
66 18.6 24.6 37.0#



#8  
Dichlorotetrafluoroethane  
Concen: 0.131 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2377  
Ion Ratio Lower Upper  
85 100  
135 60.3 52.2 78.2





#9

Propene

Concen: 0.034 ppbv

RT: 1.435 min Scan# 41

Delta R.T. -0.048 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_1

ClientSampleId :

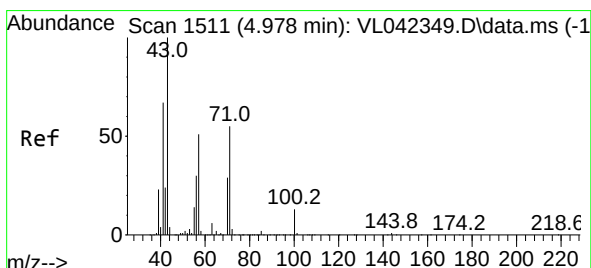
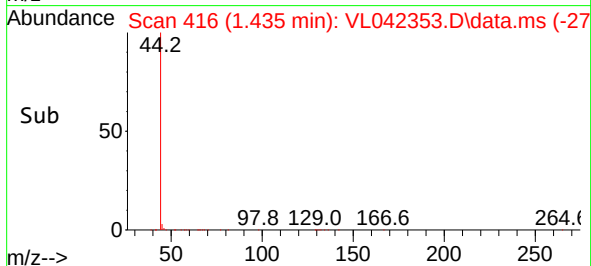
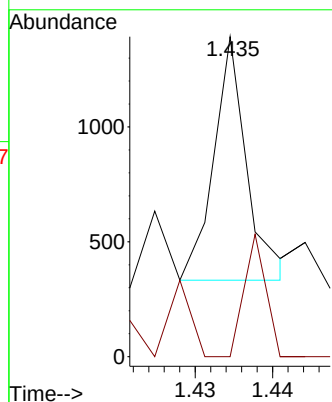
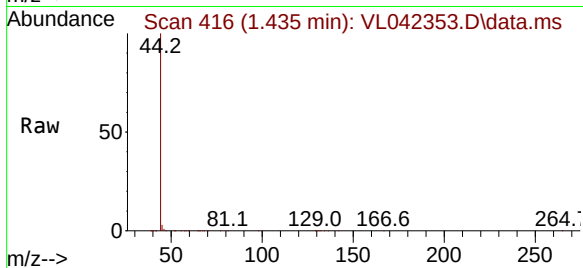
VSTDIC0.1

Tgt Ion: 41 Resp: 314

Ion Ratio Lower Upper

41 100

42 78.7 56.2 84.4



#10

Heptane

Concen: 0.043 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.010 min

Lab File: VL042353.D

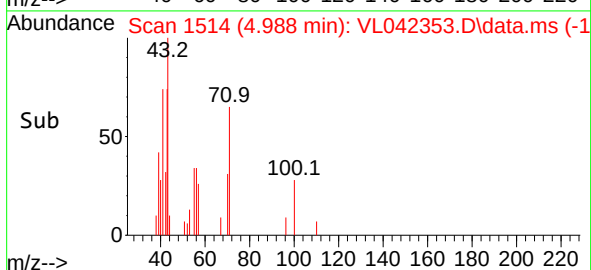
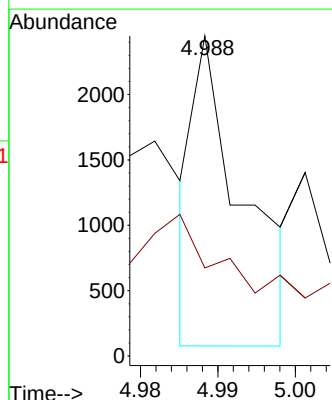
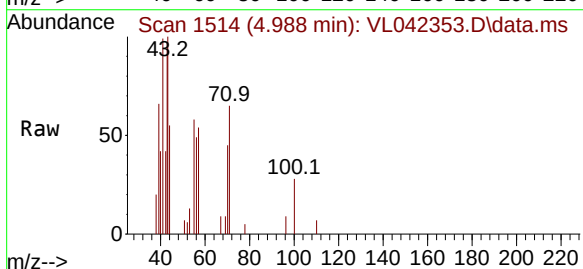
Acq: 17 Apr 2025 11:50

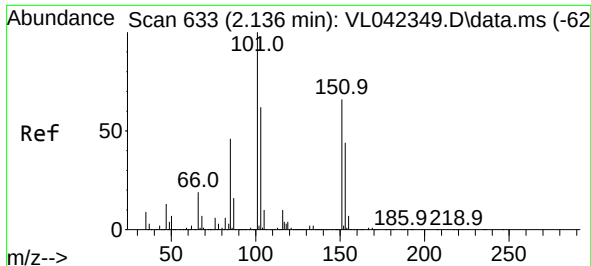
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

57 220.7 39.9 59.9#

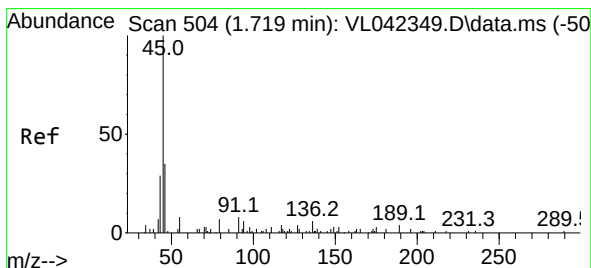
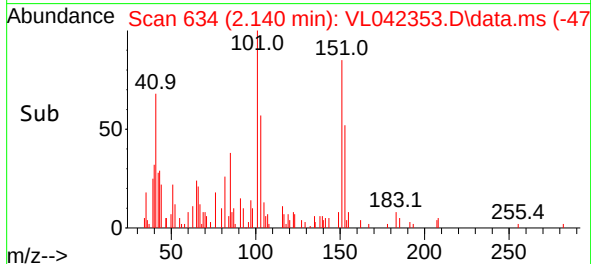
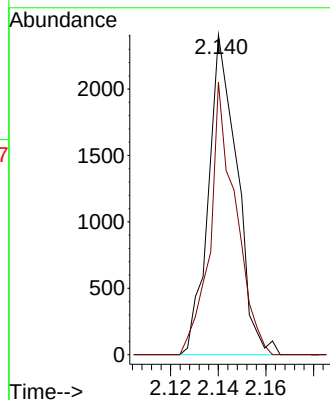
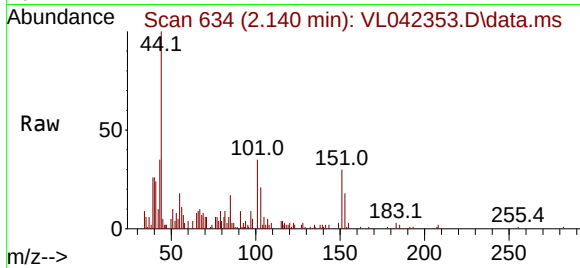




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.123 ppbv  
RT: 2.140 min Scan# 61  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

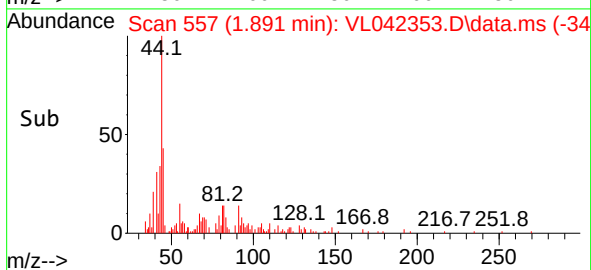
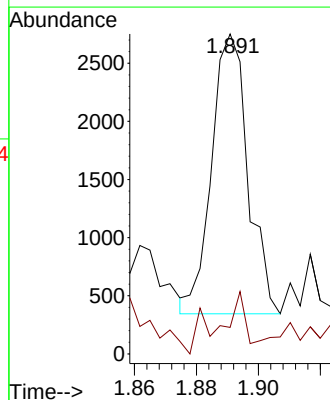
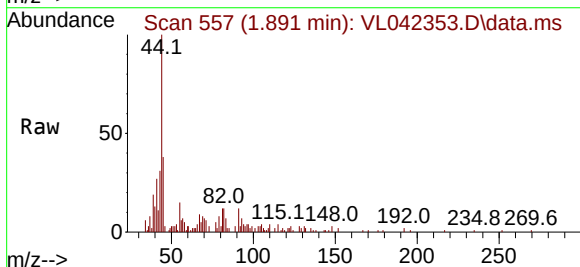
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ClientSampleId :  
VSTDIC0.1

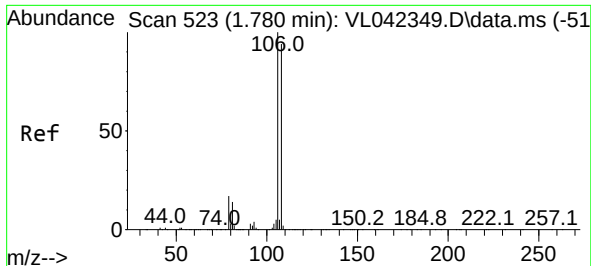
Tgt Ion:101 Resp: 2017  
Ion Ratio Lower Upper  
101 100  
151 76.2 57.0 85.6



#13  
Ethanol  
Concen: 2.618 ppbv  
RT: 1.891 min Scan# 557  
Delta R.T. 0.172 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958  
Ion Ratio Lower Upper  
45 100  
46 0.0 21.9 87.7#

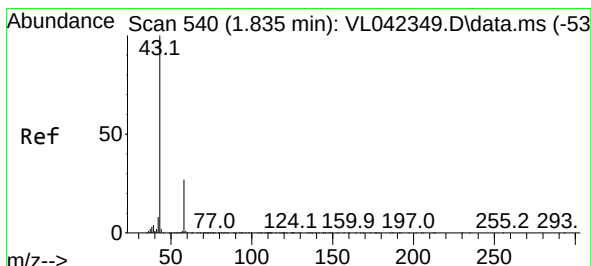
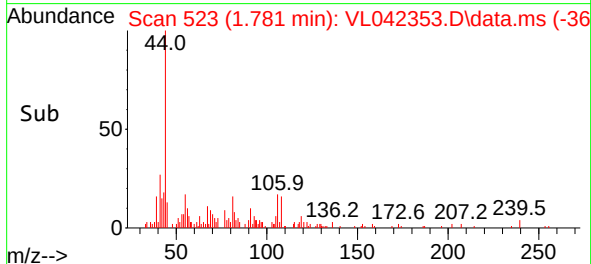
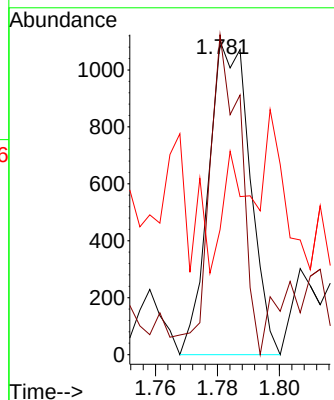
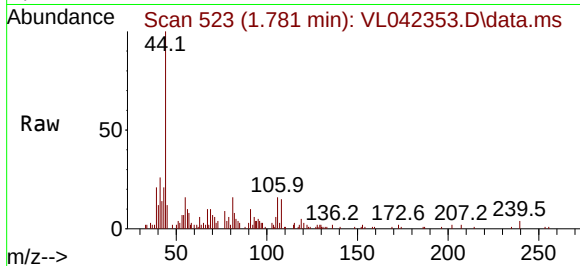




#14  
Bromoethene  
Concen: 0.164 ppbv  
RT: 1.781 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

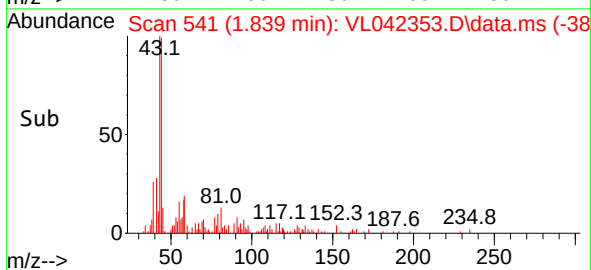
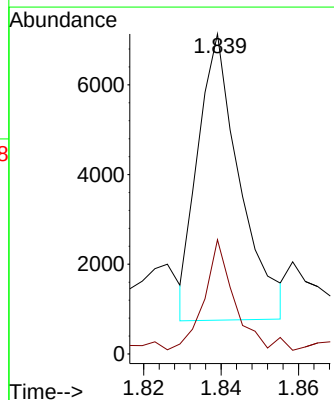
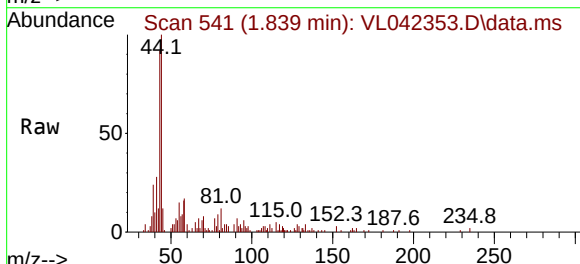
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MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

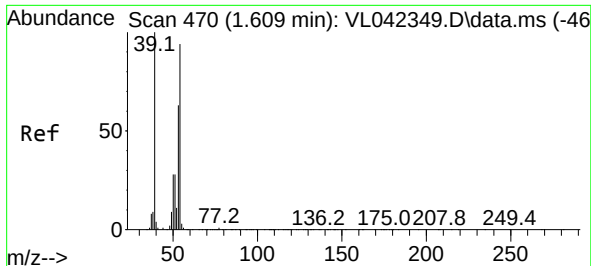
Tgt Ion:108 Resp: 1015  
Ion Ratio Lower Upper  
108 100  
106 128.3 85.9 128.9  
79 0.0 13.9 20.9#



#15  
Acetone  
Concen: 0.245 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4783  
Ion Ratio Lower Upper  
43 100  
58 37.5 22.4 33.6#

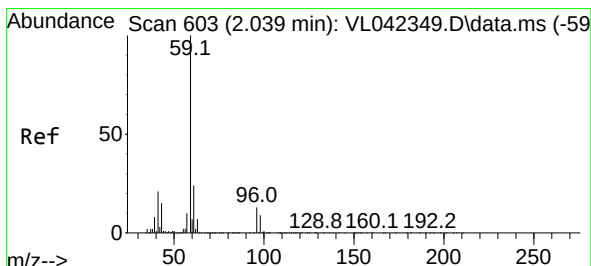
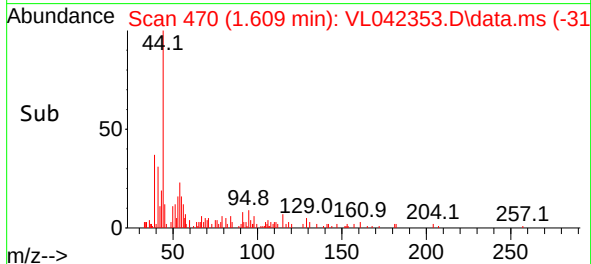
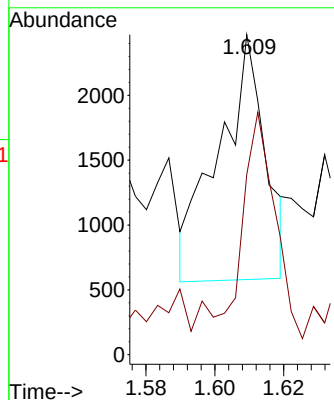
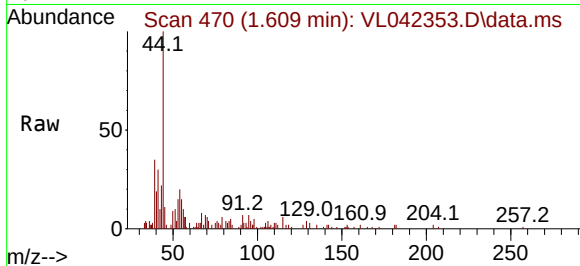




#16  
1,3-Butadiene  
Concen: 0.193 ppbv  
RT: 1.609 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

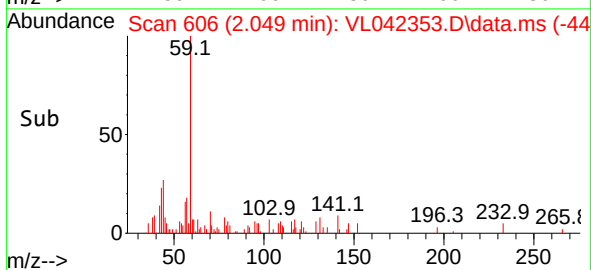
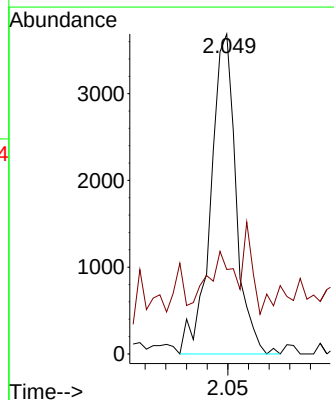
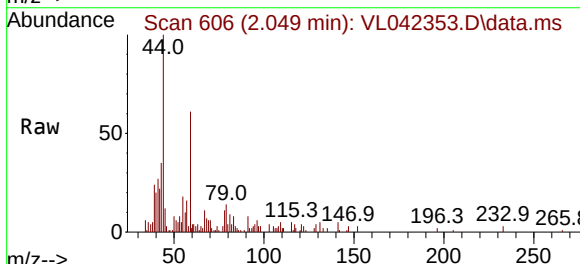
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

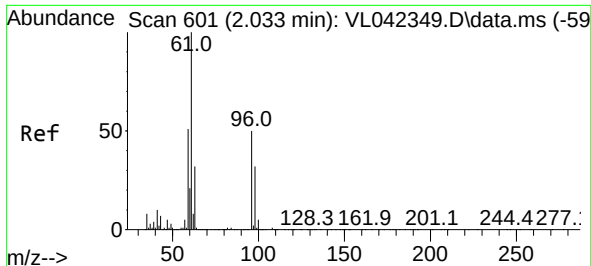
Tgt Ion: 39 Resp: 1776  
Ion Ratio Lower Upper  
39 100  
54 128.7 64.9 97.3#



#17  
tert-Butyl alcohol  
Concen: 0.129 ppbv  
RT: 2.049 min Scan# 606  
Delta R.T. 0.010 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 59 Resp: 3130  
Ion Ratio Lower Upper  
59 100  
57 46.5 8.7 13.1#





#18

1,1-Dichloroethene

Concen: 0.136 ppbv

RT: 2.037 min Scan# 601

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

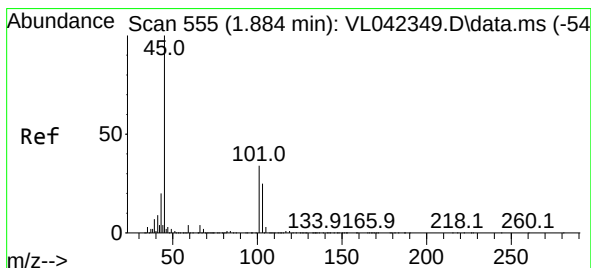
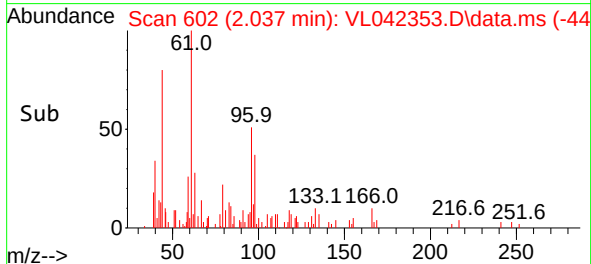
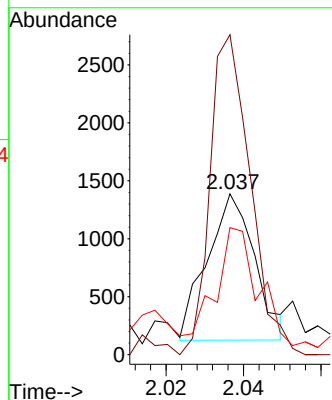
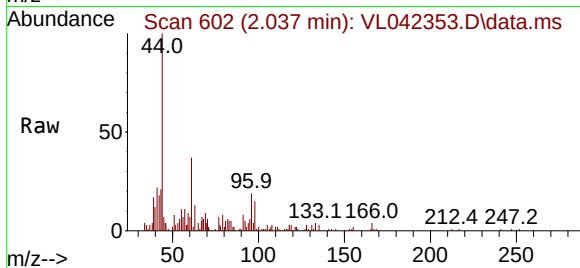
Tgt Ion: 96 Resp: 1074

Ion Ratio Lower Upper

96 100

61 222.5 160.2 240.2

98 75.2 51.0 76.4



#19

Isopropyl Alcohol

Concen: 0.180 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042353.D

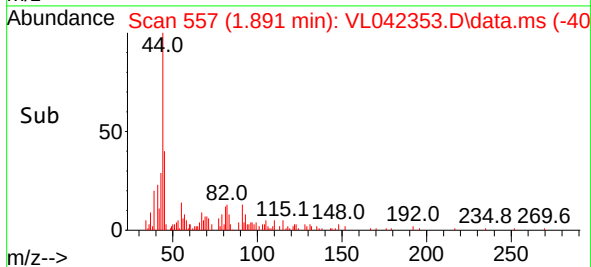
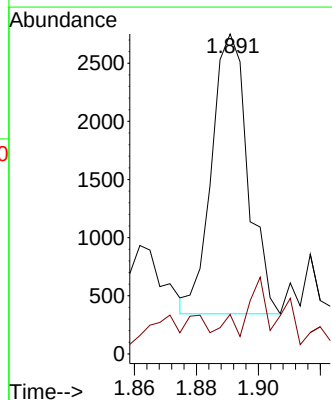
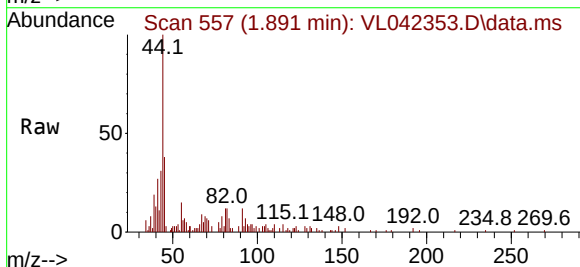
Acq: 17 Apr 2025 11:50

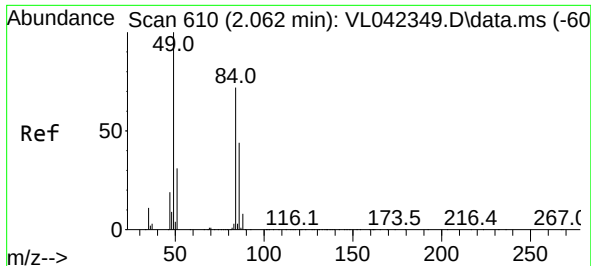
Tgt Ion: 45 Resp: 1958

Ion Ratio Lower Upper

45 100

58 49.5 34.5 51.7

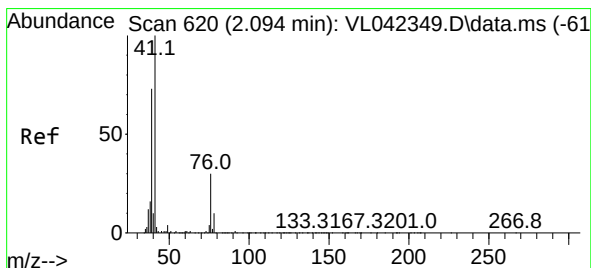
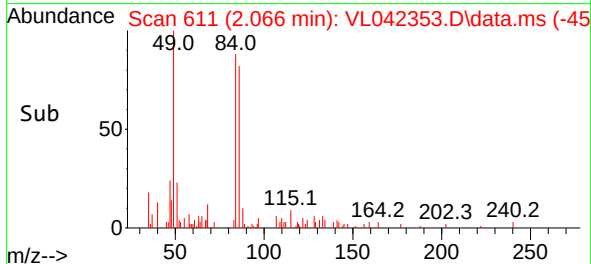
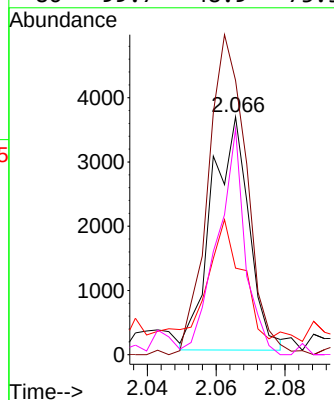
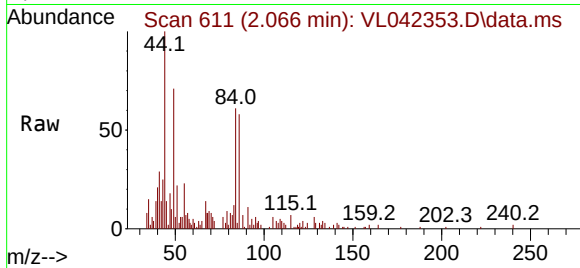




#20  
Methylene Chloride  
Concen: 0.358 ppbv  
RT: 2.066 min Scan# 610  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

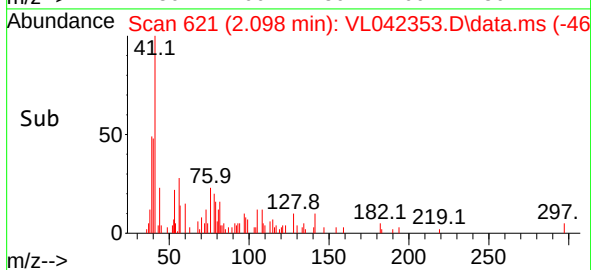
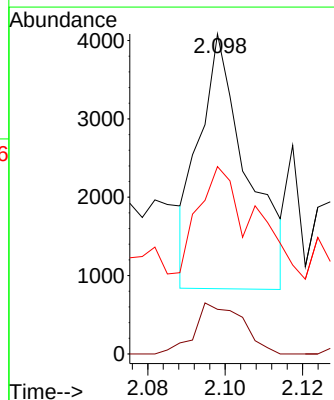
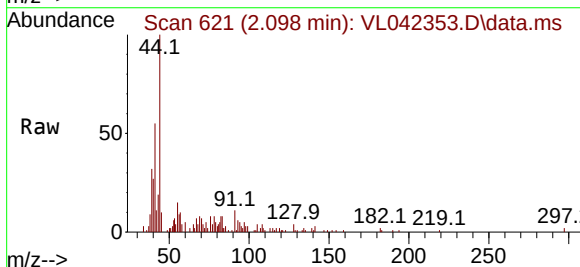
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2741  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 119.3 | 111.6 | 167.4 |
| 51       | 28.2  | 35.1  | 52.7# |
| 86       | 99.7  | 48.9  | 73.3# |

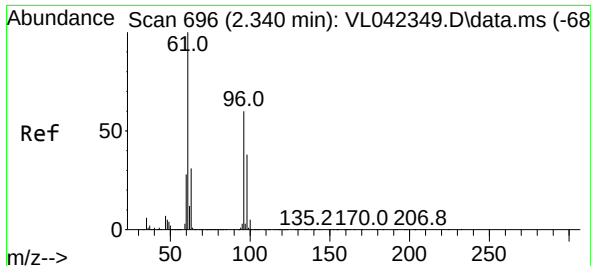


#21  
Allyl Chloride  
Concen: 0.206 ppbv  
RT: 2.098 min Scan# 621  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 2786  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 20.0  | 24.8  | 37.2# |
| 39       | 102.2 | 60.6  | 90.8# |



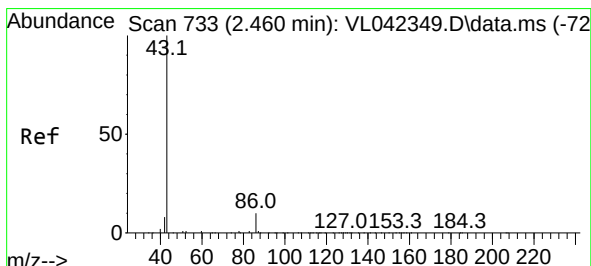
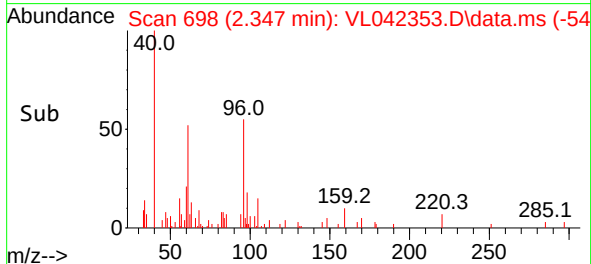
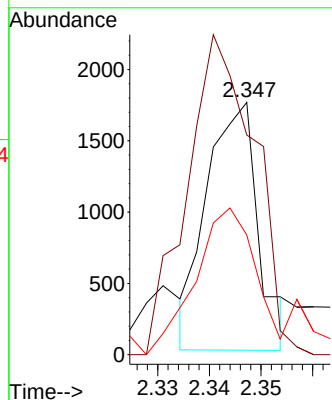
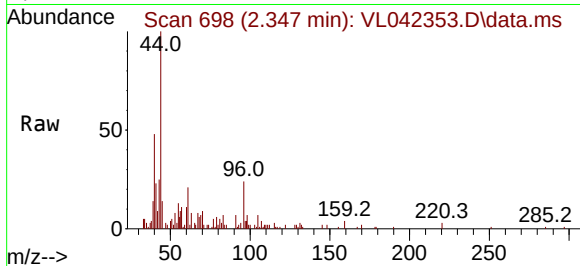




#22  
trans-1,2-Dichloroethene  
Concen: 0.138 ppbv  
RT: 2.347 min Scan# 696  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

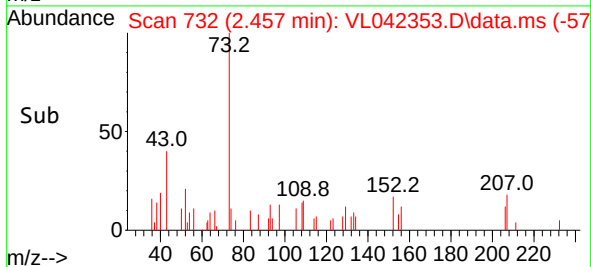
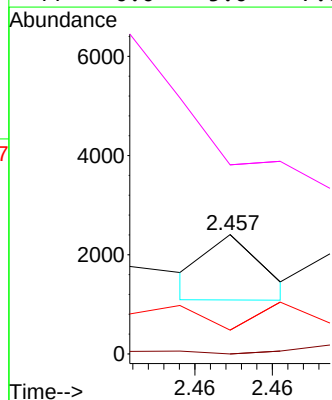
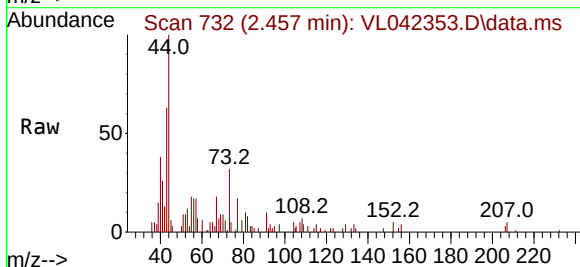
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

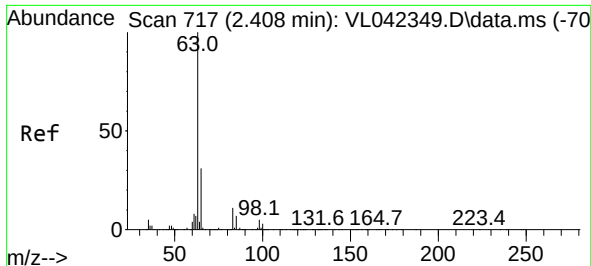
Tgt Ion: 96 Resp: 1201  
Ion Ratio Lower Upper  
96 100  
61 99.5 133.7 200.5#  
98 52.9 50.3 75.5



#23  
Vinyl Acetate  
Concen: 0.041 ppbv  
RT: 2.457 min Scan# 732  
Delta R.T. -0.003 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 326  
Ion Ratio Lower Upper  
43 100  
86 0.0 6.5 9.7#  
42 0.0 7.8 11.8#  
44 0.0 5.0 7.6#

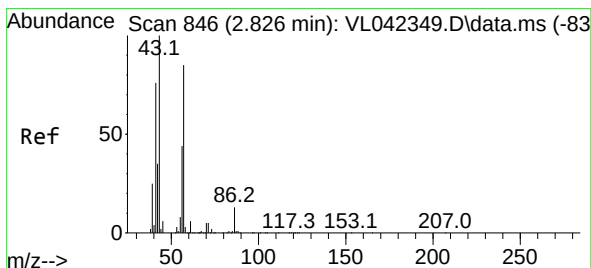
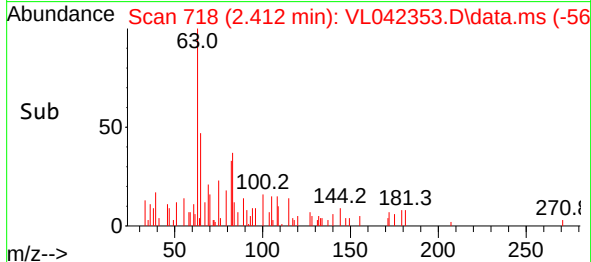
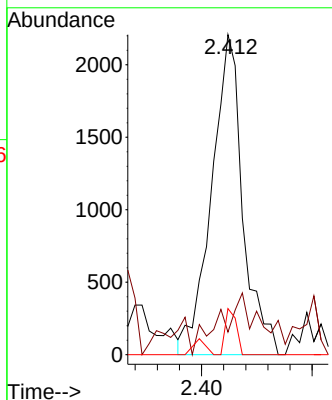
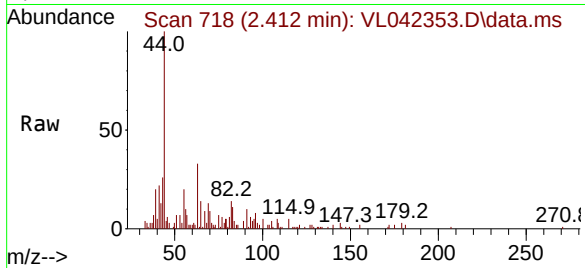




#24  
1,1-Dichloroethane  
Concen: 0.131 ppbv  
RT: 2.412 min Scan# 718  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

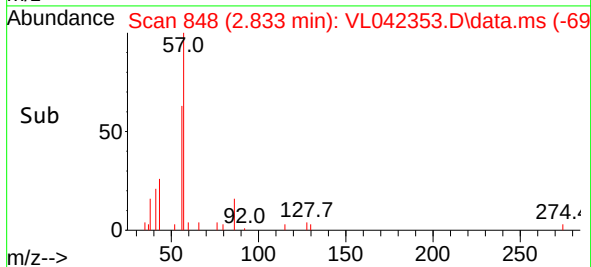
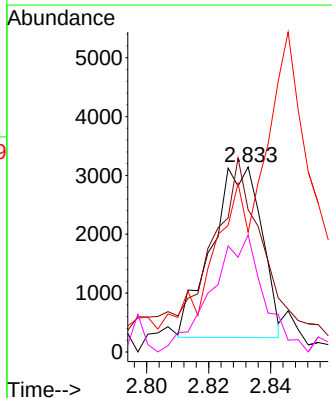
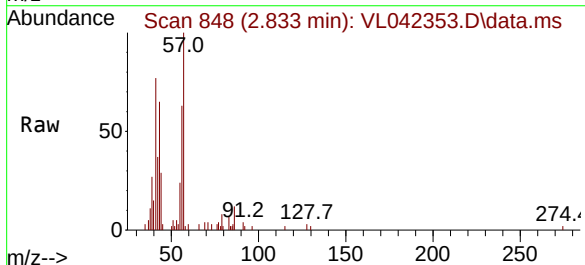
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

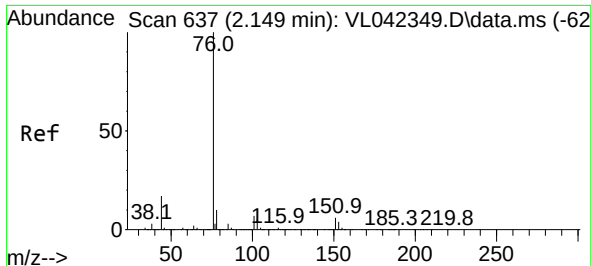
|             |               |
|-------------|---------------|
| Tgt Ion: 63 | Resp: 2169    |
| Ion Ratio   | Lower Upper   |
| 63          | 100           |
| 98          | 0.0 2.3 6.8#  |
| 100         | 14.4 1.6 4.8# |



#26  
Hexane  
Concen: 0.167 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

|             |                   |
|-------------|-------------------|
| Tgt Ion: 57 | Resp: 3260        |
| Ion Ratio   | Lower Upper       |
| 57          | 100               |
| 41          | 134.5 77.9 116.9# |
| 43          | 0.0 208.4 312.6#  |
| 56          | 76.0 43.1 64.7#   |

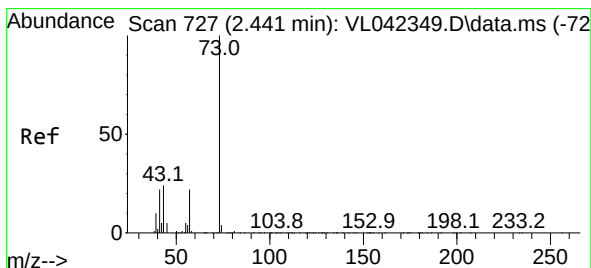
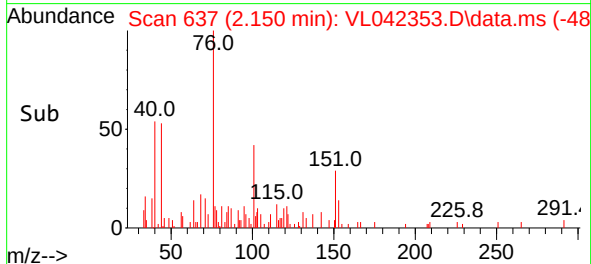
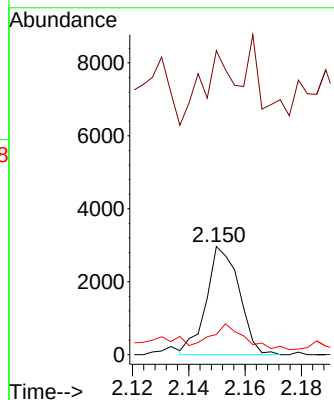
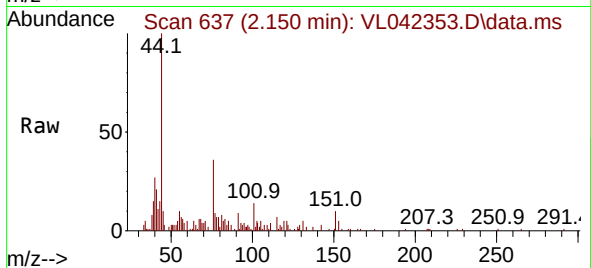




#27  
Carbon Disulfide  
Concen: 0.115 ppbv  
RT: 2.150 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

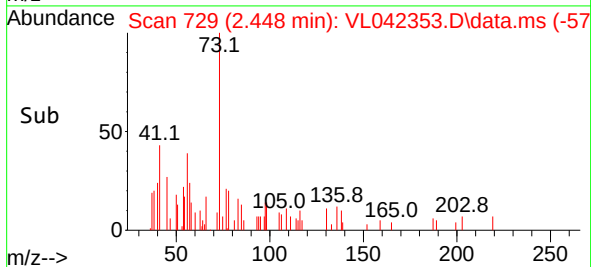
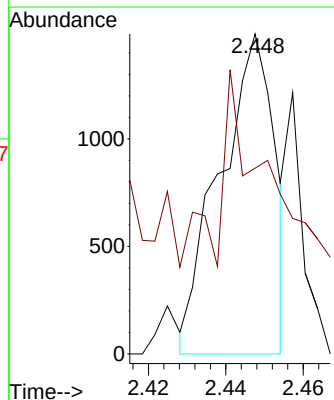
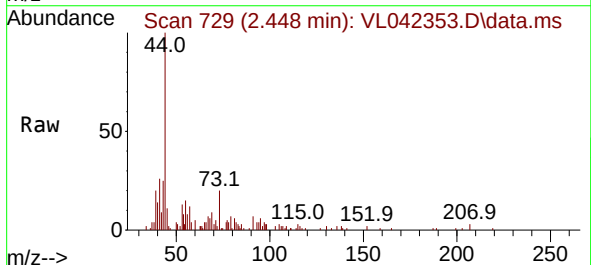
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

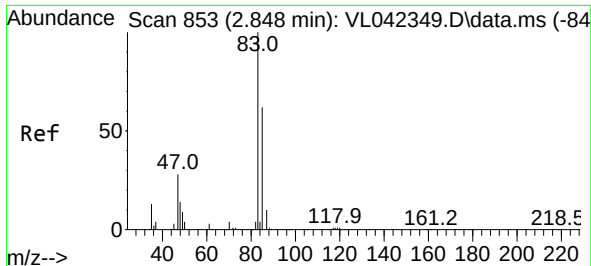
Tgt Ion: 76 Resp: 2396  
Ion Ratio Lower Upper  
76 100  
44 214.1 15.5 23.3#  
78 41.9 9.3 13.9#



#28  
Methyl tert-Butyl Ether  
Concen: 0.114 ppbv  
RT: 2.448 min Scan# 729  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460  
Ion Ratio Lower Upper  
73 100  
57 84.5 21.3 31.9#





#29

Chloroform

Concen: 0.128 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_L

ClientSampleId :

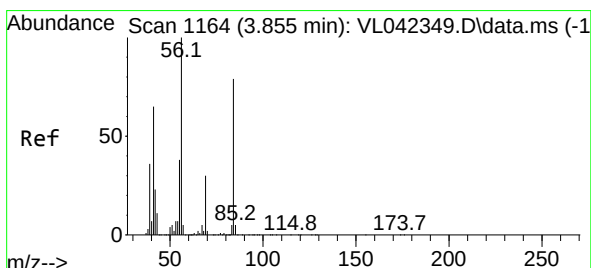
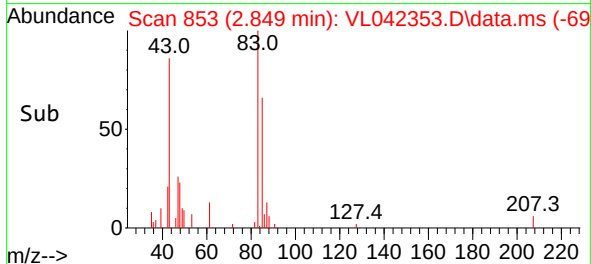
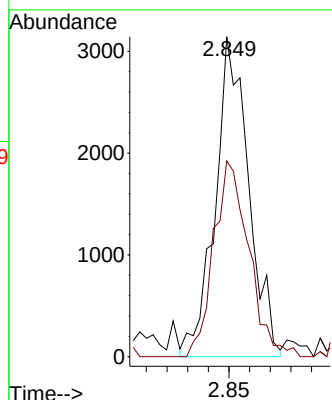
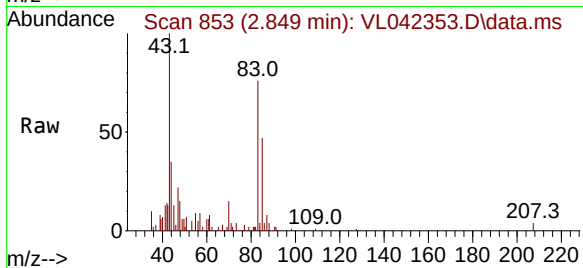
VSTDIC0.1

Tgt Ion: 83 Resp: 3542

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0



#30

Cyclohexane

Concen: 0.066 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

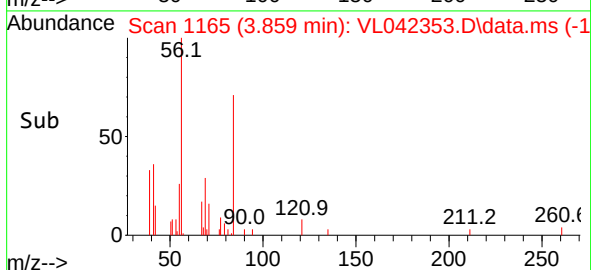
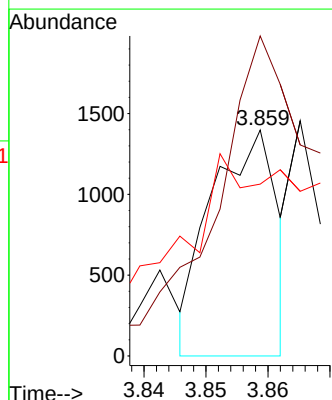
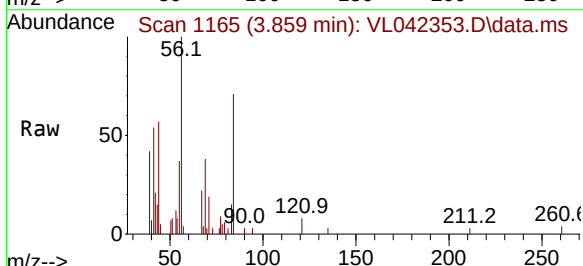
Tgt Ion: 84 Resp: 1037

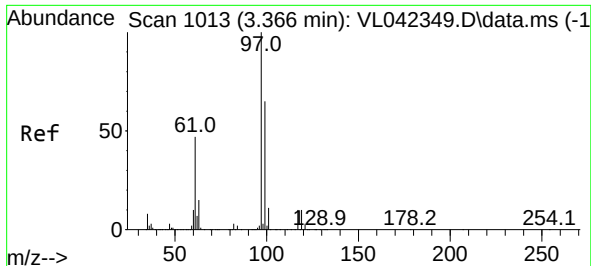
Ion Ratio Lower Upper

84 100

56 278.1 101.0 151.4#

41 346.5 67.4 101.0#

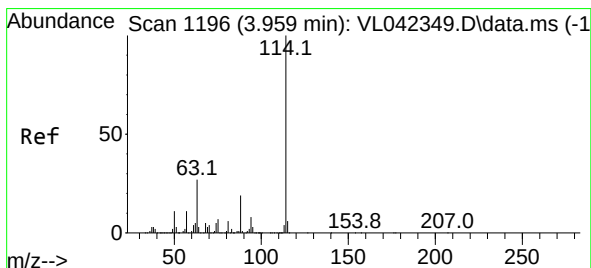
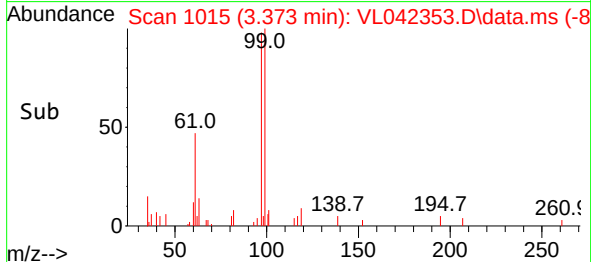
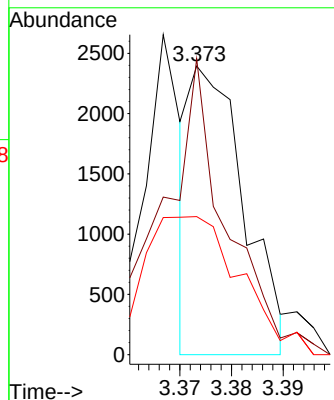
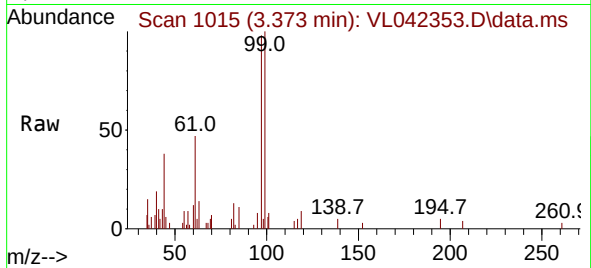




#32  
 1,1,1-Trichloroethane  
 Concen: 0.059 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.007 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

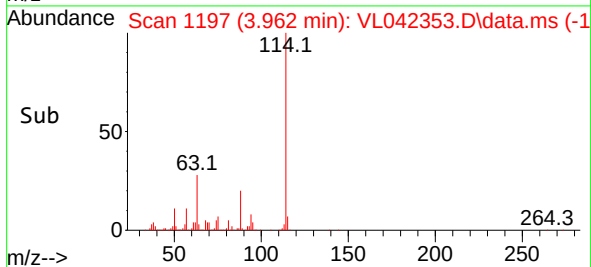
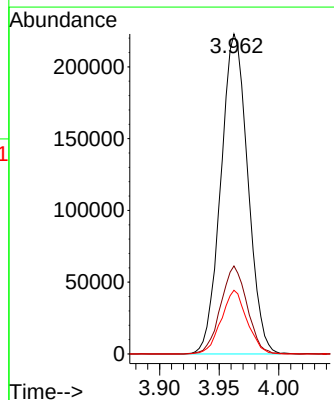
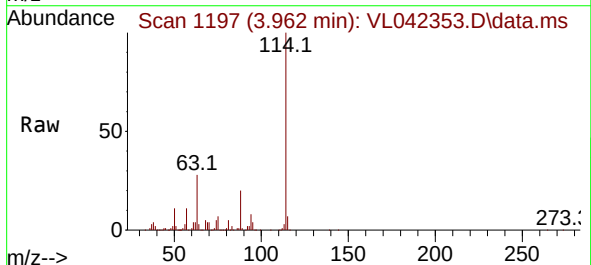
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

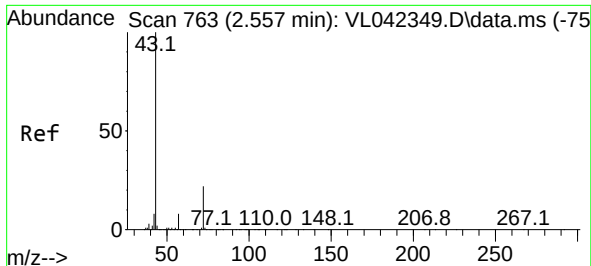
Tgt Ion: 97 Resp: 1734  
 Ion Ratio Lower Upper  
 97 100  
 99 133.4 51.0 76.4#  
 61 93.7 38.8 58.2#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.962 min Scan# 1197  
 Delta R.T. 0.004 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

Tgt Ion: 114 Resp: 350484  
 Ion Ratio Lower Upper  
 114 100  
 63 26.9 21.8 32.6  
 88 19.1 15.5 23.3

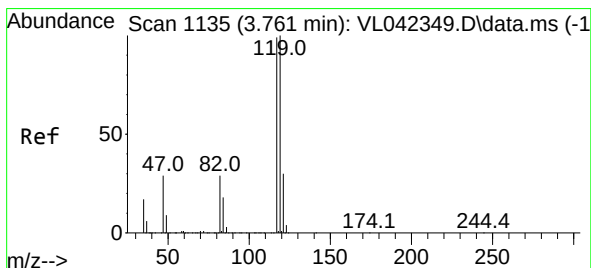
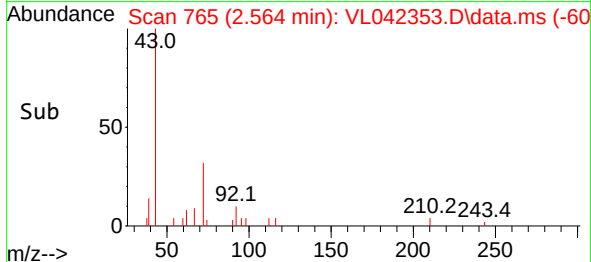
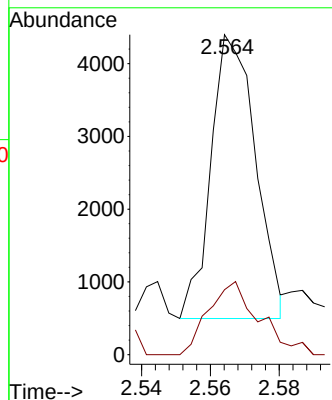
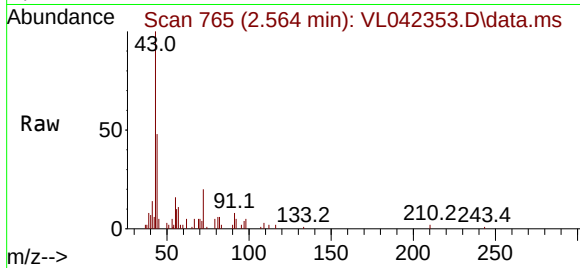




#34  
2-Butanone  
Concen: 0.126 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

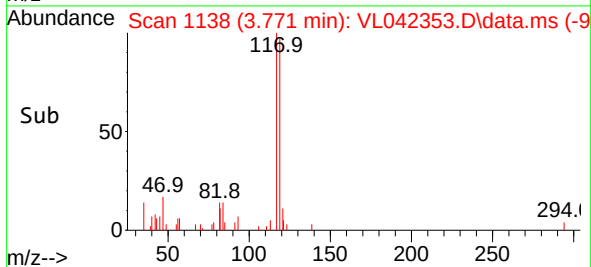
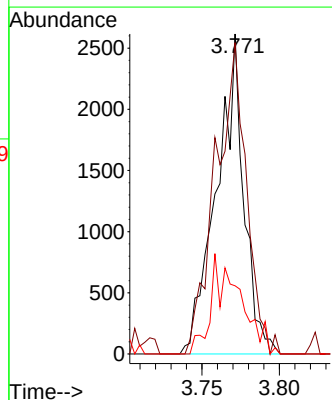
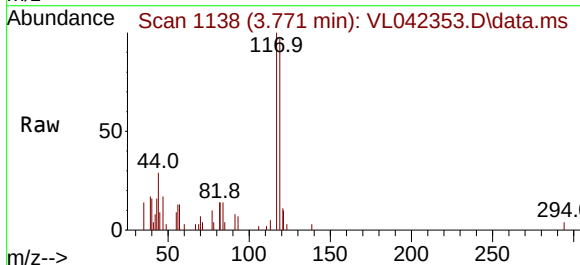
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

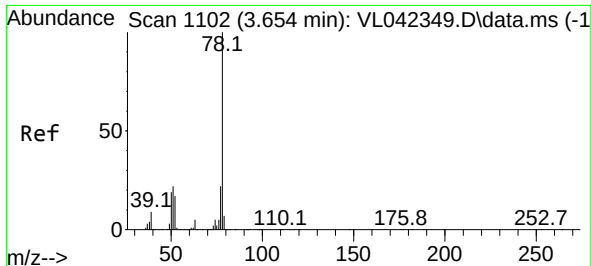
Tgt Ion: 43 Resp: 3506  
Ion Ratio Lower Upper  
43 100  
72 32.7 18.2 27.2#



#35  
Carbon Tetrachloride  
Concen: 0.101 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.010 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 117 Resp: 3204  
Ion Ratio Lower Upper  
117 100  
119 97.3 80.5 120.7  
121 21.3 24.2 36.2#

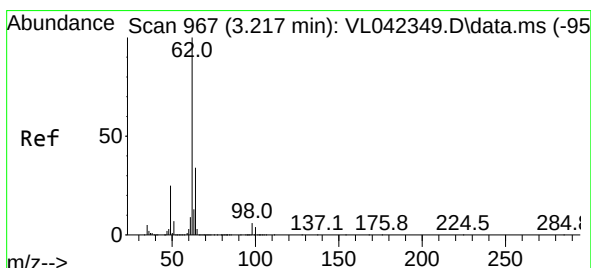
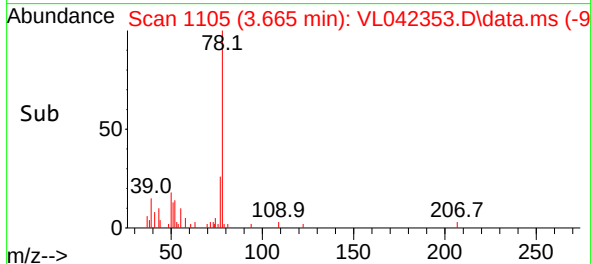
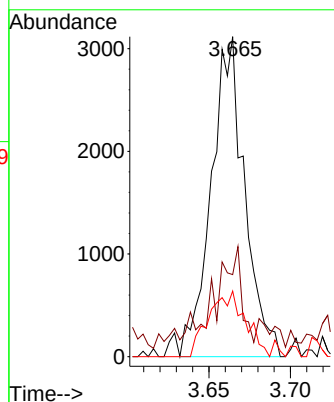
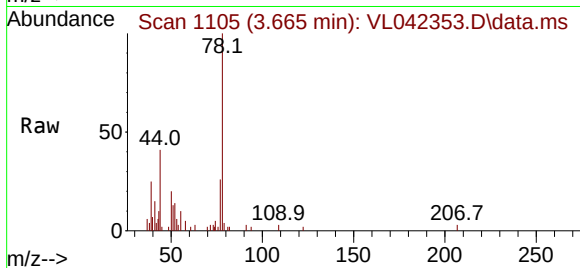




#36  
Benzene  
Concen: 0.117 ppbv  
RT: 3.665 min Scan# 1105  
Delta R.T. 0.010 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

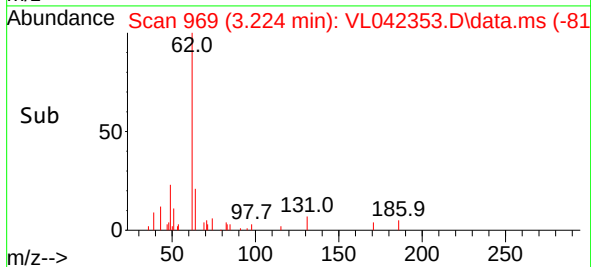
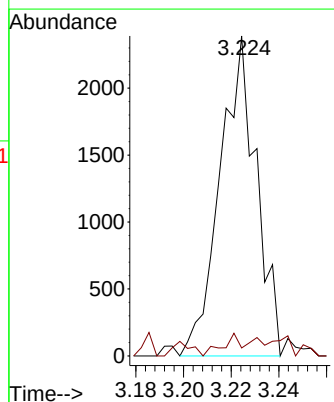
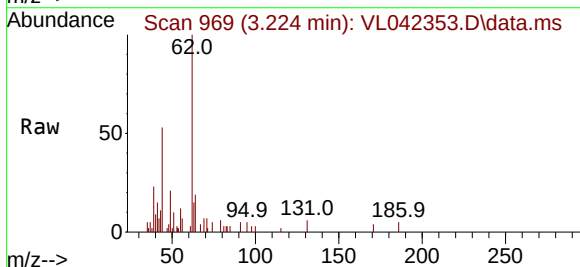
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

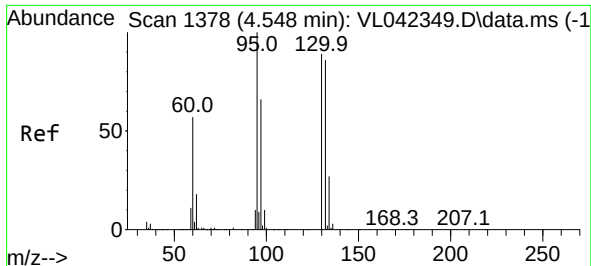
Tgt Ion: 78 Resp: 4424  
Ion Ratio Lower Upper  
78 100  
77 20.4 17.4 26.0  
50 20.5 15.5 23.3



#37  
1,2-Dichloroethane  
Concen: 0.111 ppbv  
RT: 3.224 min Scan# 969  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 2523  
Ion Ratio Lower Upper  
62 100  
98 0.0 5.1 7.7#

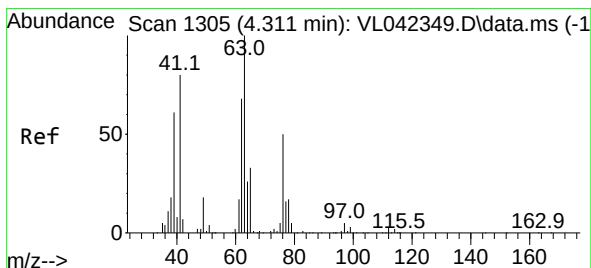
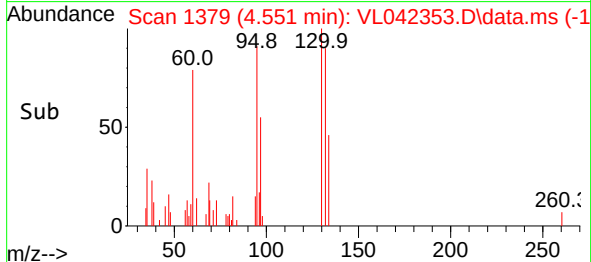
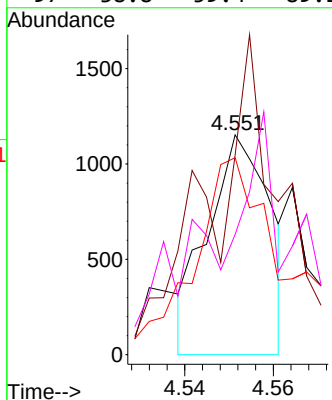
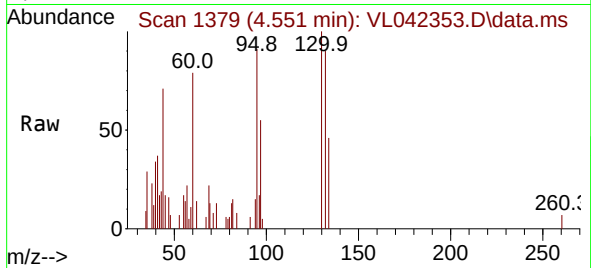




#38  
 Trichloroethene  
 Concen: 0.067 ppbv  
 RT: 4.551 min Scan# 11  
 Delta R.T. 0.004 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

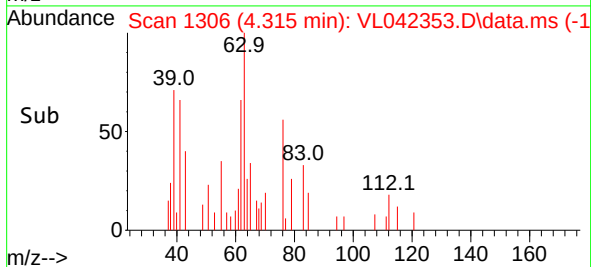
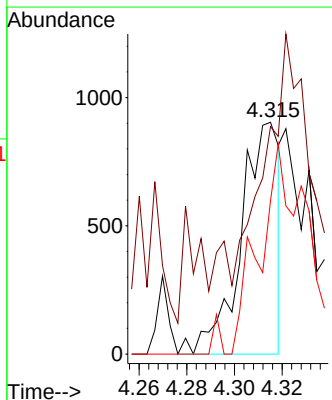
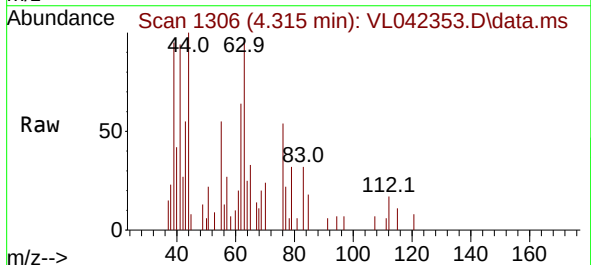
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

Tgt Ion:130 Resp: 1113  
 Ion Ratio Lower Upper  
 130 100  
 95 60.4 89.8 134.6#  
 132 78.4 77.7 116.5  
 97 38.8 59.4 89.2#

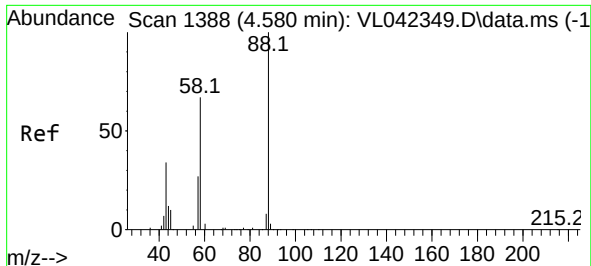


#39  
 1,2-Dichloropropane  
 Concen: 0.071 ppbv  
 RT: 4.315 min Scan# 1306  
 Delta R.T. 0.004 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

Tgt Ion: 63 Resp: 1007  
 Ion Ratio Lower Upper  
 63 100  
 41 84.8 64.2 96.2  
 62 66.2 54.3 81.5



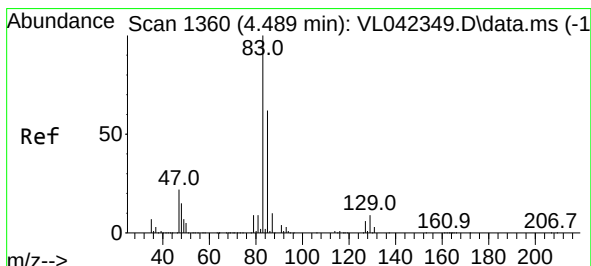
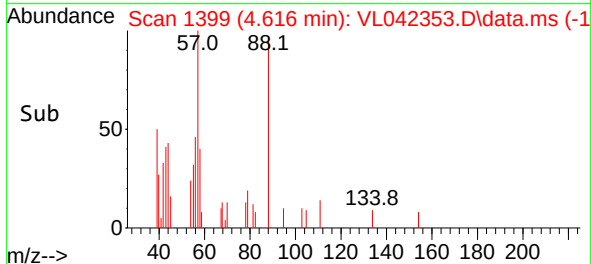
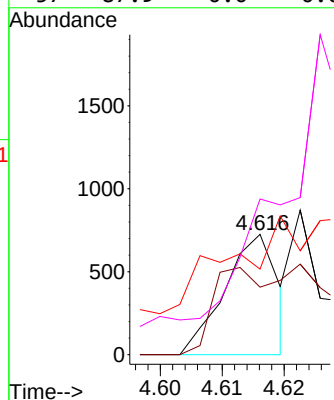
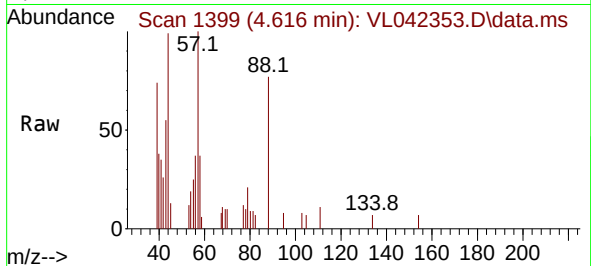




#40  
1,4-Dioxane  
Concen: 0.056 ppbv  
RT: 4.616 min Scan# 1399  
Delta R.T. 0.036 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

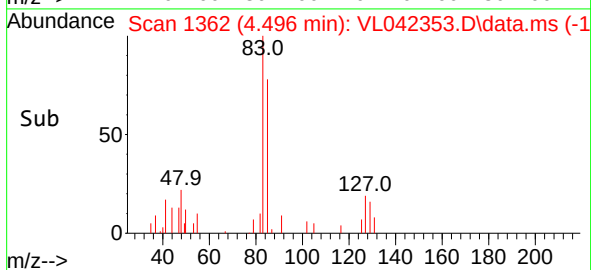
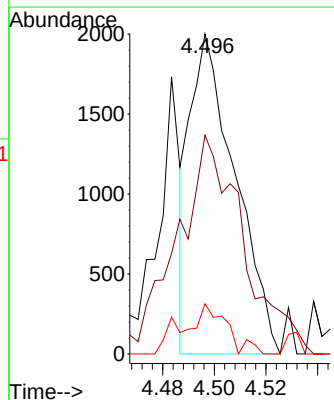
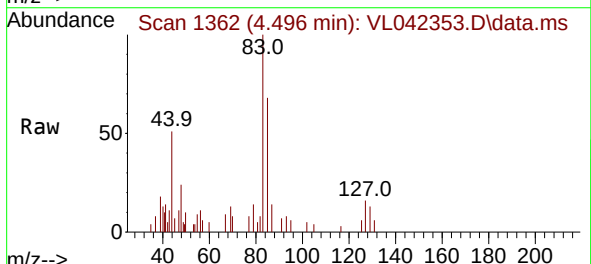
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

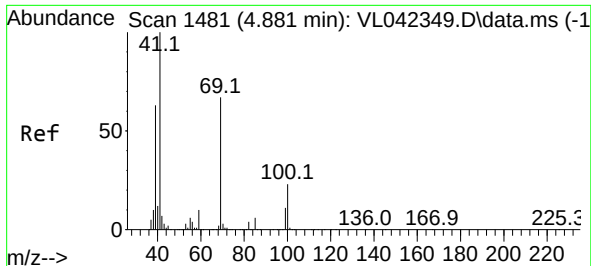
Tgt Ion: 88 Resp: 431  
Ion Ratio Lower Upper  
88 100  
58 18.1 61.4 92.0#  
43 247.6 23.2 34.8#  
57 87.9 0.0 0.0#



#42  
Bromodichloromethane  
Concen: 0.077 ppbv  
RT: 4.496 min Scan# 1362  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 83 Resp: 2443  
Ion Ratio Lower Upper  
83 100  
85 55.0 49.7 74.5  
127 15.7 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.099 ppbv

RT: 4.894 min Scan# 1485

Delta R.T. 0.013 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

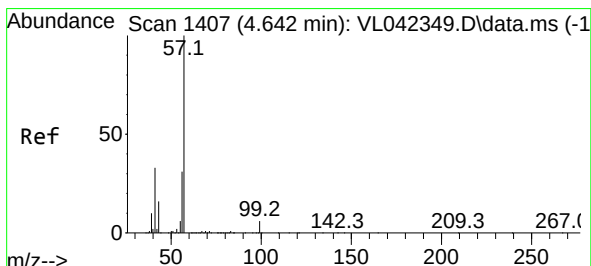
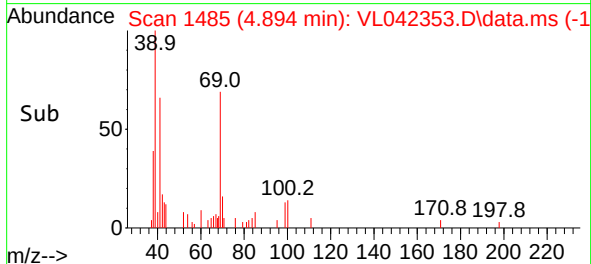
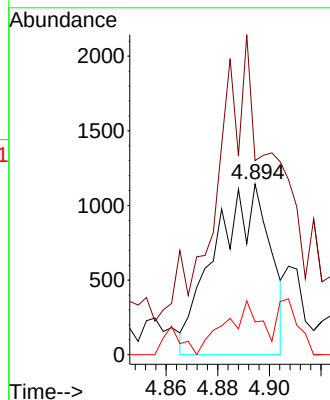
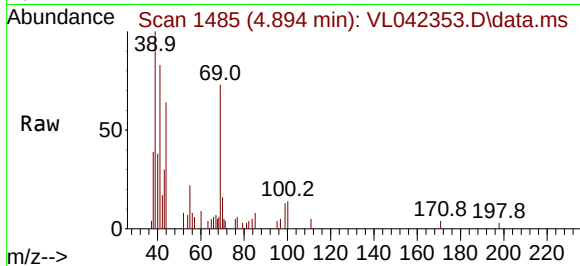
Tgt Ion: 69 Resp: 1683

Ion Ratio Lower Upper

69 100

41 192.5 118.6 177.8#

100 0.0 28.2 42.2#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.007 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

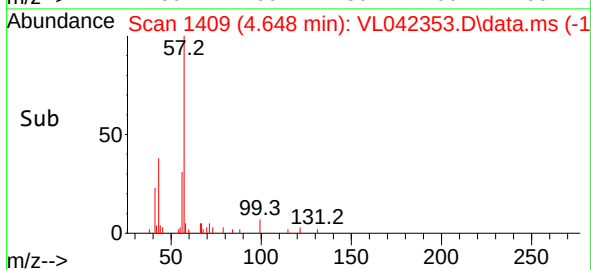
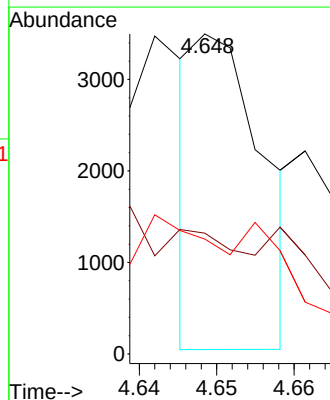
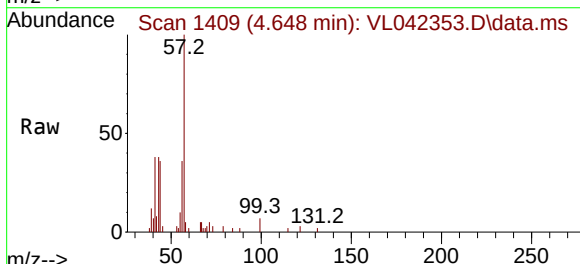
Tgt Ion: 57 Resp: 2115

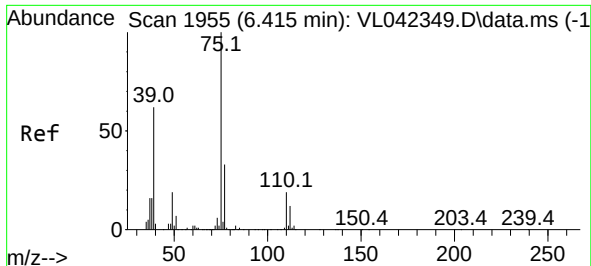
Ion Ratio Lower Upper

57 100

41 0.0 27.2 40.8#

56 0.0 25.7 38.5#

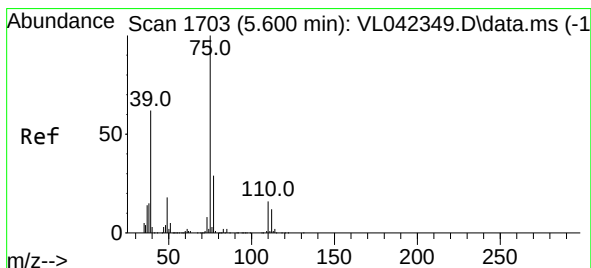
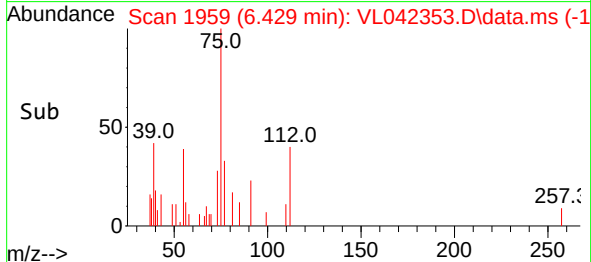
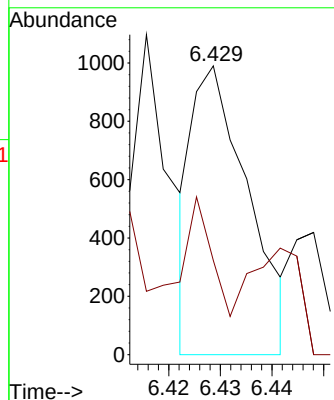
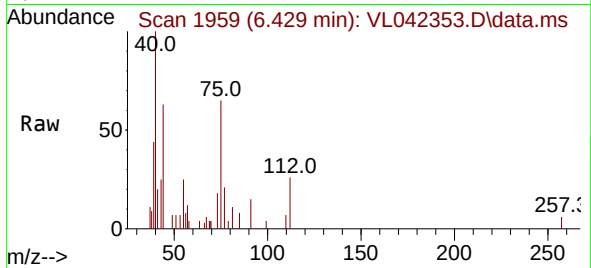




#45  
 t-1,3-Dichloropropene  
 Concen: 0.043 ppbv  
 RT: 6.429 min Scan# 1959  
 Delta R.T. 0.013 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

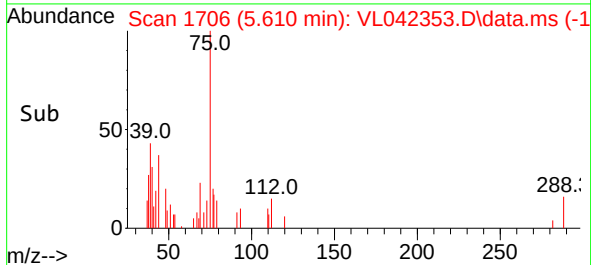
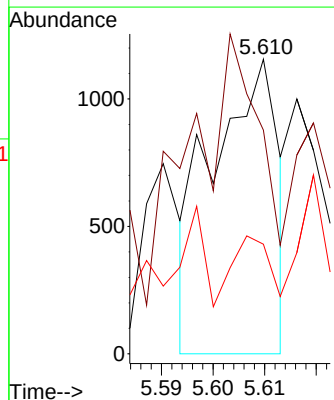
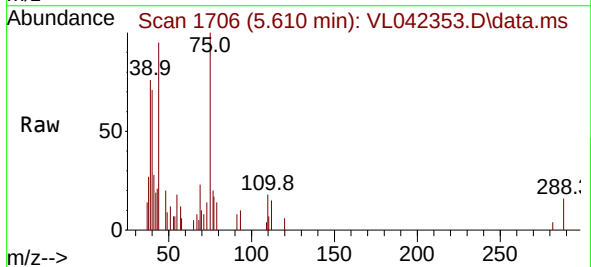
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

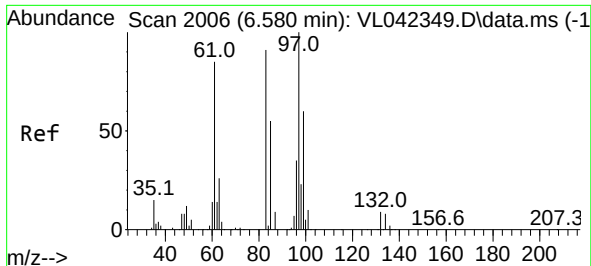
Tgt Ion: 75 Resp: 748  
 Ion Ratio Lower Upper  
 75 100  
 77 32.6 27.0 40.6



#46  
 cis-1,3-Dichloropropene  
 Concen: 0.048 ppbv  
 RT: 5.610 min Scan# 1706  
 Delta R.T. 0.010 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

Tgt Ion: 75 Resp: 1032  
 Ion Ratio Lower Upper  
 75 100  
 39 71.3 50.0 75.0  
 77 32.3 23.0 34.6

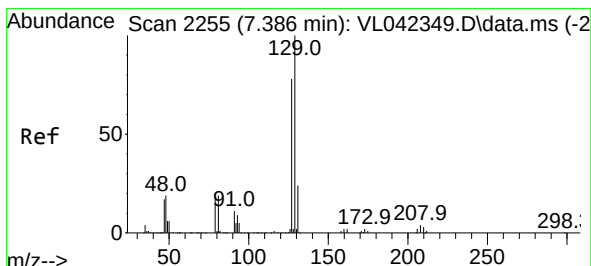
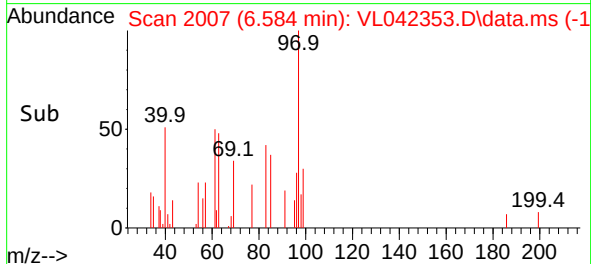
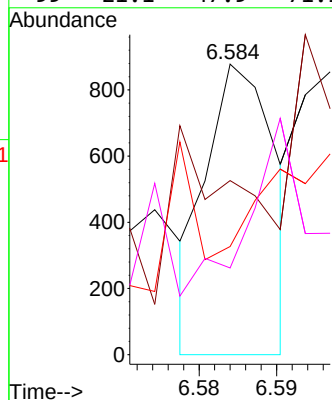
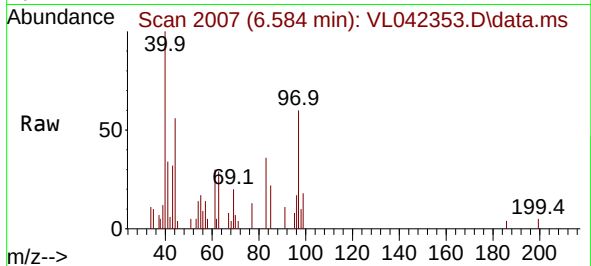




#47  
1,1,2-Trichloroethane  
Concen: 0.038 ppbv  
RT: 6.584 min Scan# 2006  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

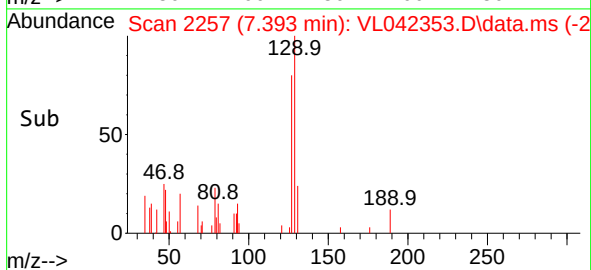
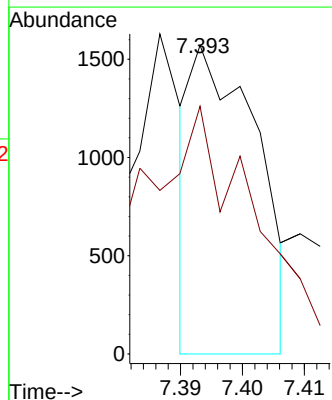
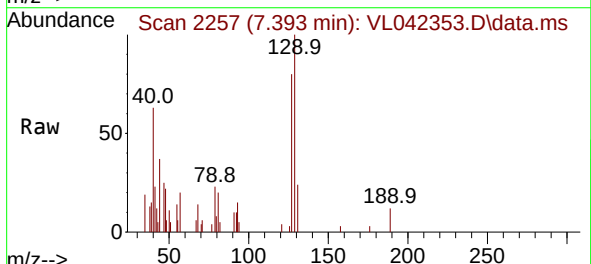
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

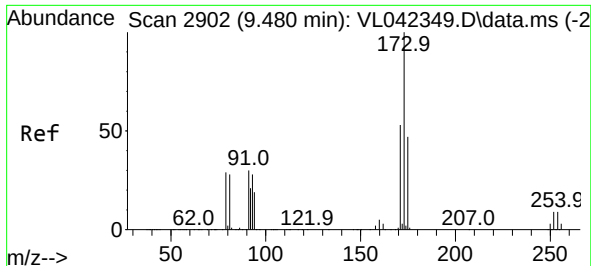
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 540    |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 36.8  | 72.8  | 109.2# |
| 85       | 0.0   | 44.2  | 66.4#  |
| 99       | 21.1  | 47.9  | 71.9#  |



#48  
Dibromochloromethane  
Concen: 0.045 ppbv  
RT: 7.393 min Scan# 2257  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 1149   |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 167.2 | 39.1  | 117.3# |

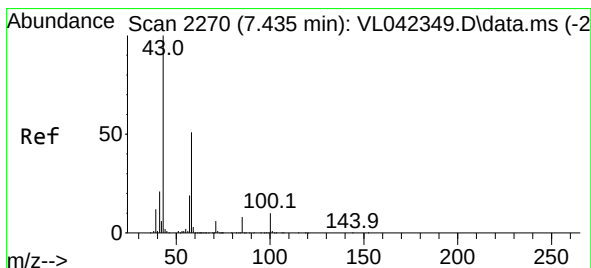
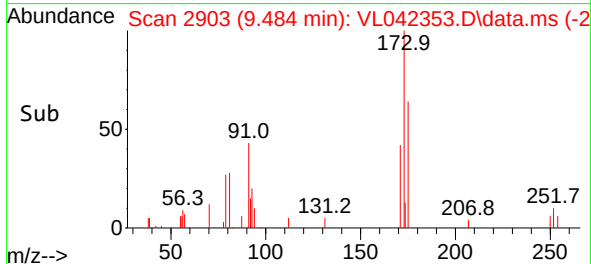
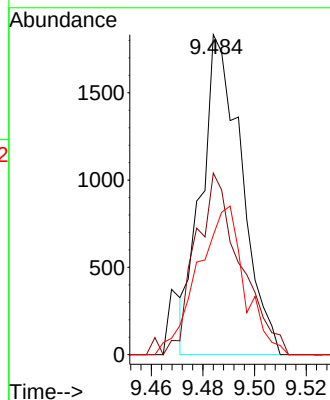
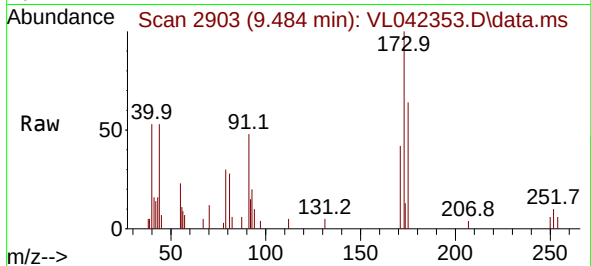




#49  
Bromoform  
Concen: 0.089 ppbv  
RT: 9.484 min Scan# 2903  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

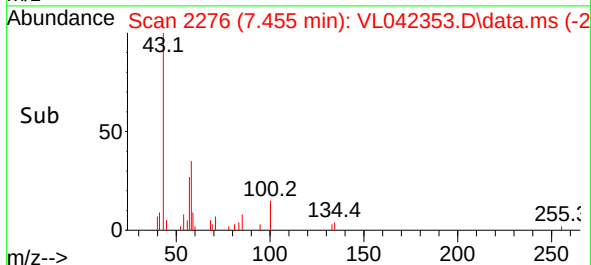
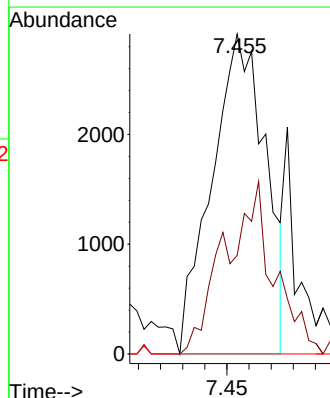
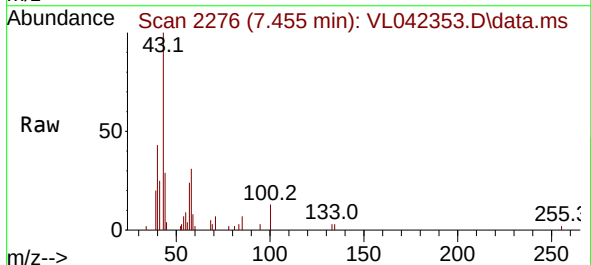
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

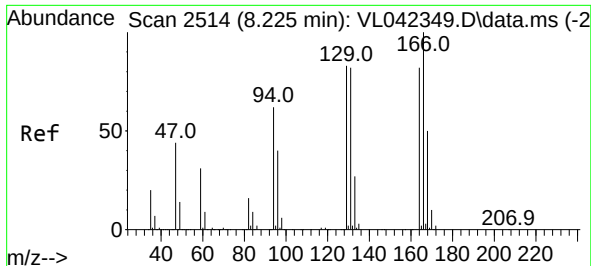
Tgt Ion:173 Resp: 1973  
Ion Ratio Lower Upper  
173 100  
175 64.7 38.2 57.2#  
171 54.2 40.9 61.3



#51  
2-Hexanone  
Concen: 0.118 ppbv  
RT: 7.455 min Scan# 2276  
Delta R.T. 0.020 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4915  
Ion Ratio Lower Upper  
43 100  
58 49.9 40.2 60.4  
98 0.0 0.1 0.1#

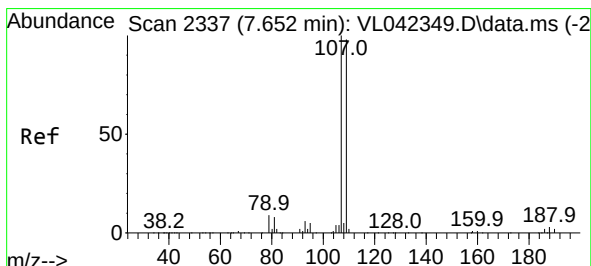
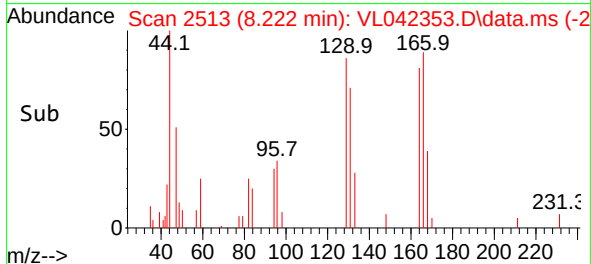
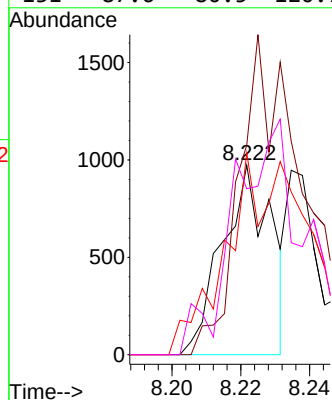
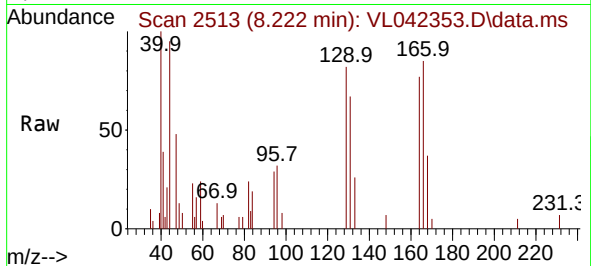




#52  
Tetrachloroethene  
Concen: 0.065 ppbv  
RT: 8.222 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

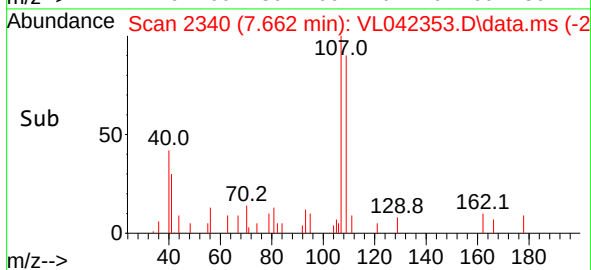
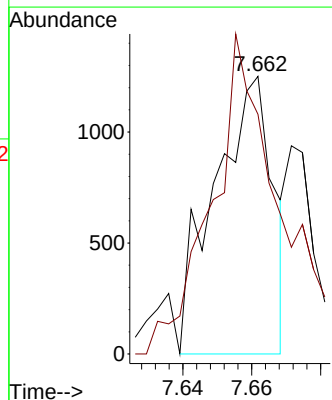
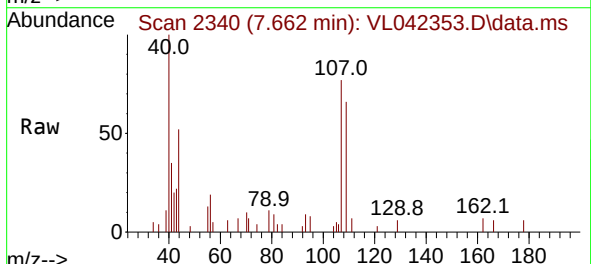
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

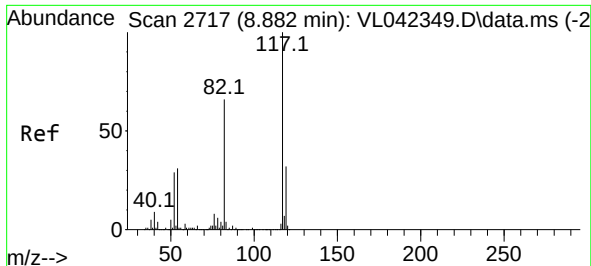
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 957   |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 166 | 110.6   | 98.2  | 147.2 |
| 129 | 88.3    | 81.8  | 122.8 |
| 131 | 87.6    | 80.5  | 120.7 |



#54  
1,2-Dibromoethane  
Concen: 0.072 ppbv  
RT: 7.662 min Scan# 2340  
Delta R.T. 0.010 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:107 | Resp: | 1470  |        |
| Ion         | Ratio | Lower | Upper  |
| 107         | 100   |       |        |
| 109         | 72.7  | 78.2  | 117.4# |

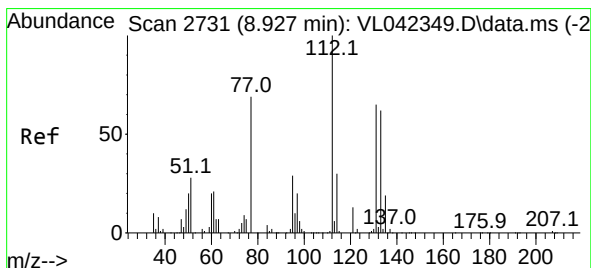
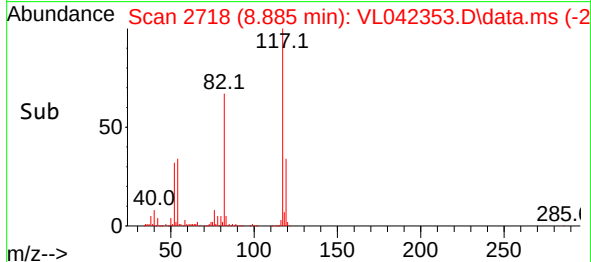
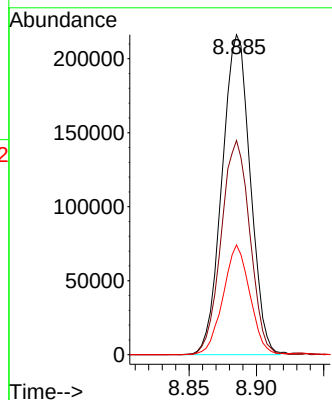
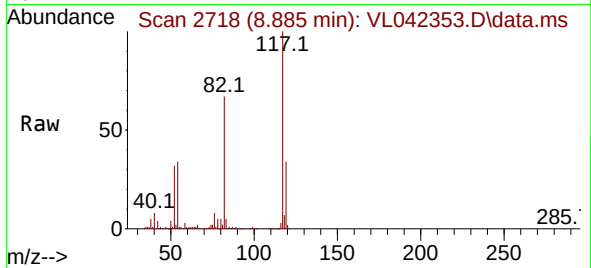




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2717  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

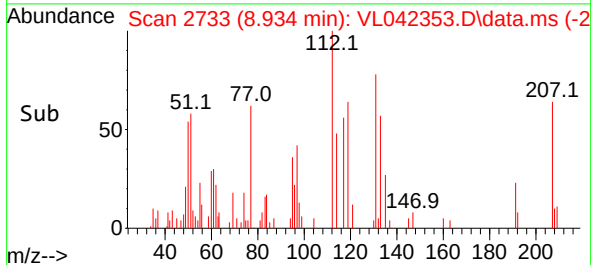
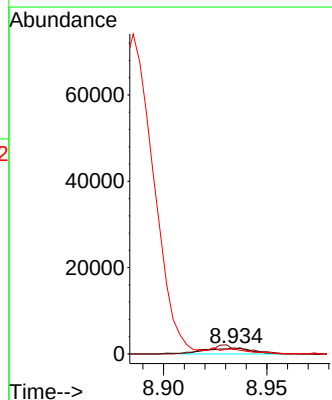
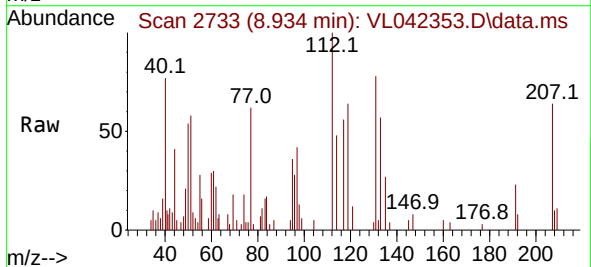
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

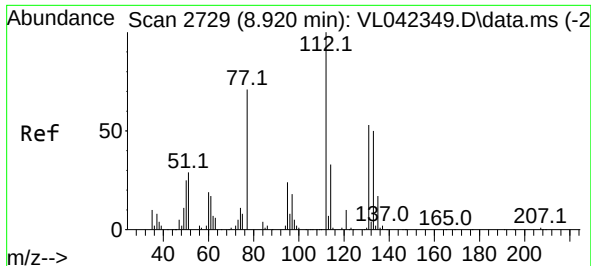
Tgt Ion:117 Resp: 315004  
Ion Ratio Lower Upper  
117 100  
82 68.1 57.8 86.6  
119 33.0 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.107 ppbv  
RT: 8.934 min Scan# 2733  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:131 Resp: 2031  
Ion Ratio Lower Upper  
131 100  
133 134.2 78.3 117.5#  
119 0.0 48.7 73.1#

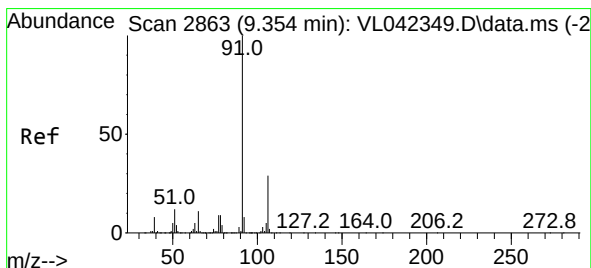
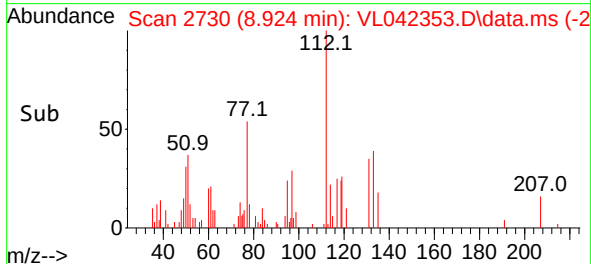
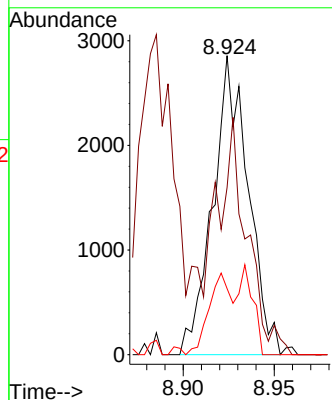
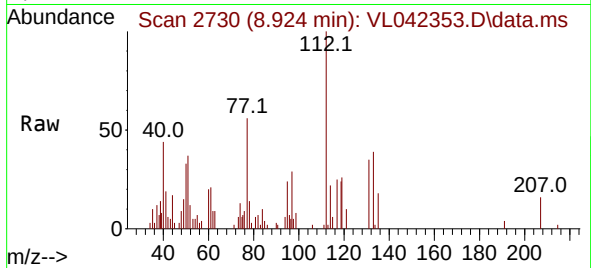




#57  
Chlorobenzene  
Concen: 0.117 ppbv  
RT: 8.924 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

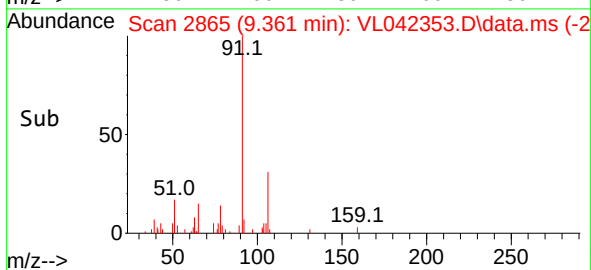
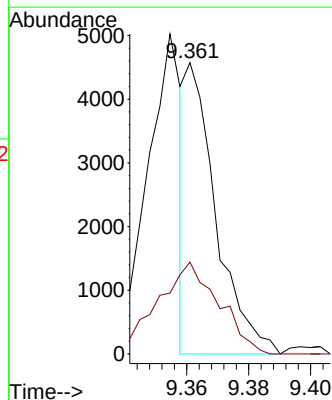
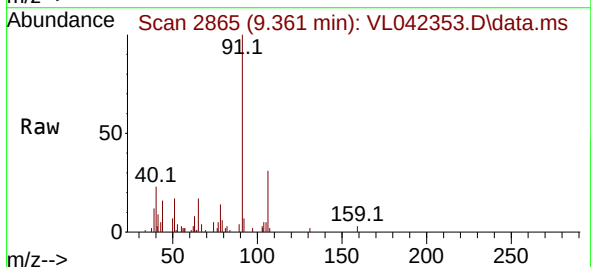
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

Tgt Ion: 112 Resp: 3842  
Ion Ratio Lower Upper  
112 100  
77 50.6 57.8 86.6#  
114 22.1 29.3 35.9#

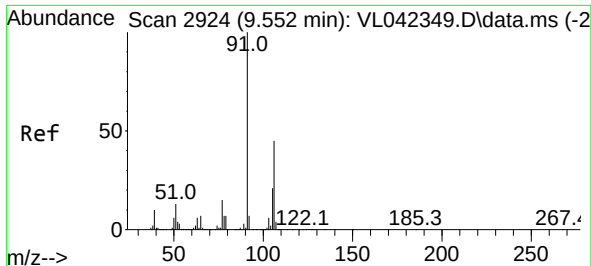


#58  
Ethyl Benzene  
Concen: 0.050 ppbv  
RT: 9.361 min Scan# 2865  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 3105  
Ion Ratio Lower Upper  
91 100  
106 31.5 23.0 34.4







#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_1

ClientSampleId :

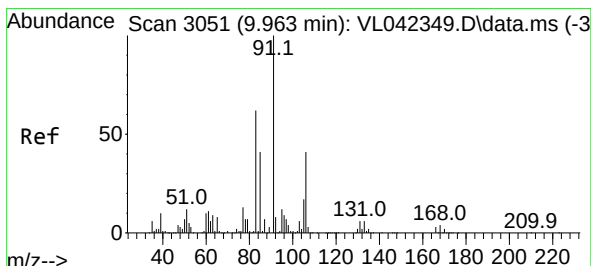
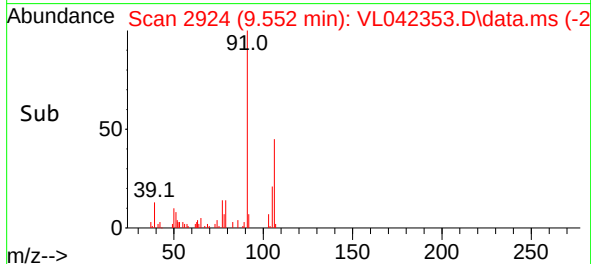
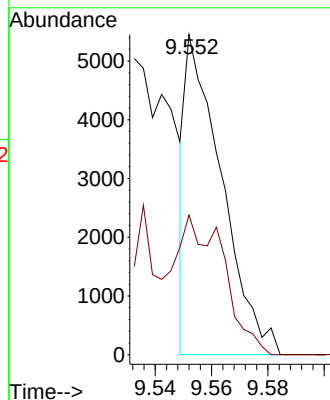
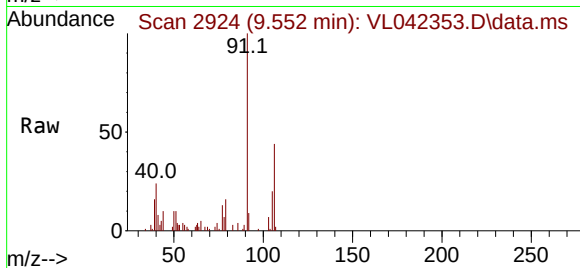
VSTDIC0.1

Tgt Ion: 91 Resp: 4844

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.106 ppbv

RT: 9.970 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VL042353.D

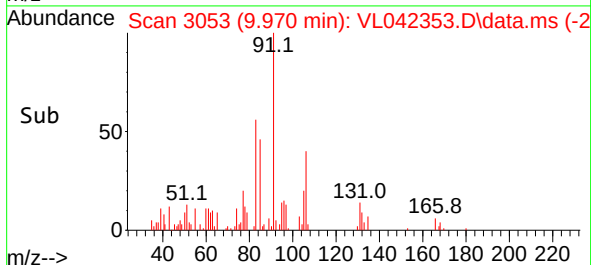
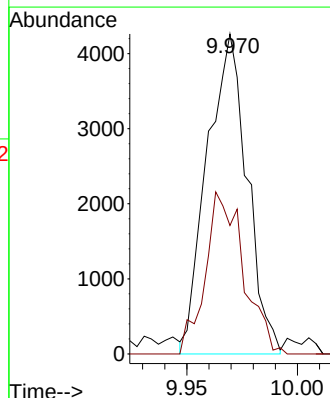
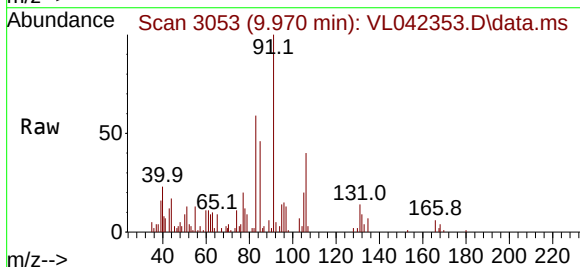
Acq: 17 Apr 2025 11:50

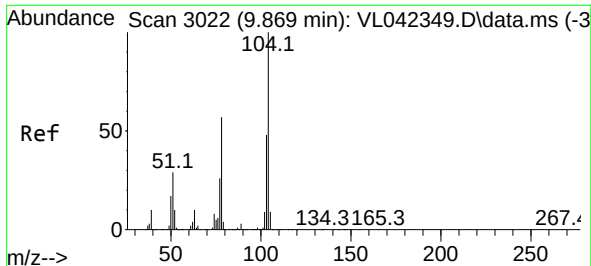
Tgt Ion: 91 Resp: 5359

Ion Ratio Lower Upper

91 100

106 48.3 21.1 63.4

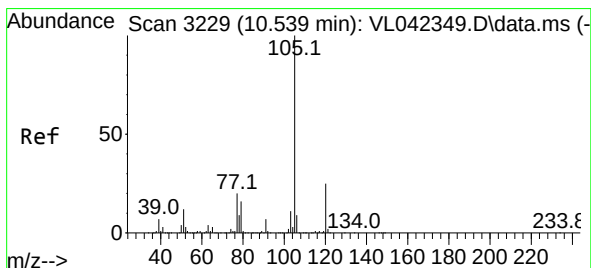
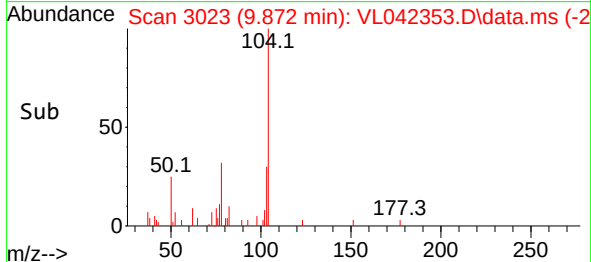
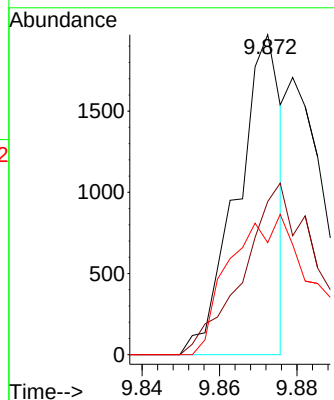
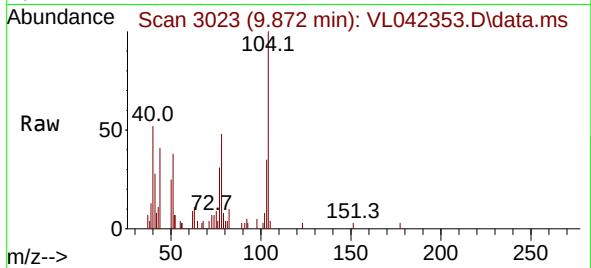




#61  
Styrene  
Concen: 0.064 ppbv  
RT: 9.872 min Scan# 3023  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

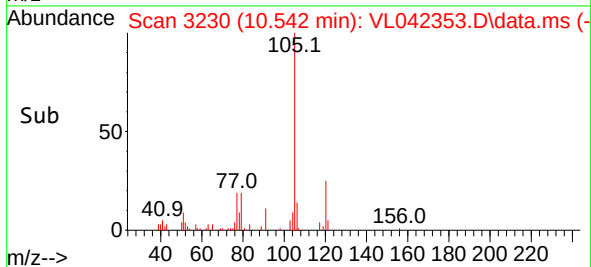
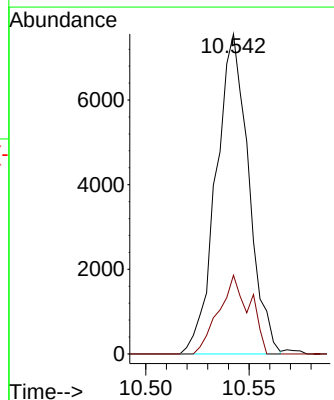
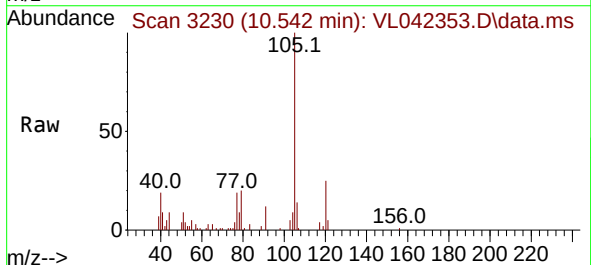
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

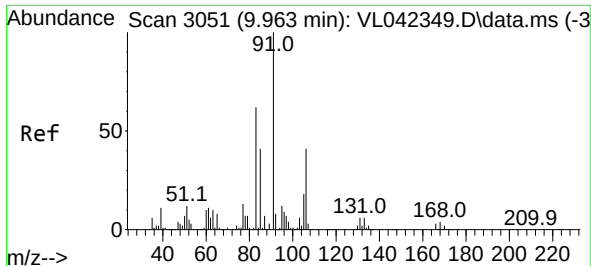
Tgt Ion:104 Resp: 1549  
Ion Ratio Lower Upper  
104 100  
78 0.0 44.6 66.8#  
103 0.0 37.4 56.0#



#62  
Isopropylbenzene  
Concen: 0.111 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8285  
Ion Ratio Lower Upper  
105 100  
120 23.5 19.8 29.8

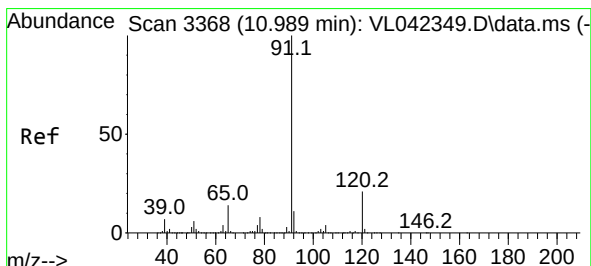
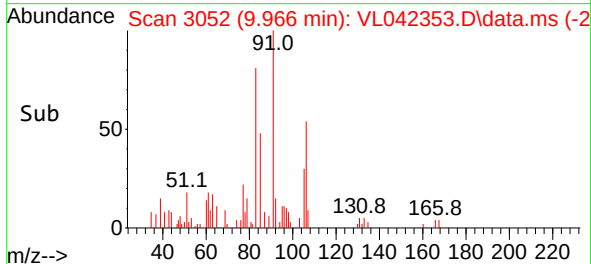
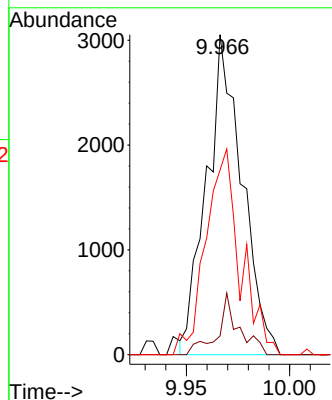
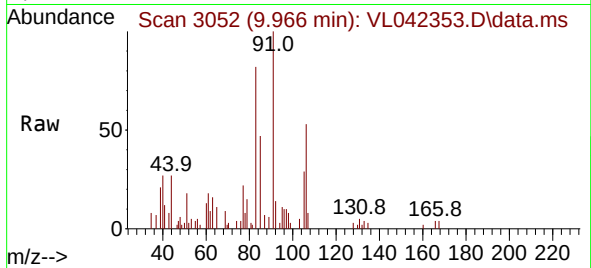




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.111 ppbv  
RT: 9.966 min Scan# 3051  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

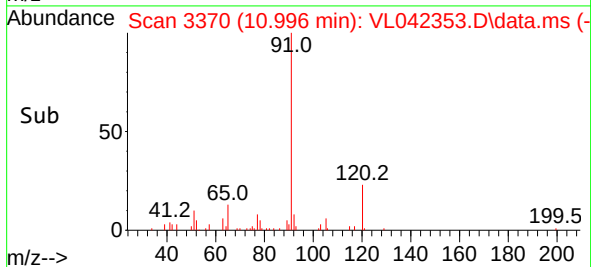
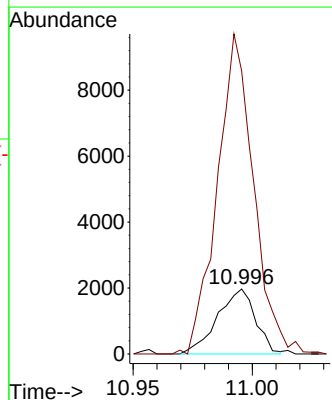
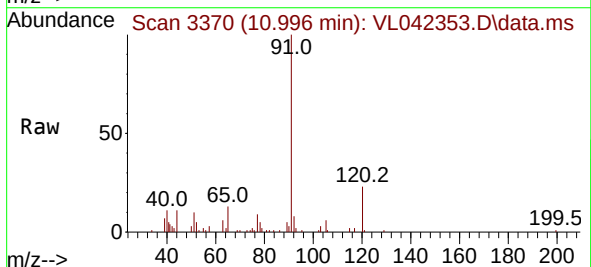
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

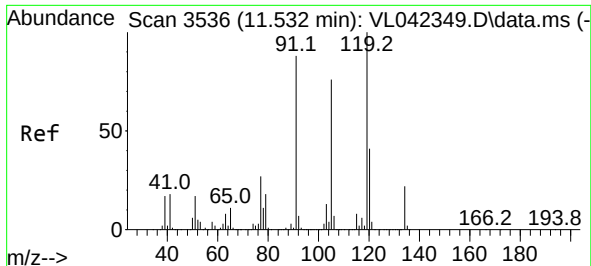
Tgt Ion: 83 Resp: 3646  
Ion Ratio Lower Upper  
83 100  
131 11.4 4.5 13.7  
85 62.7 32.4 97.0



#64  
n-propylbenzene  
Concen: 0.117 ppbv  
RT: 10.996 min Scan# 3370  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 120 Resp: 2186  
Ion Ratio Lower Upper  
120 100  
91 471.4 392.4 588.6

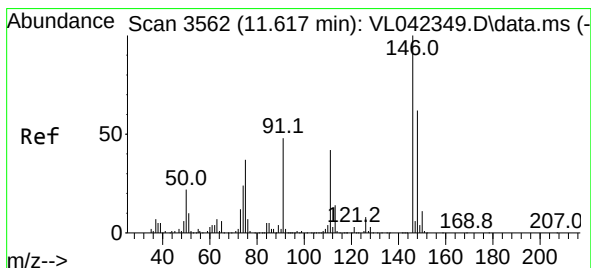
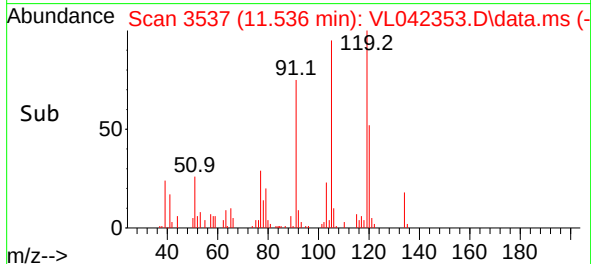
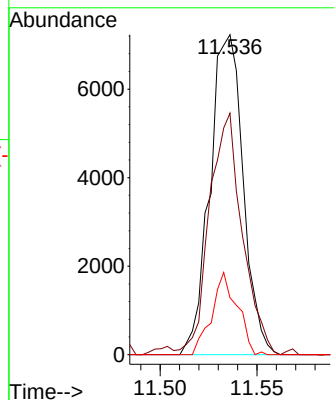
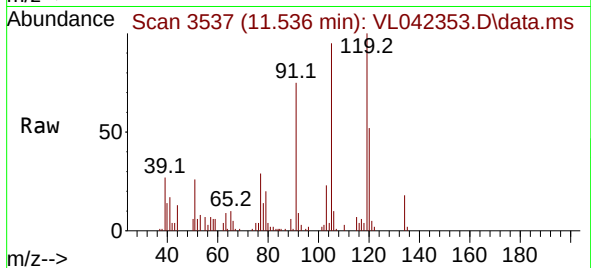




#65  
tert-Butylbenzene  
Concen: 0.127 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

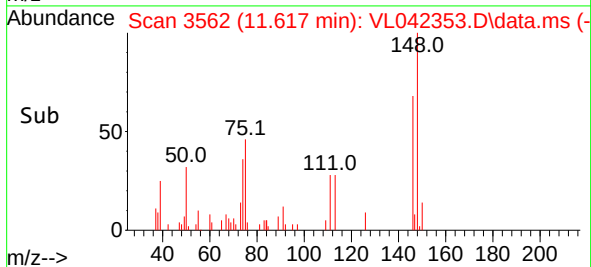
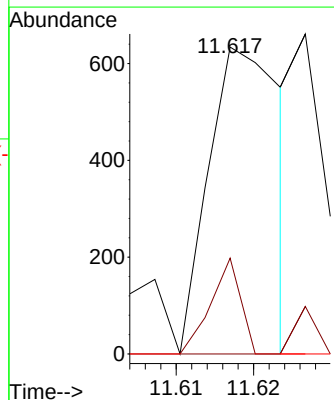
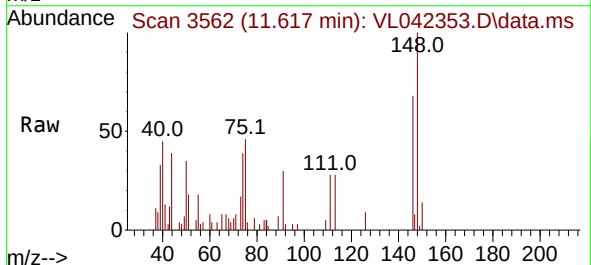
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

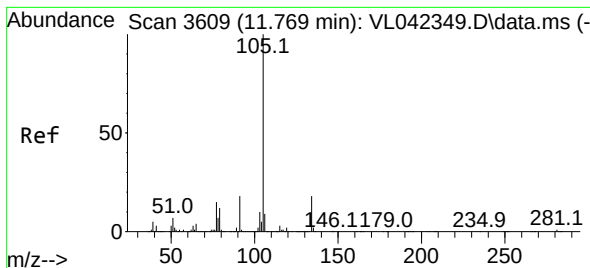
Tgt Ion:119 Resp: 8656  
Ion Ratio Lower Upper  
119 100  
91 77.2 74.6 111.8  
134 19.6 18.8 28.2



#66  
Benzyl Chloride  
Concen: 0.055 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 414  
Ion Ratio Lower Upper  
91 100  
126 23.2 11.8 17.6#  
128 0.0 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.117 ppbv

RT: 11.769 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_1

ClientSampleId :

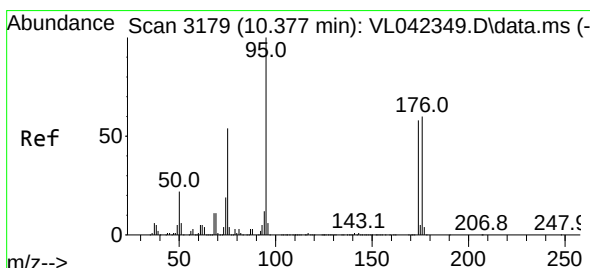
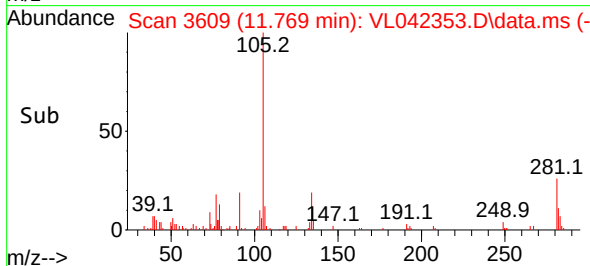
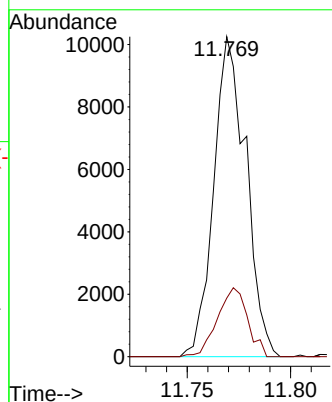
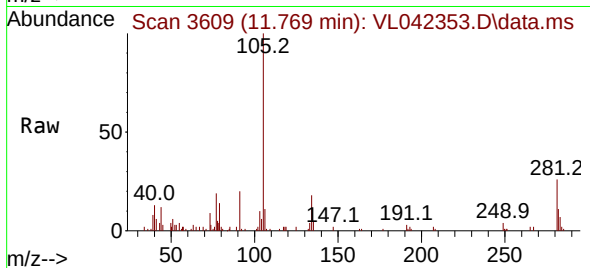
VSTDIC0.1

Tgt Ion:105 Resp: 11126

Ion Ratio Lower Upper

105 100

134 20.2 14.6 21.8



#68

1-Bromo-4-Fluorobenzene

Concen: 9.906 ppbv

RT: 10.381 min Scan# 3180

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

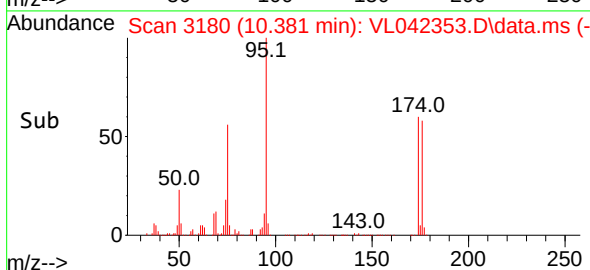
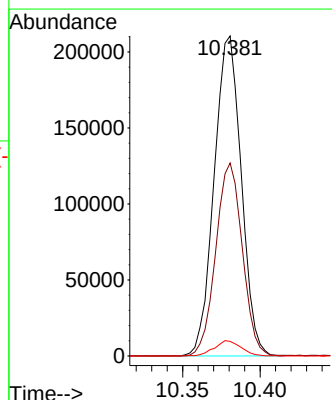
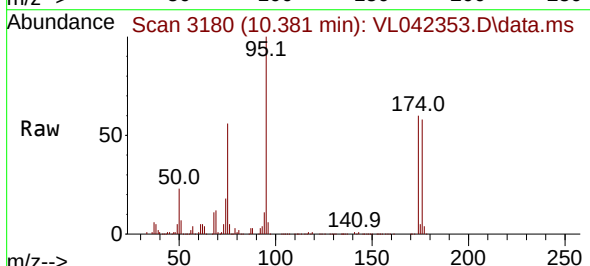
Tgt Ion: 95 Resp: 256417

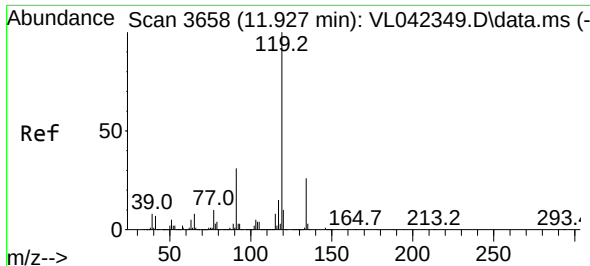
Ion Ratio Lower Upper

95 100

174 59.3 48.5 72.7

175 4.7 3.7 5.5

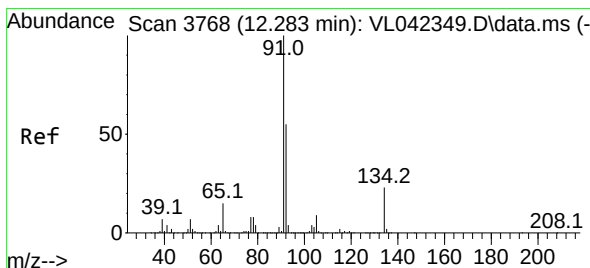
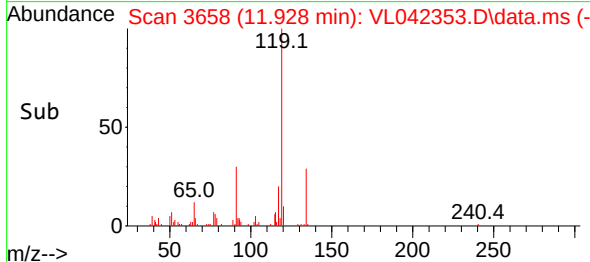
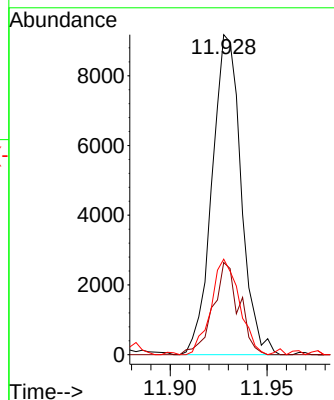
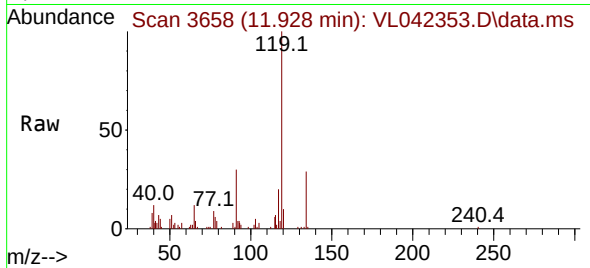




#69  
p-Isopropyltoluene  
Concen: 0.115 ppbv  
RT: 11.928 min Scan# 3658  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

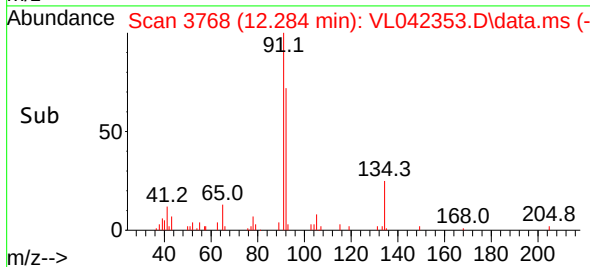
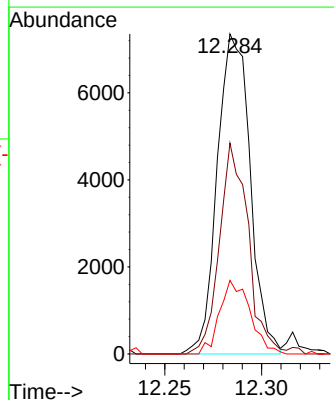
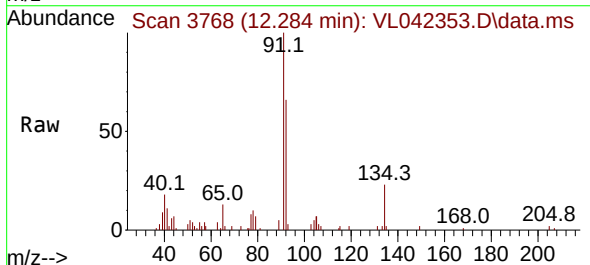
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

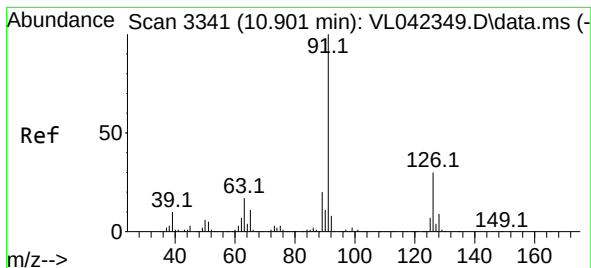
Tgt Ion:119 Resp: 9534  
Ion Ratio Lower Upper  
119 100  
134 26.0 20.0 30.0  
91 31.6 24.4 36.6



#70  
n-Butylbenzene  
Concen: 0.101 ppbv  
RT: 12.284 min Scan# 3768  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 8684  
Ion Ratio Lower Upper  
91 100  
92 58.0 44.2 66.4  
134 21.3 18.2 27.4





#71

2-Chlorotoluene

Concen: 0.115 ppbv

RT: 10.905 min Scan# 31

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA\_1

ClientSampleId :

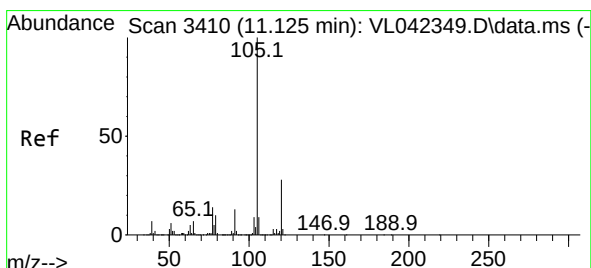
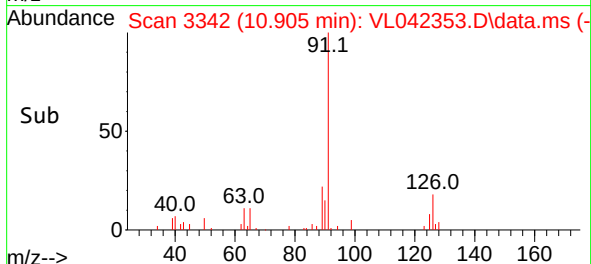
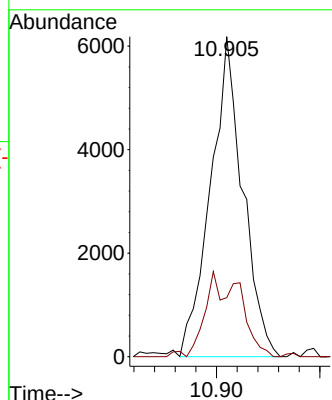
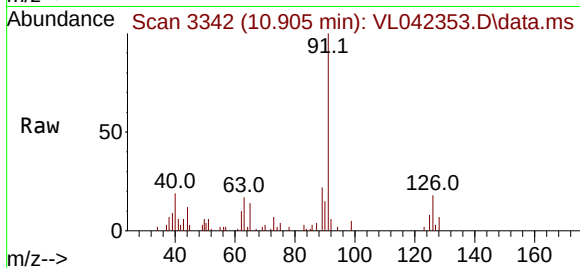
VSTDIC0.1

Tgt Ion: 91 Resp: 6703

Ion Ratio Lower Upper

91 100

126 29.2 11.4 45.4



#72

4-Ethyltoluene

Concen: 0.104 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion: 105 Resp: 6463

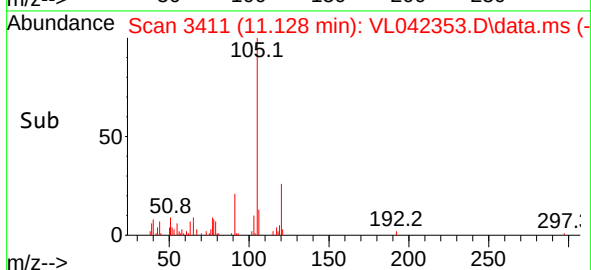
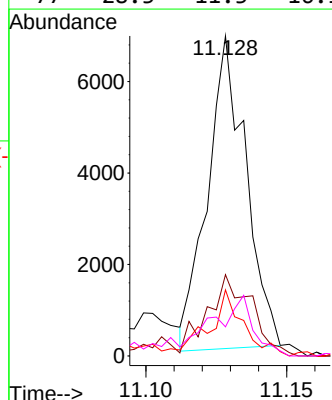
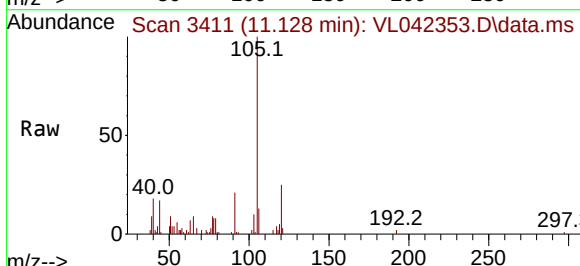
Ion Ratio Lower Upper

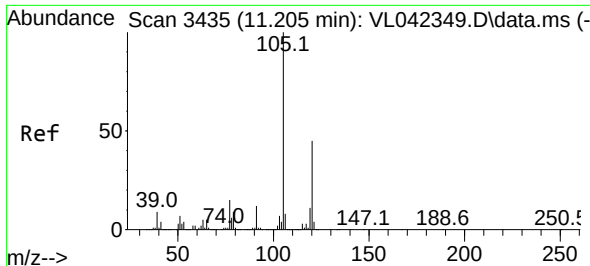
105 100

120 34.1 23.2 34.8

91 24.5 10.4 15.6#

77 28.3 11.3 16.9#

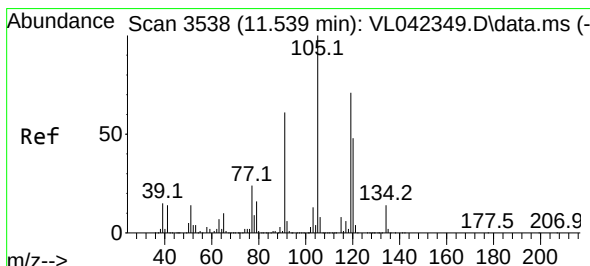
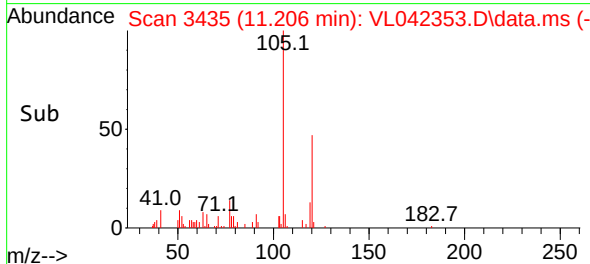
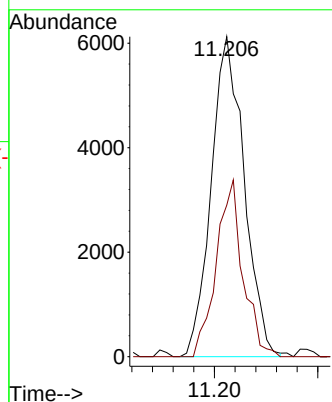
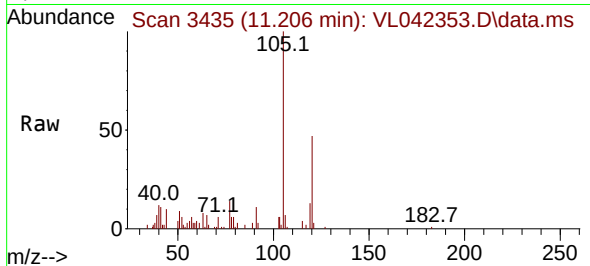




#73  
1,3,5-Trimethylbenzene  
Concen: 0.124 ppbv  
RT: 11.206 min Scan# 3435  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

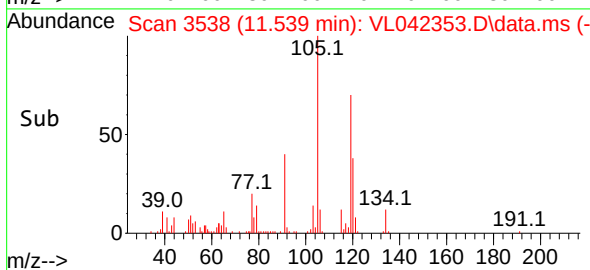
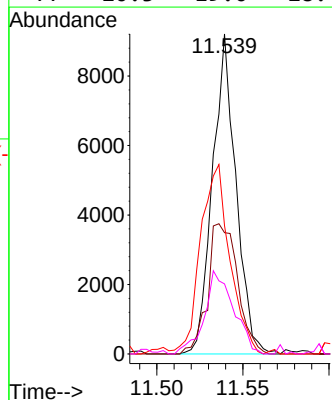
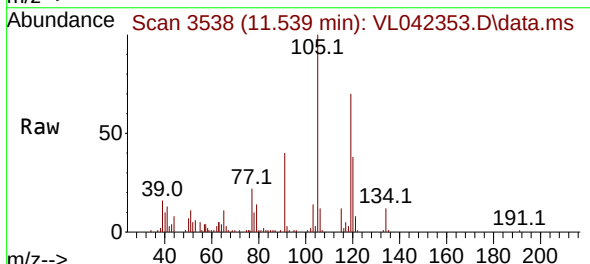
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion:105 Resp: 6797  
Ion Ratio Lower Upper  
105 100  
120 47.4 35.6 53.4

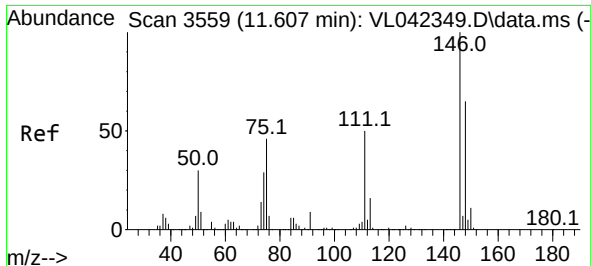


#74  
1,2,4-Trimethylbenzene  
Concen: 0.137 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8745  
Ion Ratio Lower Upper  
105 100  
120 37.9 38.1 57.1#  
91 40.1 48.8 73.2#  
77 20.3 19.0 28.4



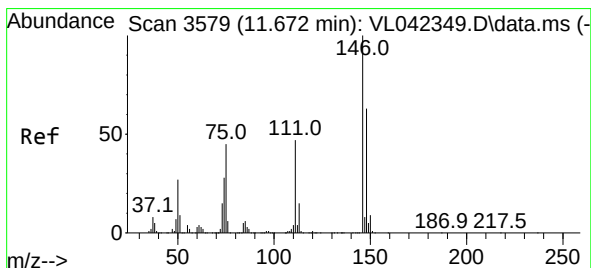
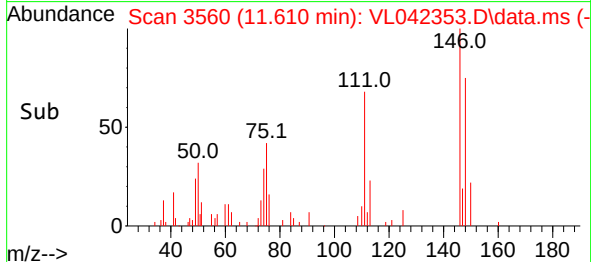
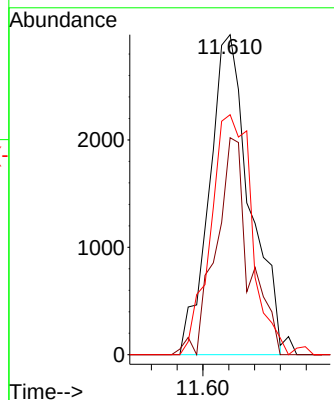
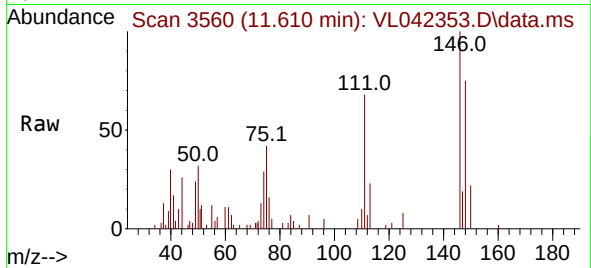




#75  
1,3-Dichlorobenzene  
Concen: 0.098 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

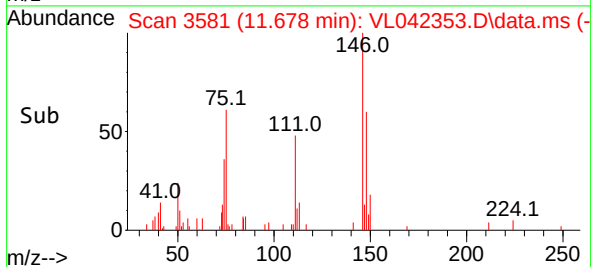
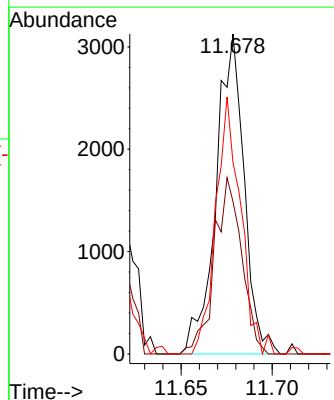
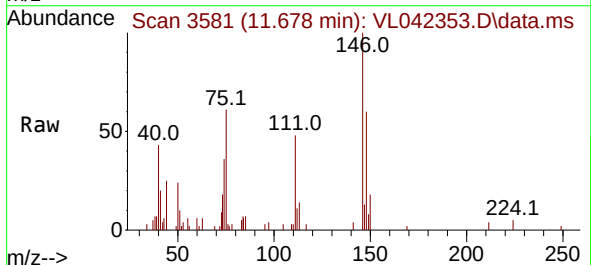
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

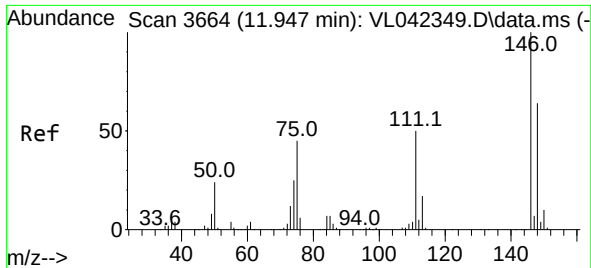
Tgt Ion:146 Resp: 3258  
Ion Ratio Lower Upper  
146 100  
111 55.9 24.3 72.8  
148 77.0 31.6 94.8



#76  
1,4-Dichlorobenzene  
Concen: 0.101 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.007 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:146 Resp: 3366  
Ion Ratio Lower Upper  
146 100  
111 53.5 24.2 72.6  
148 71.3 32.1 96.5

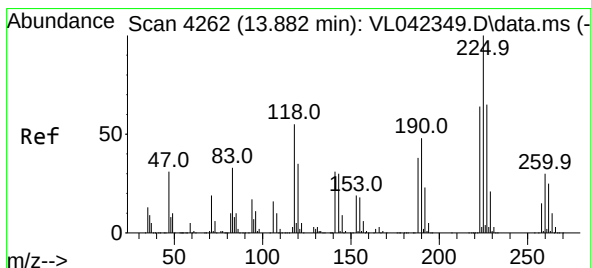
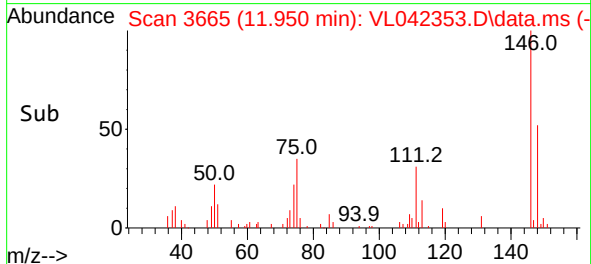
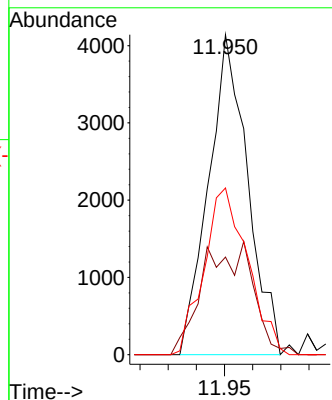
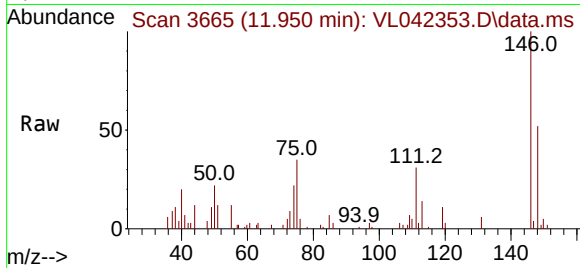




#77  
 1,2-Dichlorobenzene  
 Concen: 0.124 ppbv  
 RT: 11.950 min Scan# 3665  
 Delta R.T. 0.004 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

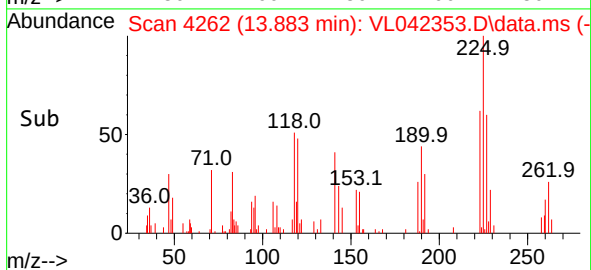
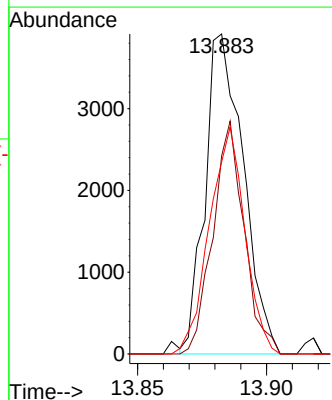
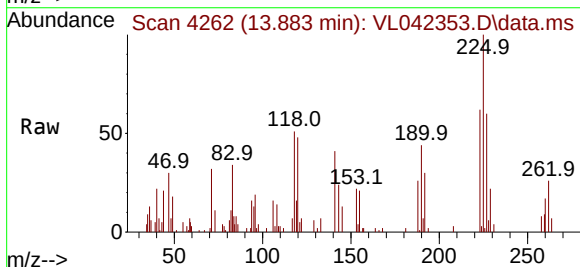
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

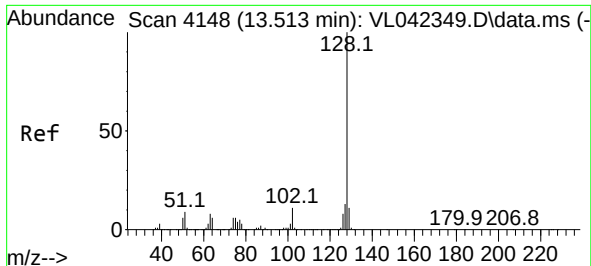
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 3996        |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 45.1  | 25.3 75.9   |
| 148         | 58.1  | 31.5 94.5   |



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.124 ppbv  
 RT: 13.883 min Scan# 4262  
 Delta R.T. 0.000 min  
 Lab File: VL042353.D  
 Acq: 17 Apr 2025 11:50

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:225 | Resp: | 4030        |
| Ion         | Ratio | Lower Upper |
| 225         | 100   |             |
| 223         | 59.5  | 50.3 75.5   |
| 227         | 65.9  | 51.5 77.3   |

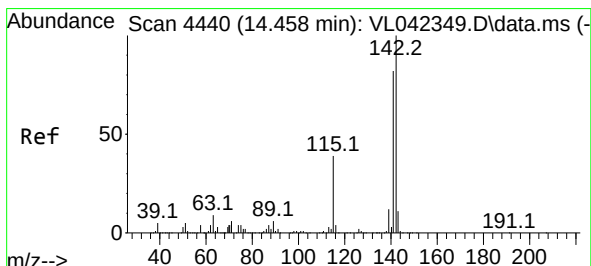
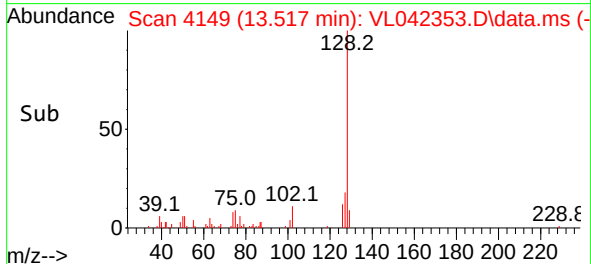
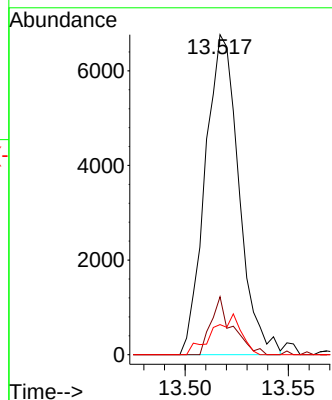
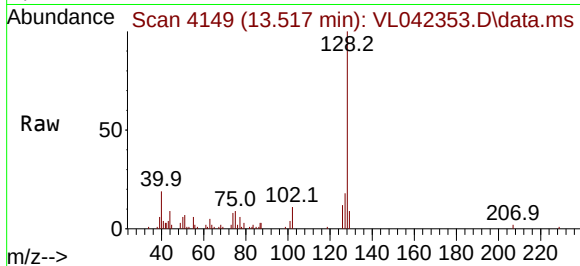




#79  
Naphthalene  
Concen: 0.100 ppbv  
RT: 13.517 min Scan# 4148  
Delta R.T. 0.004 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

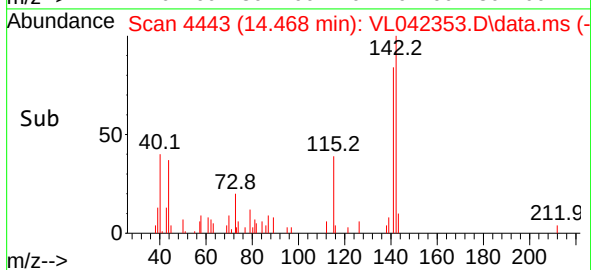
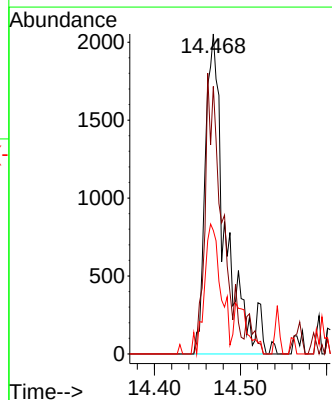
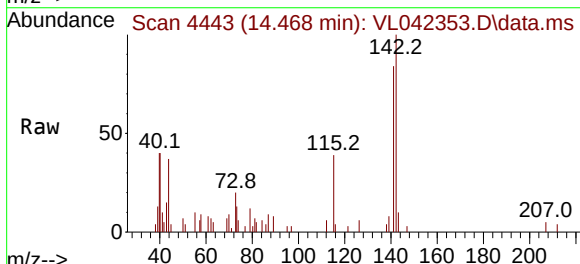
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

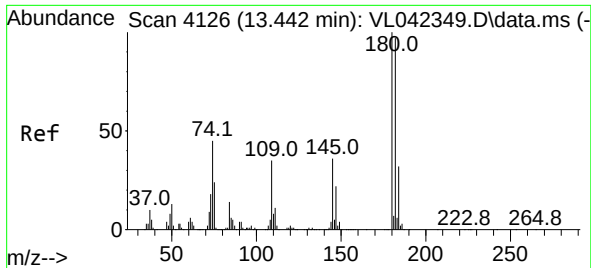
Tgt Ion:128 Resp: 7664  
Ion Ratio Lower Upper  
128 100  
127 18.1 10.6 15.8#  
129 9.4 8.6 12.8



#80  
Naphthalene,2-methyl-  
Concen: 0.077 ppbv  
RT: 14.468 min Scan# 4443  
Delta R.T. 0.010 min  
Lab File: VL042353.D  
Acq: 17 Apr 2025 11:50

Tgt Ion:142 Resp: 3339  
Ion Ratio Lower Upper  
142 100  
141 78.4 66.8 100.2  
115 33.1 33.4 50.2#





#81

1,2,4-Trichlorobenzene

Concen: 0.069 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042353.D

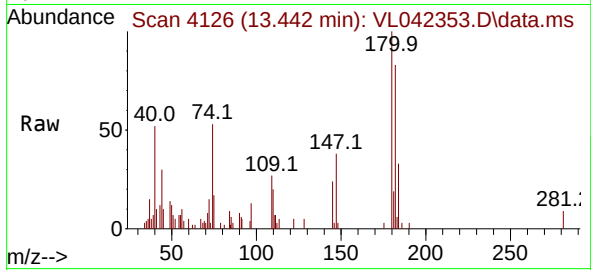
Acq: 17 Apr 2025 11:50

Instrument :

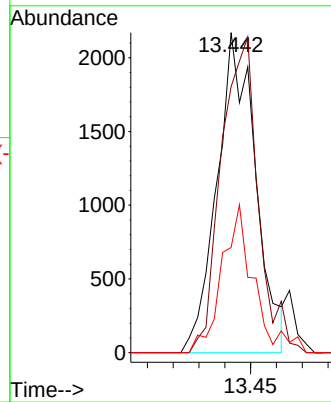
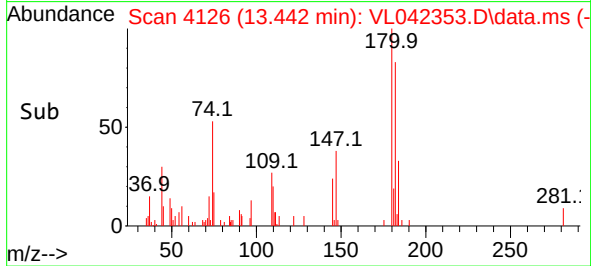
MSVOA\_L

ClientSampleId :

VSTDIC0.1



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 2245  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 94.3  | 76.8  | 115.2 |
| 184       | 38.4  | 24.6  | 36.8# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042354.D  
 Acq On : 17 Apr 2025 12:22  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 120042   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 349264   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 312999   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 256230   | 9.962    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.600% |

| Target Compounds              |       |     |       |        |        | Qvalue |
|-------------------------------|-------|-----|-------|--------|--------|--------|
| 3) Chlorodifluoromethane      | 1.479 | 51  | 1404  | 0.070  | ppbv # | 78     |
| 4) Chloromethane              | 1.534 | 50  | 773   | 0.092  | ppbv # | 72     |
| 5) Vinyl Chloride             | 1.583 | 62  | 361   | 0.040  | ppbv # | 76     |
| 6) Bromomethane               | 1.667 | 94  | 232   | 0.059  | ppbv # | 8      |
| 7) Chloroethane               | 1.699 | 64  | 237   | 0.072  | ppbv # | 46     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 823   | 0.045  | ppbv   | 95     |
| 9) Propene                    | 1.486 | 41  | 508   | 0.055  | ppbv # | 15     |
| 10) Heptane                   | 4.981 | 43  | 435   | 0.018  | ppbv # | 1      |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 793   | 0.048  | ppbv # | 73     |
| 13) Ethanol                   | 1.434 | 45  | 60931 | 81.065 | ppbv   | 74     |
| 14) Bromoethene               | 1.787 | 108 | 207   | 0.033  | ppbv # | 1      |
| 15) Acetone                   | 1.839 | 43  | 3597  | 0.183  | ppbv # | 89     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 573   | 0.062  | ppbv # | 1      |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 991   | 0.041  | ppbv # | 1      |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 455   | 0.057  | ppbv # | 43     |
| 19) Isopropyl Alcohol         | 1.434 | 45  | 60931 | 5.582  | ppbv # | 33     |
| 20) Methylene Chloride        | 2.065 | 84  | 2904  | 0.377  | ppbv   | 86     |
| 21) Allyl Chloride            | 2.097 | 41  | 1132  | 0.083  | ppbv # | 1      |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 287   | 0.033  | ppbv # | 32     |
| 23) Vinyl Acetate             | 2.466 | 43  | 490   | 0.062  | ppbv # | 86     |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 1030  | 0.062  | ppbv # | 74     |
| 25) Ethyl Acetate             | 2.835 | 43  | 2744  | 0.057  | ppbv # | 75     |
| 26) Hexane                    | 2.832 | 57  | 2398  | 0.122  | ppbv # | 65     |
| 27) Carbon Disulfide          | 2.152 | 76  | 984   | 0.047  | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.447 | 73  | 426   | 0.033  | ppbv # | 48     |
| 30) Cyclohexane               | 3.855 | 84  | 311   | 0.020  | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 831   | 0.045  | ppbv # | 86     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 809   | 0.027  | ppbv # | 52     |
| 34) 2-Butanone                | 2.564 | 43  | 510   | 0.018  | ppbv # | 53     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 862   | 0.027  | ppbv # | 45     |
| 36) Benzene                   | 3.667 | 78  | 1629  | 0.043  | ppbv # | 75     |
| 38) Trichloroethene           | 4.557 | 130 | 271   | 0.016  | ppbv # | 27     |
| 39) 1,2-Dichloropropane       | 3.965 | 63  | 90827 | 6.465  | ppbv # | 22     |
| 40) 1,4-Dioxane               | 4.625 | 88  | 139   | 0.018  | ppbv # | 1      |
| 42) Bromodichloromethane      | 4.496 | 83  | 1093  | 0.035  | ppbv # | 82     |
| 43) Methyl Methacrylate       | 4.891 | 69  | 354   | 0.021  | ppbv # | 3      |
| 44) 2,2,4-Trimethylpentane    | 4.641 | 57  | 1377  | 0.021  | ppbv # | 1      |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 183   | 0.011  | ppbv   | 100    |
| 46) cis-1,3-Dichloropropene   | 5.606 | 75  | 546   | 0.026  | ppbv # | 37     |
| 47) 1,1,2-Trichloroethane     | 6.590 | 97  | 225   | 0.016  | ppbv # | 40     |
| 48) Dibromochloromethane      | 7.399 | 129 | 258   | 0.010  | ppbv # | 10     |
| 49) Bromoform                 | 9.493 | 173 | 285   | 0.013  | ppbv # | 1      |
| 53) Toluene                   | 6.943 | 91  | 464   | 0.010  | ppbv # | 1      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042354.D  
 Acq On : 17 Apr 2025 12:22  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

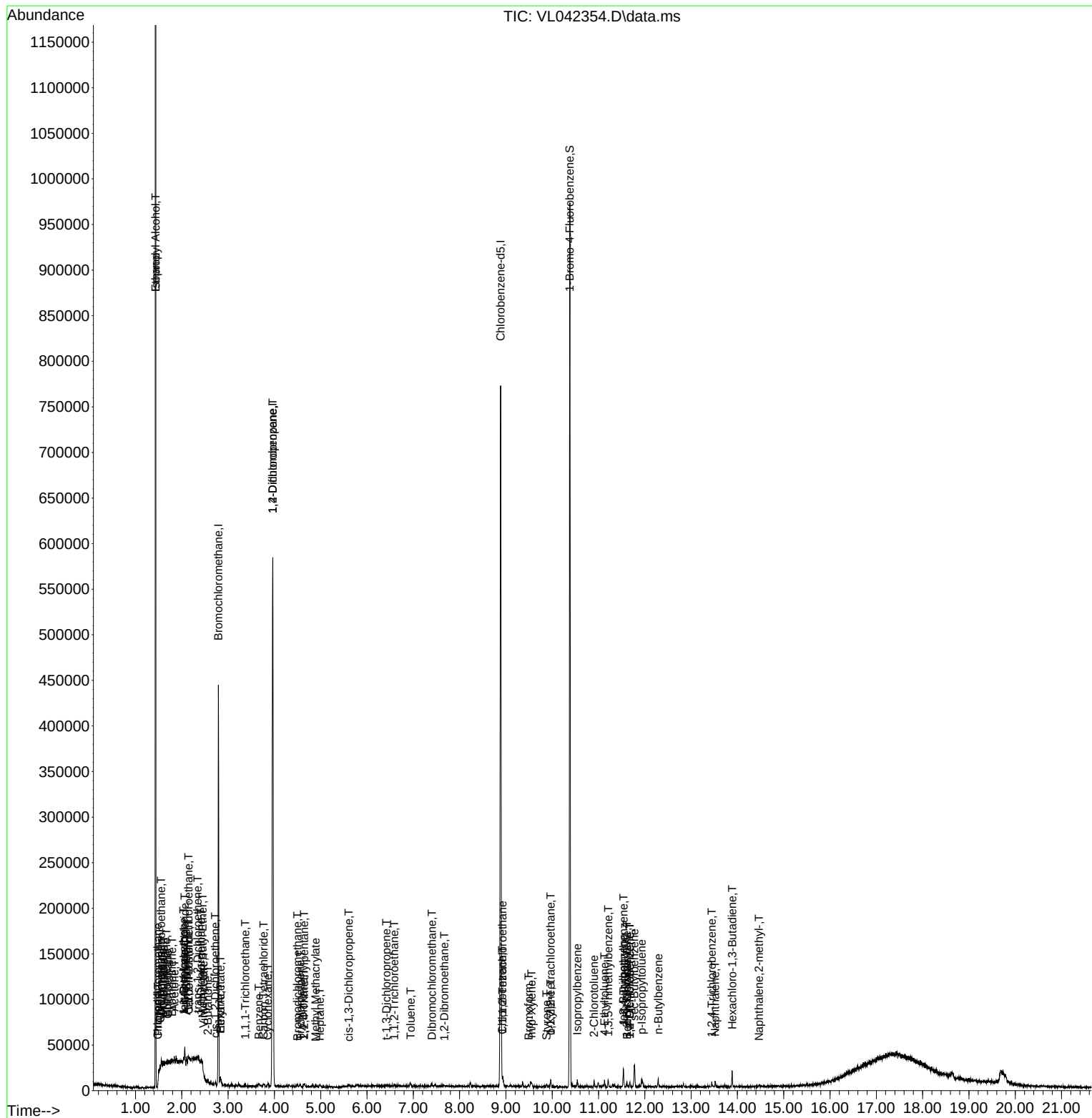
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |    |
|-------------------------------|--------|------|----------|-------|-------|----------|----|
| 54) 1,2-Dibromoethane         | 7.668  | 107  | 422      | 0.021 | ppbv  | #        | 12 |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 589      | 0.031 | ppbv  | #        | 1  |
| 57) Chlorobenzene             | 8.920  | 112  | 567      | 0.017 | ppbv  | #        | 74 |
| 59) m/p-Xylene                | 9.555  | 91   | 1648     | 0.033 | ppbv  | #        | 32 |
| 60) o-Xylene                  | 9.966  | 91   | 1938     | 0.039 | ppbv  |          | 84 |
| 61) Styrene                   | 9.875  | 104  | 813      | 0.034 | ppbv  |          | 93 |
| 62) Isopropylbenzene          | 10.542 | 105  | 2934     | 0.040 | ppbv  |          | 92 |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 826      | 0.025 | ppbv  | #        | 58 |
| 65) tert-Butylbenzene         | 11.536 | 119  | 2656     | 0.039 | ppbv  |          | 90 |
| 66) Benzyl Chloride           | 11.620 | 91   | 130      | 0.017 | ppbv  | #        | 70 |
| 67) sec-Butylbenzene          | 11.772 | 105  | 3658     | 0.039 | ppbv  | #        | 85 |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 3139     | 0.038 | ppbv  |          | 94 |
| 70) n-Butylbenzene            | 12.290 | 91   | 2516     | 0.029 | ppbv  | #        | 81 |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 2537     | 0.044 | ppbv  |          | 99 |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 2221     | 0.036 | ppbv  | #        | 69 |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 2473     | 0.046 | ppbv  | #        | 86 |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 4320     | 0.068 | ppbv  | #        | 80 |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 1056     | 0.032 | ppbv  |          | 91 |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 1180     | 0.036 | ppbv  |          | 95 |
| 77) 1,2-Dichlorobenzene       | 11.671 | 146  | 1180     | 0.037 | ppbv  |          | 93 |
| 78) Hexachloro-1,3-Butadiene  | 13.889 | 225  | 1879     | 0.058 | ppbv  |          | 92 |
| 79) Naphthalene               | 13.516 | 128  | 2354     | 0.031 | ppbv  | #        | 84 |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 594      | 0.014 | ppbv  | #        | 52 |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 614      | 0.019 | ppbv  | #        | 71 |

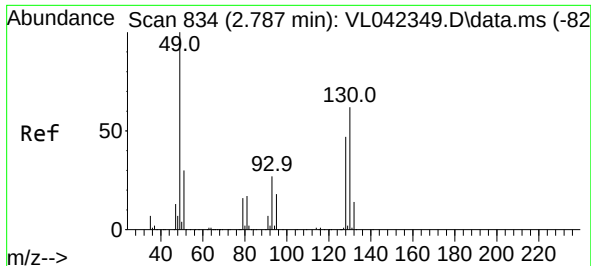
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042354.D  
Acq On : 17 Apr 2025 12:22  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration

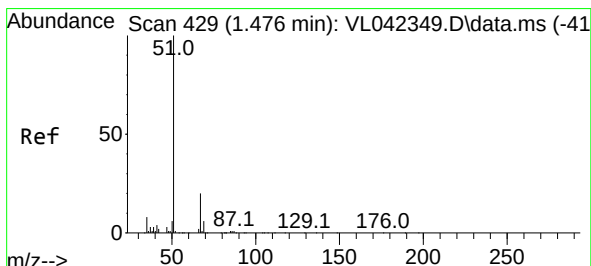
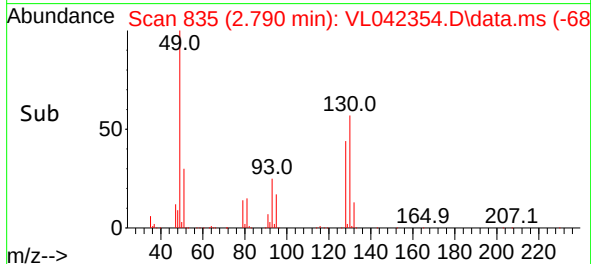
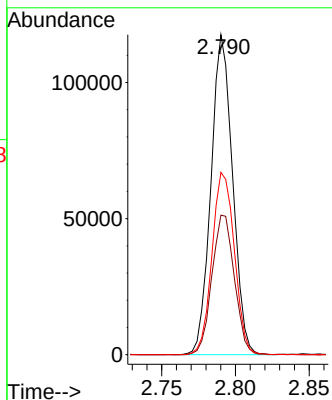
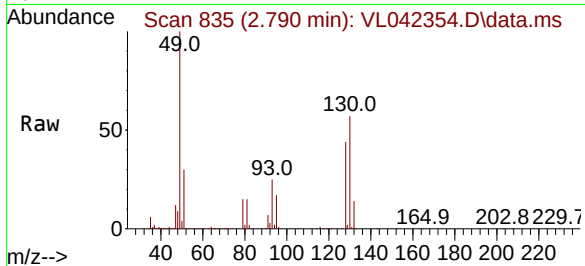




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

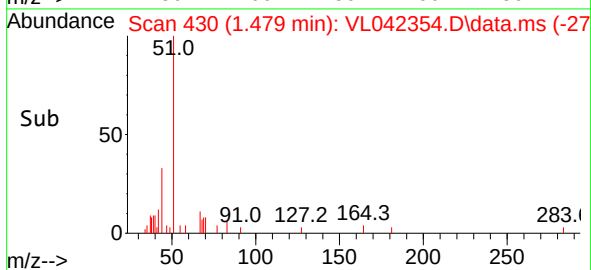
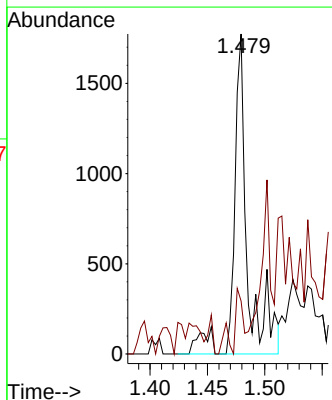
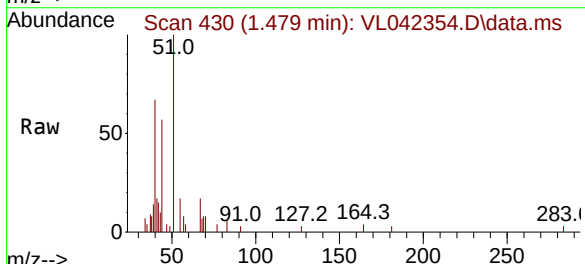
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 49 Resp: 120042  
Ion Ratio Lower Upper  
49 100  
128 45.3 22.8 68.4  
130 59.0 29.3 88.0

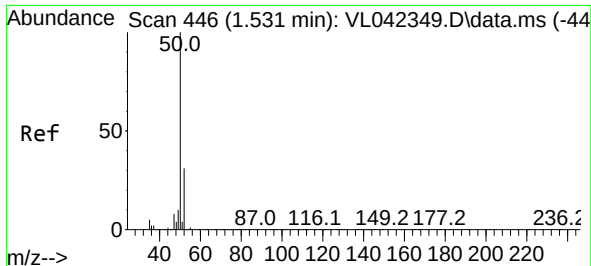


#3  
Chlorodifluoromethane  
Concen: 0.070 ppbv  
RT: 1.479 min Scan# 430  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 51 Resp: 1404  
Ion Ratio Lower Upper  
51 100  
67 30.7 16.2 24.4#



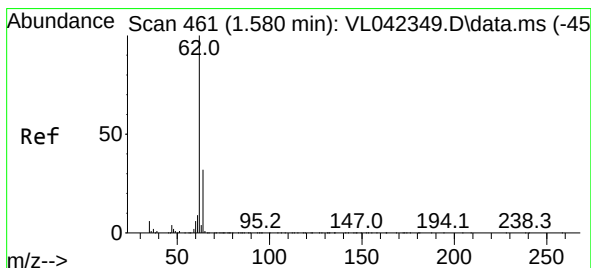
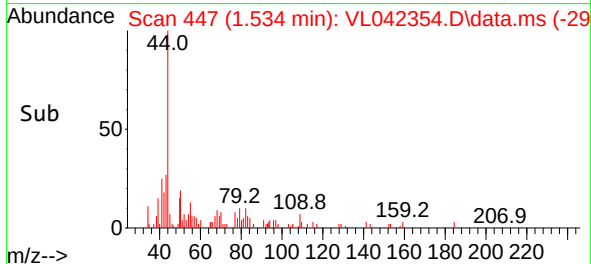
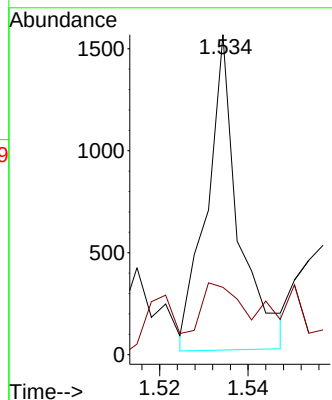
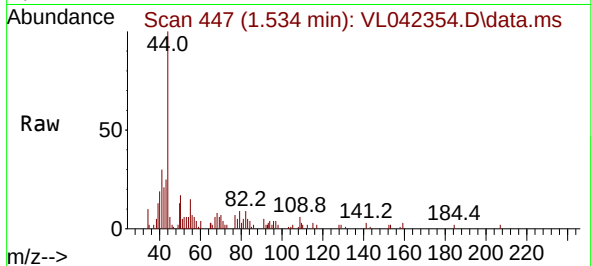




#4  
Chloromethane  
Concen: 0.092 ppbv  
RT: 1.534 min Scan# 446  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

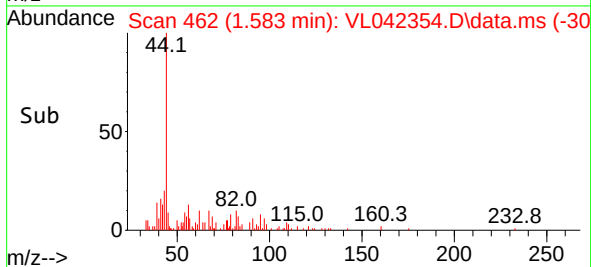
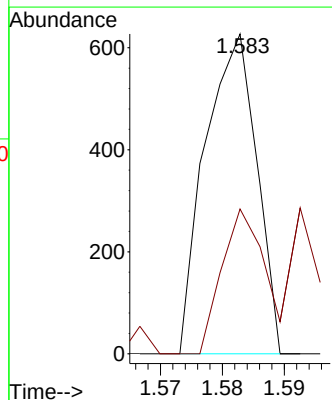
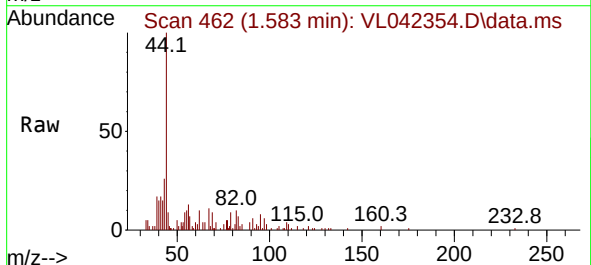
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

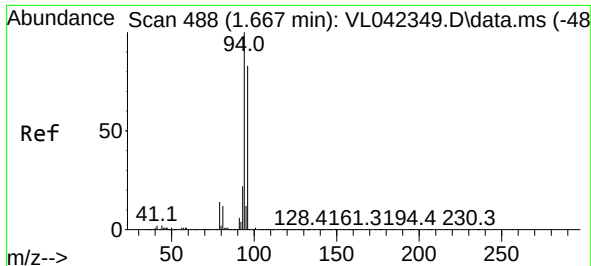
Tgt Ion: 50 Resp: 773  
Ion Ratio Lower Upper  
50 100  
52 15.3 24.7 37.1#



#5  
Vinyl Chloride  
Concen: 0.040 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361  
Ion Ratio Lower Upper  
62 100  
64 45.3 25.4 38.0#

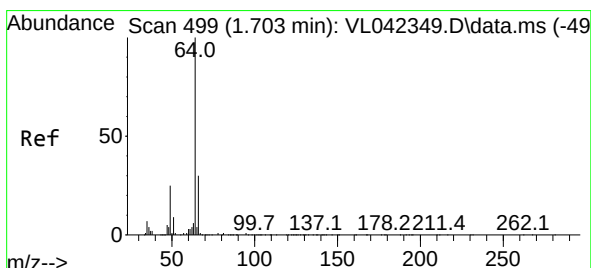
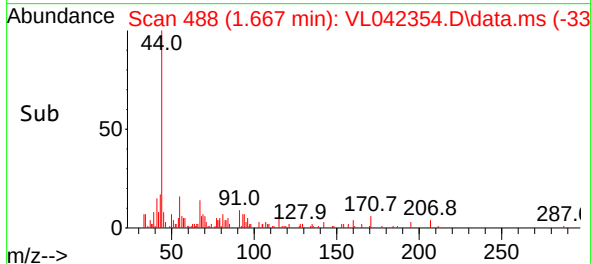
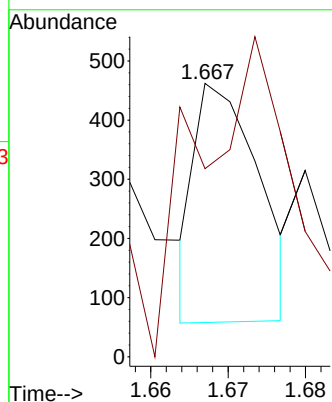
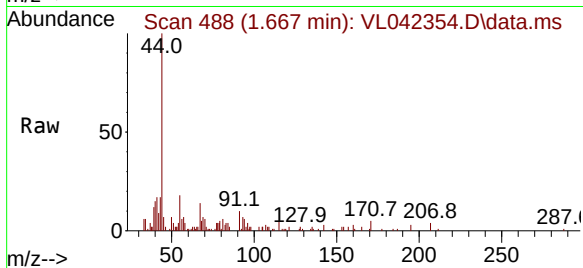




#6  
Bromomethane  
Concen: 0.059 ppbv  
RT: 1.667 min Scan# 488  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

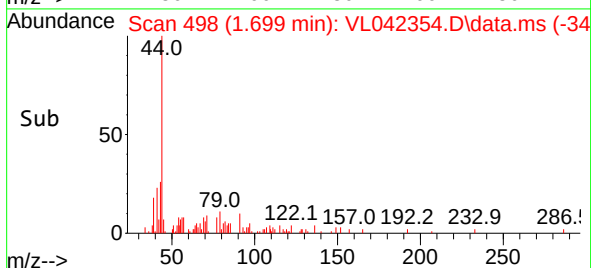
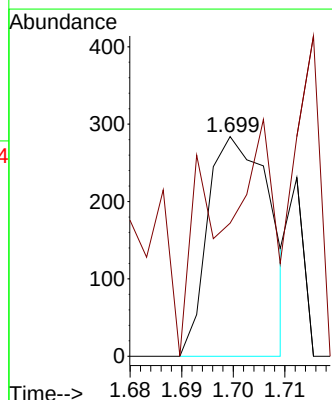
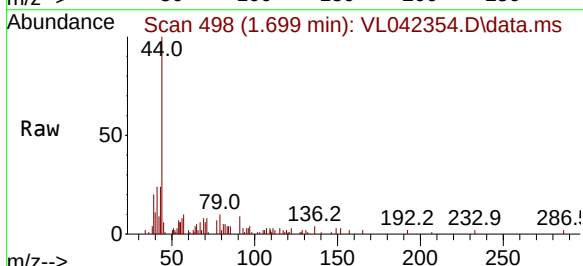
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

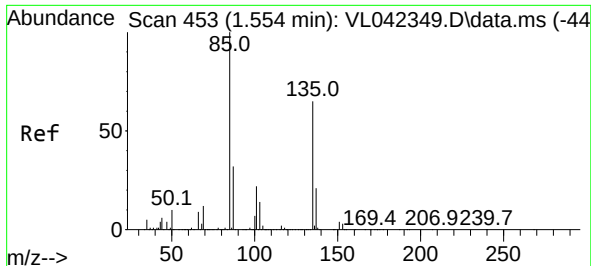
Tgt Ion: 94 Resp: 232  
Ion Ratio Lower Upper  
94 100  
96 0.0 66.2 99.2#



#7  
Chloroethane  
Concen: 0.072 ppbv  
RT: 1.699 min Scan# 498  
Delta R.T. -0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237  
Ion Ratio Lower Upper  
64 100  
66 60.6 24.6 37.0#

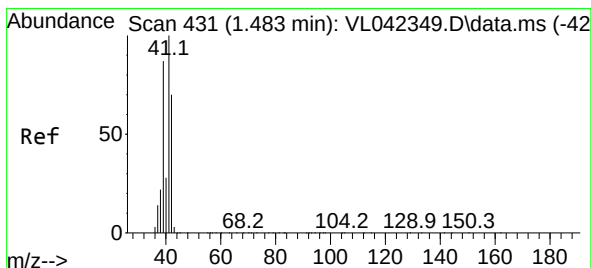
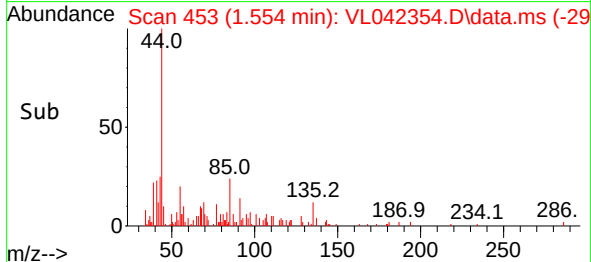
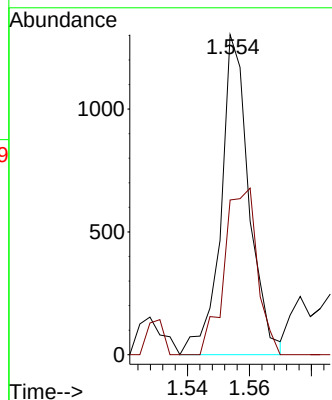
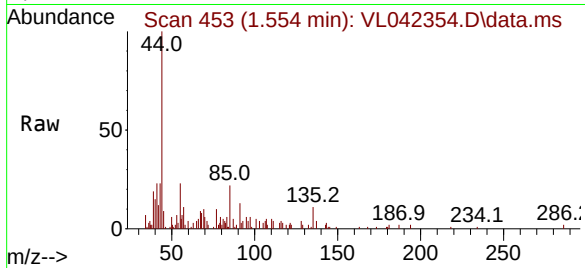




#8  
 Dichlorotetrafluoroethane  
 Concen: 0.045 ppbv  
 RT: 1.554 min Scan# 411  
 Delta R.T. -0.000 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

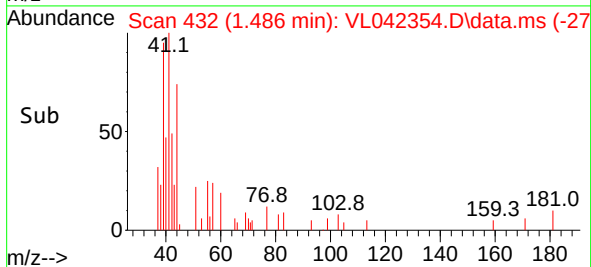
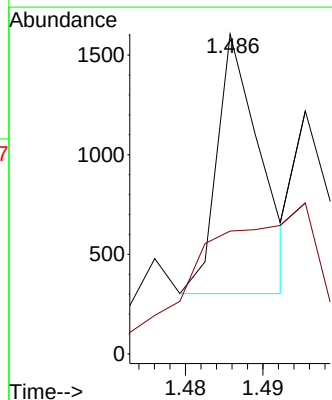
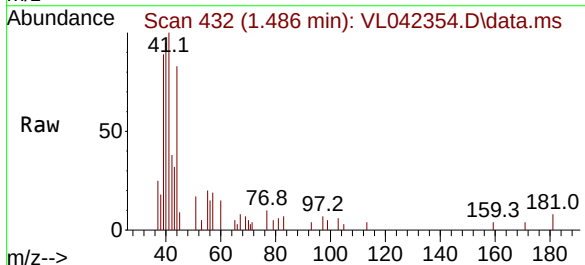
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

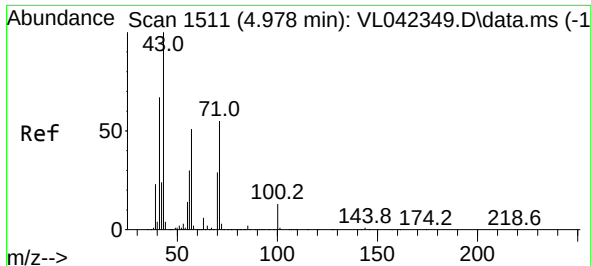
Tgt Ion: 85 Resp: 823  
 Ion Ratio Lower Upper  
 85 100  
 135 69.1 52.2 78.2



#9  
 Propene  
 Concen: 0.055 ppbv  
 RT: 1.486 min Scan# 432  
 Delta R.T. 0.003 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508  
 Ion Ratio Lower Upper  
 41 100  
 42 0.0 56.2 84.4#





#10

Heptane

Concen: 0.018 ppbv

RT: 4.981 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_L

ClientSampleId :

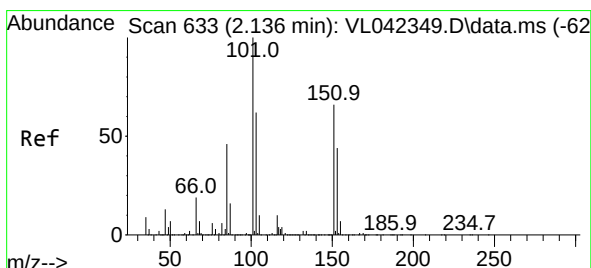
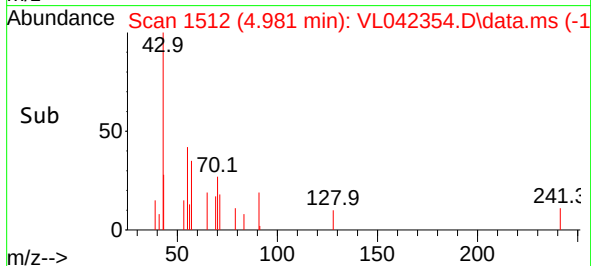
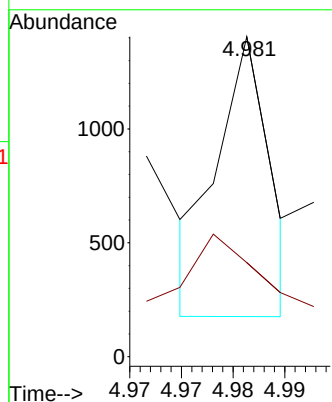
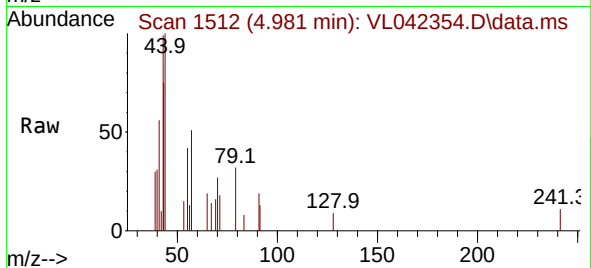
VSTDIC0.03

Tgt Ion: 43 Resp: 435

Ion Ratio Lower Upper

43 100

57 283.4 39.9 59.9#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.048 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.006 min

Lab File: VL042354.D

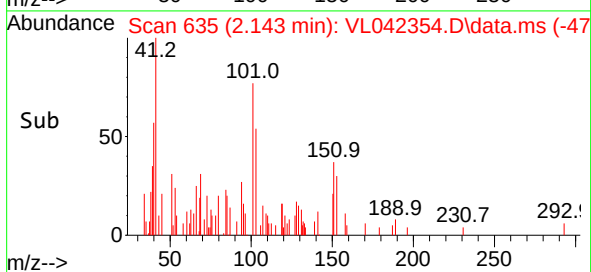
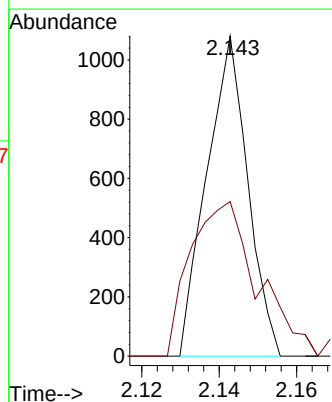
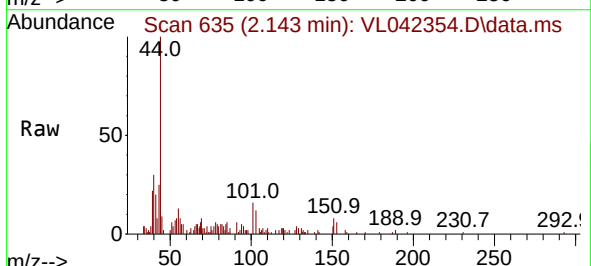
Acq: 17 Apr 2025 12:22

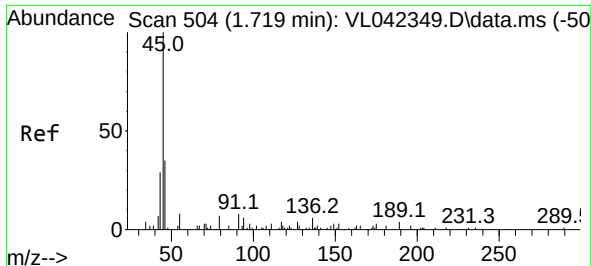
Tgt Ion: 101 Resp: 793

Ion Ratio Lower Upper

101 100

151 93.3 57.0 85.6#

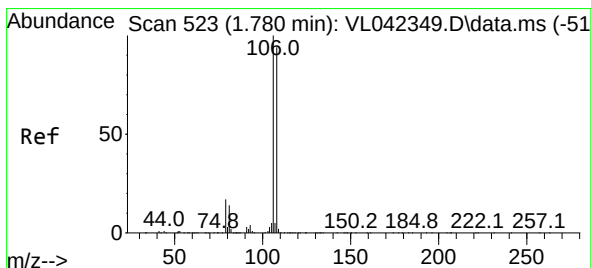
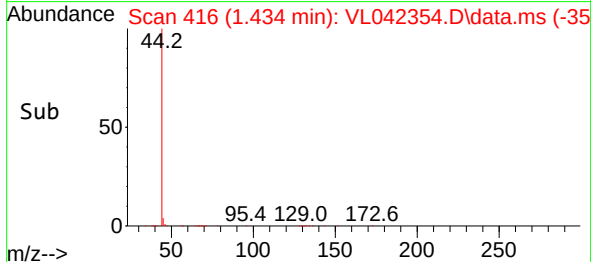
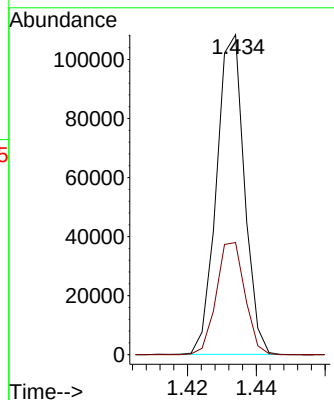
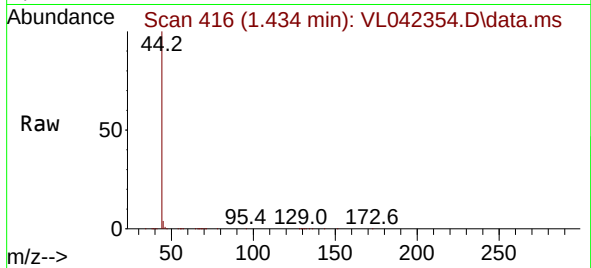




#13  
 Ethanol  
 Concen: 81.065 ppbv  
 RT: 1.434 min Scan# 416  
 Delta R.T. -0.285 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

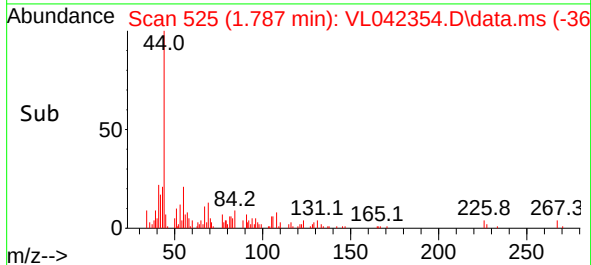
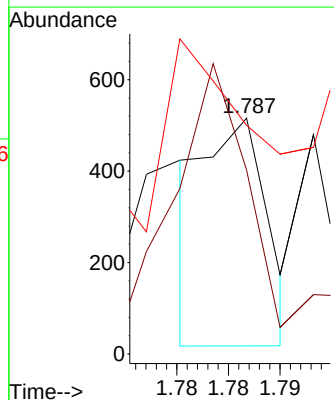
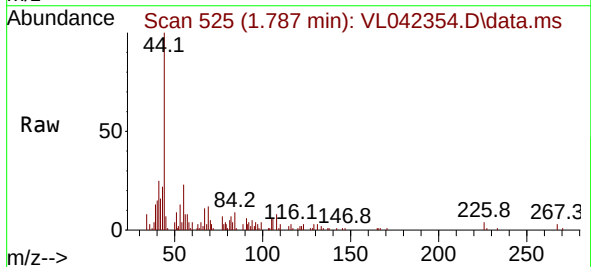
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

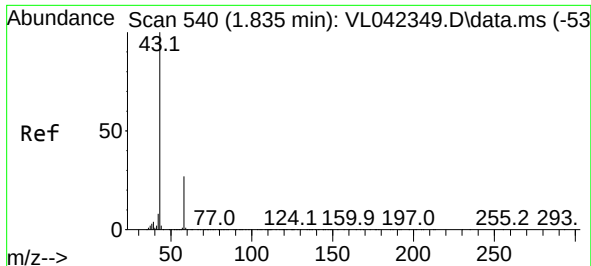
Tgt Ion: 45 Resp: 60931  
 Ion Ratio Lower Upper  
 45 100  
 46 36.1 21.9 87.7



#14  
 Bromoethene  
 Concen: 0.033 ppbv  
 RT: 1.787 min Scan# 525  
 Delta R.T. 0.006 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Tgt Ion: 108 Resp: 207  
 Ion Ratio Lower Upper  
 108 100  
 106 248.3 85.9 128.9#  
 79 0.0 13.9 20.9#

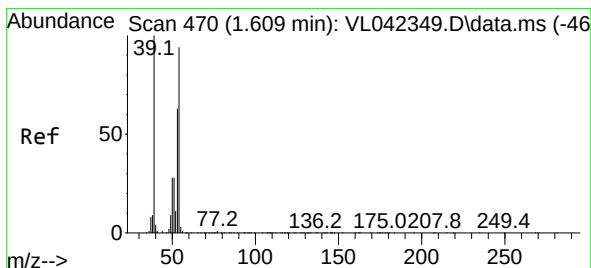
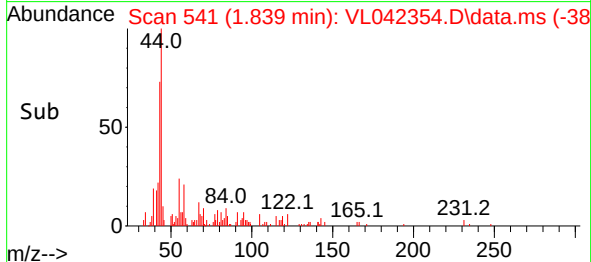
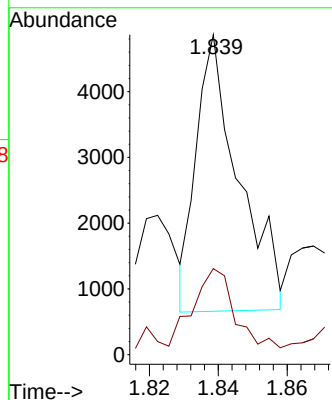
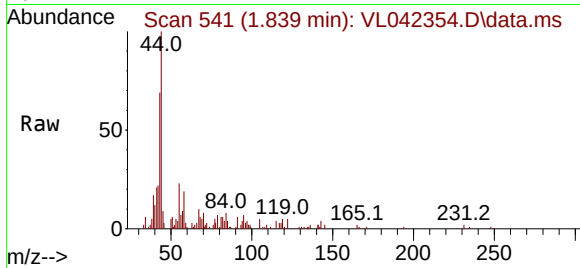




#15  
Acetone  
Concen: 0.183 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

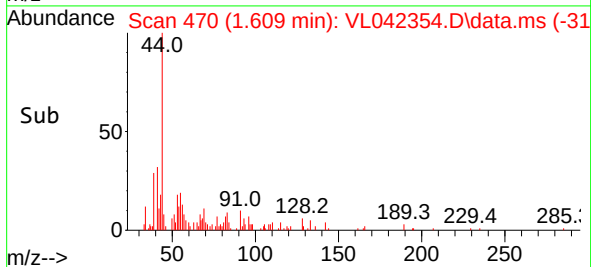
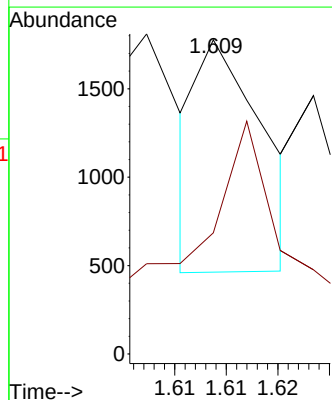
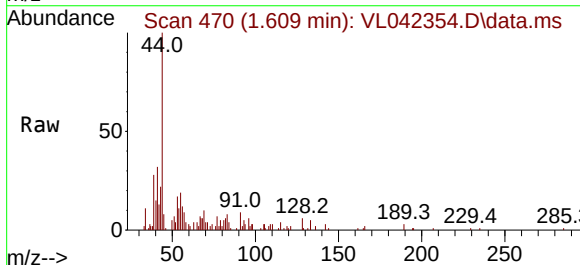
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

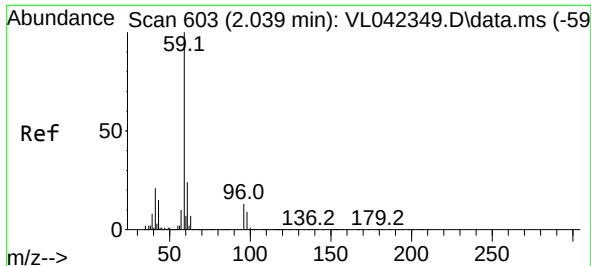
Tgt Ion: 43 Resp: 3597  
Ion Ratio Lower Upper  
43 100  
58 33.7 22.4 33.6#



#16  
1,3-Butadiene  
Concen: 0.062 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 39 Resp: 573  
Ion Ratio Lower Upper  
39 100  
54 377.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_L

ClientSampleId :

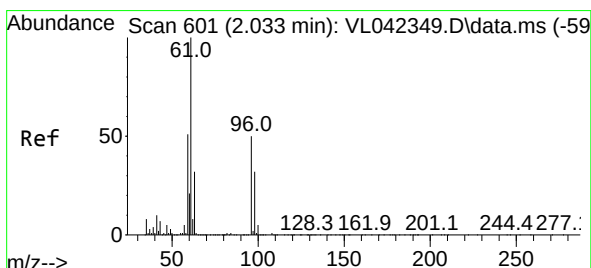
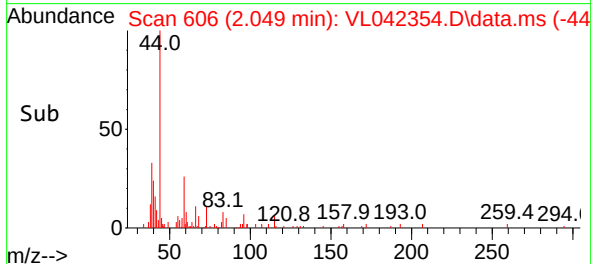
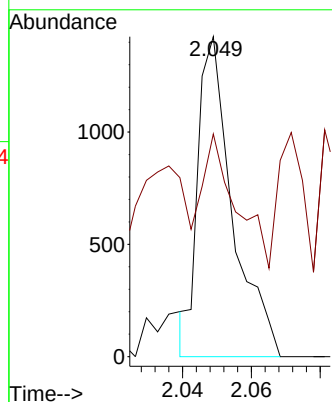
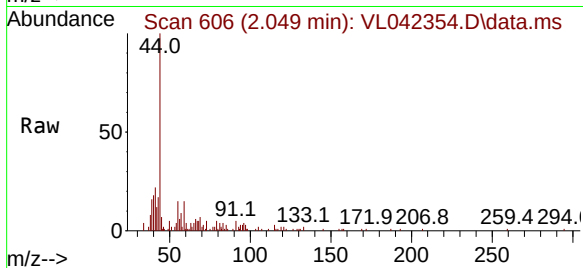
VSTDIC0.03

Tgt Ion: 59 Resp: 991

Ion Ratio Lower Upper

59 100

57 113.2 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

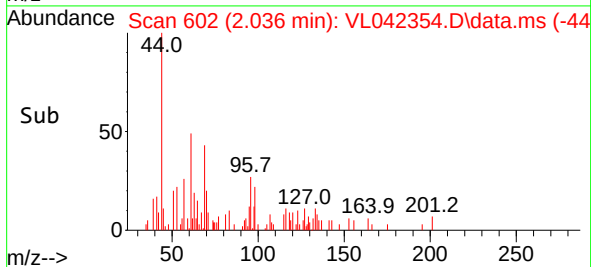
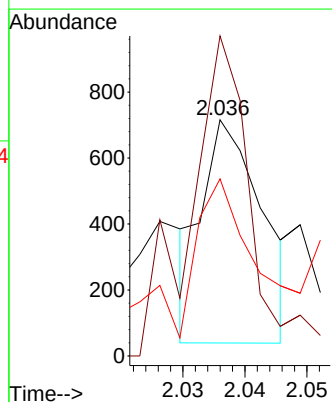
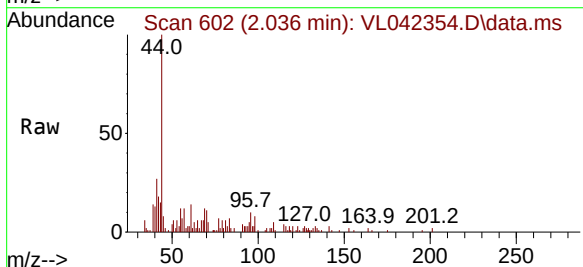
Tgt Ion: 96 Resp: 455

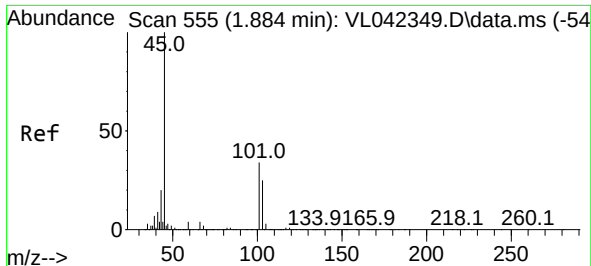
Ion Ratio Lower Upper

96 100

61 271.0 160.2 240.2#

98 132.1 51.0 76.4#

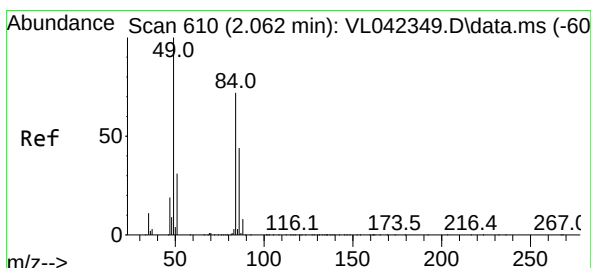
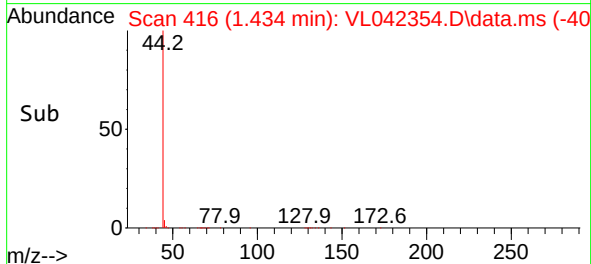
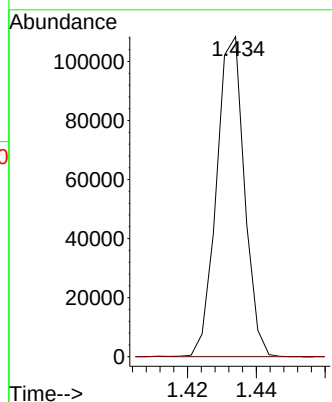
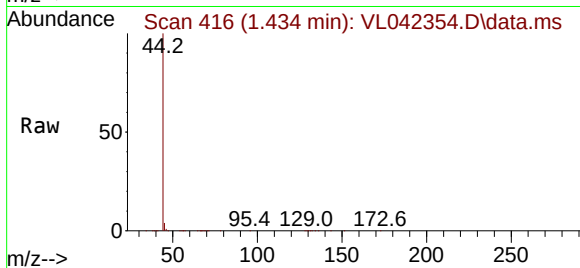




#19  
Isopropyl Alcohol  
Concen: 5.582 ppbv  
RT: 1.434 min Scan# 416  
Delta R.T. -0.450 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

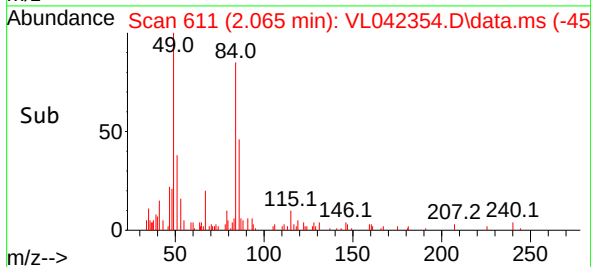
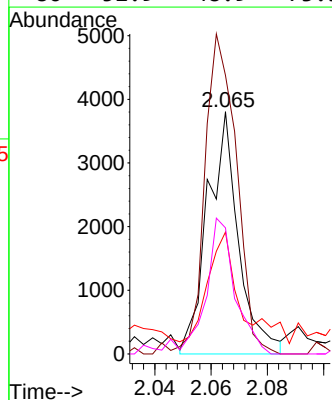
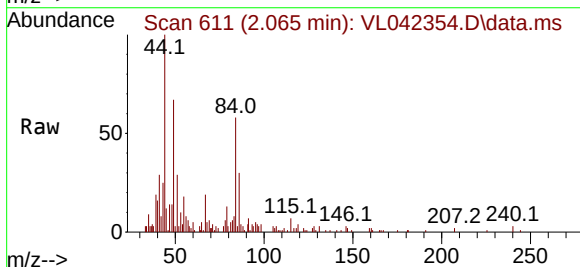
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 45 Resp: 60931  
Ion Ratio Lower Upper  
45 100  
58 0.2 34.5 51.7#

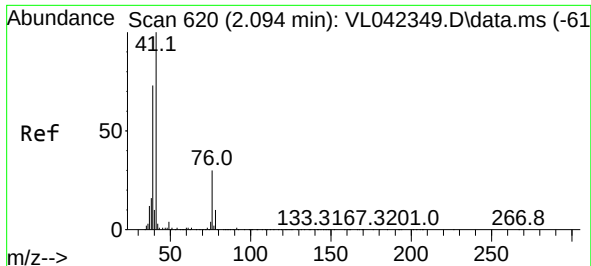


#20  
Methylene Chloride  
Concen: 0.377 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 84 Resp: 2904  
Ion Ratio Lower Upper  
84 100  
49 116.9 111.6 167.4  
51 46.1 35.1 52.7  
86 52.9 48.9 73.3



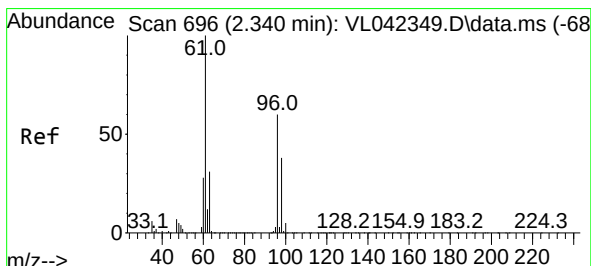
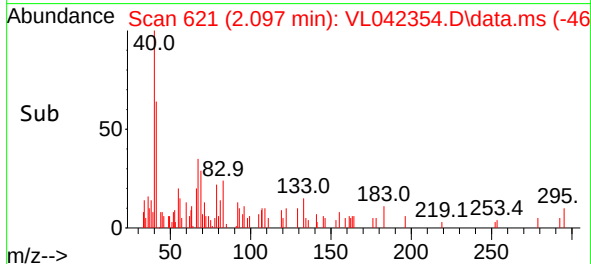
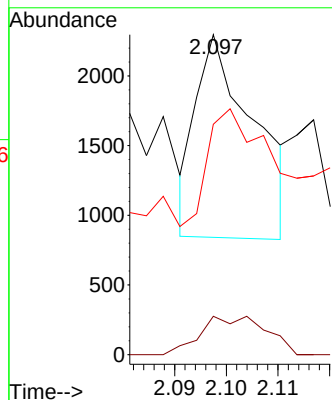
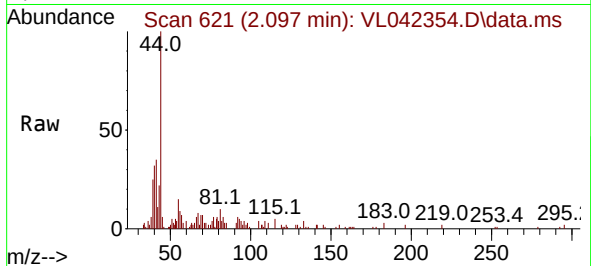




#21  
 Allyl Chloride  
 Concen: 0.083 ppbv  
 RT: 2.097 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

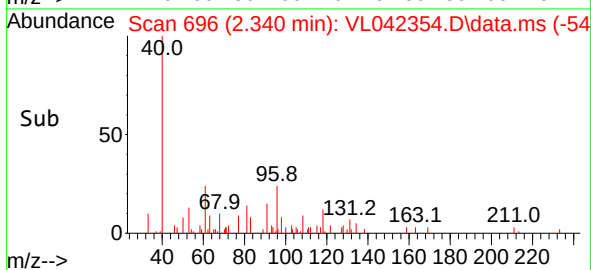
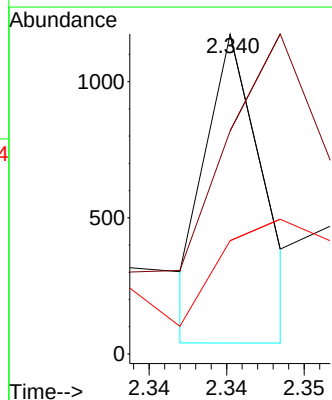
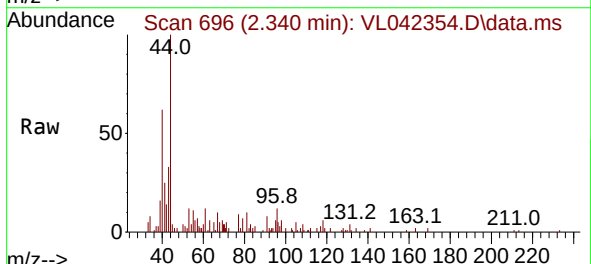
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

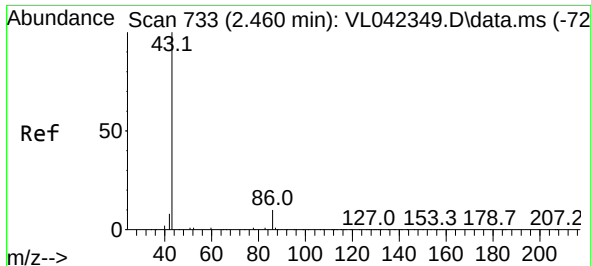
Tgt Ion: 41 Resp: 1132  
 Ion Ratio Lower Upper  
 41 100  
 76 21.5 24.8 37.2#  
 39 407.5 60.6 90.8#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.033 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 287  
 Ion Ratio Lower Upper  
 96 100  
 61 58.7 133.7 200.5#  
 98 36.0 50.3 75.5#

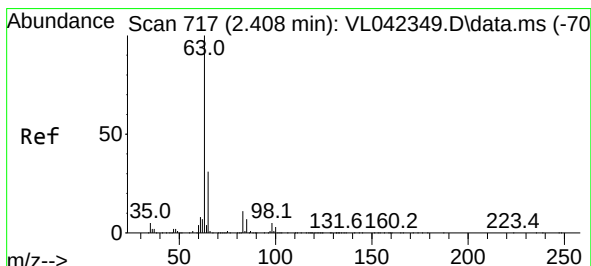
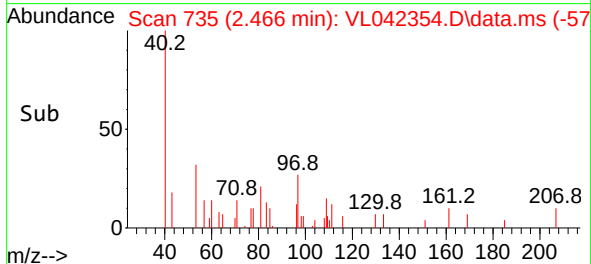
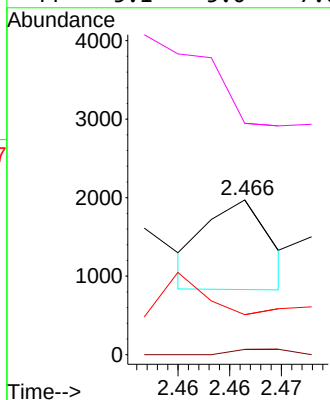
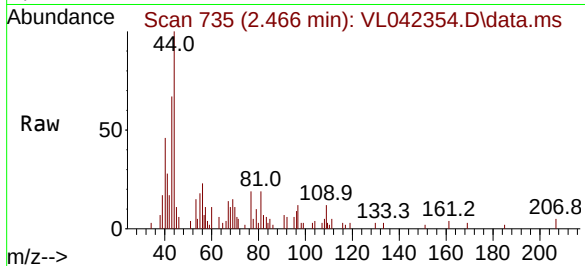




#23  
Vinyl Acetate  
Concen: 0.062 ppbv  
RT: 2.466 min Scan# 719  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

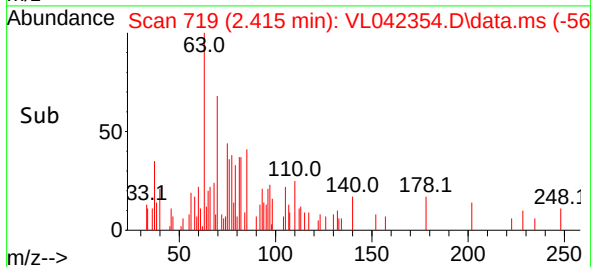
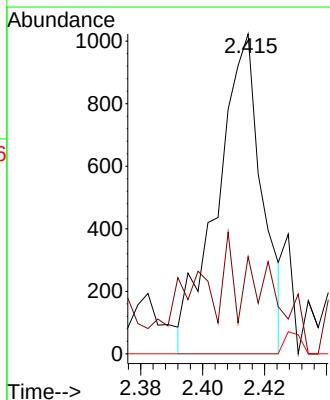
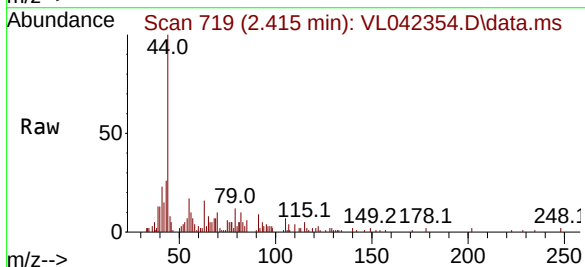
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

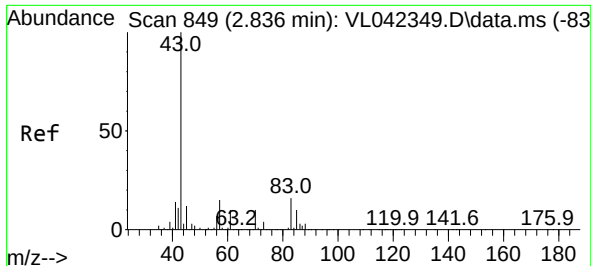
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 490   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.1  | 6.5   | 9.7#  |
| 42       | 0.0   | 7.8   | 11.8# |
| 44       | 5.1   | 5.0   | 7.6   |



#24  
1,1-Dichloroethane  
Concen: 0.062 ppbv  
RT: 2.415 min Scan# 719  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 1030  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 17.1  | 2.3   | 6.8#  |
| 100      | 0.0   | 1.6   | 4.8#  |

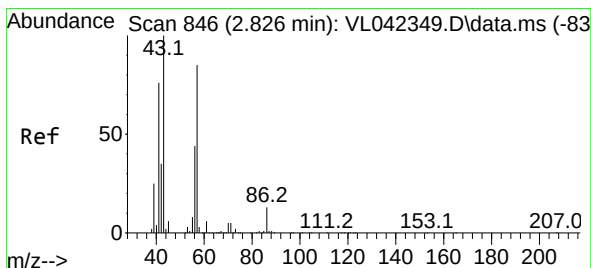
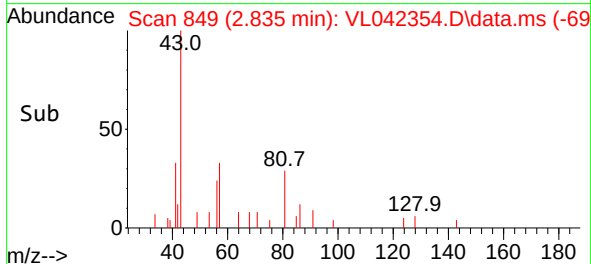
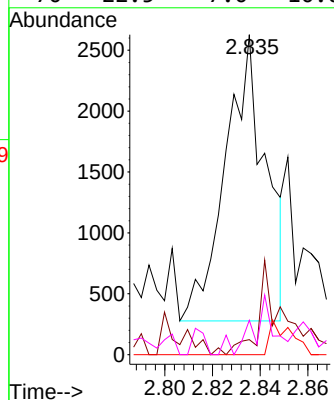
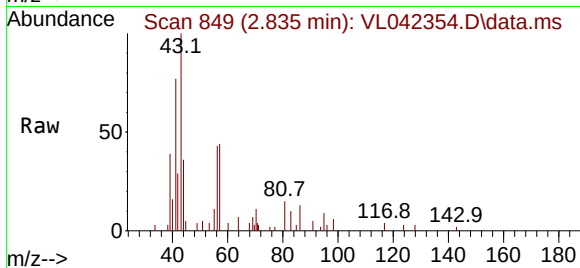




#25  
Ethyl Acetate  
Concen: 0.057 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

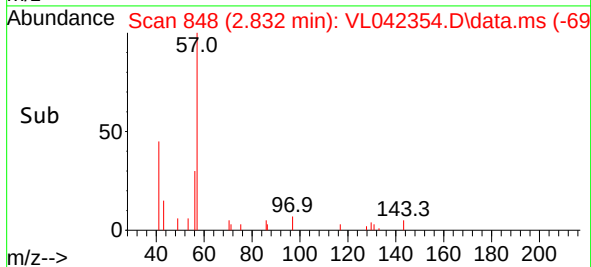
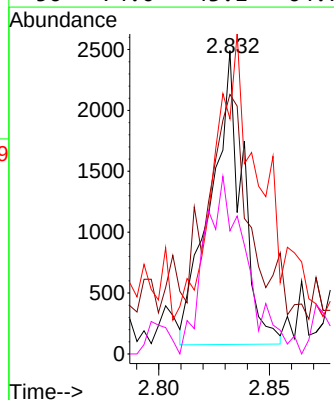
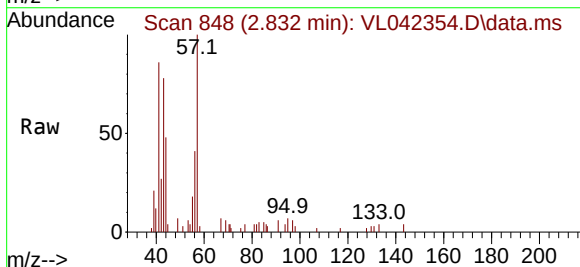
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

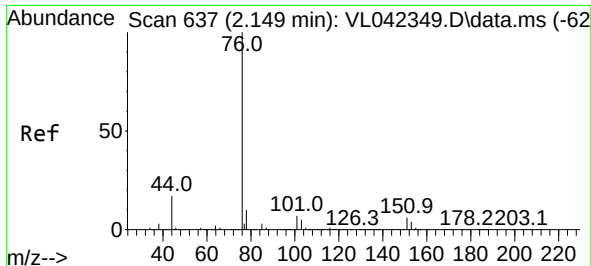
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2744  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 21.1     | 8.3 12.5#   |
| 61 6.4      | 7.3 10.9#   |
| 70 22.5     | 7.0 10.6#   |



#26  
Hexane  
Concen: 0.122 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 57 | Resp: | 2398   |
| Ion | Ratio   | Lower | Upper  |
| 57  | 100     |       |        |
| 41  | 125.7   | 77.9  | 116.9# |
| 43  | 191.2   | 208.4 | 312.6# |
| 56  | 74.0    | 43.1  | 64.7#  |





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.03

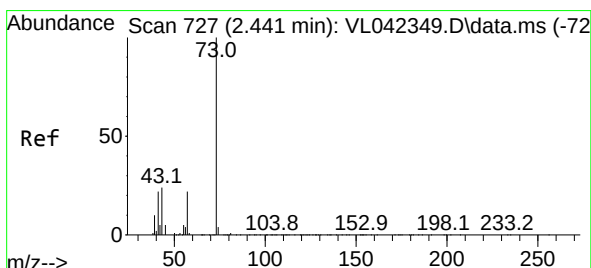
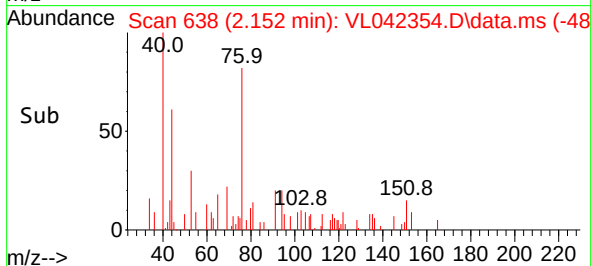
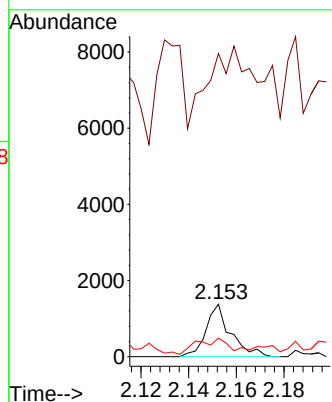
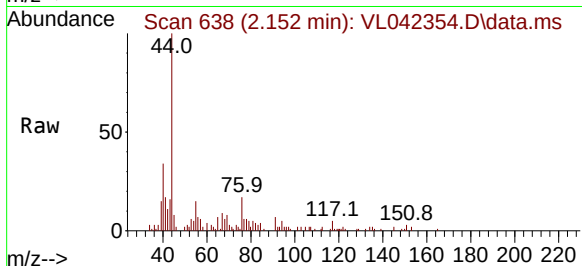
Tgt Ion: 76 Resp: 984

Ion Ratio Lower Upper

76 100

44 1141.4 15.5 23.3#

78 54.0 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 0.033 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.006 min

Lab File: VL042354.D

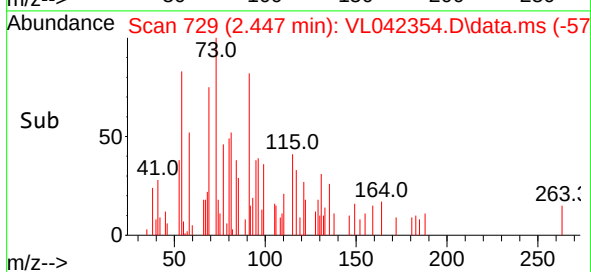
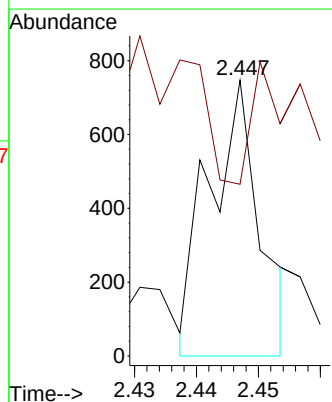
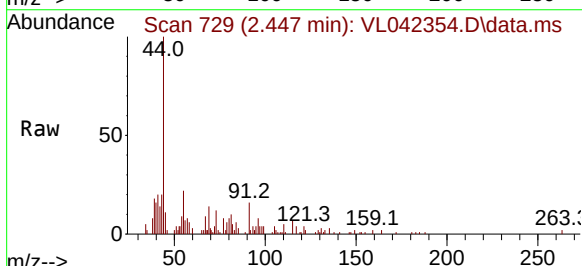
Acq: 17 Apr 2025 12:22

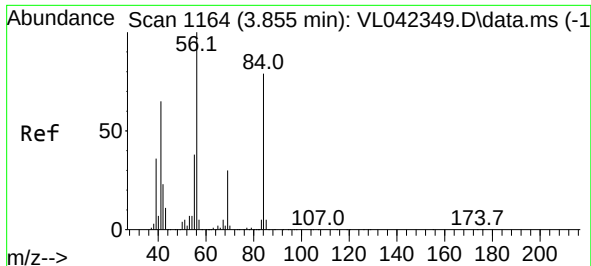
Tgt Ion: 73 Resp: 426

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#

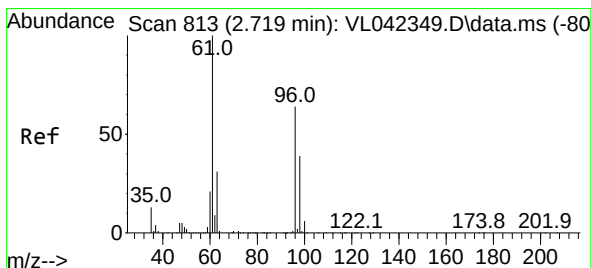
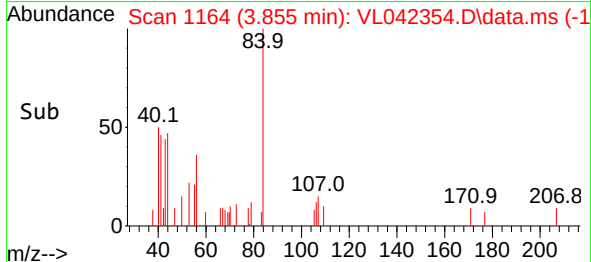
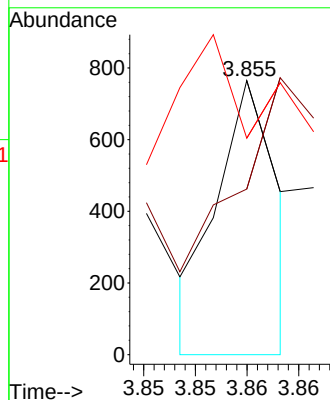
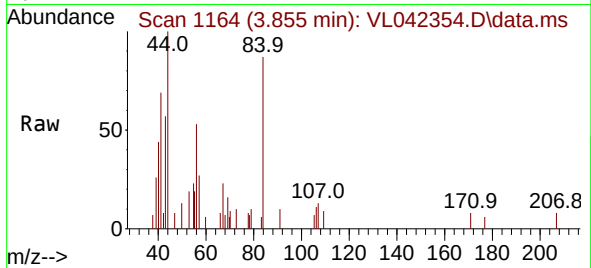




#30  
Cyclohexane  
Concen: 0.020 ppbv  
RT: 3.855 min Scan# 1164  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

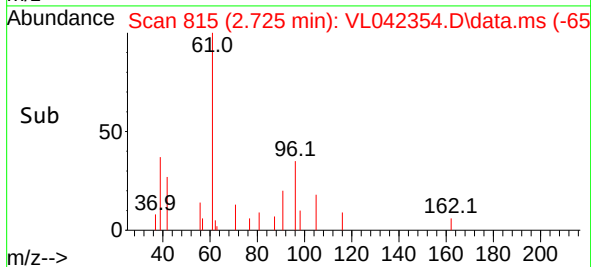
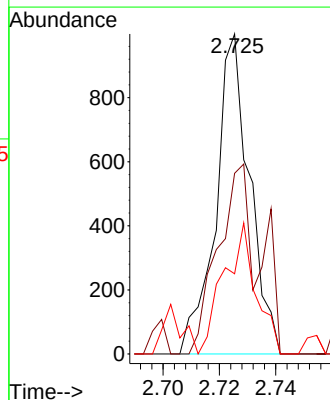
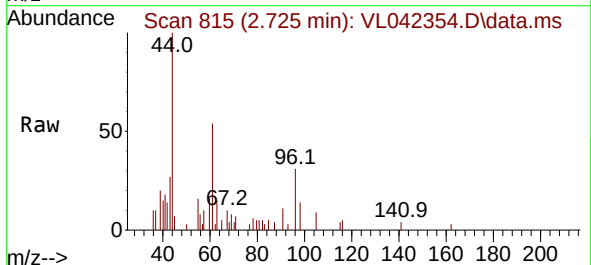
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

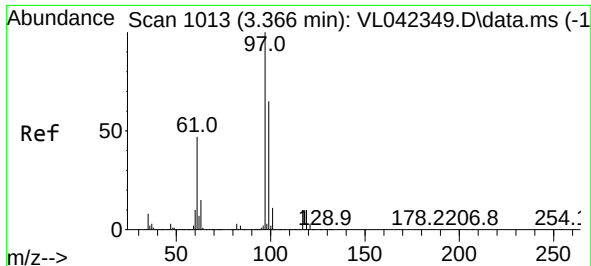
Tgt Ion: 84 Resp: 311  
Ion Ratio Lower Upper  
84 100  
56 0.0 101.0 151.4#  
41 0.0 67.4 101.0#



#31  
cis-1,2-Dichloroethene  
Concen: 0.045 ppbv  
RT: 2.725 min Scan# 815  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 61 Resp: 831  
Ion Ratio Lower Upper  
61 100  
96 56.5 50.8 76.2  
98 25.0 30.9 46.3#

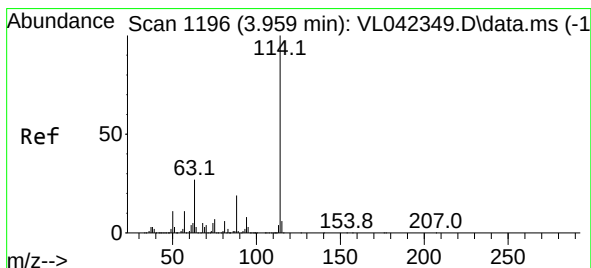
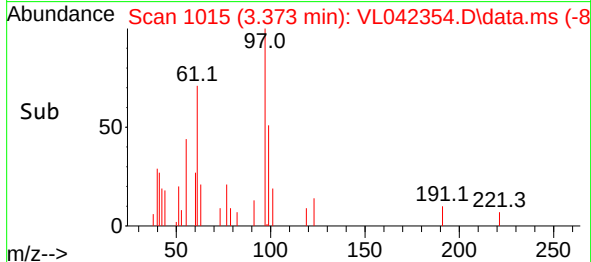
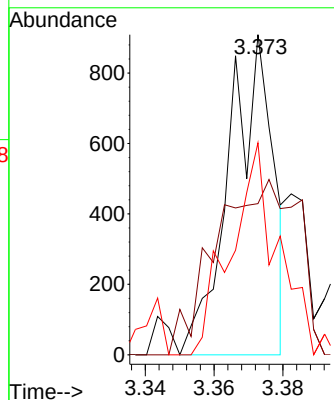
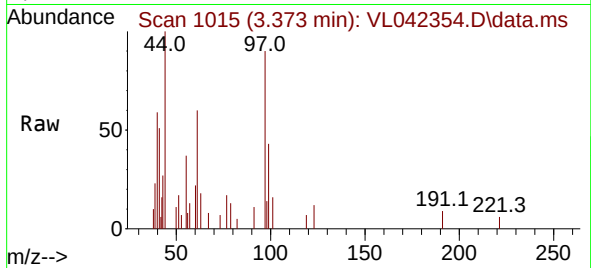




#32  
 1,1,1-Trichloroethane  
 Concen: 0.027 ppbv  
 RT: 3.373 min Scan# 1109  
 Delta R.T. 0.006 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

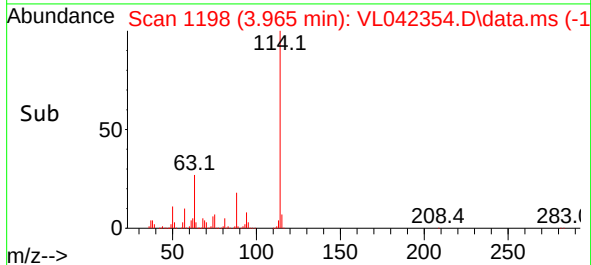
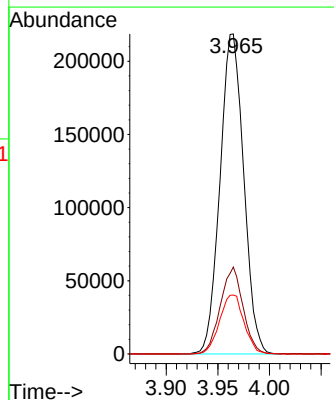
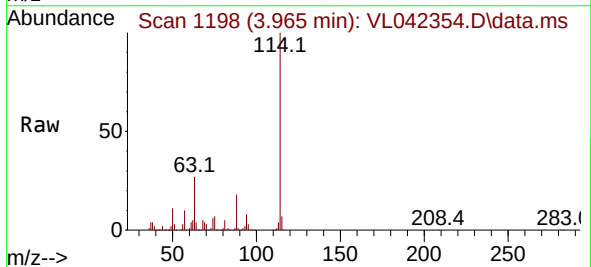
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC0.03

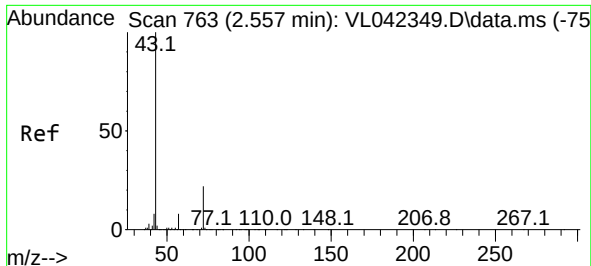
Tgt Ion: 97 Resp: 809  
 Ion Ratio Lower Upper  
 97 100  
 99 103.0 51.0 76.4#  
 61 78.7 38.8 58.2#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.965 min Scan# 1198  
 Delta R.T. 0.006 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Tgt Ion: 114 Resp: 349264  
 Ion Ratio Lower Upper  
 114 100  
 63 26.0 21.8 32.6  
 88 19.0 15.5 23.3

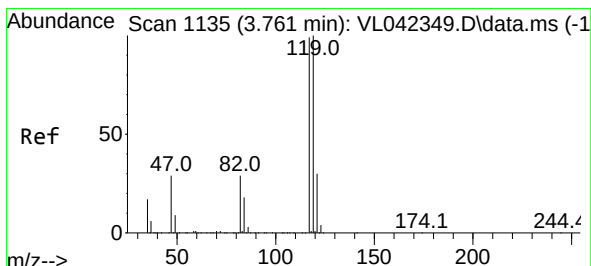
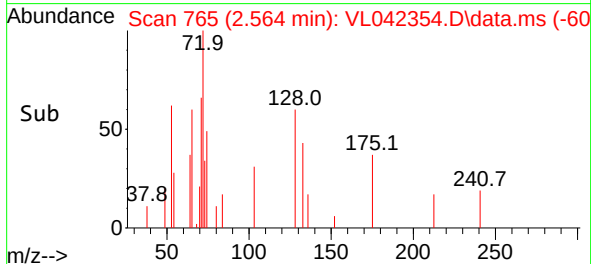
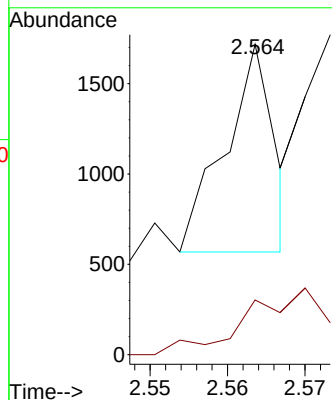
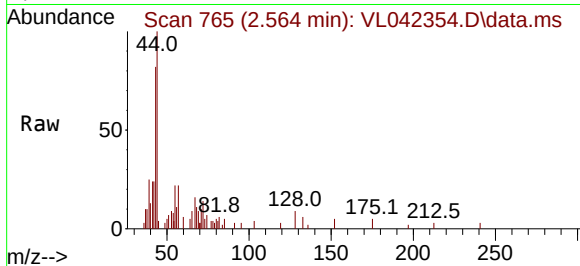




#34  
2-Butanone  
Concen: 0.018 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

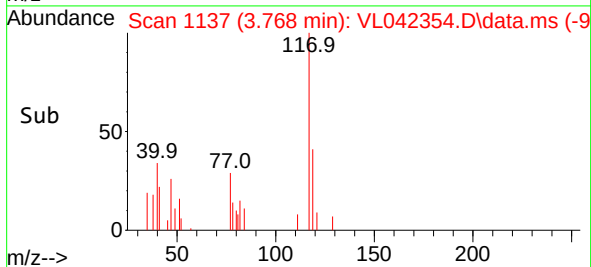
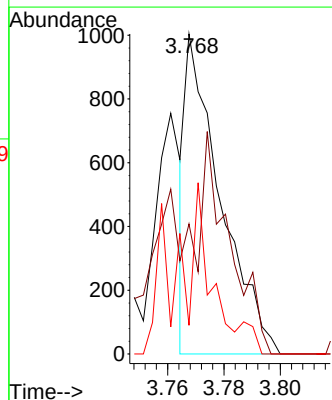
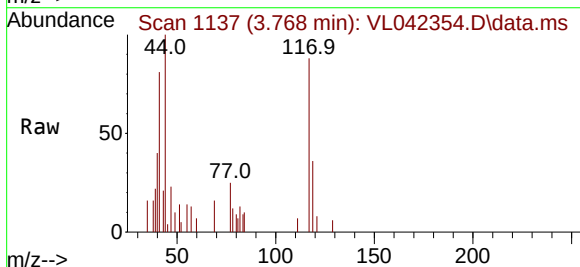
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

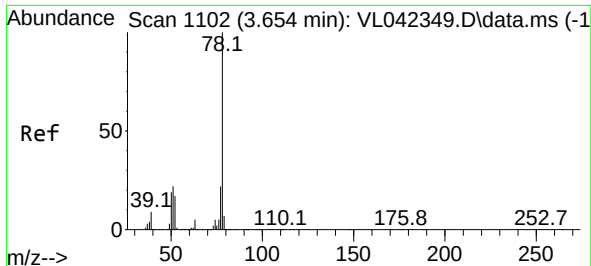
Tgt Ion: 43 Resp: 510  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.2 27.2#



#35  
Carbon Tetrachloride  
Concen: 0.027 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 117 Resp: 862  
Ion Ratio Lower Upper  
117 100  
119 40.6 80.5 120.7#  
121 9.0 24.2 36.2#

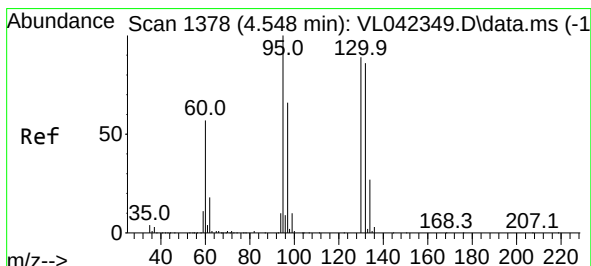
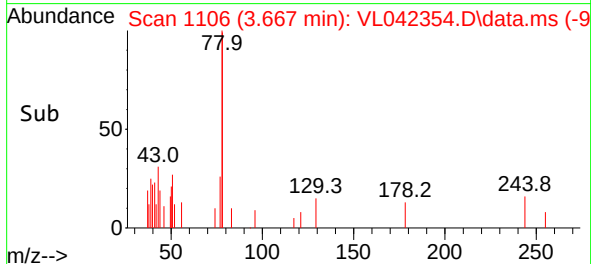
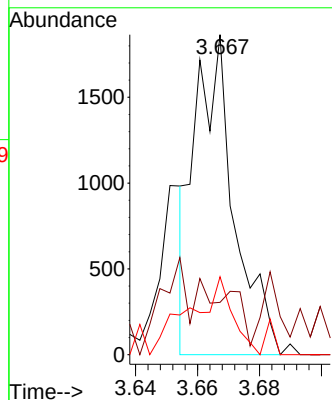
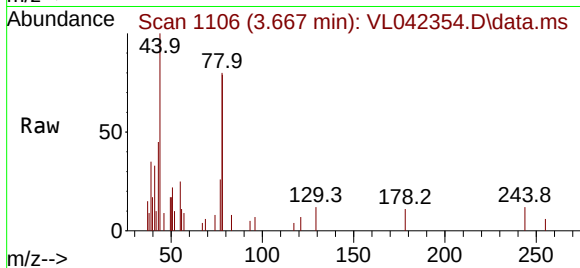




#36  
Benzene  
Concen: 0.043 ppbv  
RT: 3.667 min Scan# 1106  
Delta R.T. 0.013 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

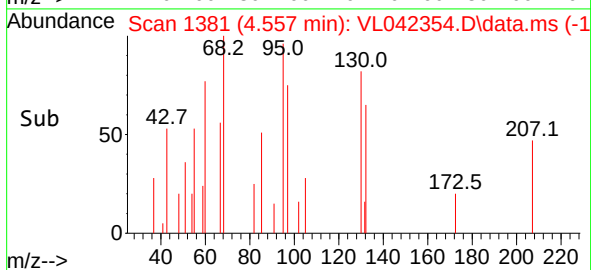
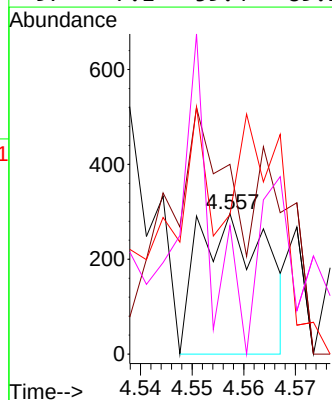
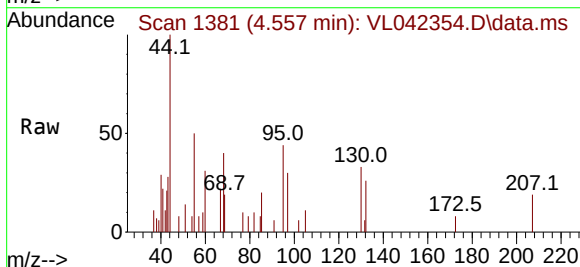
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

Tgt Ion: 78 Resp: 1629  
Ion Ratio Lower Upper  
78 100  
77 4.6 17.4 26.0#  
50 25.2 15.5 23.3#

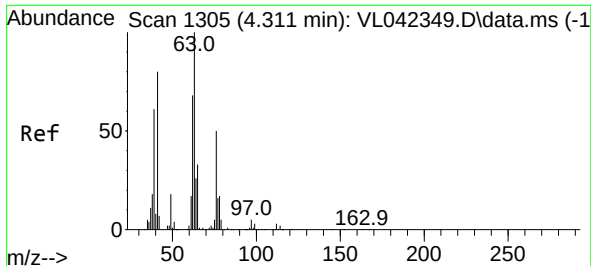


#38  
Trichloroethene  
Concen: 0.016 ppbv  
RT: 4.557 min Scan# 1381  
Delta R.T. 0.010 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 271  
Ion Ratio Lower Upper  
130 100  
95 44.6 89.8 134.6#  
132 19.6 77.7 116.5#  
97 7.1 59.4 89.2#







#39

1,2-Dichloropropane

Concen: 6.465 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

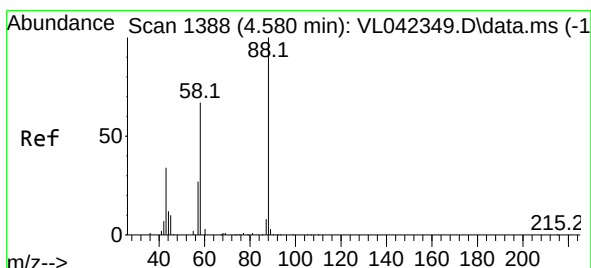
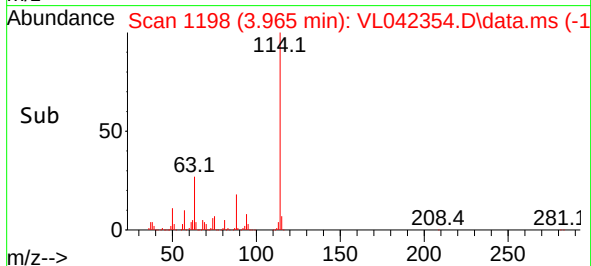
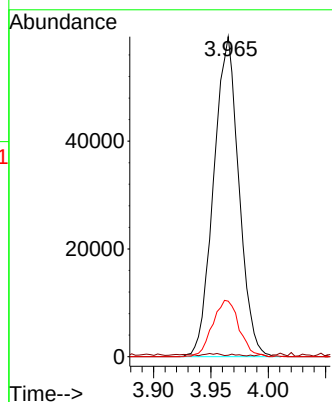
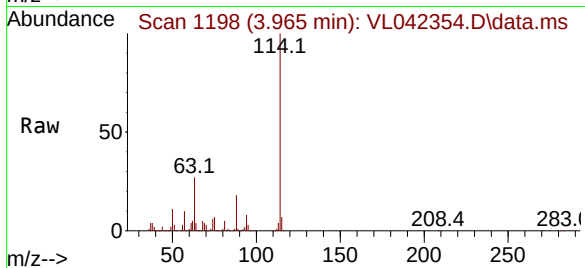
Tgt Ion: 63 Resp: 90827

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.4 54.3 81.5#



#40

1,4-Dioxane

Concen: 0.018 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.045 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 88 Resp: 139

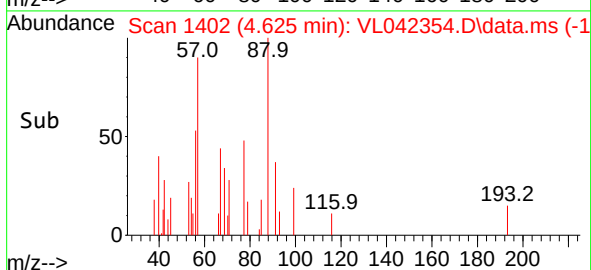
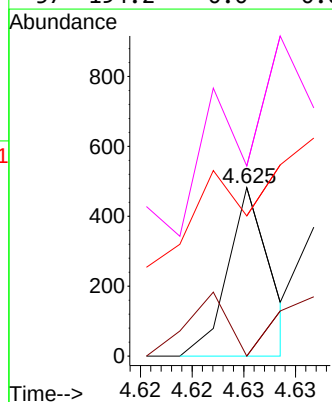
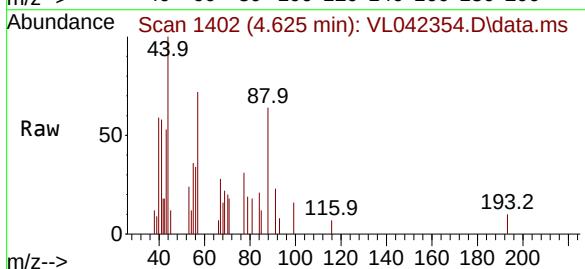
Ion Ratio Lower Upper

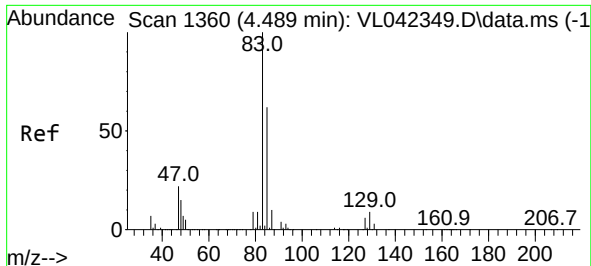
88 100

58 0.0 61.4 92.0#

43 251.8 23.2 34.8#

57 194.2 0.0 0.0#

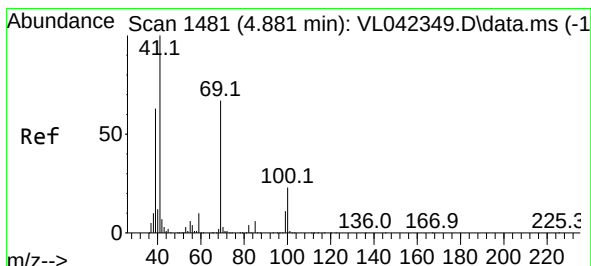
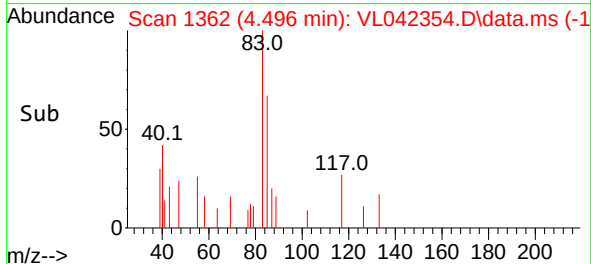
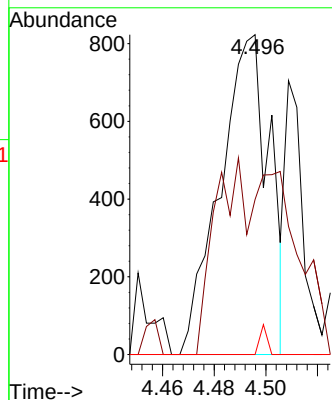
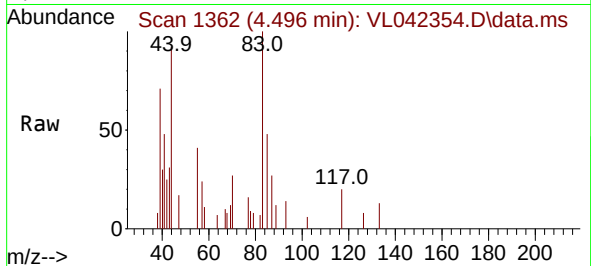




#42  
Bromodichloromethane  
Concen: 0.035 ppbv  
RT: 4.496 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

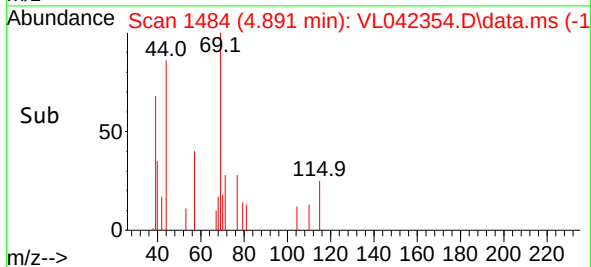
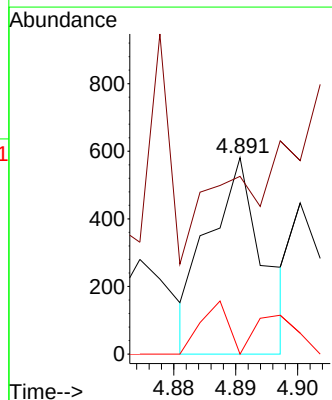
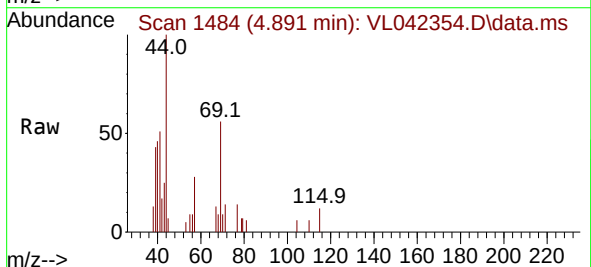
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

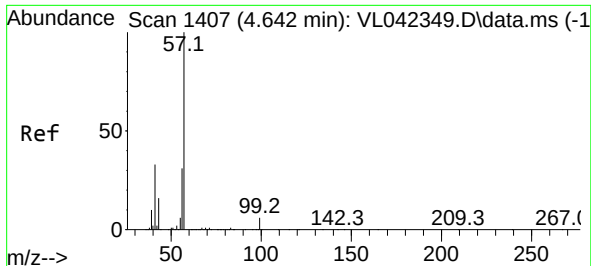
Tgt Ion: 83 Resp: 1093  
Ion Ratio Lower Upper  
83 100  
85 48.5 49.7 74.5#  
127 0.0 5.1 7.7#



#43  
Methyl Methacrylate  
Concen: 0.021 ppbv  
RT: 4.891 min Scan# 1484  
Delta R.T. 0.010 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 69 Resp: 354  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.6 177.8#  
100 40.7 28.2 42.2

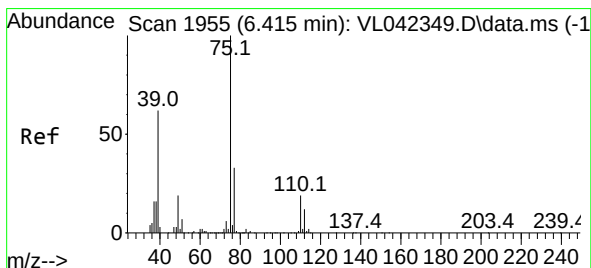
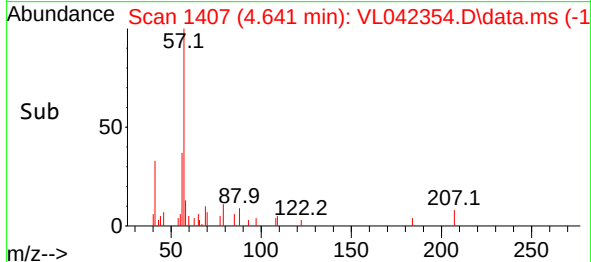
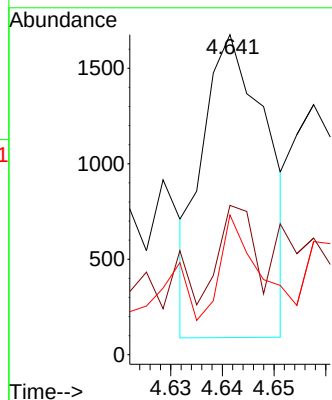
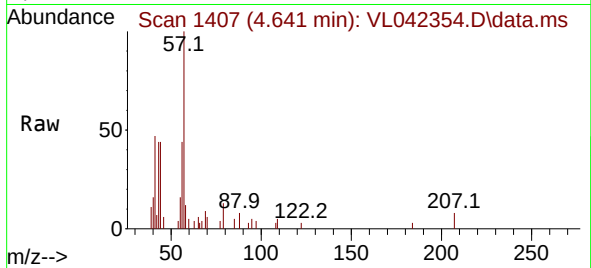




#44  
2,2,4-Trimethylpentane  
Concen: 0.021 ppbv  
RT: 4.641 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

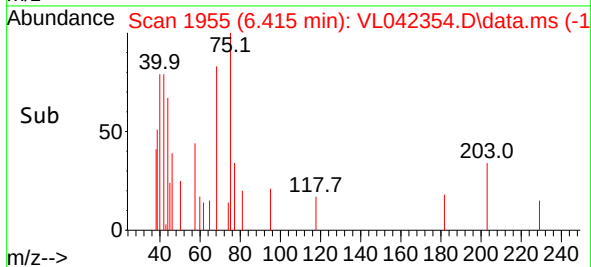
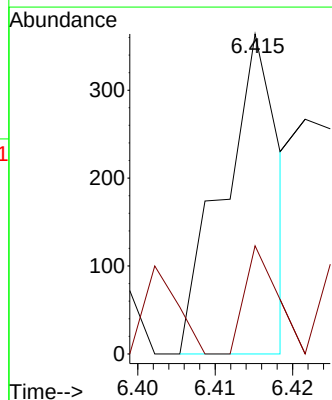
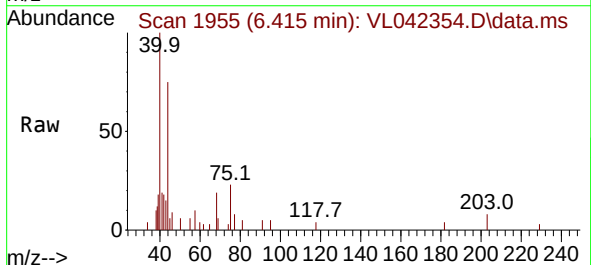
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

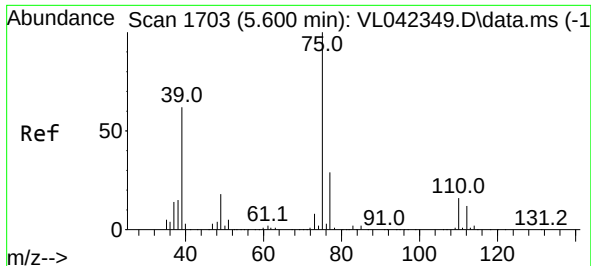
Tgt Ion: 57 Resp: 1377  
Ion Ratio Lower Upper  
57 100  
41 0.0 27.2 40.8#  
56 139.0 25.7 38.5#



#45  
t-1,3-Dichloropropene  
Concen: 0.011 ppbv  
RT: 6.415 min Scan# 1955  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183  
Ion Ratio Lower Upper  
75 100  
77 33.8 27.0 40.6

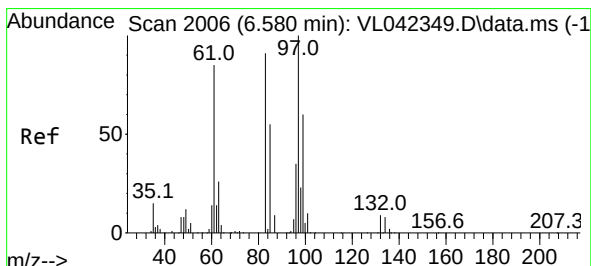
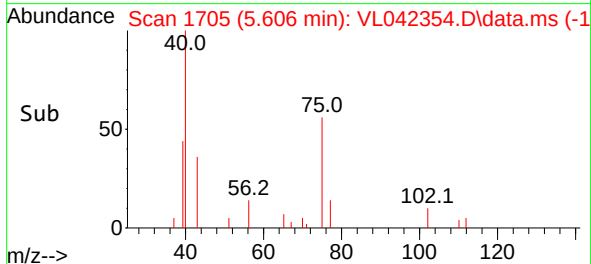
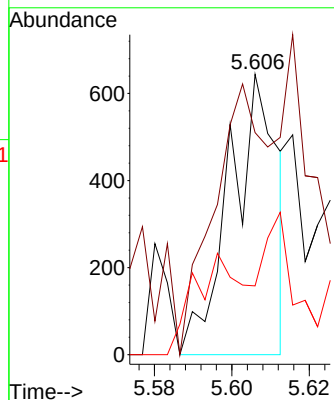
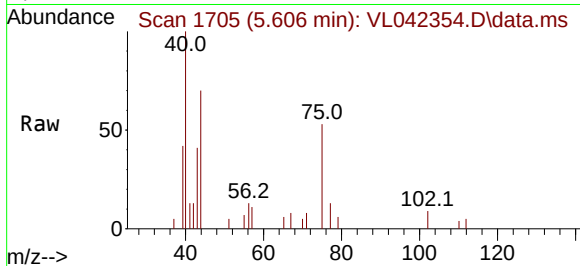




#46  
 cis-1,3-Dichloropropene  
 Concen: 0.026 ppbv  
 RT: 5.606 min Scan# 1  
 Delta R.T. 0.006 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

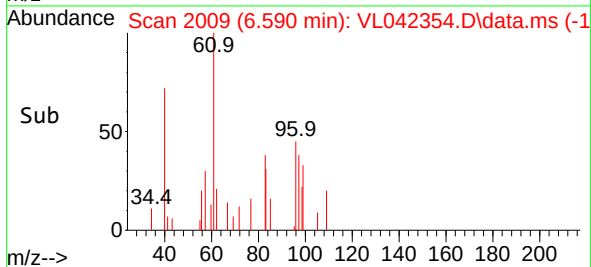
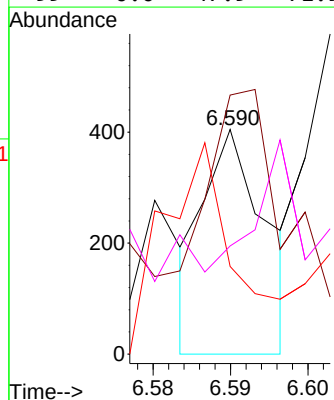
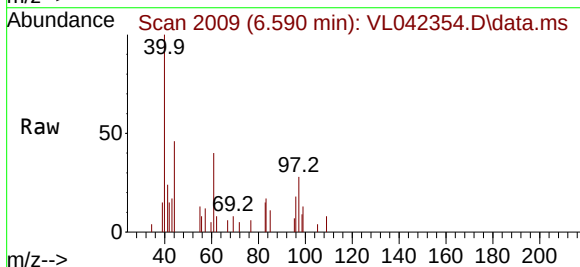
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

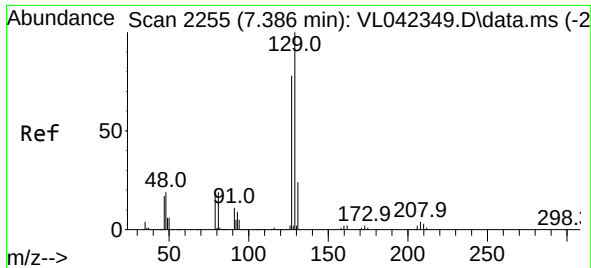
Tgt Ion: 75 Resp: 546  
 Ion Ratio Lower Upper  
 75 100  
 39 1.7 50.0 75.0#  
 77 13.7 23.0 34.6#



#47  
 1,1,2-Trichloroethane  
 Concen: 0.016 ppbv  
 RT: 6.590 min Scan# 2009  
 Delta R.T. 0.010 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 225  
 Ion Ratio Lower Upper  
 97 100  
 83 149.5 72.8 109.2#  
 85 27.8 44.2 66.4#  
 99 0.0 47.9 71.9#

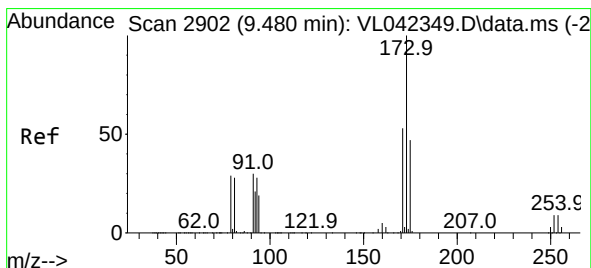
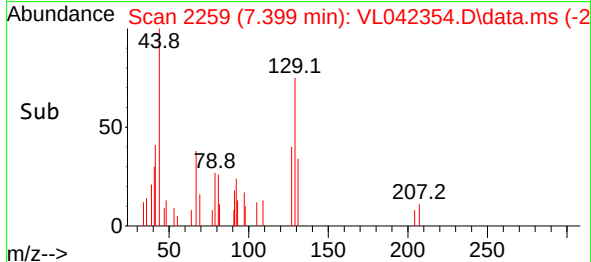
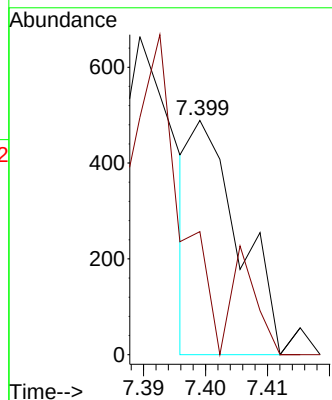
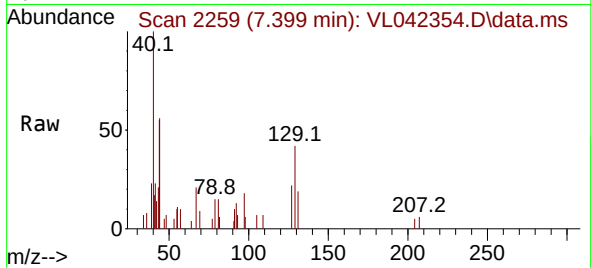




#48  
 Dibromochloromethane  
 Concen: 0.010 ppbv  
 RT: 7.399 min Scan# 21  
 Delta R.T. 0.013 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

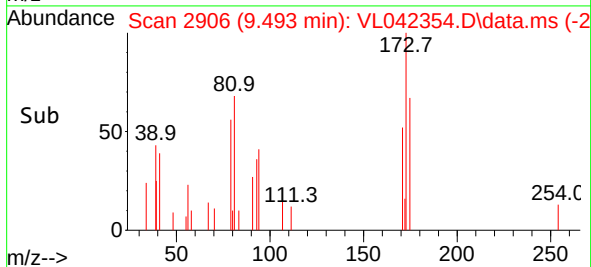
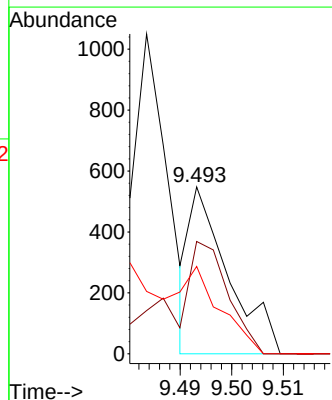
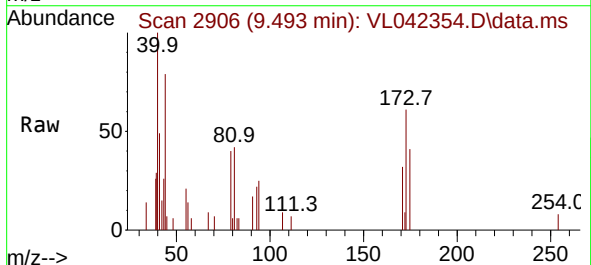
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

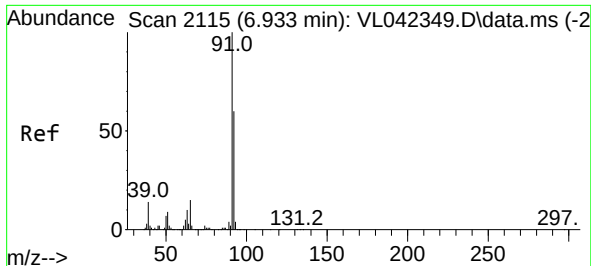
Tgt Ion:129 Resp: 258  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 39.1 117.3#



#49  
 Bromoform  
 Concen: 0.013 ppbv  
 RT: 9.493 min Scan# 2906  
 Delta R.T. 0.013 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Tgt Ion:173 Resp: 285  
 Ion Ratio Lower Upper  
 173 100  
 175 145.3 38.2 57.2#  
 171 11.9 40.9 61.3#





#53

Toluene

Concen: 0.010 ppbv

RT: 6.943 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_L

ClientSampleId :

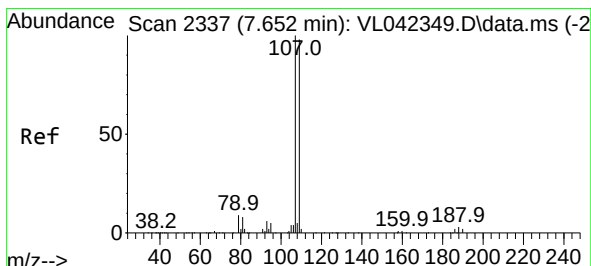
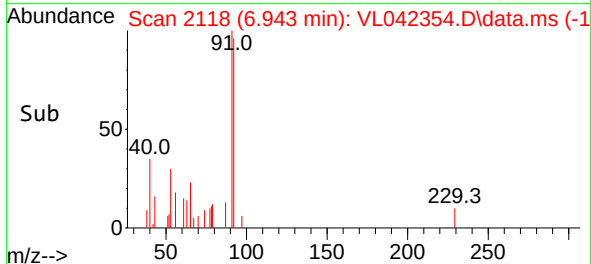
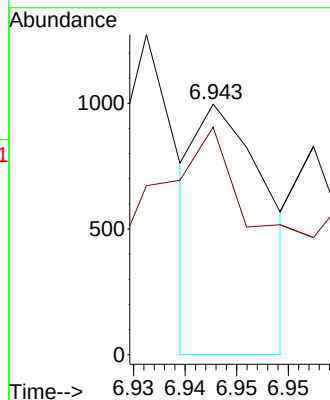
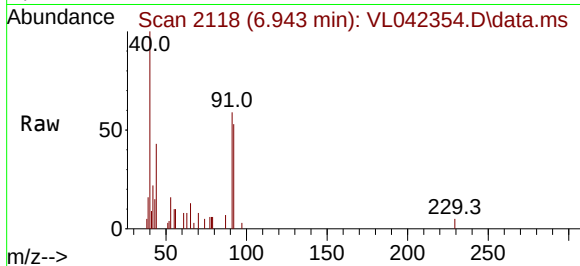
VSTDIC0.03

Tgt Ion: 91 Resp: 464

Ion Ratio Lower Upper

91 100

92 289.2 48.2 72.4#



#54

1,2-Dibromoethane

Concen: 0.021 ppbv

RT: 7.668 min Scan# 2342

Delta R.T. 0.016 min

Lab File: VL042354.D

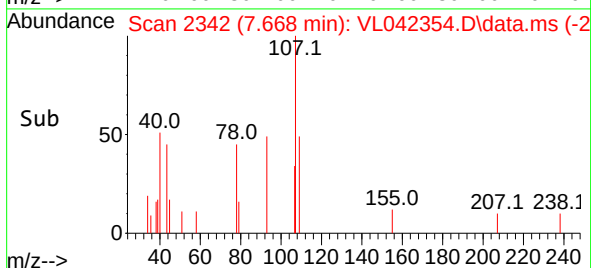
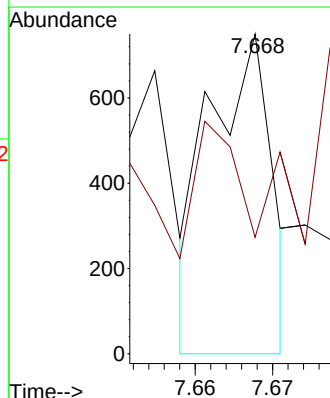
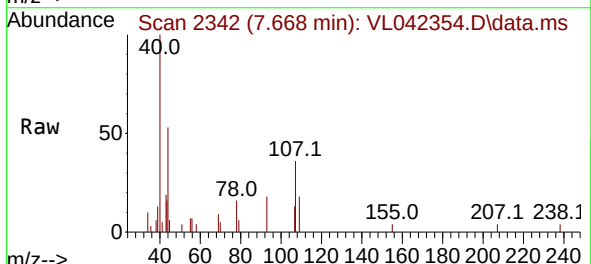
Acq: 17 Apr 2025 12:22

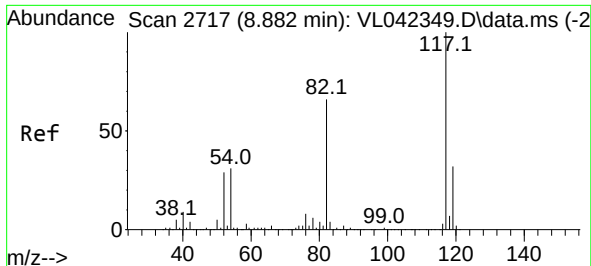
Tgt Ion: 107 Resp: 422

Ion Ratio Lower Upper

107 100

109 10.4 78.2 117.4#

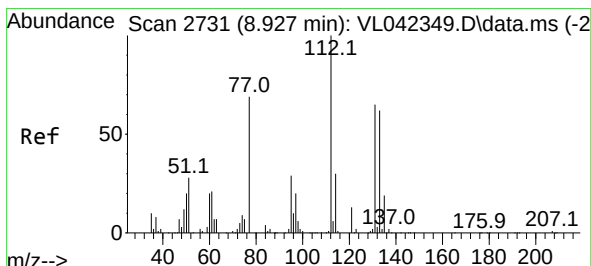
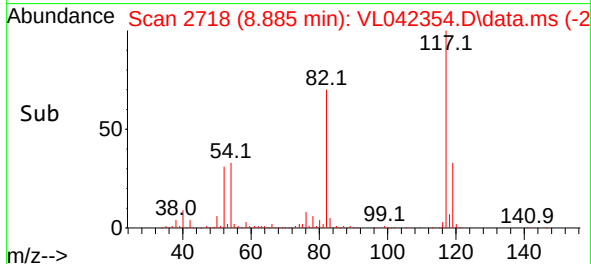
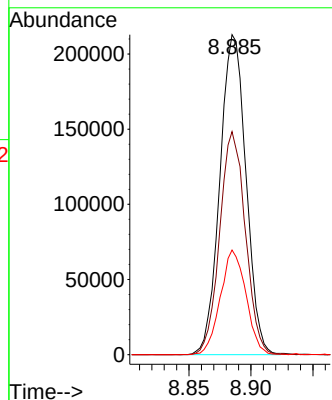
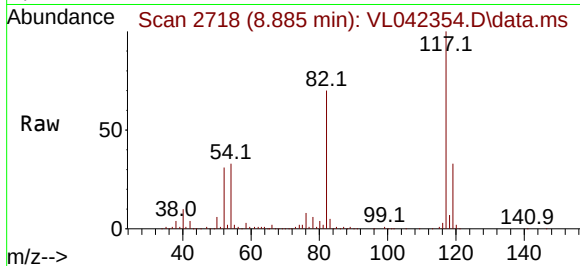




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2717  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

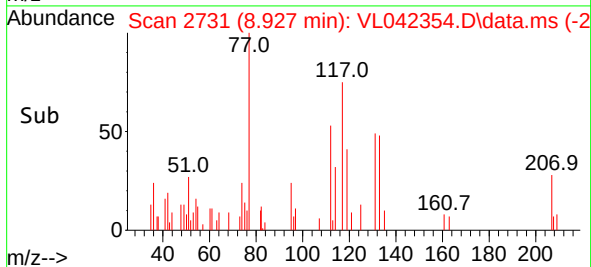
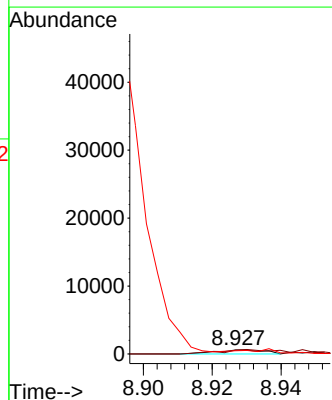
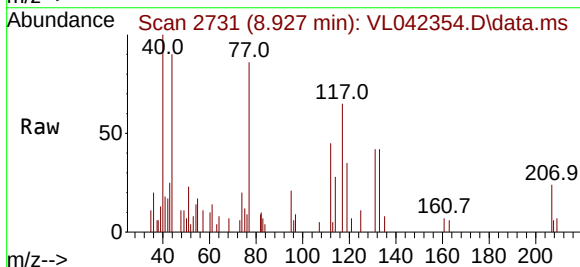
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

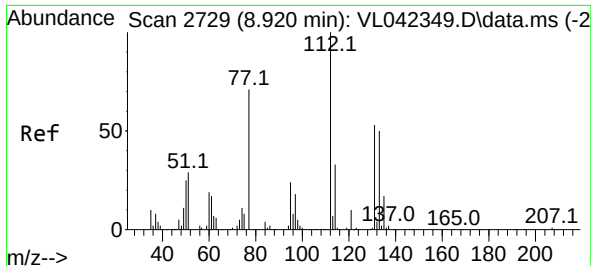
Tgt Ion:117 Resp: 312999  
Ion Ratio Lower Upper  
117 100  
82 68.5 57.8 86.6  
119 32.2 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.031 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion:131 Resp: 589  
Ion Ratio Lower Upper  
131 100  
133 185.9 78.3 117.5#  
119 17165.0 48.7 73.1#

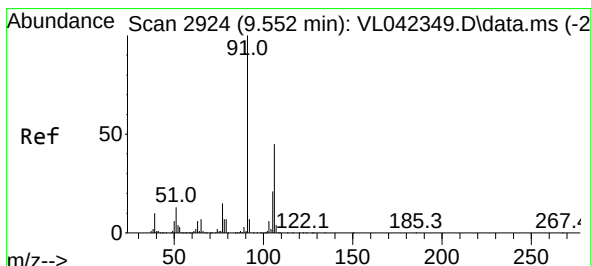
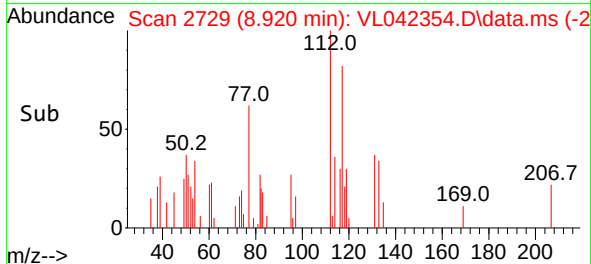
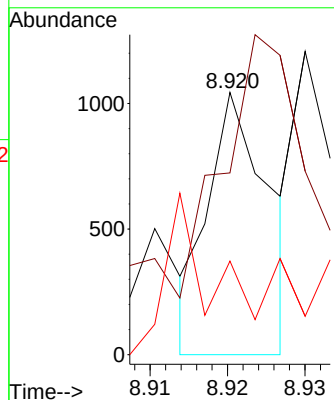
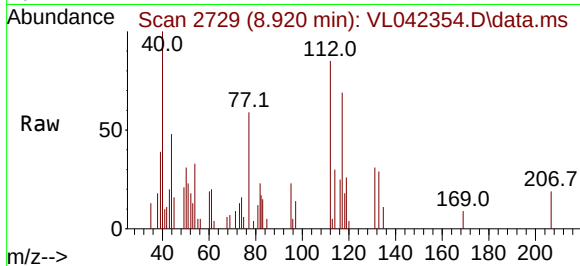




#57  
Chlorobenzene  
Concen: 0.017 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

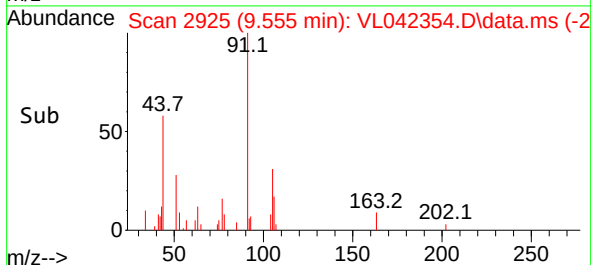
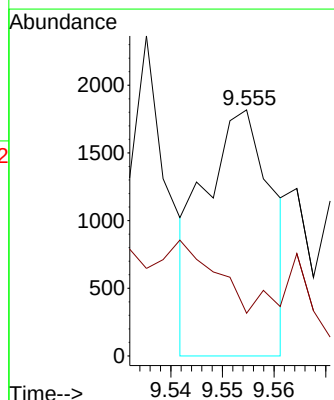
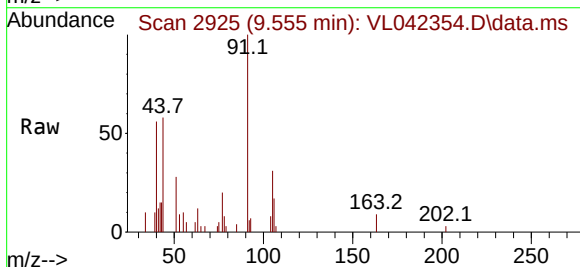
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 567   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 77       | 62.5  | 57.8  | 86.6  |
| 114      | 0.0   | 29.3  | 35.9# |

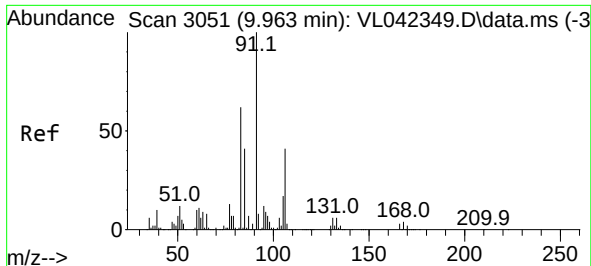


#59  
m/p-Xylene  
Concen: 0.033 ppbv  
RT: 9.555 min Scan# 2925  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 1648  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 0.0   | 35.4  | 53.2# |



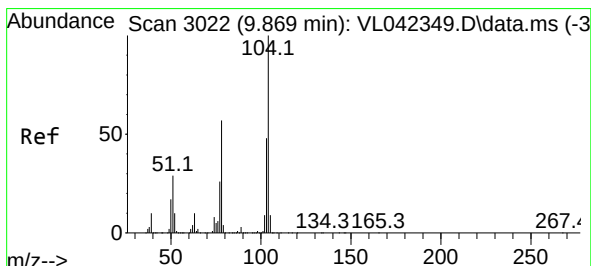
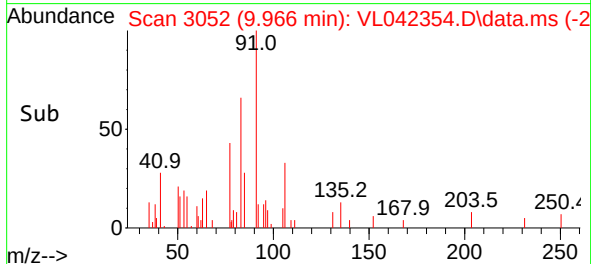
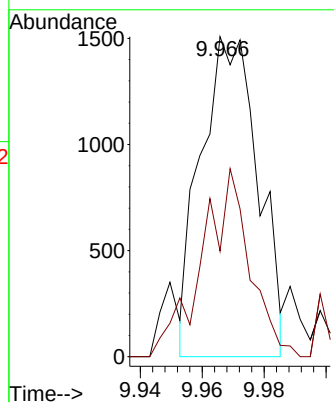
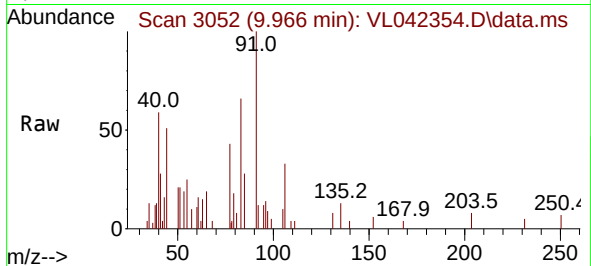




#60  
o-Xylene  
Concen: 0.039 ppbv  
RT: 9.966 min Scan# 3051  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

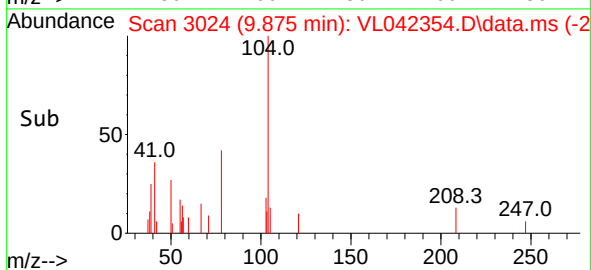
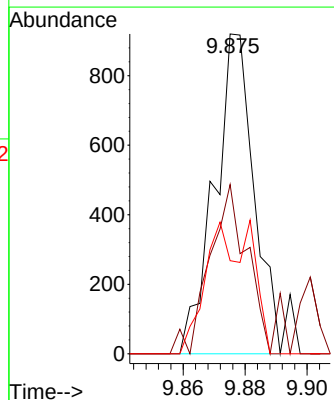
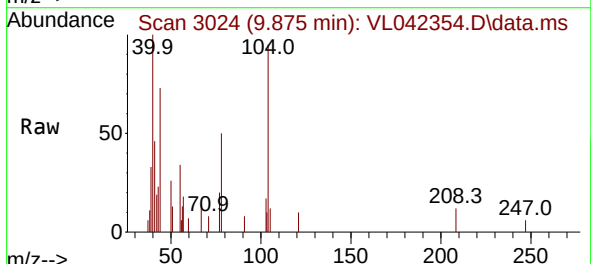
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

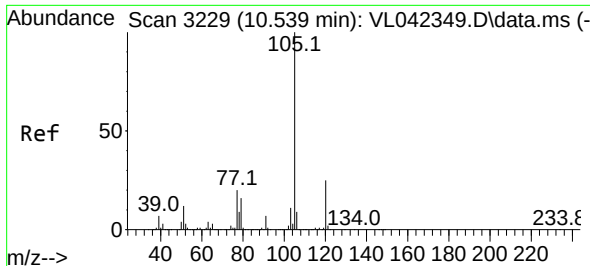
Tgt Ion: 91 Resp: 1938  
Ion Ratio Lower Upper  
91 100  
106 52.6 21.1 63.4



#61  
Styrene  
Concen: 0.034 ppbv  
RT: 9.875 min Scan# 3024  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 104 Resp: 813  
Ion Ratio Lower Upper  
104 100  
78 64.9 44.6 66.8  
103 47.1 37.4 56.0

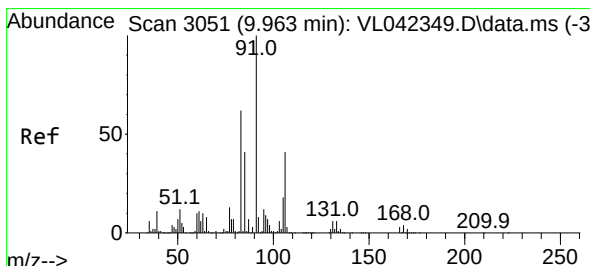
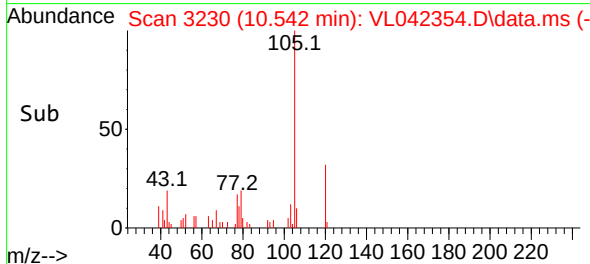
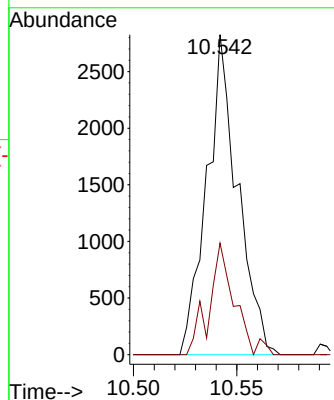
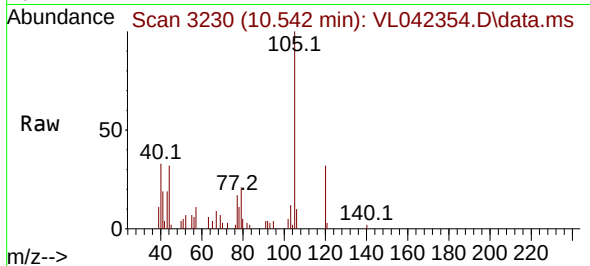




#62  
Isopropylbenzene  
Concen: 0.040 ppbv  
RT: 10.542 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

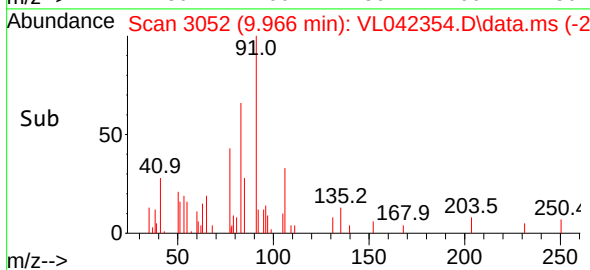
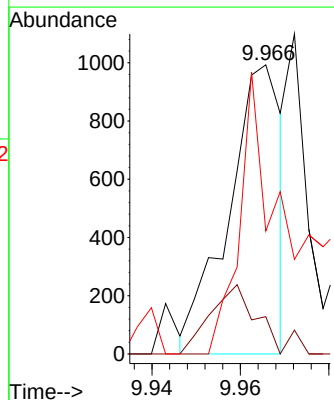
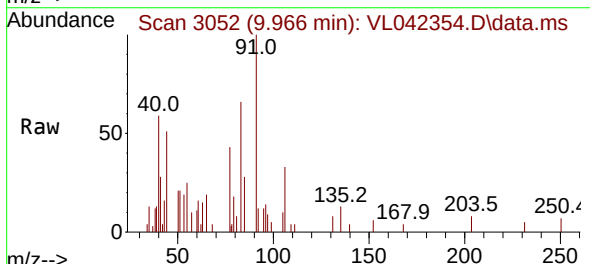
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

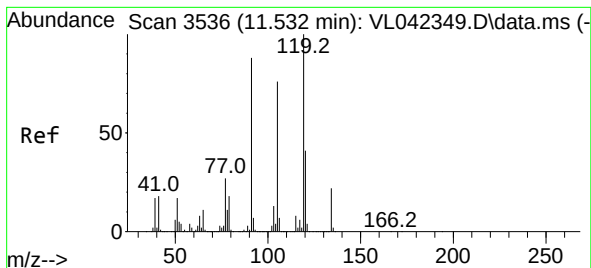
Tgt Ion:105 Resp: 2934  
Ion Ratio Lower Upper  
105 100  
120 28.8 19.8 29.8



#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.025 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 826  
Ion Ratio Lower Upper  
83 100  
131 22.3 4.5 13.7#  
85 98.2 32.4 97.0#





#65

tert-Butylbenzene

Concen: 0.039 ppbv

RT: 11.536 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

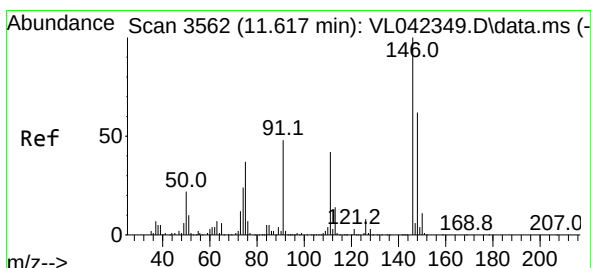
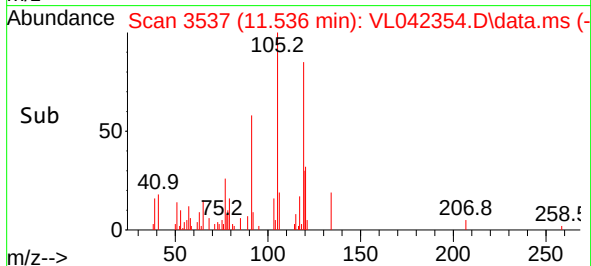
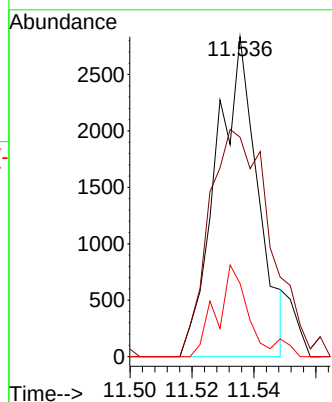
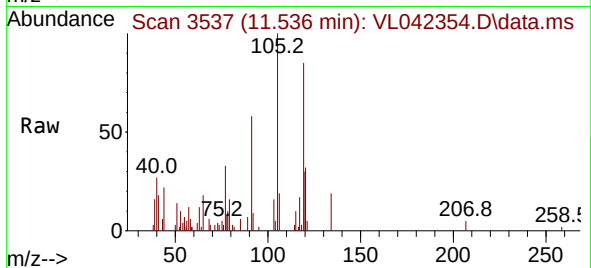
Tgt Ion:119 Resp: 2656

Ion Ratio Lower Upper

119 100

91 104.4 74.6 111.8

134 22.5 18.8 28.2



#66

Benzyl Chloride

Concen: 0.017 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

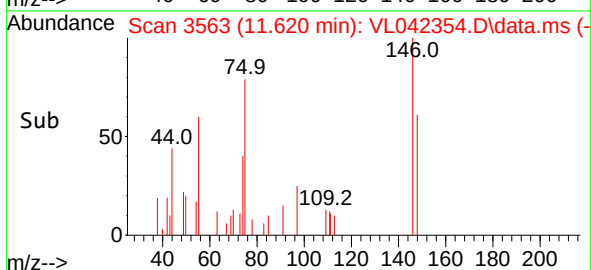
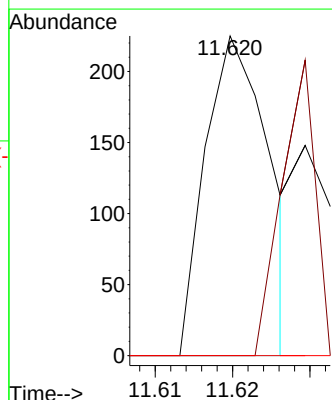
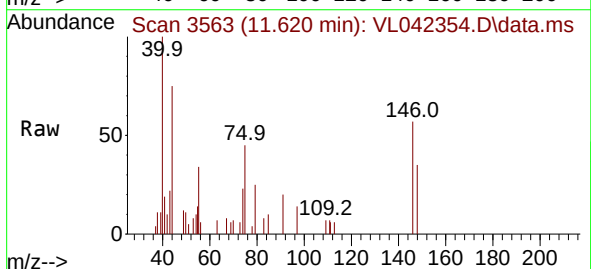
Tgt Ion: 91 Resp: 130

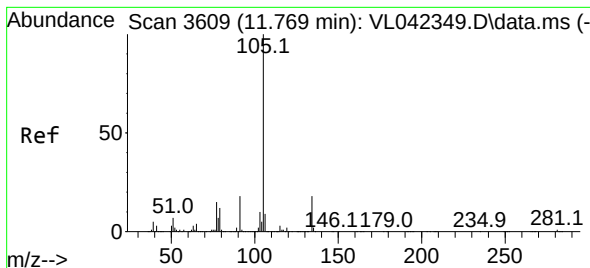
Ion Ratio Lower Upper

91 100

126 0.0 11.8 17.6#

128 0.0 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.039 ppbv

RT: 11.772 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_1

ClientSampleId :

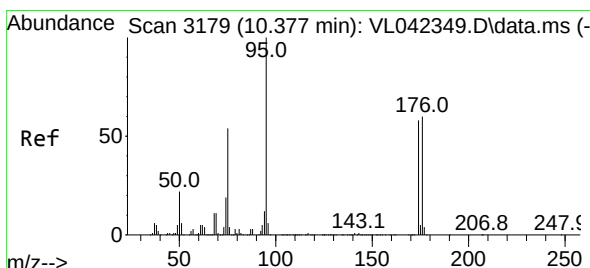
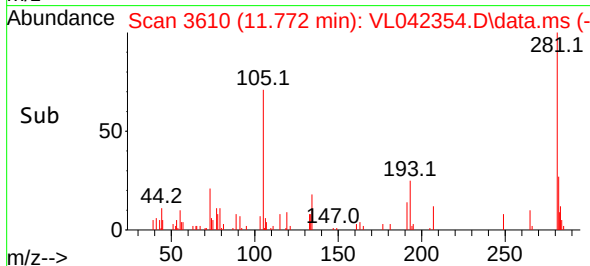
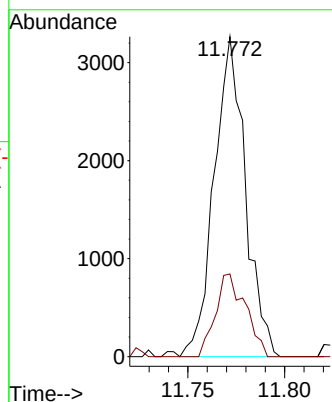
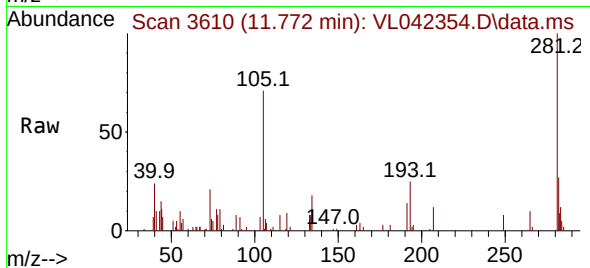
VSTDIC0.03

Tgt Ion:105 Resp: 3658

Ion Ratio Lower Upper

105 100

134 24.8 14.6 21.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.962 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

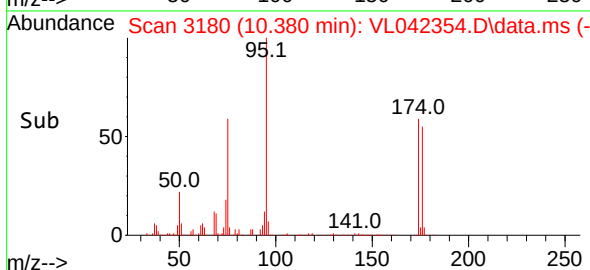
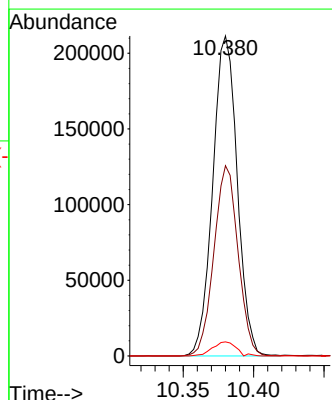
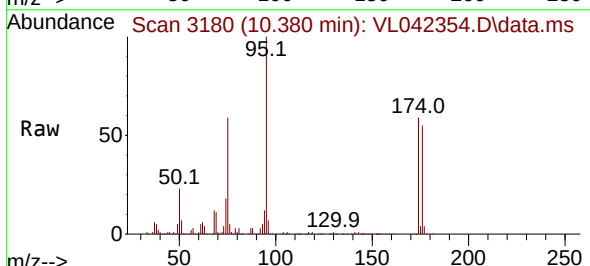
Tgt Ion: 95 Resp: 256230

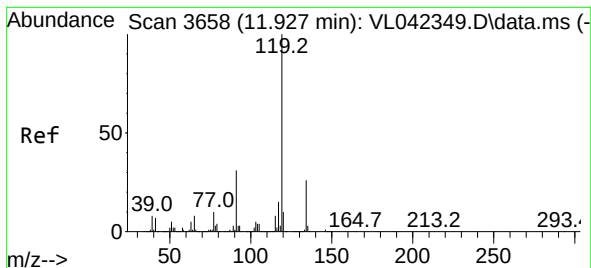
Ion Ratio Lower Upper

95 100

174 58.6 48.5 72.7

175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.038 ppbv

RT: 11.930 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

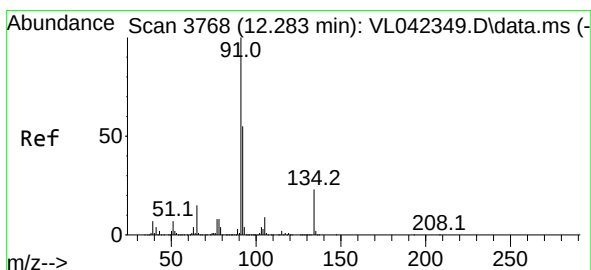
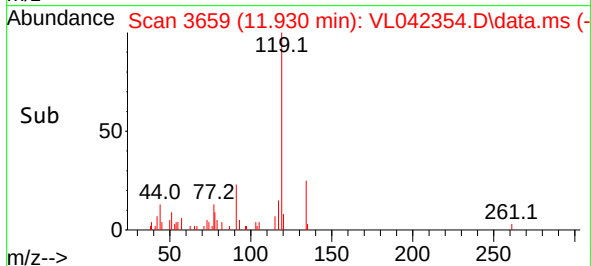
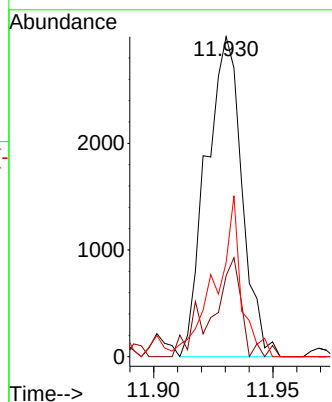
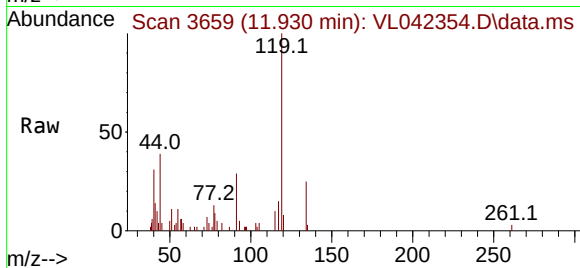
Tgt Ion:119 Resp: 3139

Ion Ratio Lower Upper

119 100

134 25.9 20.0 30.0

91 35.7 24.4 36.6



#70

n-Butylbenzene

Concen: 0.029 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

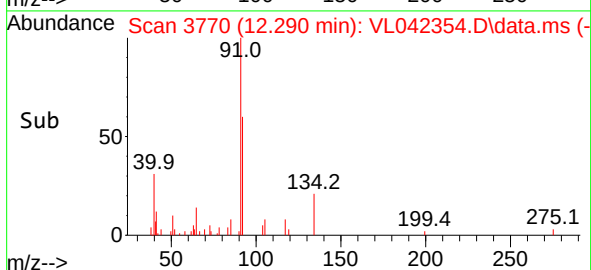
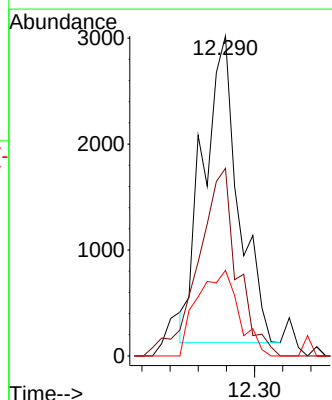
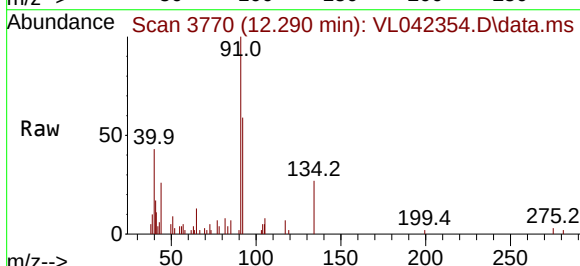
Tgt Ion: 91 Resp: 2516

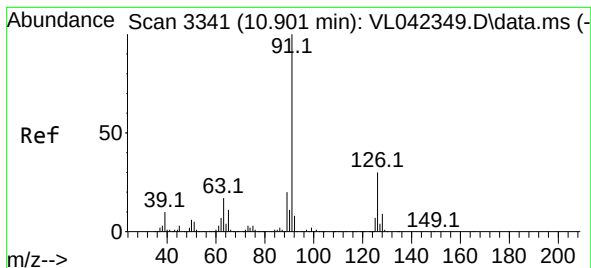
Ion Ratio Lower Upper

91 100

92 67.4 44.2 66.4#

134 34.4 18.2 27.4#

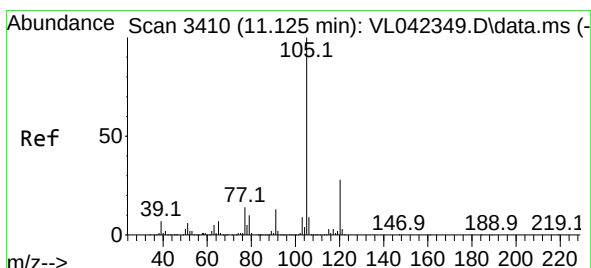
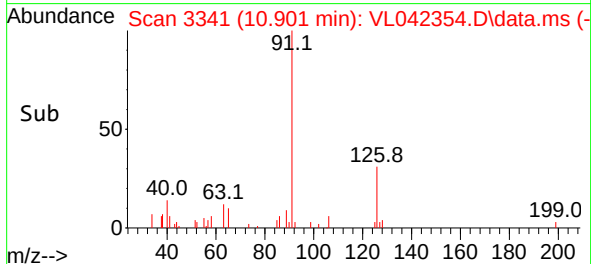
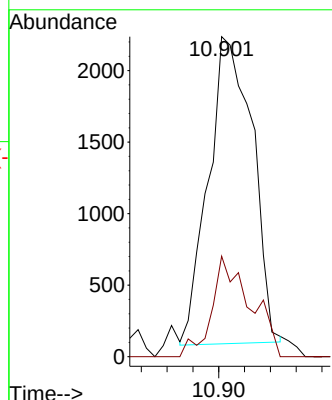
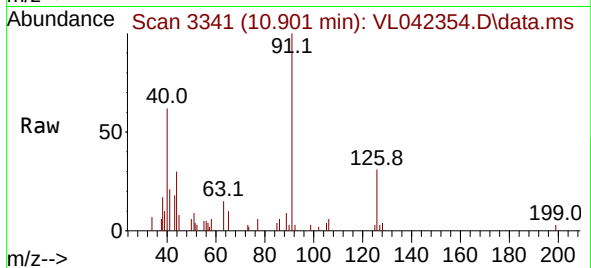




#71  
2-Chlorotoluene  
Concen: 0.044 ppbv  
RT: 10.901 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

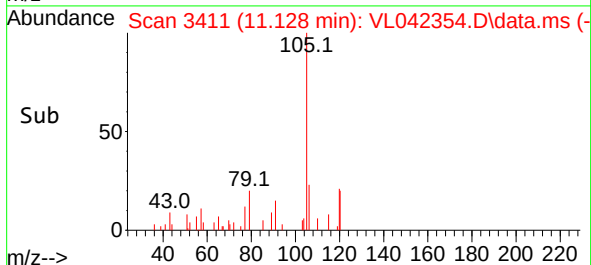
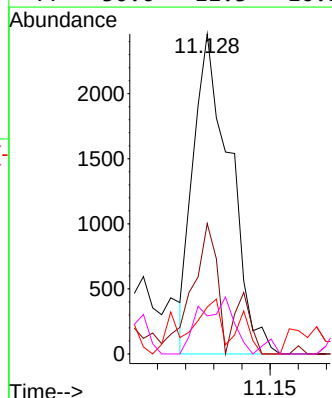
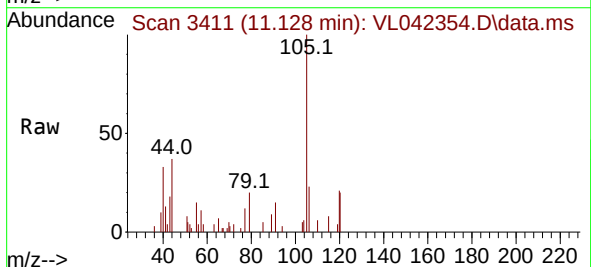
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

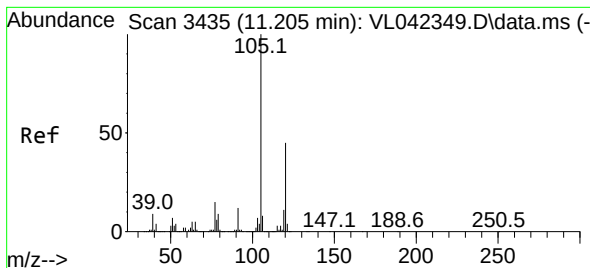
Tgt Ion: 91 Resp: 2537  
Ion Ratio Lower Upper  
91 100  
126 28.7 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 0.036 ppbv  
RT: 11.128 min Scan# 3411  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 2221  
Ion Ratio Lower Upper  
105 100  
120 47.5 23.2 34.8#  
91 8.3 10.4 15.6#  
77 30.6 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA\_1

ClientSampleId :

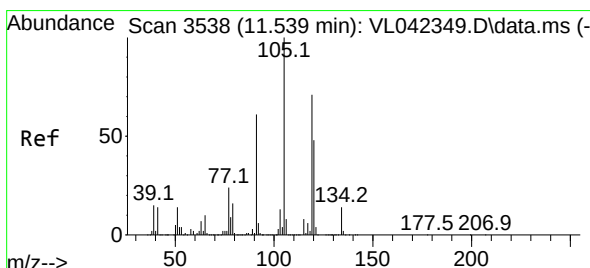
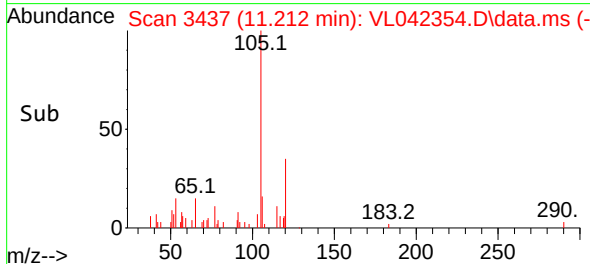
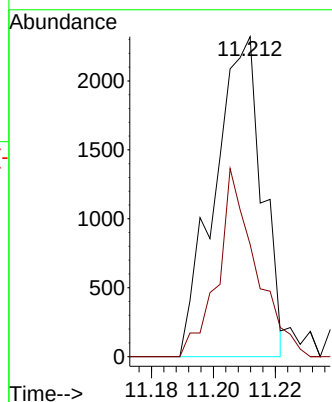
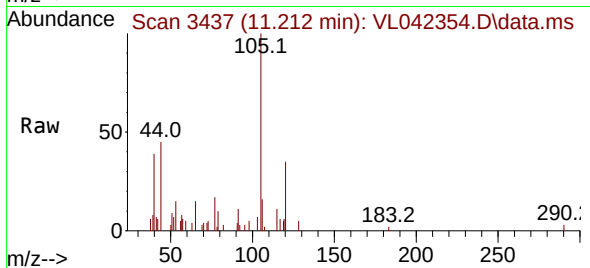
VSTDIC0.03

Tgt Ion:105 Resp: 2473

Ion Ratio Lower Upper

105 100

120 35.1 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.068 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 4320

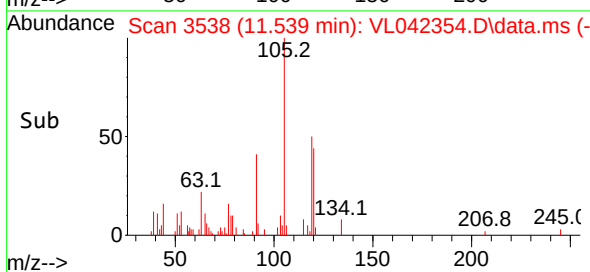
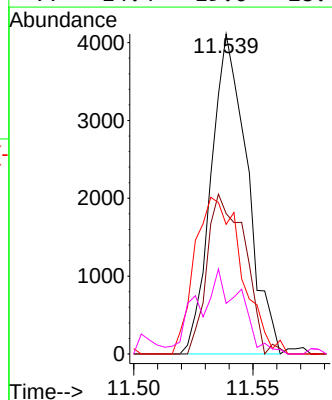
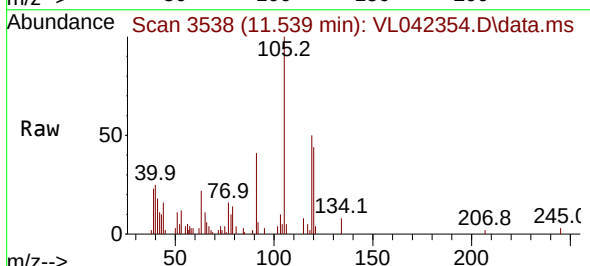
Ion Ratio Lower Upper

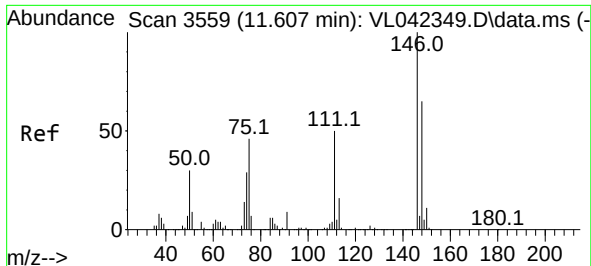
105 100

120 43.9 38.1 57.1

91 36.2 48.8 73.2#

77 14.4 19.0 28.4#

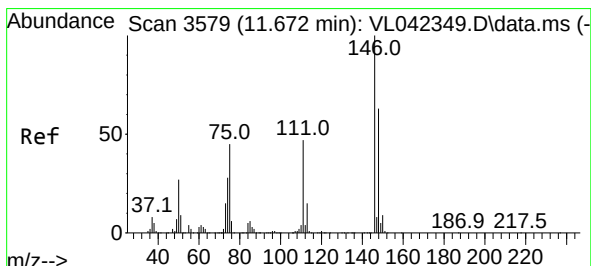
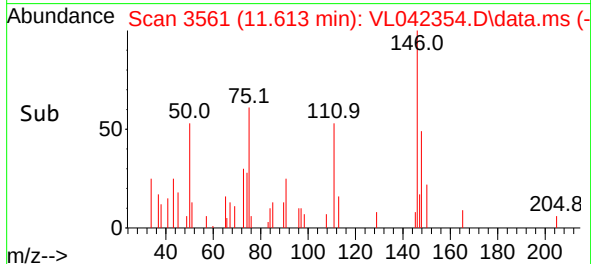
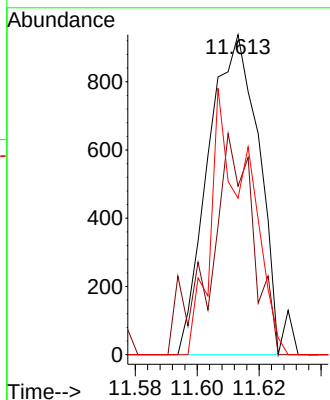
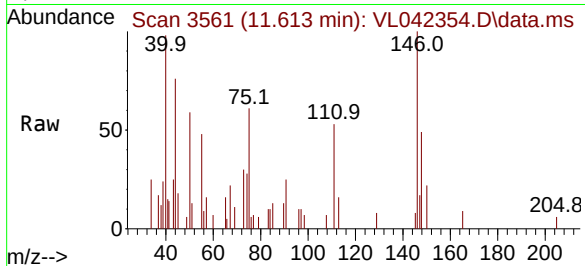




#75  
1,3-Dichlorobenzene  
Concen: 0.032 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

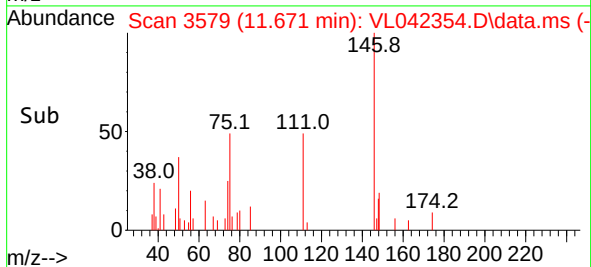
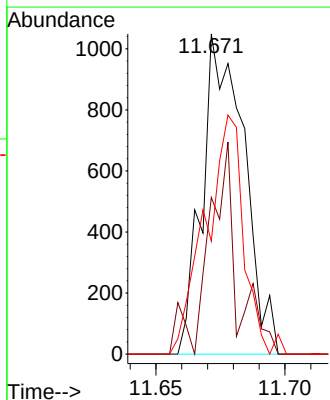
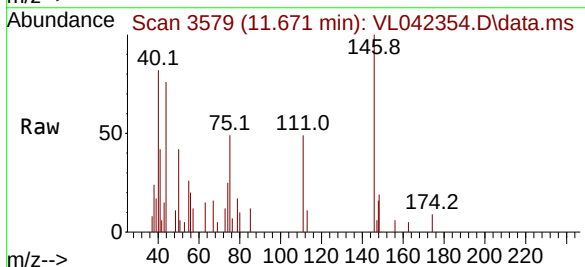
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Tgt Ion:146 Resp: 1056  
Ion Ratio Lower Upper  
146 100  
111 61.1 24.3 72.8  
148 62.4 31.6 94.8

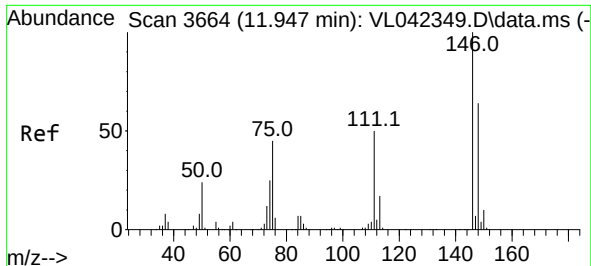


#76  
1,4-Dichlorobenzene  
Concen: 0.036 ppbv  
RT: 11.671 min Scan# 3579  
Delta R.T. -0.000 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion:146 Resp: 1180  
Ion Ratio Lower Upper  
146 100  
111 45.4 24.2 72.6  
148 68.3 32.1 96.5



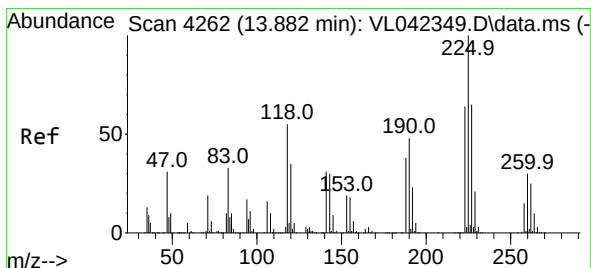
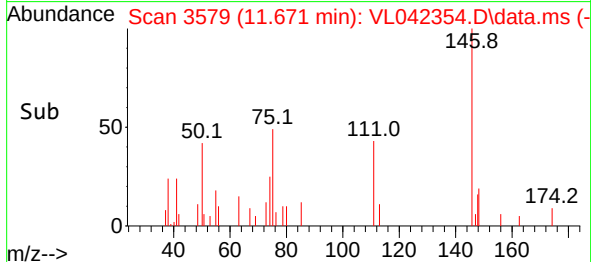
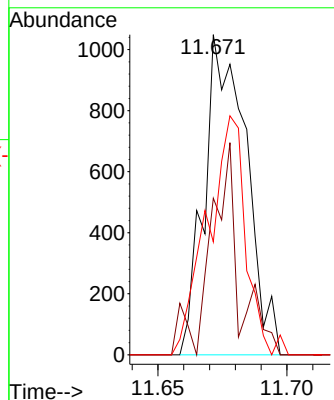
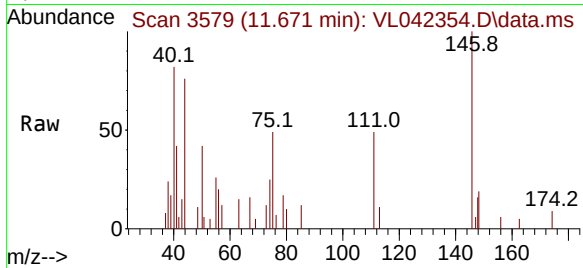




#77  
1,2-Dichlorobenzene  
Concen: 0.037 ppbv  
RT: 11.671 min Scan# 3  
Delta R.T. -0.275 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

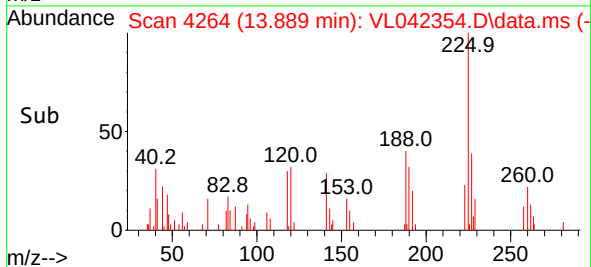
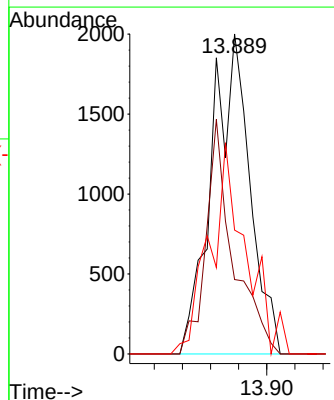
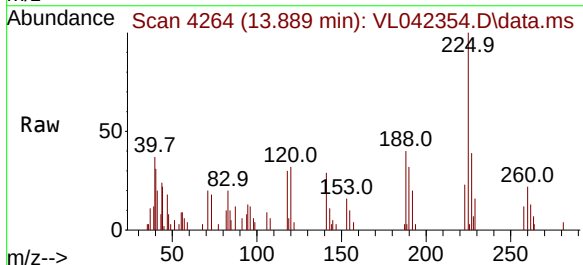
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

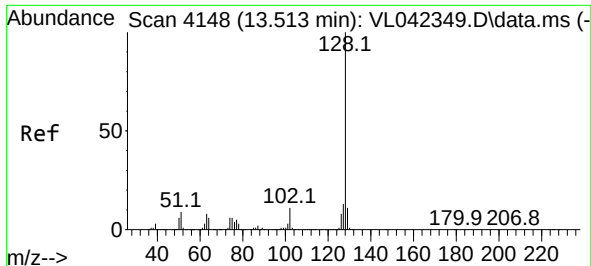
Tgt Ion:146 Resp: 1180  
Ion Ratio Lower Upper  
146 100  
111 45.4 25.3 75.9  
148 68.3 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.058 ppbv  
RT: 13.889 min Scan# 4264  
Delta R.T. 0.006 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

Tgt Ion:225 Resp: 1879  
Ion Ratio Lower Upper  
225 100  
223 52.2 50.3 75.5  
227 62.5 51.5 77.3

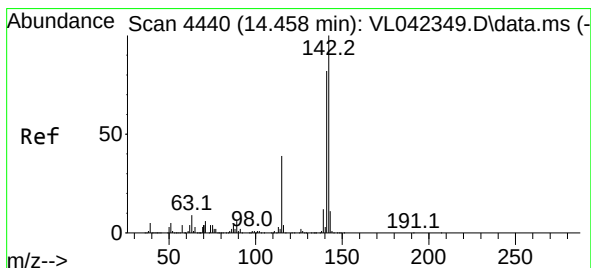
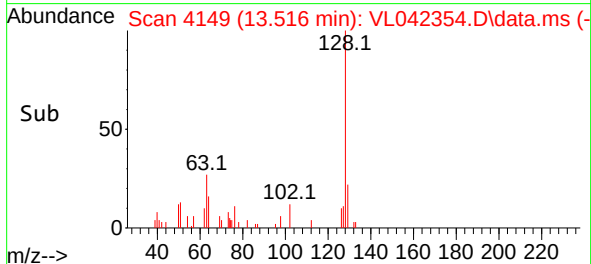
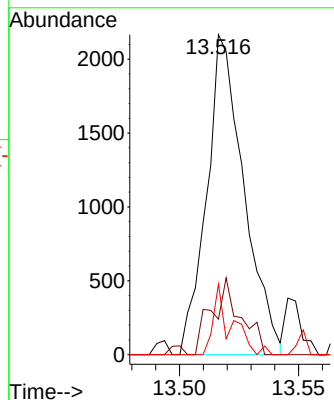
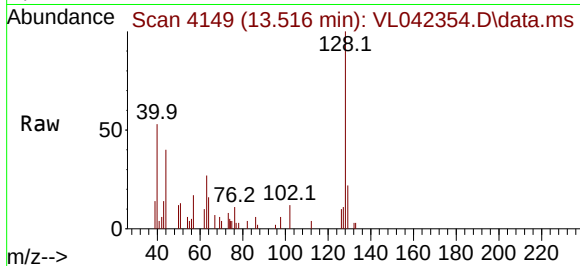




#79  
Naphthalene  
Concen: 0.031 ppbv  
RT: 13.516 min Scan# 4148  
Delta R.T. 0.003 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

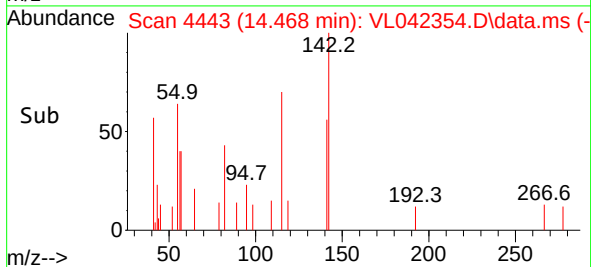
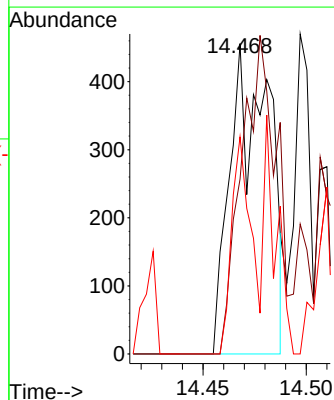
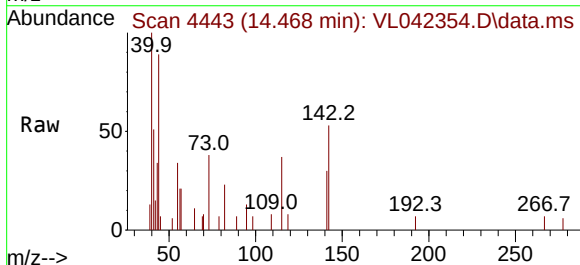
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

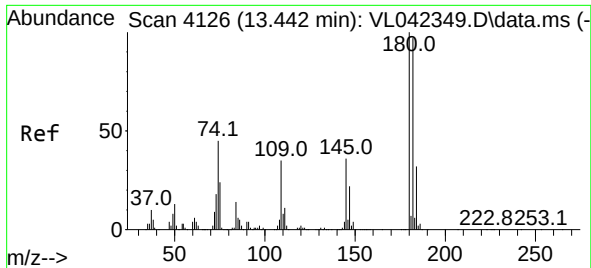
Tgt Ion:128 Resp: 2354  
Ion Ratio Lower Upper  
128 100  
127 11.1 10.6 15.8  
129 22.1 8.6 12.8#



#80  
Naphthalene,2-methyl-  
Concen: 0.014 ppbv  
RT: 14.468 min Scan# 4443  
Delta R.T. 0.010 min  
Lab File: VL042354.D  
Acq: 17 Apr 2025 12:22

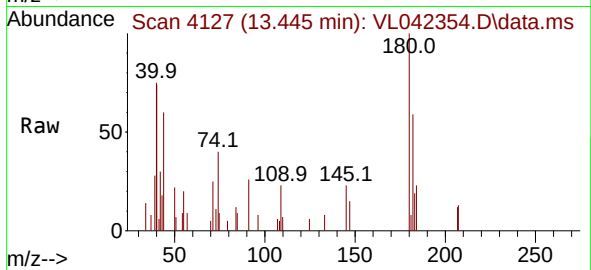
Tgt Ion:142 Resp: 594  
Ion Ratio Lower Upper  
142 100  
141 136.0 66.8 100.2#  
115 59.1 33.4 50.2#



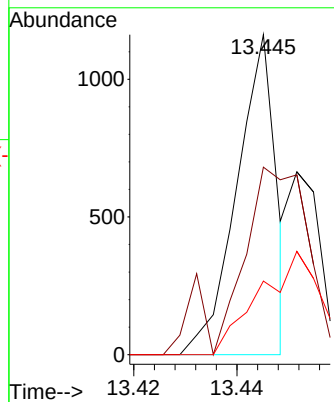
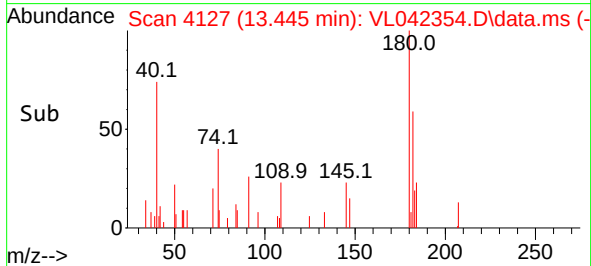


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.019 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL042354.D  
 Acq: 17 Apr 2025 12:22

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03



Tgt Ion:180 Resp: 614  
 Ion Ratio Lower Upper  
 180 100  
 182 116.4 76.8 115.2#  
 184 0.0 24.6 36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042355.D  
 Acq On : 17 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Apr 18 01:31:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 116071   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 332080   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 308463   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 254437   | 10.038   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.400% |

| Target Compounds              |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 292784 | 14.277 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 280042 | 14.341 | ppbv   | 98     |
| 4) Chloromethane              | 1.532 | 50  | 115775 | 14.266 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 112650 | 12.752 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 52805  | 13.800 | ppbv   | 88     |
| 7) Chloroethane               | 1.703 | 64  | 44347  | 13.881 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 255029 | 14.484 | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 123102 | 13.842 | ppbv   | 95     |
| 10) Heptane                   | 4.979 | 43  | 336134 | 14.047 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.875 | 101 | 278059 | 14.258 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 230366 | 14.447 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45  | 6324   | 8.702  | ppbv   | 76     |
| 14) Bromoethene               | 1.781 | 108 | 84851  | 14.117 | ppbv   | 99     |
| 15) Acetone                   | 1.833 | 43  | 229086 | 12.056 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 117997 | 13.224 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 320605 | 13.615 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 107666 | 14.045 | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 139004 | 13.169 | ppbv   | 94     |
| 20) Methylene Chloride        | 2.059 | 84  | 91093  | 12.241 | ppbv   | 90     |
| 21) Allyl Chloride            | 2.095 | 41  | 187995 | 14.329 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 118492 | 13.970 | ppbv   | 94     |
| 23) Vinyl Acetate             | 2.460 | 43  | 106135 | 13.799 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 235466 | 14.615 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.836 | 43  | 663644 | 14.166 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 260975 | 13.765 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.150 | 76  | 299098 | 14.734 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.438 | 73  | 174855 | 14.076 | ppbv   | 95     |
| 29) Chloroform                | 2.849 | 83  | 385686 | 14.393 | ppbv   | 99     |
| 30) Cyclohexane               | 3.855 | 84  | 217375 | 14.238 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 264972 | 14.700 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.367 | 97  | 412537 | 14.357 | ppbv   | 99     |
| 34) 2-Butanone                | 2.558 | 43  | 367315 | 13.986 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.762 | 117 | 409916 | 13.639 | ppbv   | 94     |
| 36) Benzene                   | 3.655 | 78  | 522156 | 14.578 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.218 | 62  | 319517 | 14.863 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 208508 | 13.278 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 189697 | 14.201 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.580 | 88  | 92114  | 12.733 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.053 | 42  | 214949 | 14.166 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.490 | 83  | 442735 | 14.798 | ppbv   | 95     |
| 43) Methyl Methacrylate       | 4.878 | 69  | 219757 | 13.670 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 893529 | 14.425 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 244470 | 14.810 | ppbv   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042355.D  
 Acq On : 17 Apr 2025 12:54  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

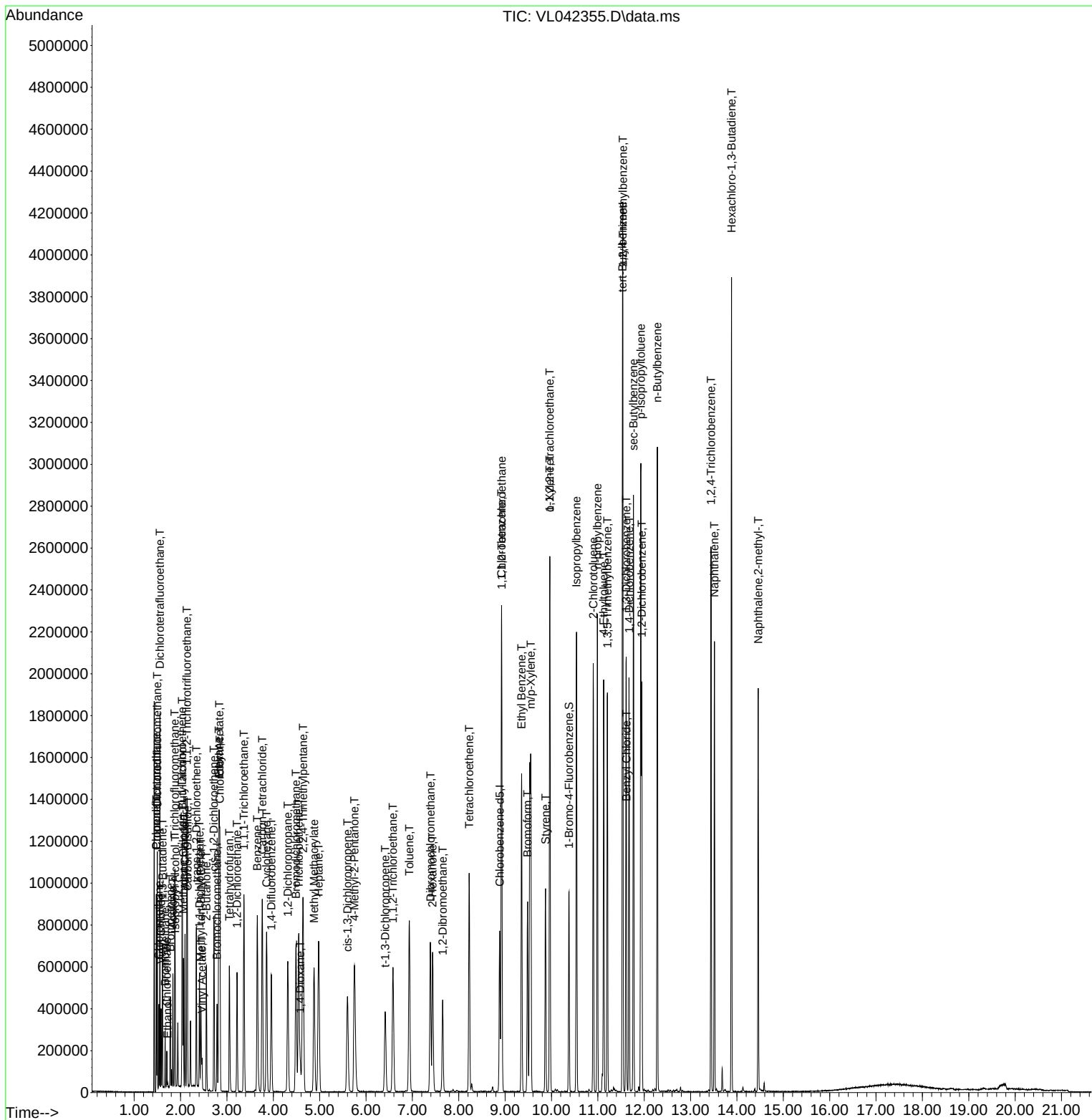
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

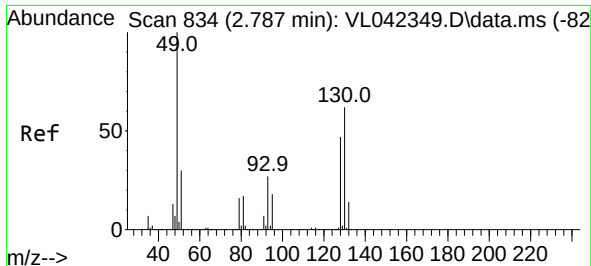
Quant Time: Apr 18 01:31:10 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 01:24:29 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 300145   | 14.878 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 6.581  | 97   | 198874   | 14.615 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.390  | 129  | 362887   | 15.105 | ppbv   | 98       |
| 49) Bromoform                 | 9.484  | 173  | 312282   | 14.865 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.749  | 43   | 563658   | 12.889 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 467001   | 11.834 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.225  | 164  | 180631   | 13.046 | ppbv   | 97       |
| 53) Toluene                   | 6.933  | 91   | 619420   | 14.411 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 280071   | 14.442 | ppbv   | 92       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 268626   | 14.389 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.921  | 112  | 454017   | 14.151 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.354  | 91   | 874424   | 14.308 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 645250   | 13.067 | ppbv # | 21       |
| 60) o-Xylene                  | 9.963  | 91   | 689246   | 13.902 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 339508   | 14.347 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 1018968  | 13.999 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 412898   | 12.816 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 260812   | 14.255 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 899720   | 13.449 | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.617 | 91   | 96016    | 13.061 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1253263  | 13.468 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 1081850  | 13.382 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 1117042  | 13.266 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 806728   | 14.131 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 848077   | 13.992 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 726558   | 13.578 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 785772   | 12.572 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 444086   | 13.670 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 450662   | 13.802 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 427372   | 13.529 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.883 | 225  | 404441   | 12.679 | ppbv   | 100      |
| 79) Naphthalene               | 13.514 | 128  | 944085   | 12.632 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 540339   | 12.686 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 429982   | 13.398 | ppbv   | 98       |

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

Quant Time: Apr 18 01:31:10 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 01:24:29 2025  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.787 min Scan# 834

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

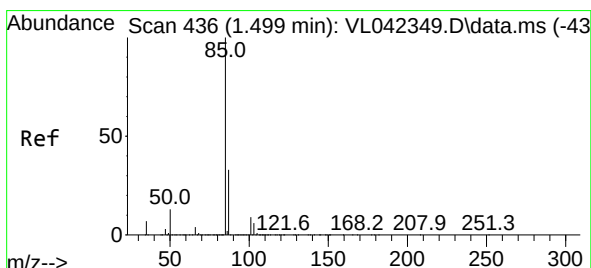
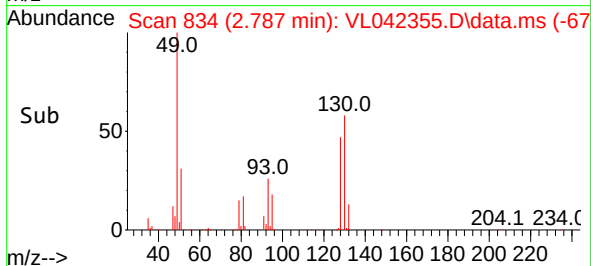
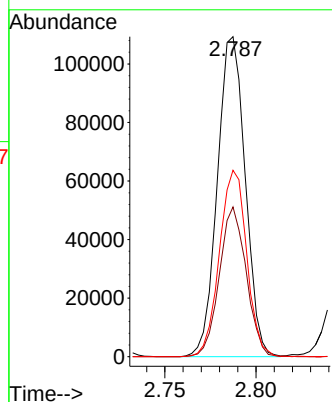
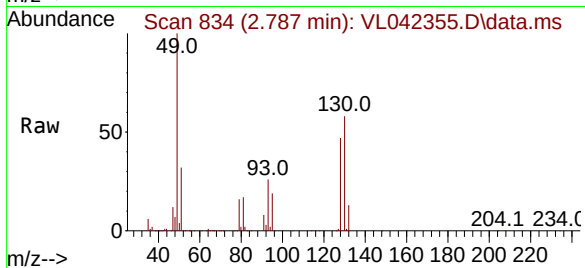
Tgt Ion: 49 Resp: 116071

Ion Ratio Lower Upper

49 100

128 45.1 22.8 68.4

130 57.1 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 14.277 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.000 min

Lab File: VL042355.D

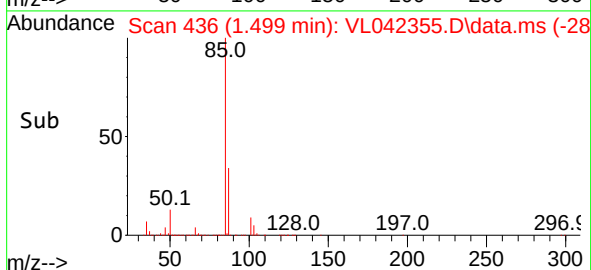
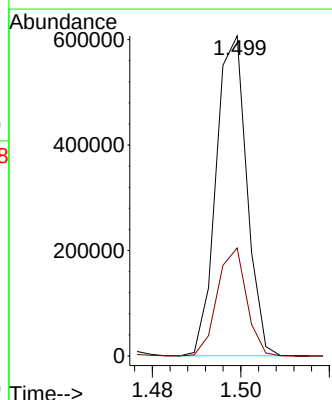
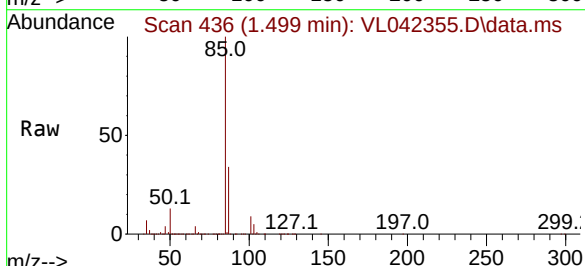
Acq: 17 Apr 2025 12:54

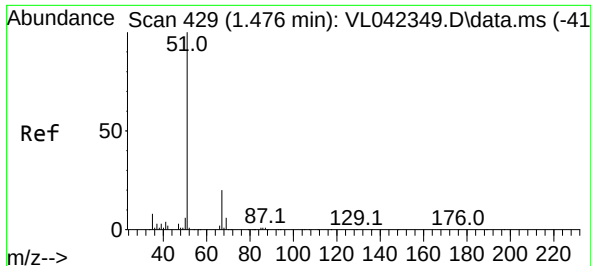
Tgt Ion: 85 Resp: 292784

Ion Ratio Lower Upper

85 100

87 33.8 26.6 39.8

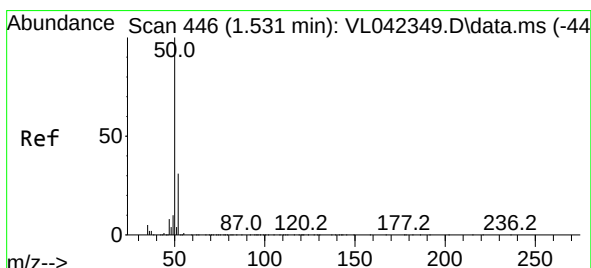
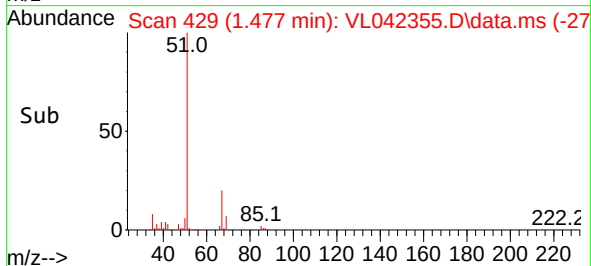
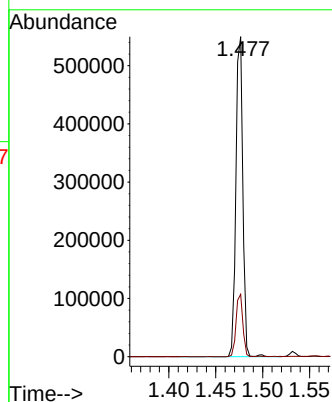
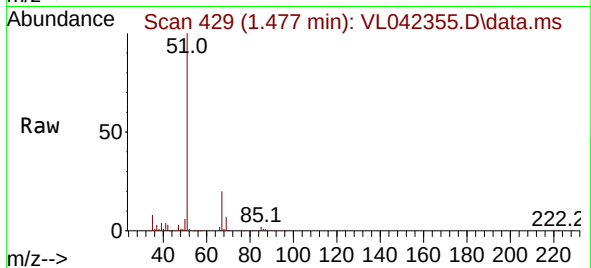




#3  
Chlorodifluoromethane  
Concen: 14.341 ppbv  
RT: 1.477 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

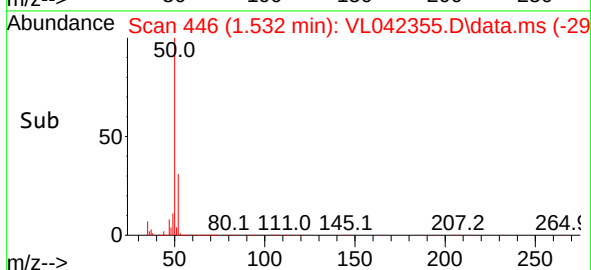
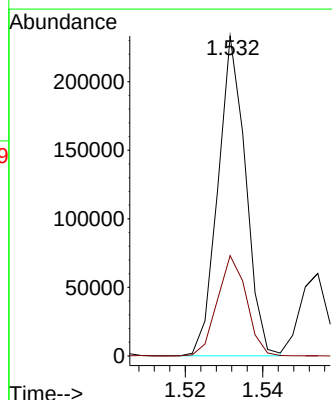
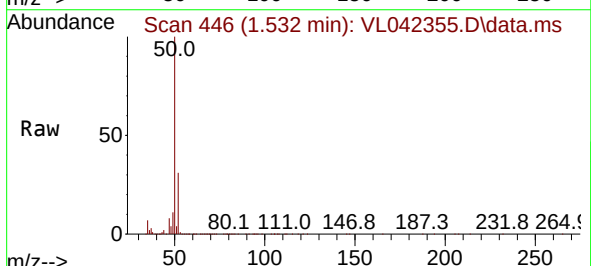
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 51 Resp: 280042  
Ion Ratio Lower Upper  
51 100  
67 19.5 16.2 24.4

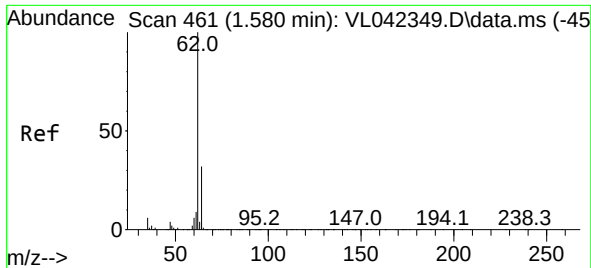


#4  
Chloromethane  
Concen: 14.266 ppbv  
RT: 1.532 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775  
Ion Ratio Lower Upper  
50 100  
52 31.3 24.7 37.1



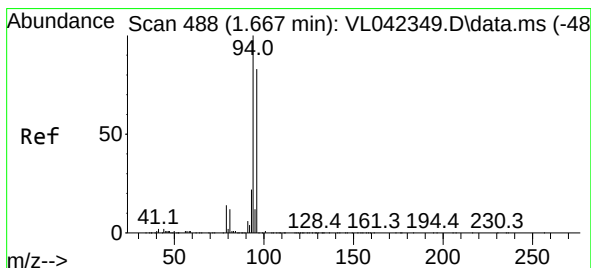
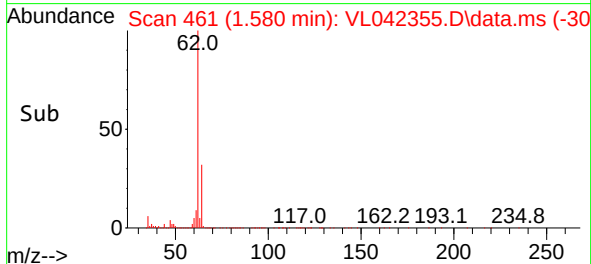
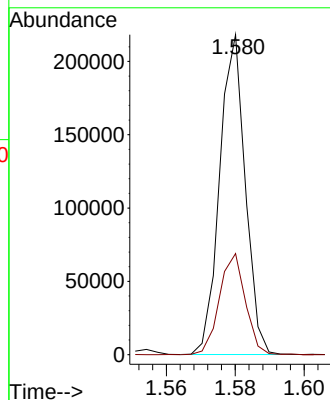
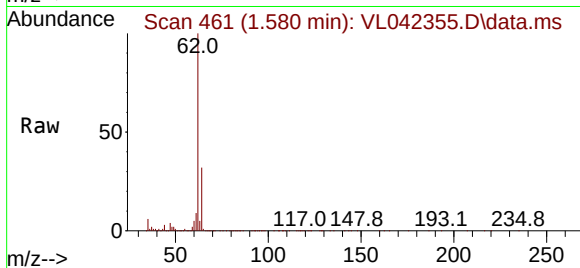




#5  
 Vinyl Chloride  
 Concen: 12.752 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

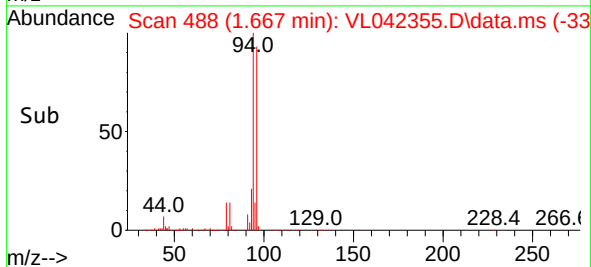
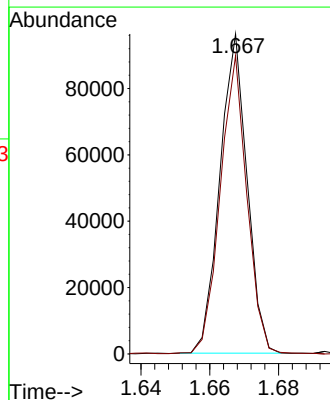
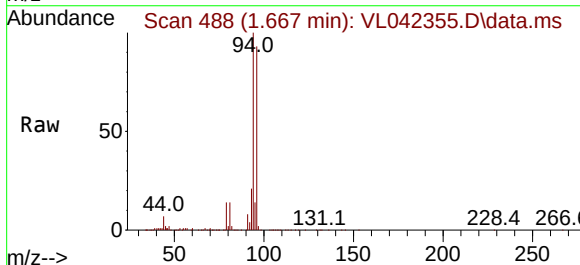
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

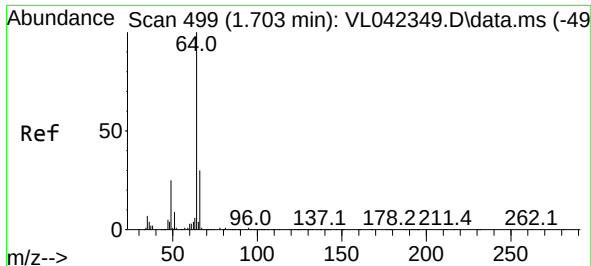
Tgt Ion: 62 Resp: 112650  
 Ion Ratio Lower Upper  
 62 100  
 64 31.6 25.4 38.0



#6  
 Bromomethane  
 Concen: 13.800 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805  
 Ion Ratio Lower Upper  
 94 100  
 96 93.1 66.2 99.2

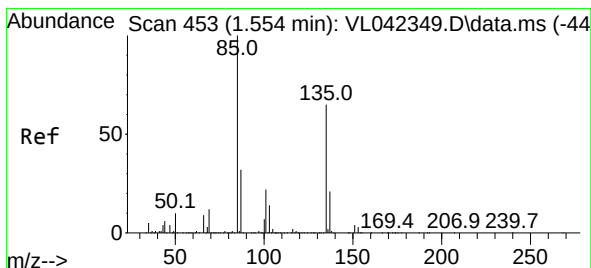
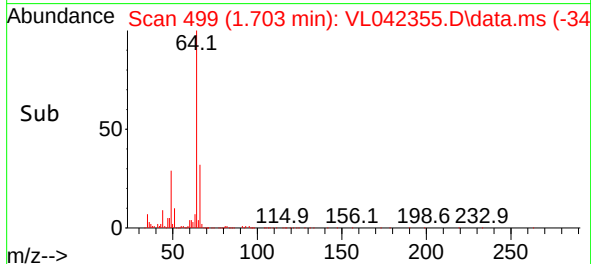
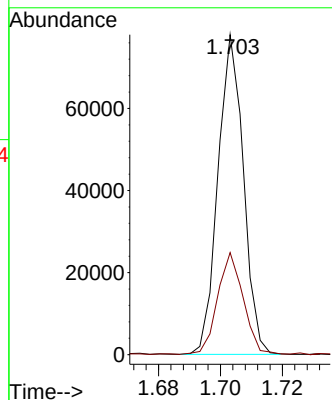
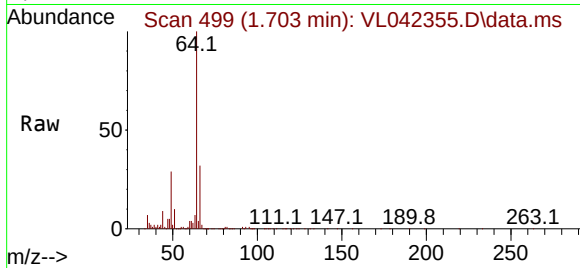




#7  
Chloroethane  
Concen: 13.881 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

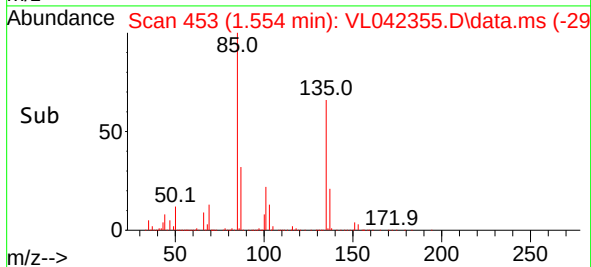
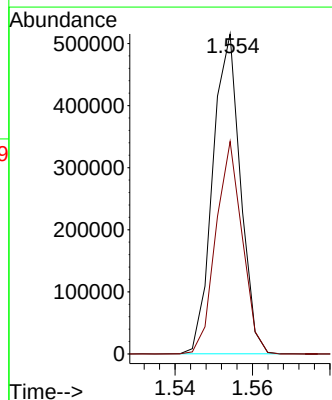
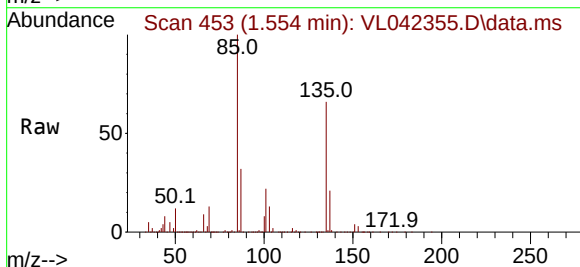
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

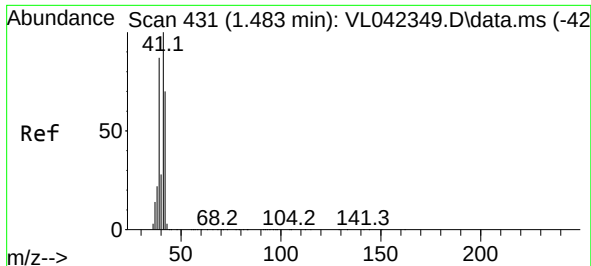
Tgt Ion: 64 Resp: 44347  
Ion Ratio Lower Upper  
64 100  
66 31.9 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 14.484 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029  
Ion Ratio Lower Upper  
85 100  
135 63.6 52.2 78.2





#9

Propene

Concen: 13.842 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

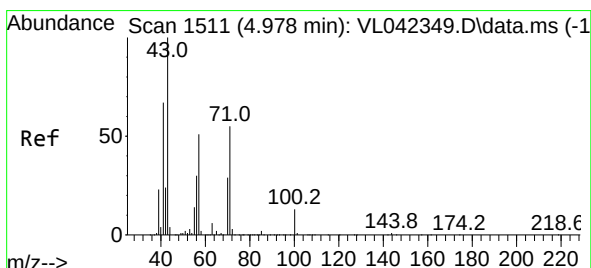
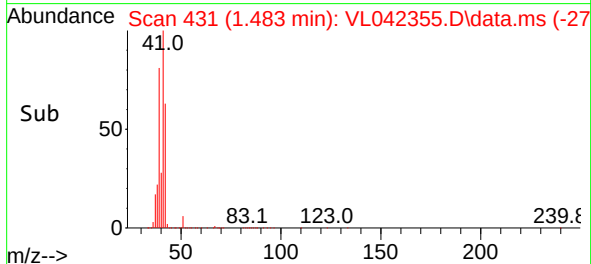
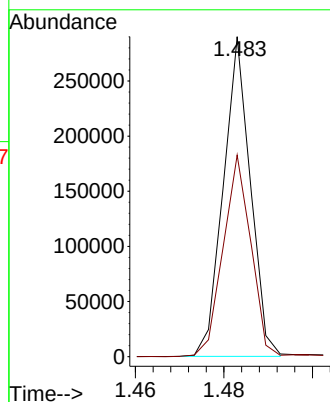
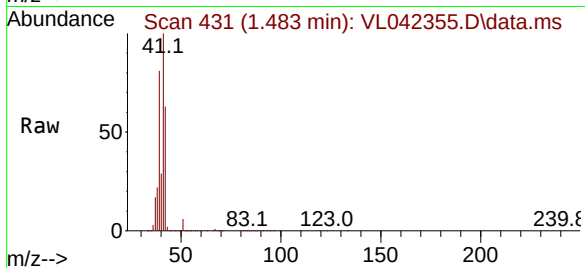
VSTDIC015

Tgt Ion: 41 Resp: 123102

Ion Ratio Lower Upper

41 100

42 66.0 56.2 84.4



#10

Heptane

Concen: 14.047 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042355.D

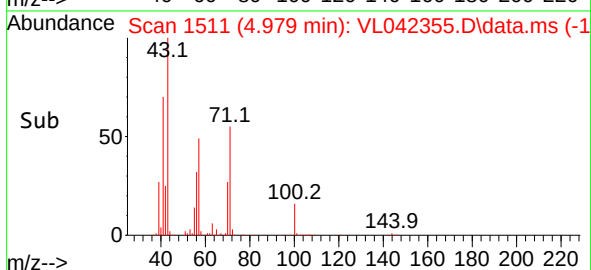
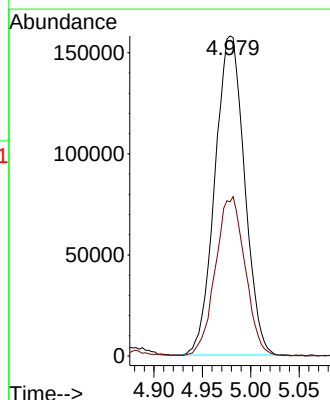
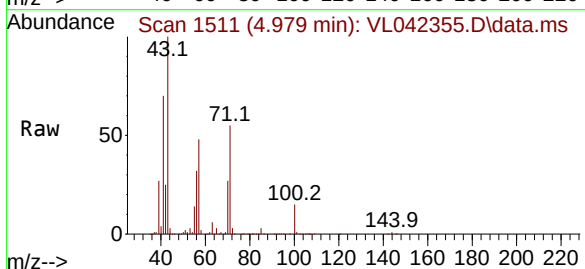
Acq: 17 Apr 2025 12:54

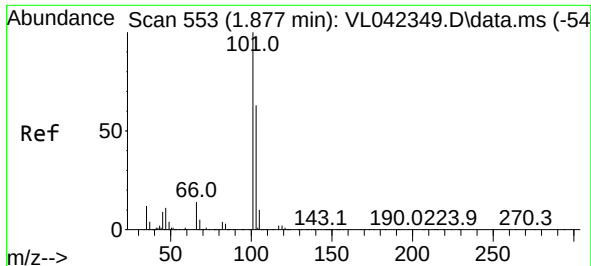
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

57 50.0 39.9 59.9

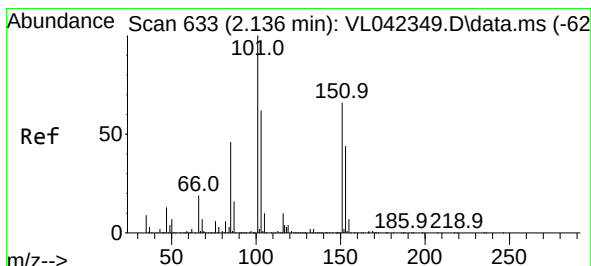
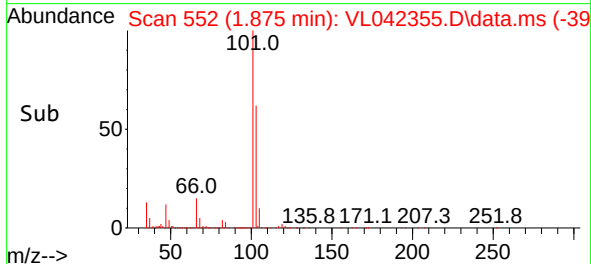
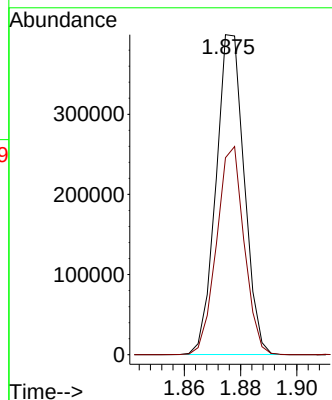
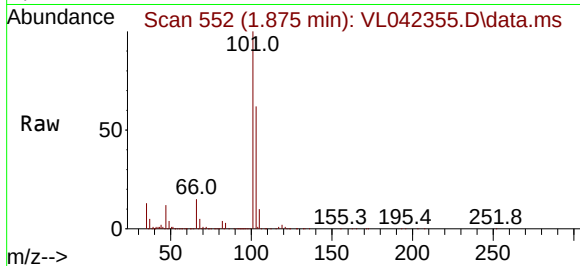




#11  
 Trichlorofluoromethane  
 Concen: 14.258 ppbv  
 RT: 1.875 min Scan# 511  
 Delta R.T. -0.003 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

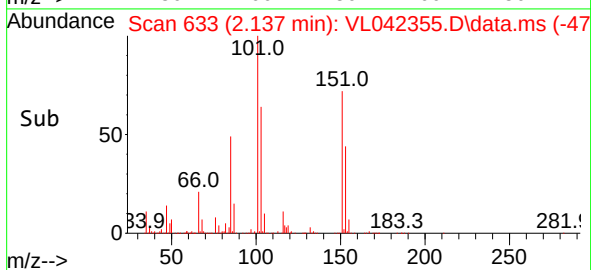
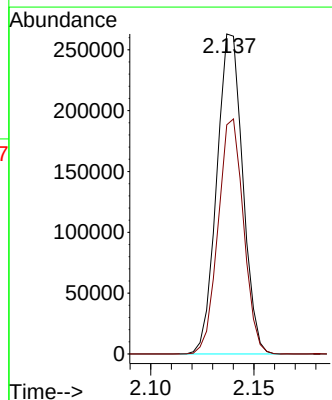
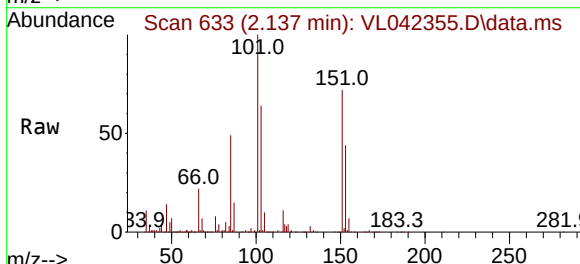
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

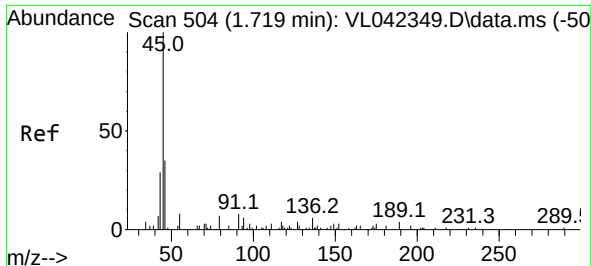
Tgt Ion:101 Resp: 278059  
 Ion Ratio Lower Upper  
 101 100  
 103 61.6 50.1 75.1



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 14.447 ppbv  
 RT: 2.137 min Scan# 633  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366  
 Ion Ratio Lower Upper  
 101 100  
 151 71.8 57.0 85.6

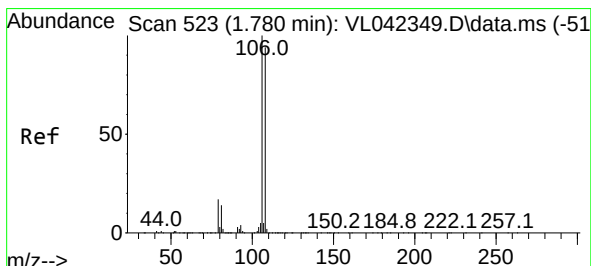
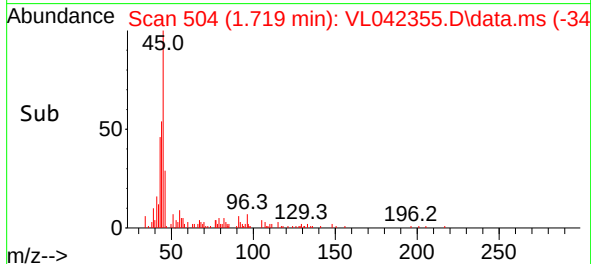
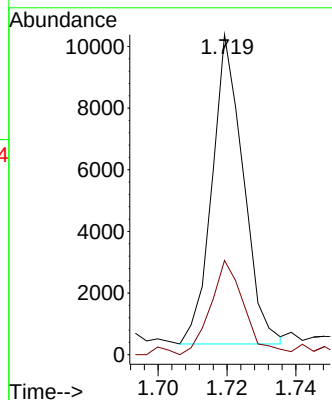
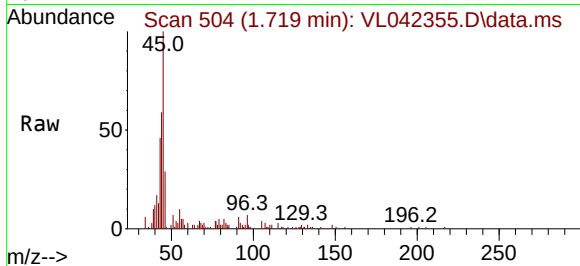




#13  
 Ethanol  
 Concen: 8.702 ppbv  
 RT: 1.719 min Scan# 504  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

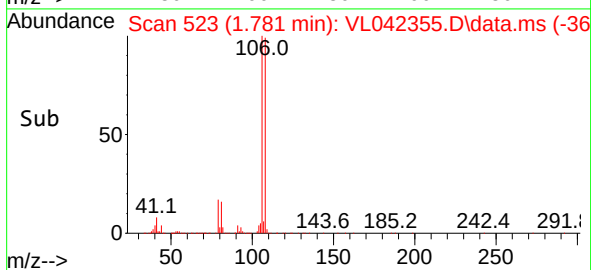
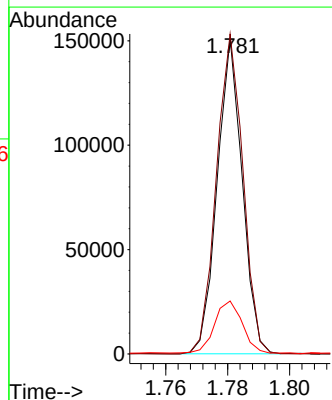
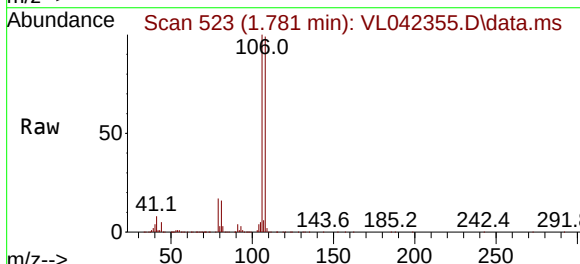
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

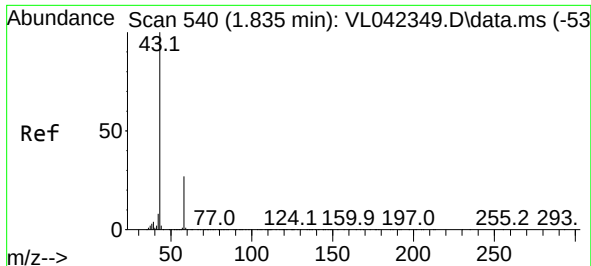
Tgt Ion: 45 Resp: 6324  
 Ion Ratio Lower Upper  
 45 100  
 46 37.6 21.9 87.7



#14  
 Bromoethene  
 Concen: 14.117 ppbv  
 RT: 1.781 min Scan# 523  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 108 Resp: 84851  
 Ion Ratio Lower Upper  
 108 100  
 106 107.5 85.9 128.9  
 79 19.3 13.9 20.9

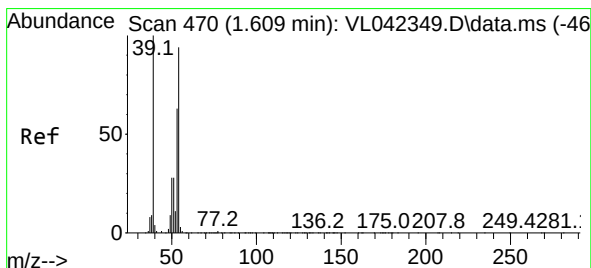
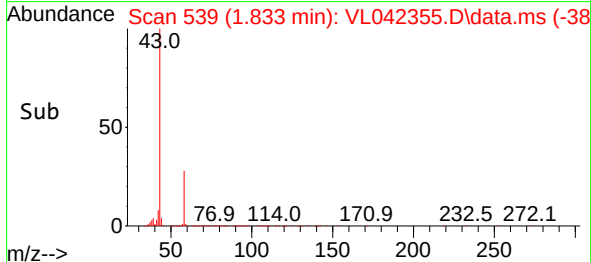
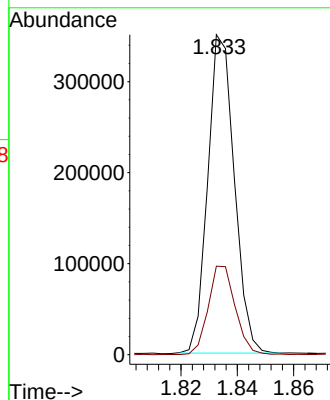
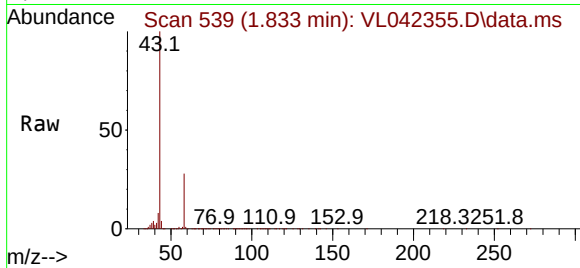




#15  
Acetone  
Concen: 12.056 ppbv  
RT: 1.833 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

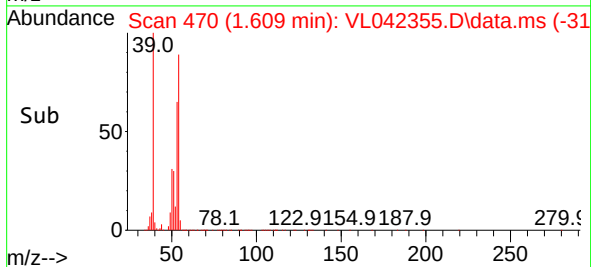
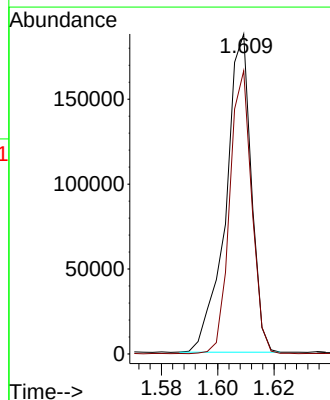
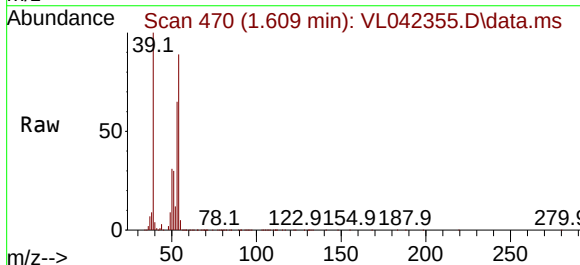
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

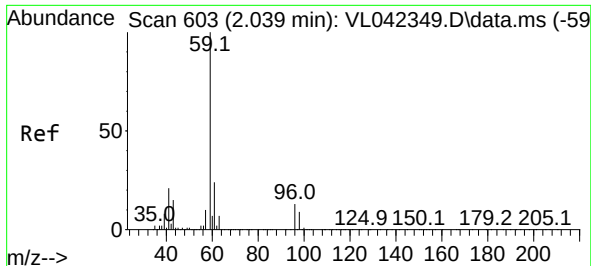
Tgt Ion: 43 Resp: 229086  
Ion Ratio Lower Upper  
43 100  
58 28.4 22.4 33.6



#16  
1,3-Butadiene  
Concen: 13.224 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997  
Ion Ratio Lower Upper  
39 100  
54 77.2 64.9 97.3





#17

tert-Butyl alcohol

Concen: 13.615 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_1

ClientSampleId :

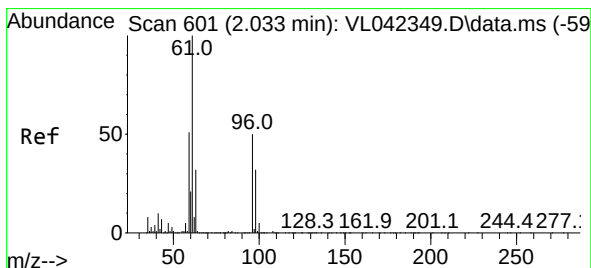
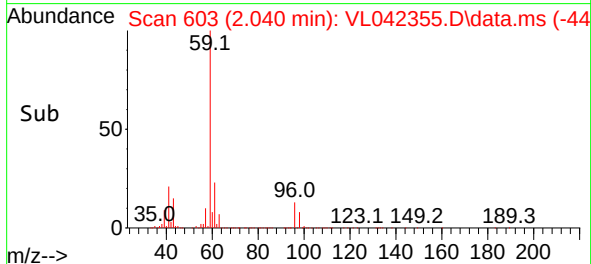
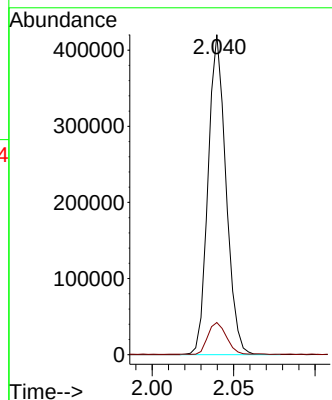
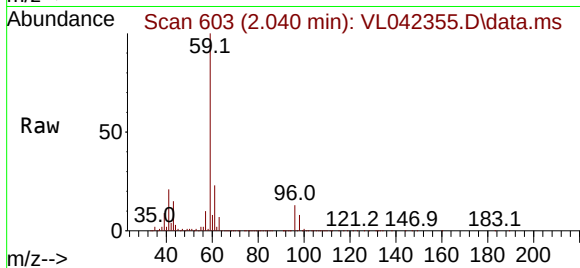
VSTDIC015

Tgt Ion: 59 Resp: 320605

Ion Ratio Lower Upper

59 100

57 10.6 8.7 13.1



#18

1,1-Dichloroethene

Concen: 14.045 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

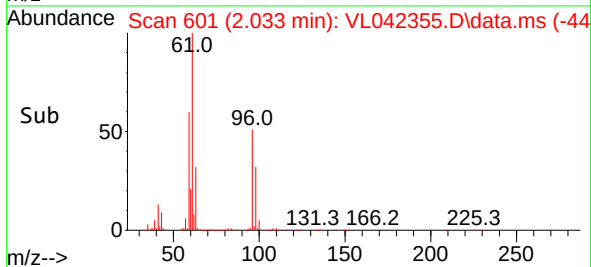
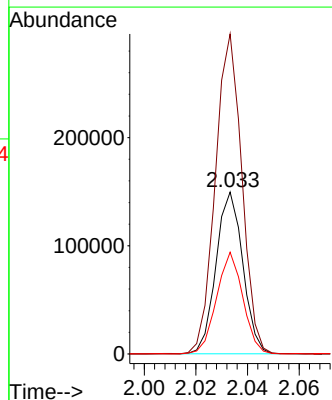
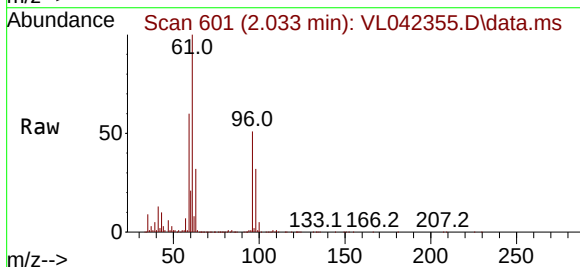
Tgt Ion: 96 Resp: 107666

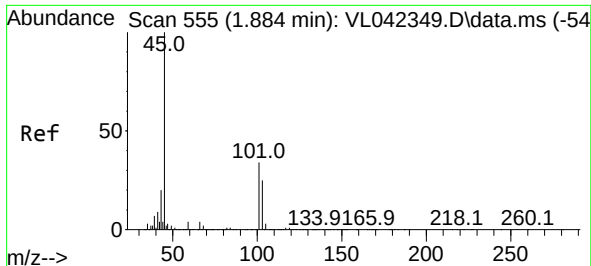
Ion Ratio Lower Upper

96 100

61 197.8 160.2 240.2

98 62.9 51.0 76.4

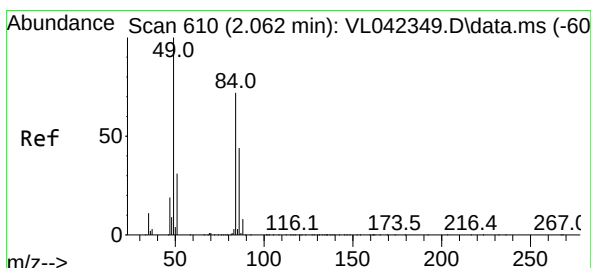
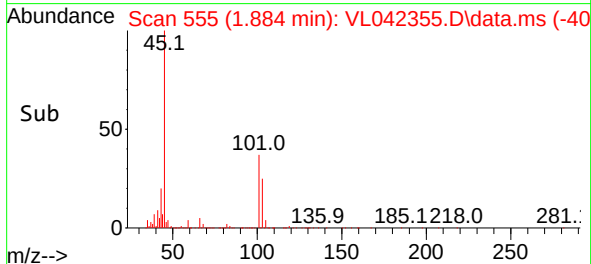
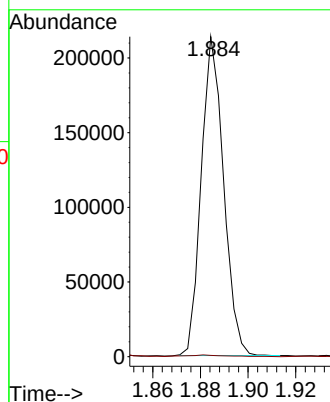
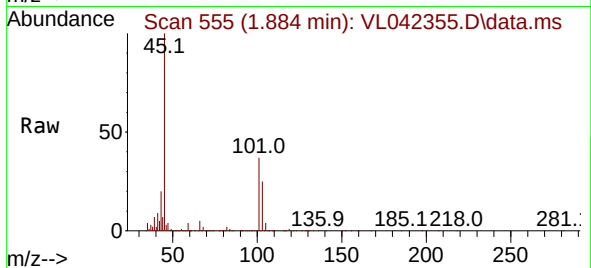




#19  
Isopropyl Alcohol  
Concen: 13.169 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

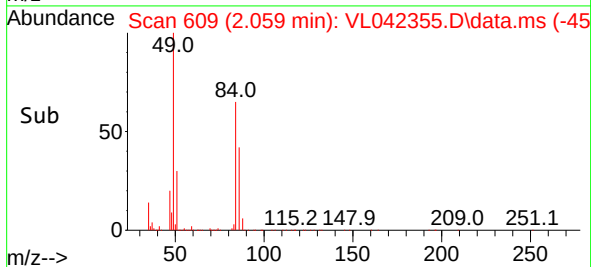
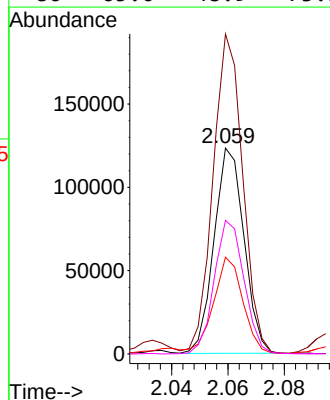
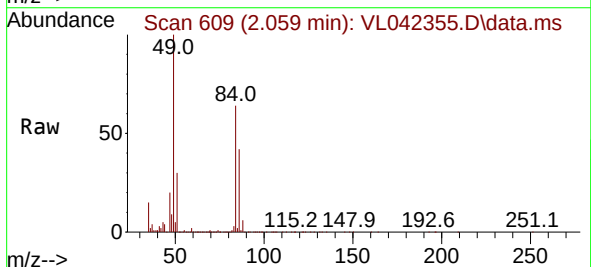
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 45 Resp: 139004  
Ion Ratio Lower Upper  
45 100  
58 46.9 34.5 51.7

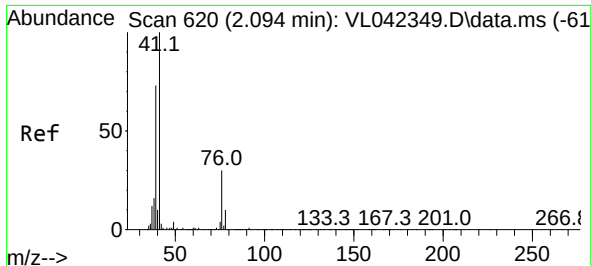


#20  
Methylene Chloride  
Concen: 12.241 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093  
Ion Ratio Lower Upper  
84 100  
49 155.7 111.6 167.4  
51 46.8 35.1 52.7  
86 65.0 48.9 73.3



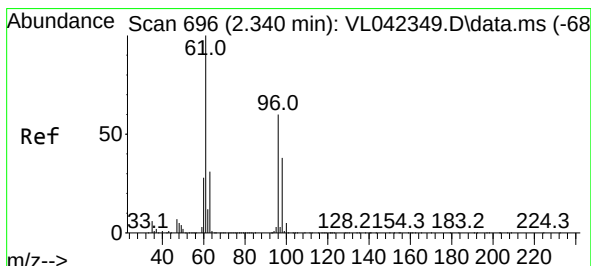
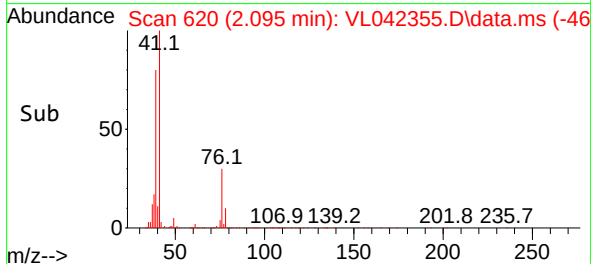
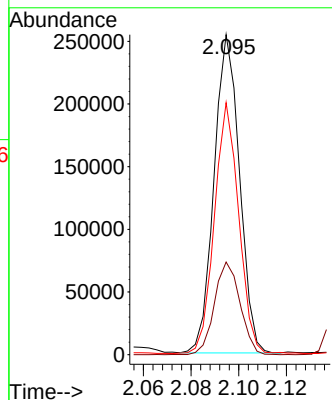
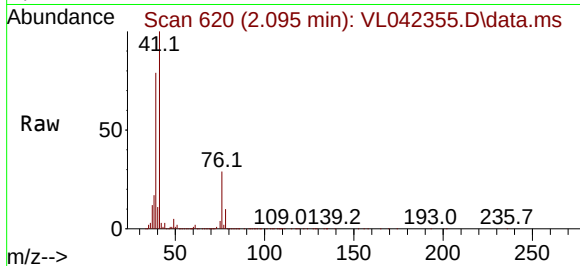




#21  
 Allyl Chloride  
 Concen: 14.329 ppbv  
 RT: 2.095 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

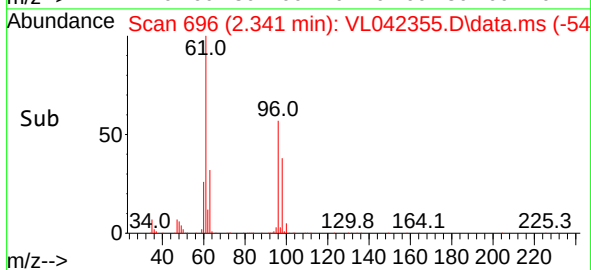
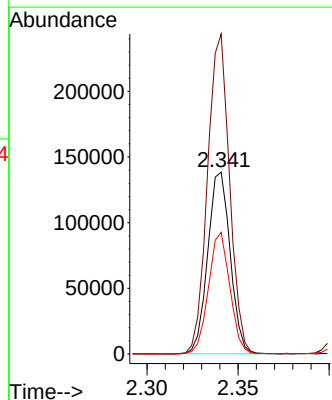
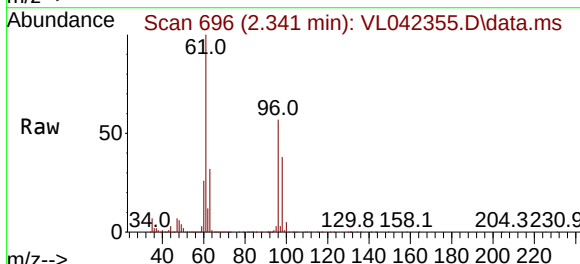
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

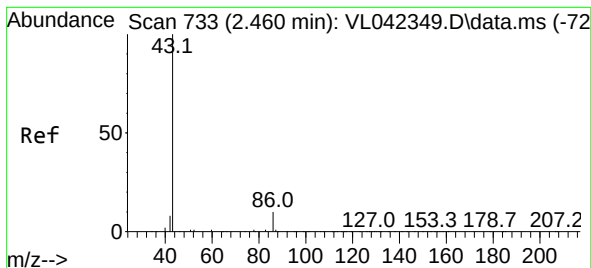
Tgt Ion: 41 Resp: 187995  
 Ion Ratio Lower Upper  
 41 100  
 76 29.3 24.8 37.2  
 39 75.2 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 13.970 ppbv  
 RT: 2.341 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492  
 Ion Ratio Lower Upper  
 96 100  
 61 176.1 133.7 200.5  
 98 66.8 50.3 75.5





#23

Vinyl Acetate

Concen: 13.799 ppbv

RT: 2.460 min Scan# 717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 106135

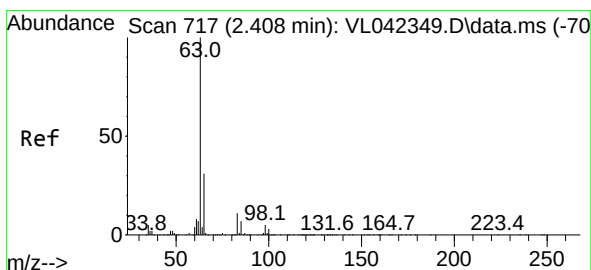
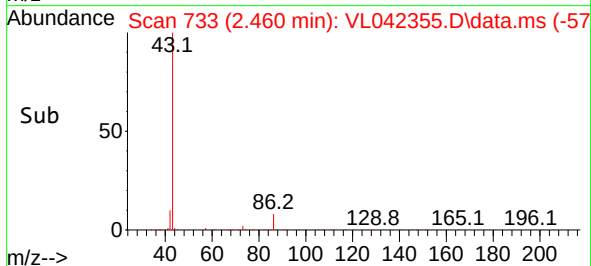
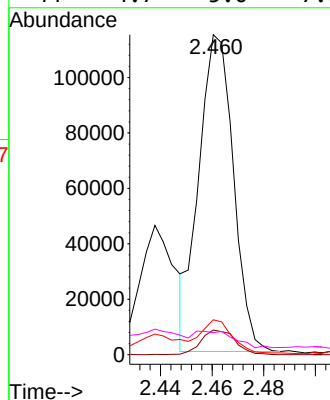
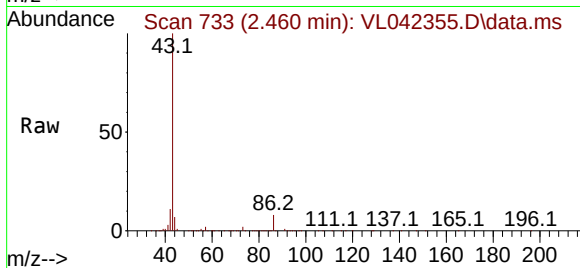
Ion Ratio Lower Upper

43 100

86 7.8 6.5 9.7

42 10.4 7.8 11.8

44 4.7 5.0 7.6#



#24

1,1-Dichloroethane

Concen: 14.615 ppbv

RT: 2.409 min Scan# 717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

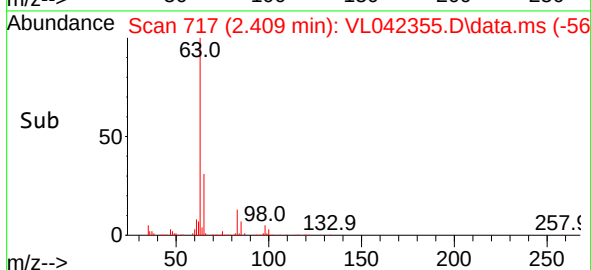
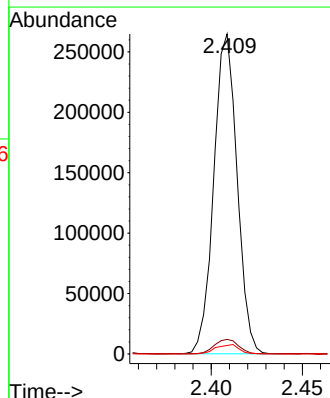
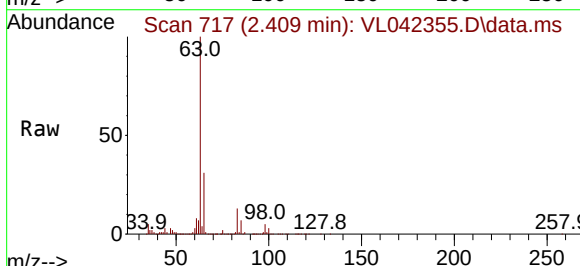
Tgt Ion: 63 Resp: 235466

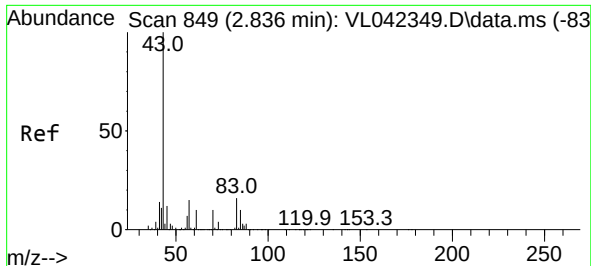
Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

100 2.6 1.6 4.8

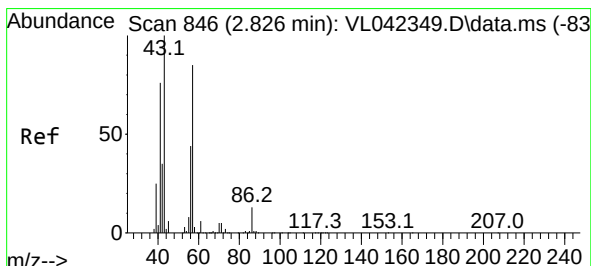
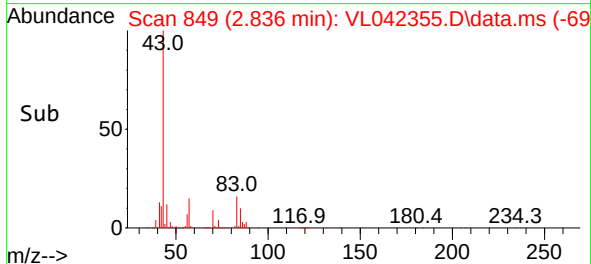
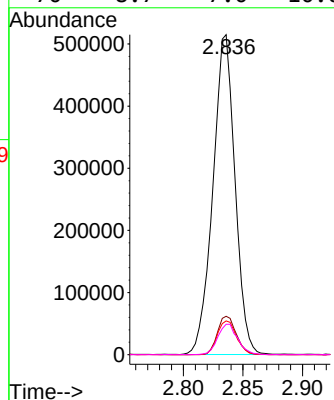
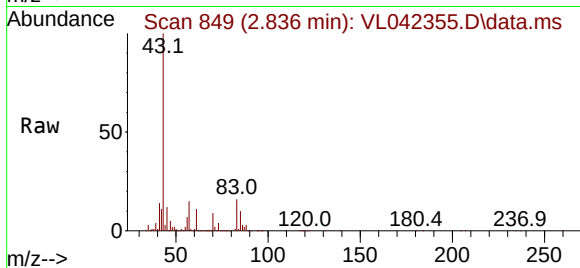




#25  
Ethyl Acetate  
Concen: 14.166 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

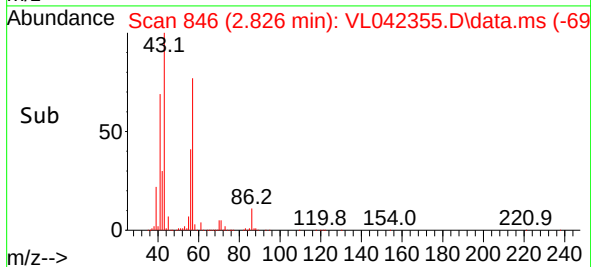
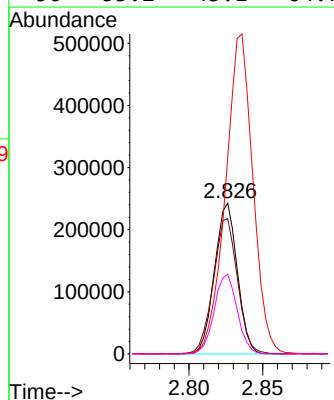
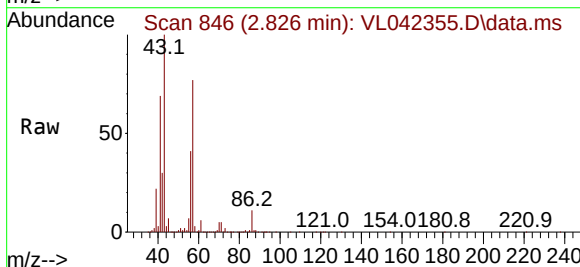
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

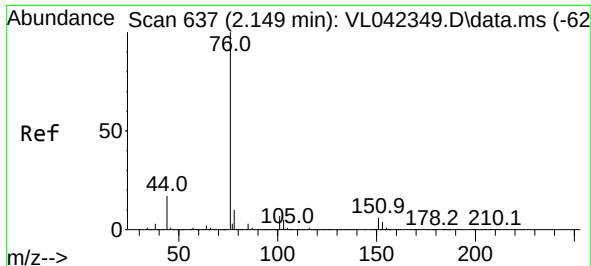
| Tgt Ion: | 43    | Resp: | 663644 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.4  | 8.3   | 12.5   |
| 61       | 9.2   | 7.3   | 10.9   |
| 70       | 8.7   | 7.0   | 10.6   |



#26  
Hexane  
Concen: 13.765 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

| Tgt Ion: | 57    | Resp: | 260975 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 95.3  | 77.9  | 116.9  |
| 43       | 254.5 | 208.4 | 312.6  |
| 56       | 53.2  | 43.1  | 64.7   |

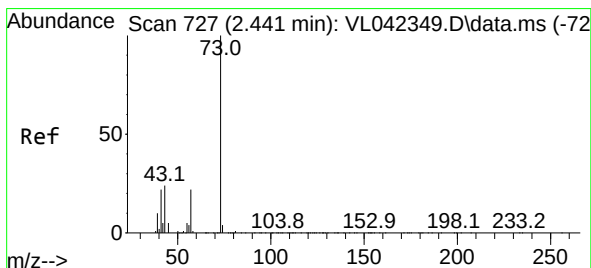
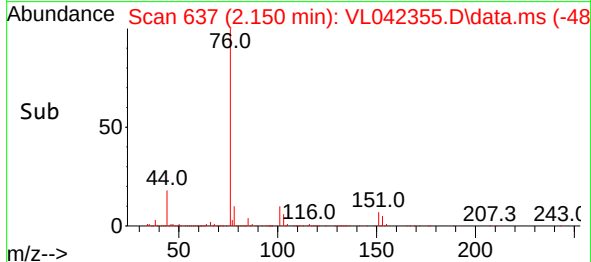
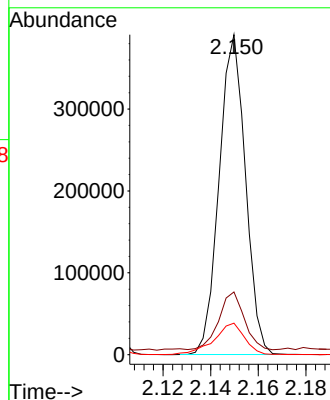
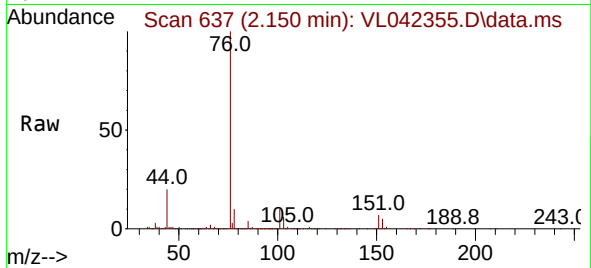




#27  
Carbon Disulfide  
Concen: 14.734 ppbv  
RT: 2.150 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

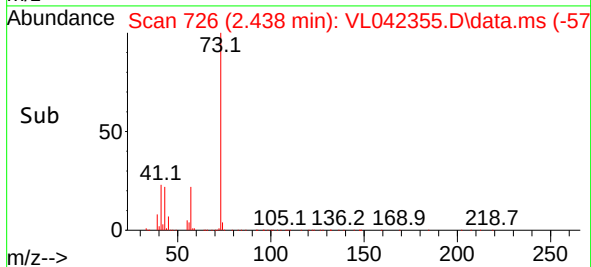
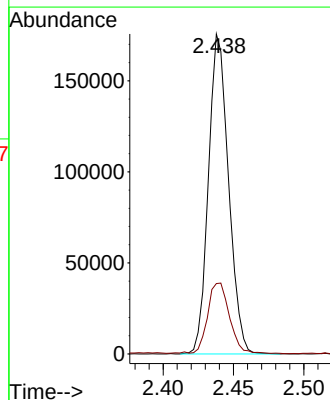
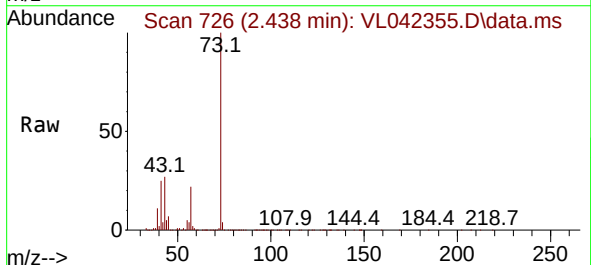
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

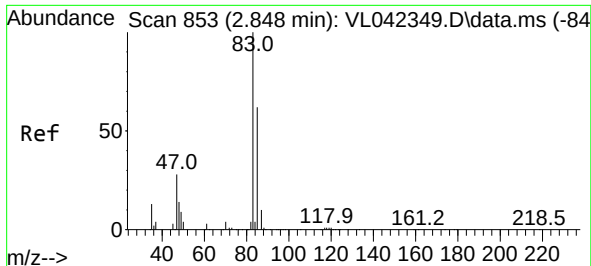
Tgt Ion: 76 Resp: 299098  
Ion Ratio Lower Upper  
76 100  
44 17.3 15.5 23.3  
78 11.4 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 14.076 ppbv  
RT: 2.438 min Scan# 726  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855  
Ion Ratio Lower Upper  
73 100  
57 24.3 21.3 31.9





#29

Chloroform

Concen: 14.393 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

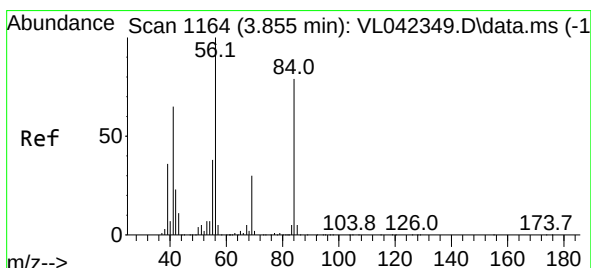
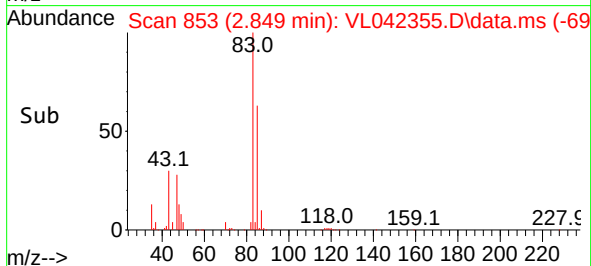
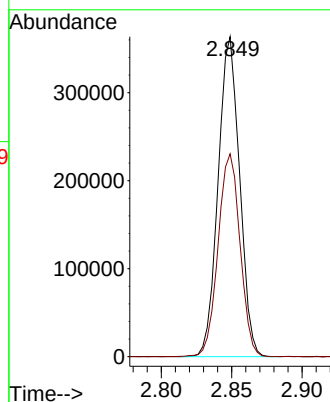
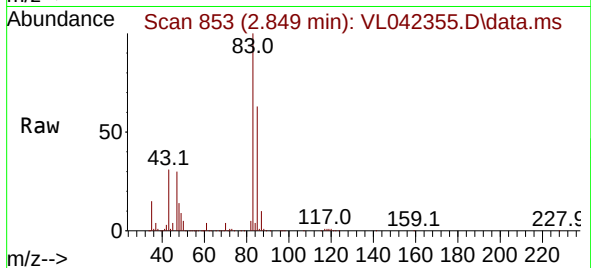
VSTDIC015

Tgt Ion: 83 Resp: 385686

Ion Ratio Lower Upper

83 100

85 63.4 50.0 75.0



#30

Cyclohexane

Concen: 14.238 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

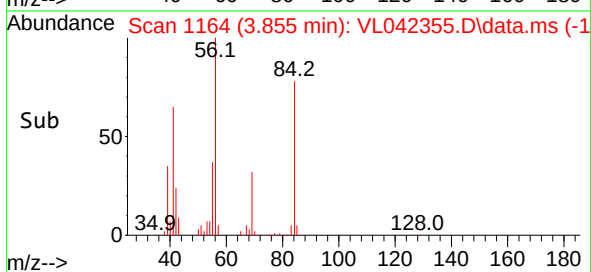
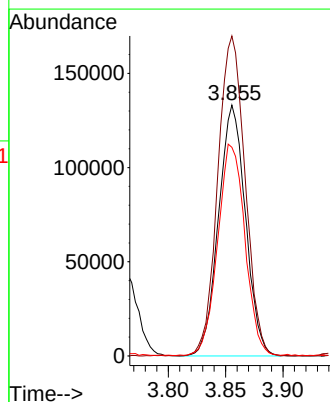
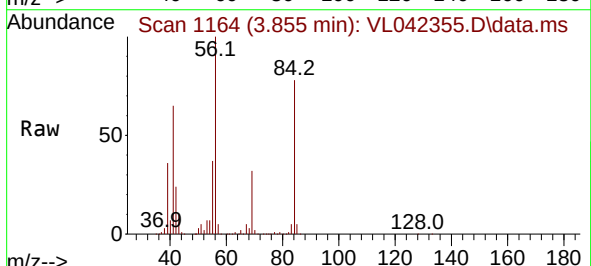
Tgt Ion: 84 Resp: 217375

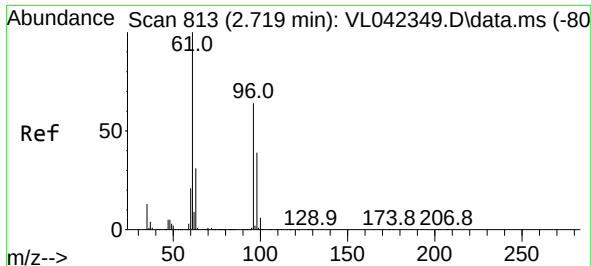
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

41 85.3 67.4 101.0

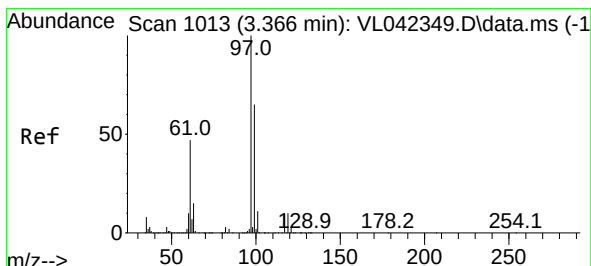
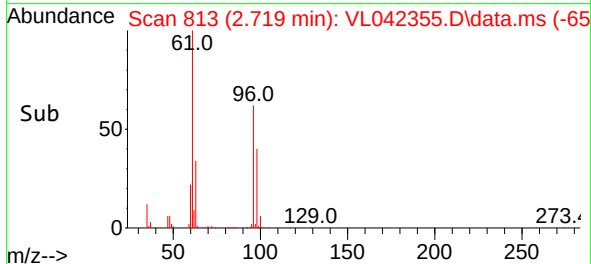
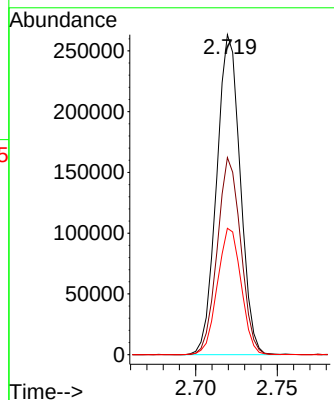
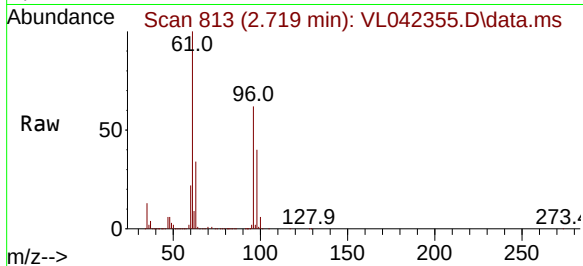




#31  
 cis-1,2-Dichloroethene  
 Concen: 14.700 ppbv  
 RT: 2.719 min Scan# 813  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

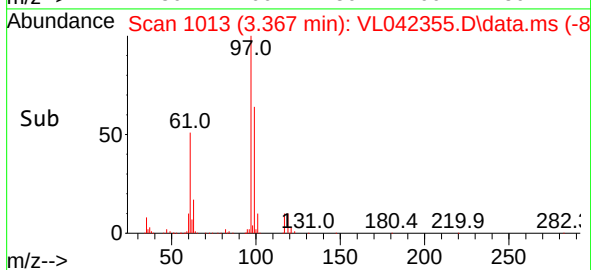
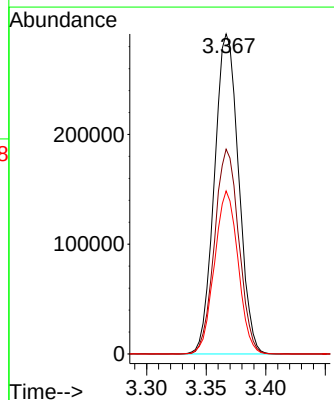
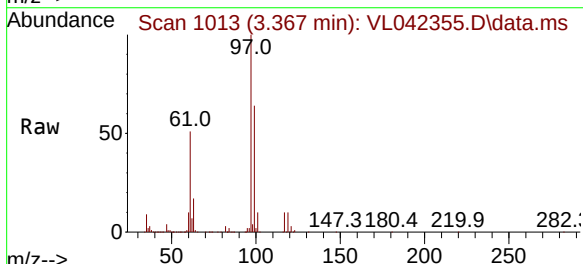
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

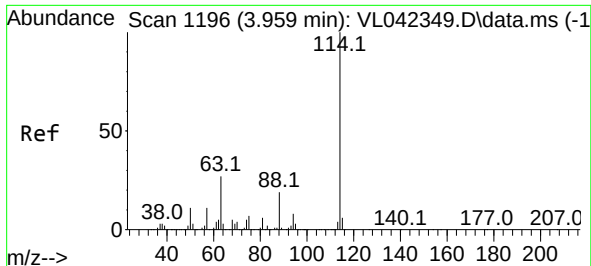
Tgt Ion: 61 Resp: 264972  
 Ion Ratio Lower Upper  
 61 100  
 96 61.6 50.8 76.2  
 98 39.5 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 14.357 ppbv  
 RT: 3.367 min Scan# 1013  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 51.0 76.4  
 61 49.8 38.8 58.2

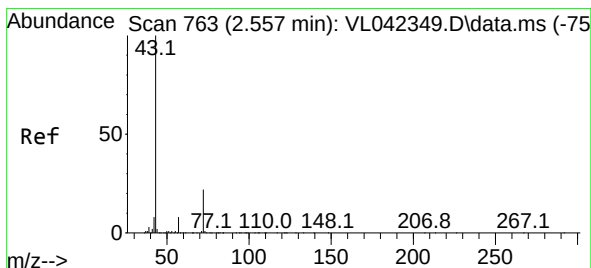
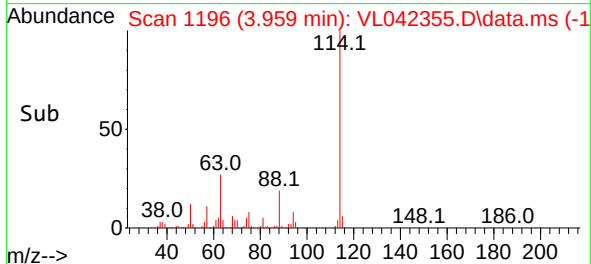
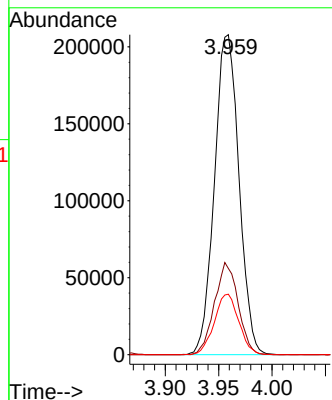
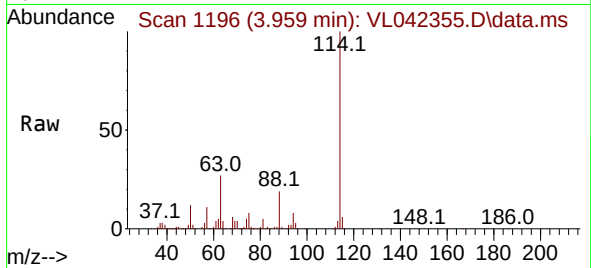




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.959 min Scan# 1196  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

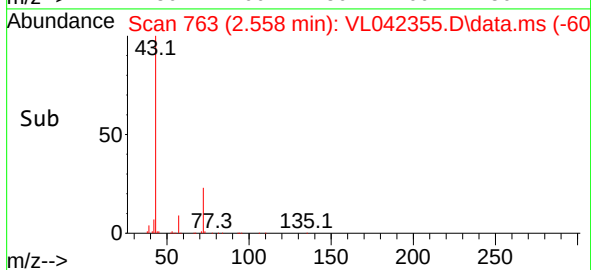
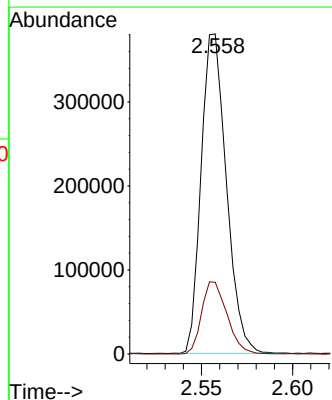
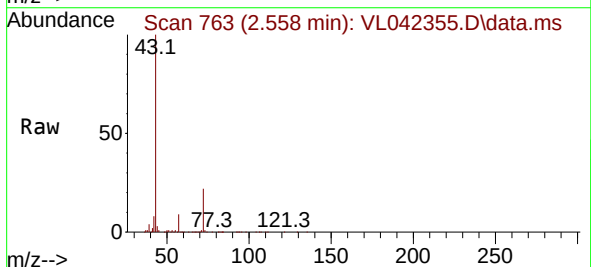
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

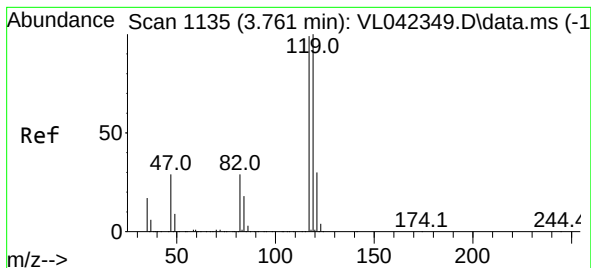
Tgt Ion:114 Resp: 332080  
 Ion Ratio Lower Upper  
 114 100  
 63 27.7 21.8 32.6  
 88 18.9 15.5 23.3



#34  
 2-Butanone  
 Concen: 13.986 ppbv  
 RT: 2.558 min Scan# 763  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315  
 Ion Ratio Lower Upper  
 43 100  
 72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 13.639 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

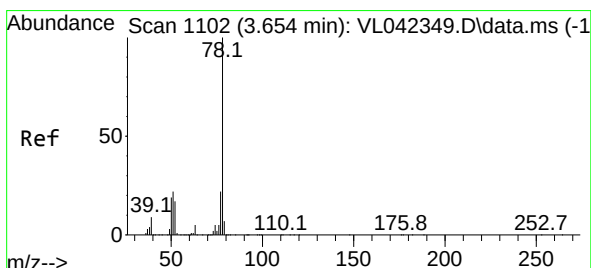
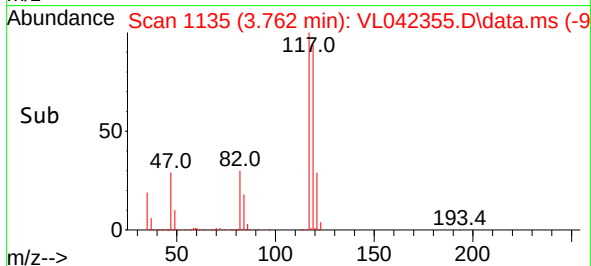
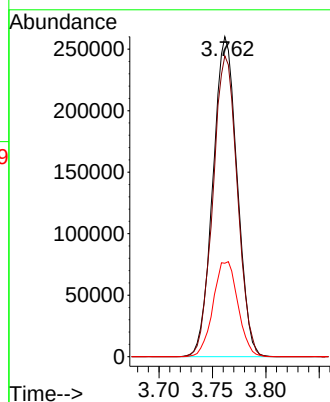
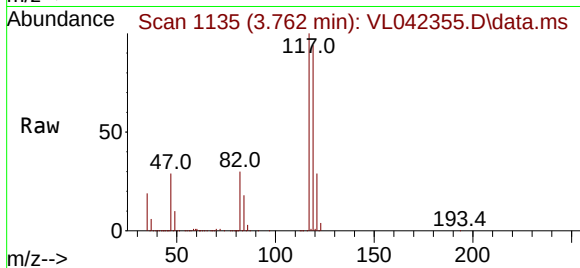
Tgt Ion:117 Resp: 409916

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

121 29.2 24.2 36.2



#36

Benzene

Concen: 14.578 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

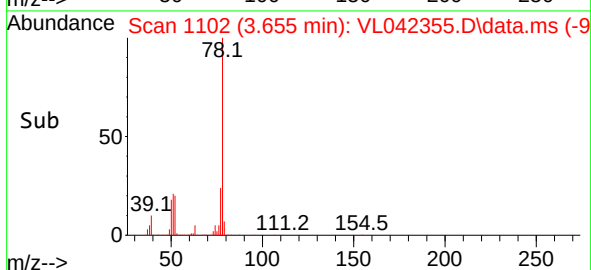
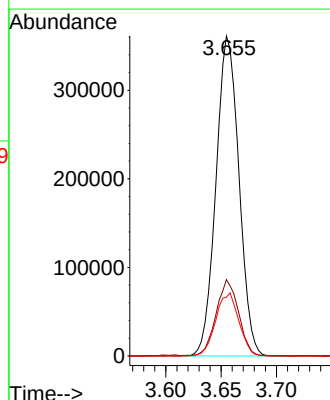
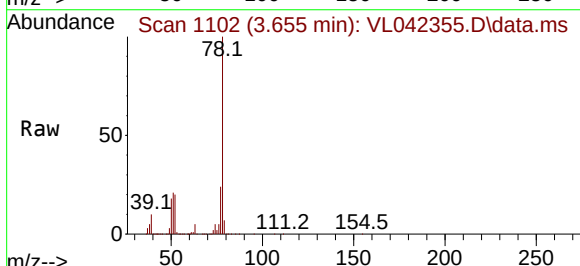
Tgt Ion: 78 Resp: 522156

Ion Ratio Lower Upper

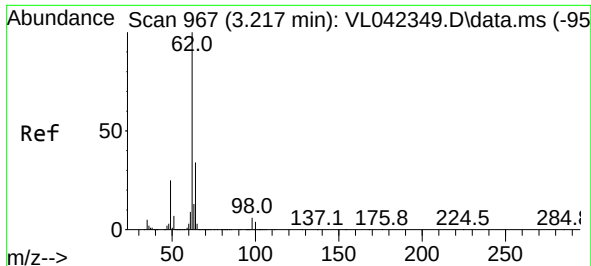
78 100

77 23.8 17.4 26.0

50 18.3 15.5 23.3







#37

1,2-Dichloroethane

Concen: 14.863 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

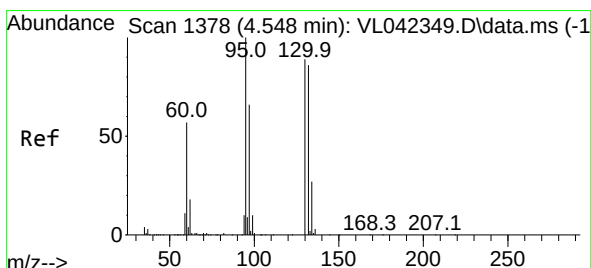
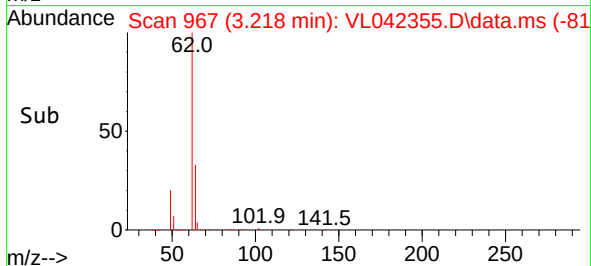
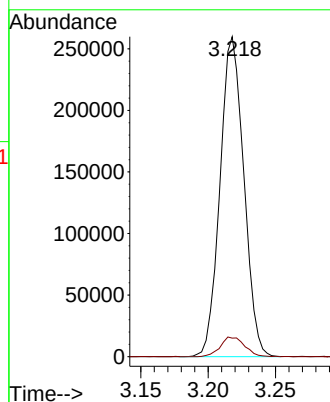
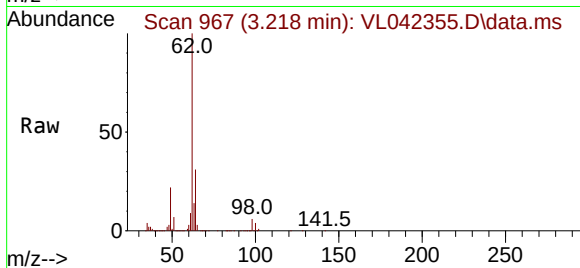
VSTDIC015

Tgt Ion: 62 Resp: 319517

Ion Ratio Lower Upper

62 100

98 6.3 5.1 7.7



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

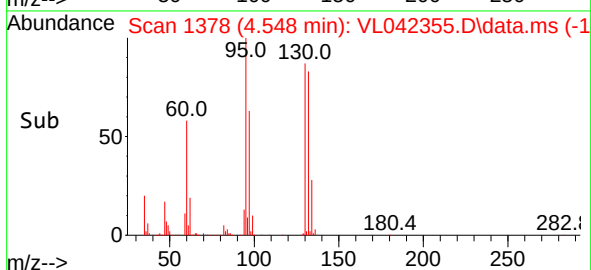
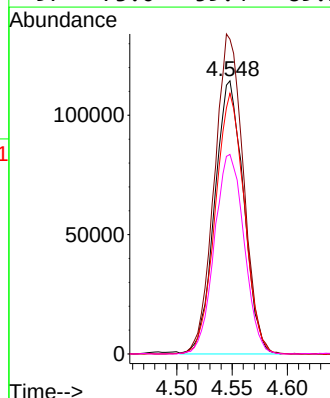
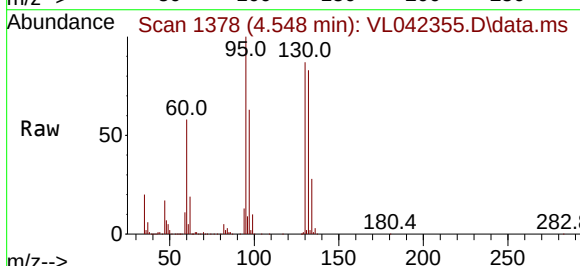
Ion Ratio Lower Upper

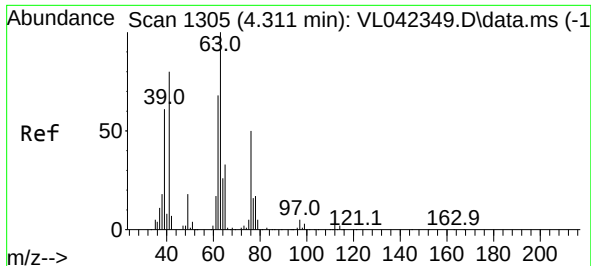
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

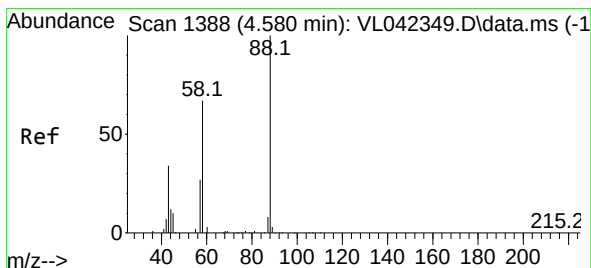
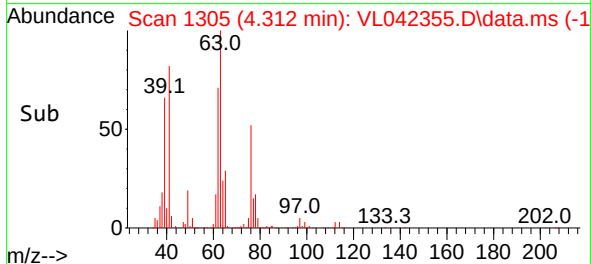
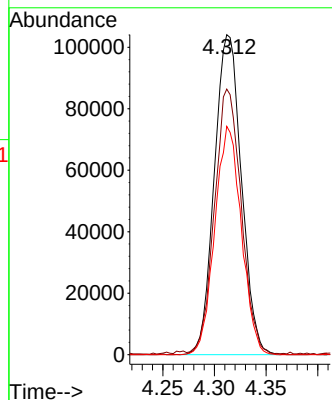
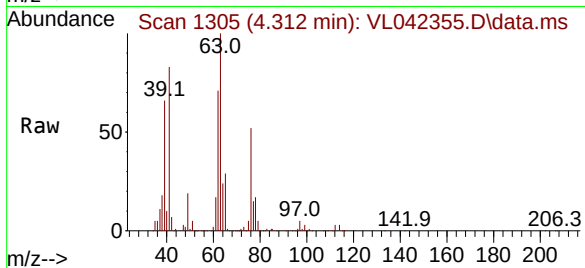
Tgt Ion: 63 Resp: 189697

Ion Ratio Lower Upper

63 100

41 82.7 64.2 96.2

62 71.4 54.3 81.5



#40

1,4-Dioxane

Concen: 12.733 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

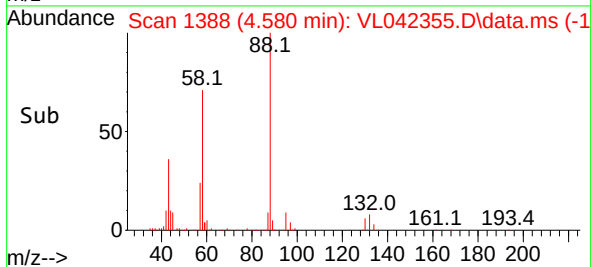
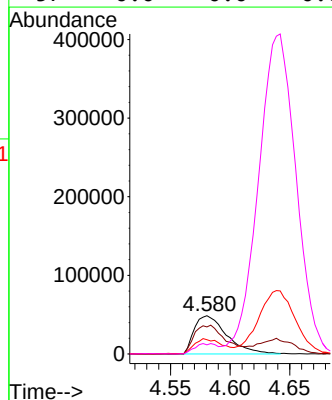
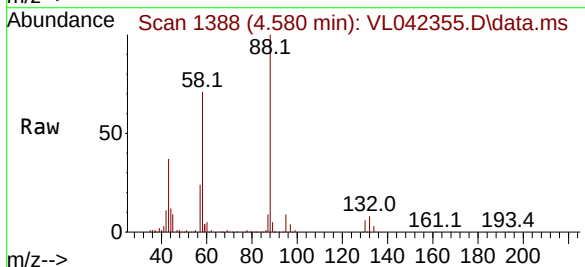
Ion Ratio Lower Upper

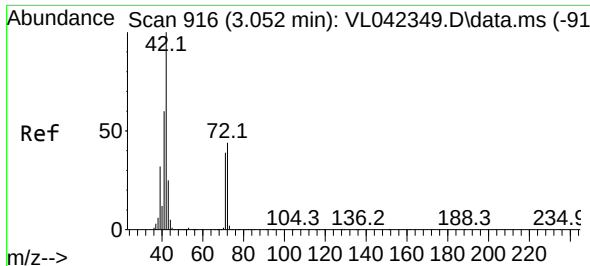
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8

57 0.0 0.0 0.0



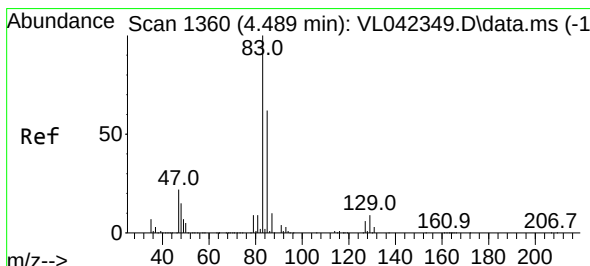
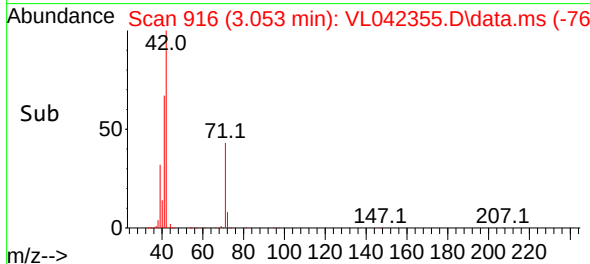
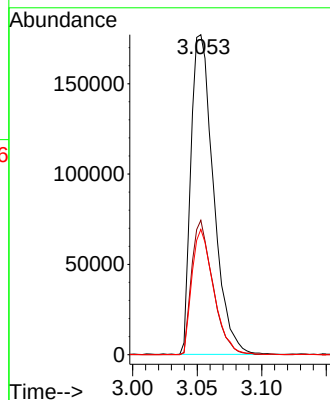
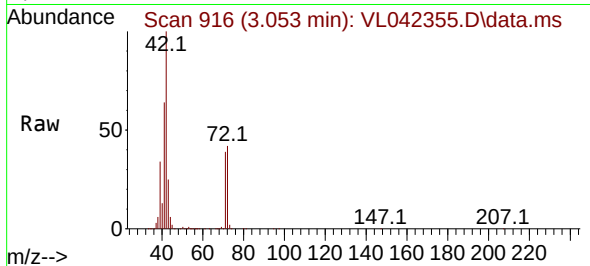


#41  
Tetrahydrofuran  
Concen: 14.166 ppbv  
RT: 3.053 min Scan# 916  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 42 Resp: 214949

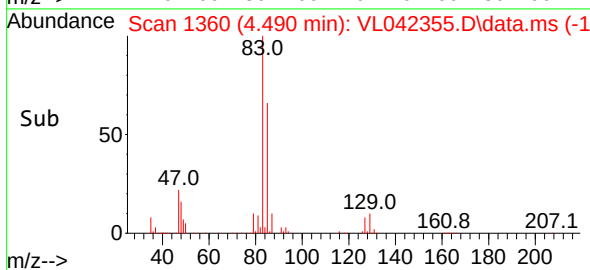
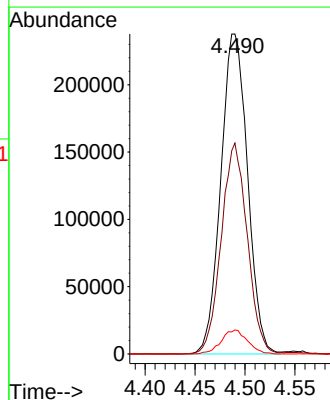
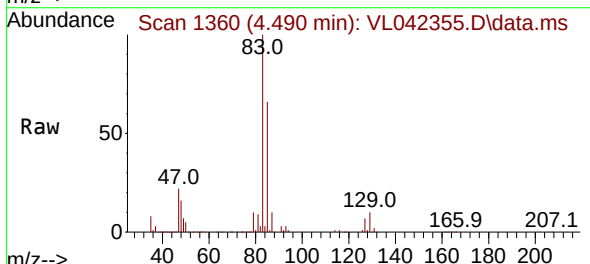
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 39.7  | 32.3  | 48.5  |
| 71  | 37.9  | 31.4  | 47.2  |

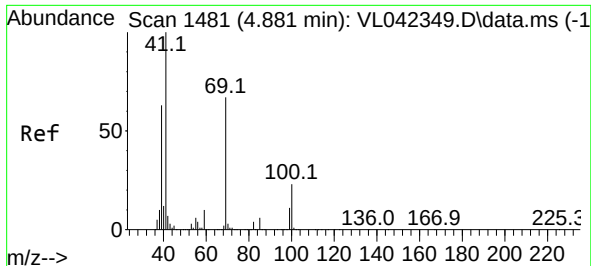


#42  
Bromodichloromethane  
Concen: 14.798 ppbv  
RT: 4.490 min Scan# 1360  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 65.9  | 49.7  | 74.5  |
| 127 | 7.5   | 5.1   | 7.7   |

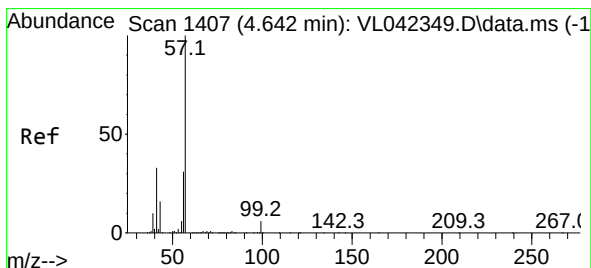
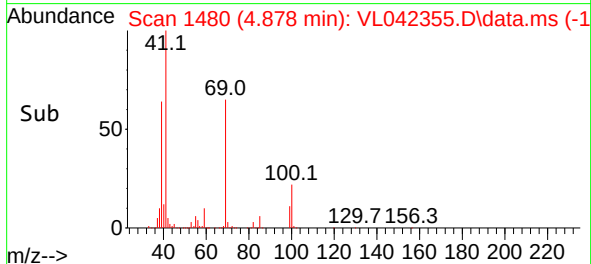
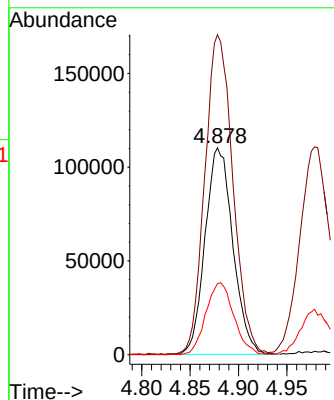
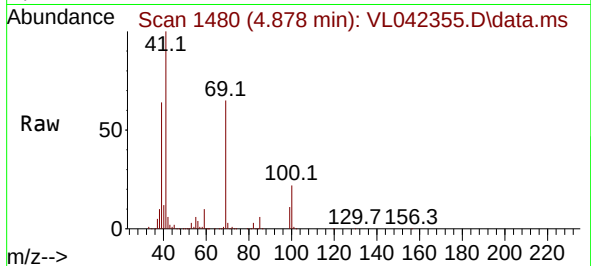




#43  
Methyl Methacrylate  
Concen: 13.670 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

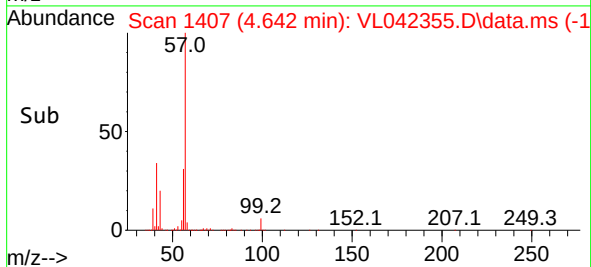
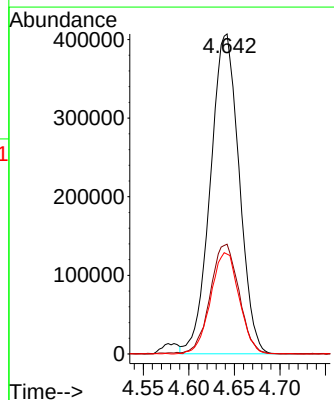
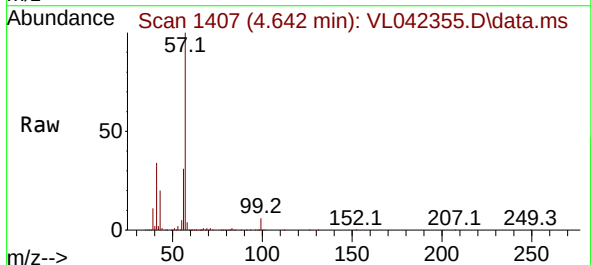
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

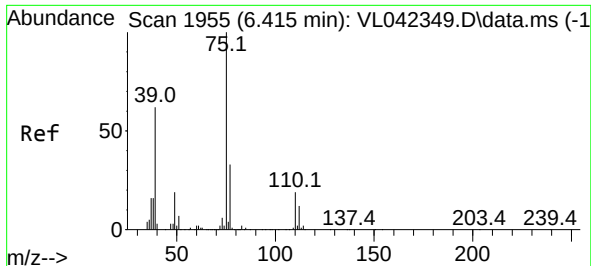
Tgt Ion: 69 Resp: 219757  
Ion Ratio Lower Upper  
69 100  
41 156.6 118.6 177.8  
100 35.2 28.2 42.2



#44  
2,2,4-Trimethylpentane  
Concen: 14.425 ppbv  
RT: 4.642 min Scan# 1407  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529  
Ion Ratio Lower Upper  
57 100  
41 34.4 27.2 40.8  
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 14.810 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

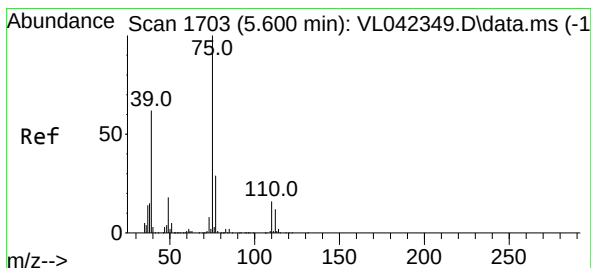
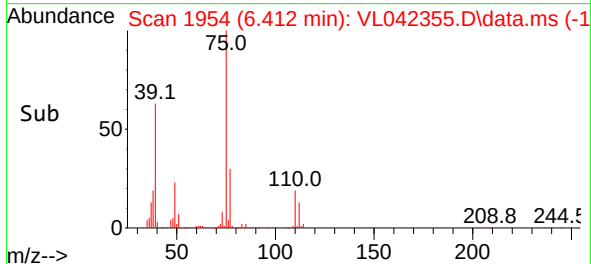
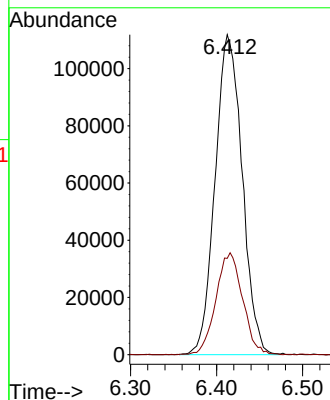
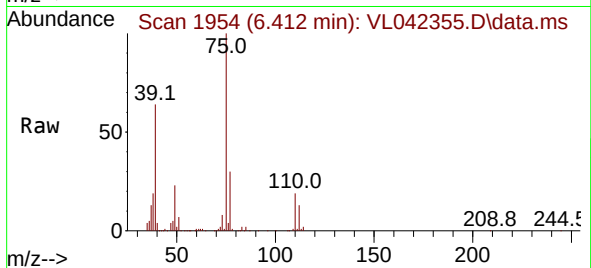
VSTDIC015

Tgt Ion: 75 Resp: 244470

Ion Ratio Lower Upper

75 100

77 30.1 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 14.878 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

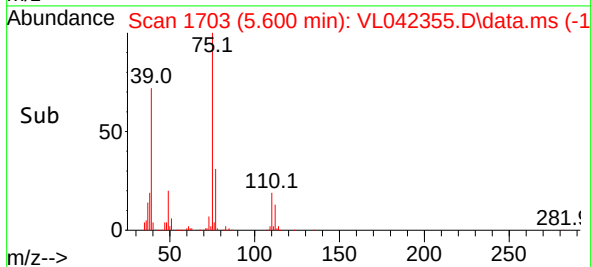
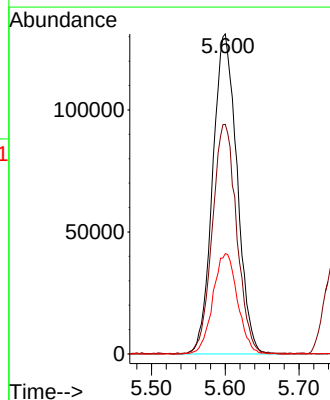
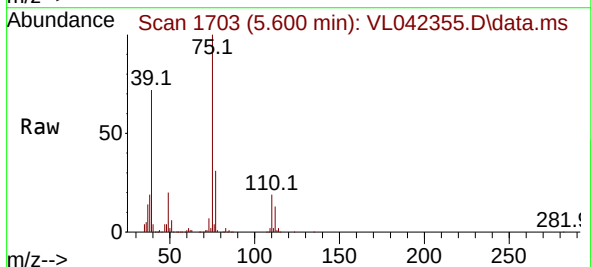
Tgt Ion: 75 Resp: 300145

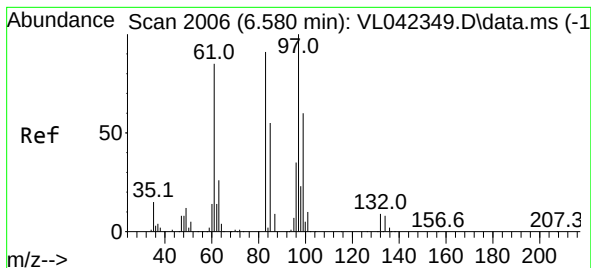
Ion Ratio Lower Upper

75 100

39 71.6 50.0 75.0

77 31.3 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 14.615 ppbv

RT: 6.581 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 198874

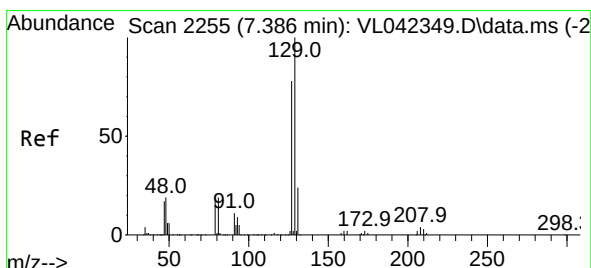
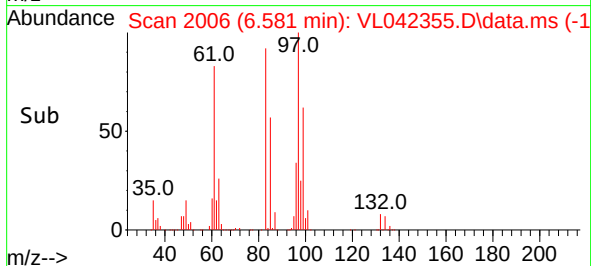
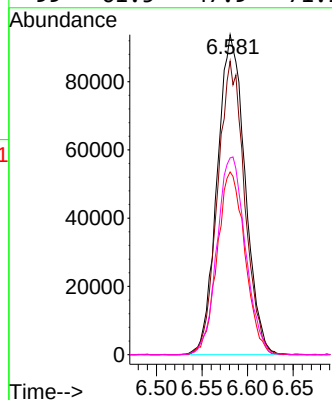
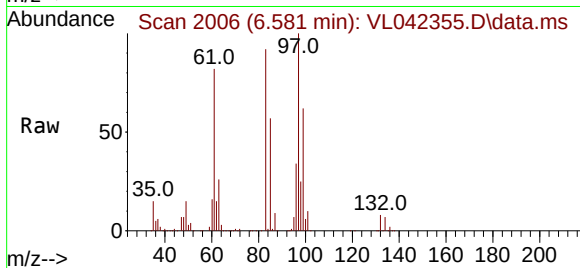
Ion Ratio Lower Upper

97 100

83 91.7 72.8 109.2

85 57.0 44.2 66.4

99 61.5 47.9 71.9



#48

Dibromochloromethane

Concen: 15.105 ppbv

RT: 7.390 min Scan# 2256

Delta R.T. 0.004 min

Lab File: VL042355.D

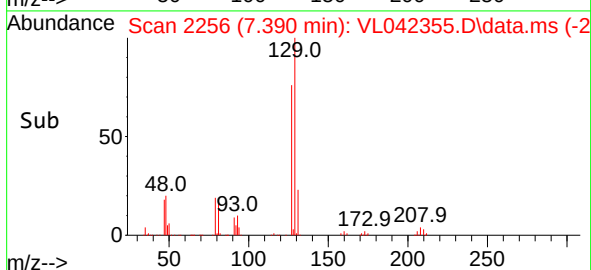
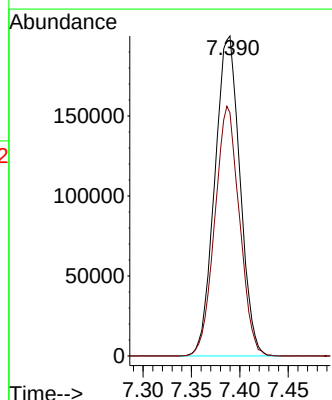
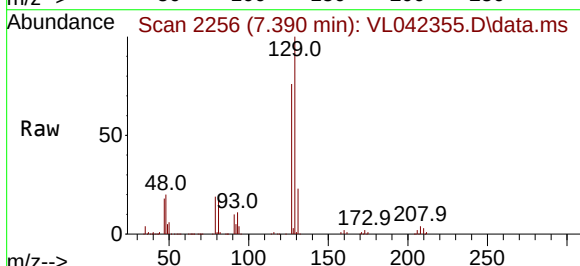
Acq: 17 Apr 2025 12:54

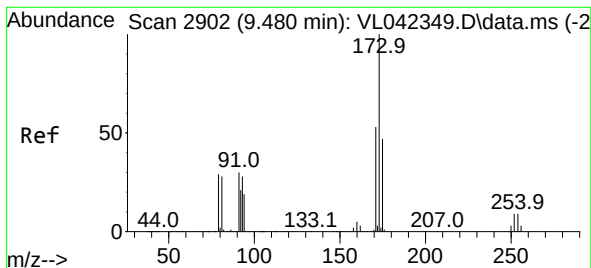
Tgt Ion: 129 Resp: 362887

Ion Ratio Lower Upper

129 100

127 76.3 39.1 117.3





#49

Bromoform

Concen: 14.865 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.004 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

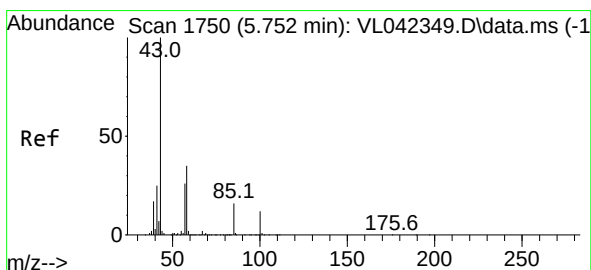
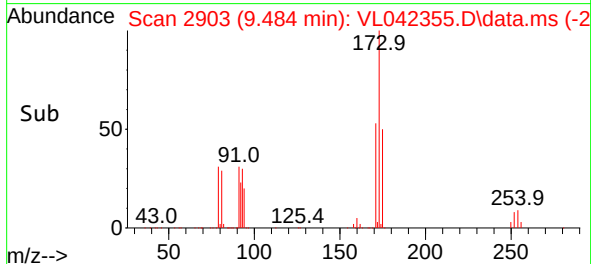
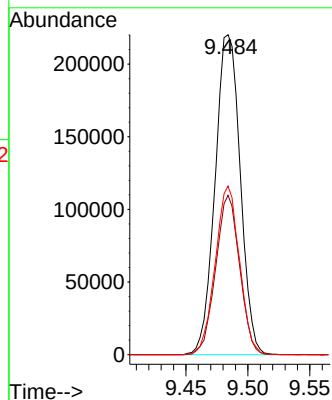
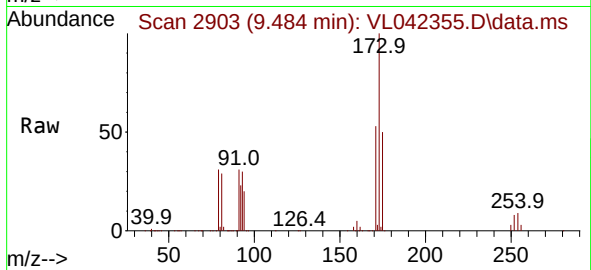
Tgt Ion:173 Resp: 312282

Ion Ratio Lower Upper

173 100

175 47.3 38.2 57.2

171 50.6 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 12.889 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.003 min

Lab File: VL042355.D

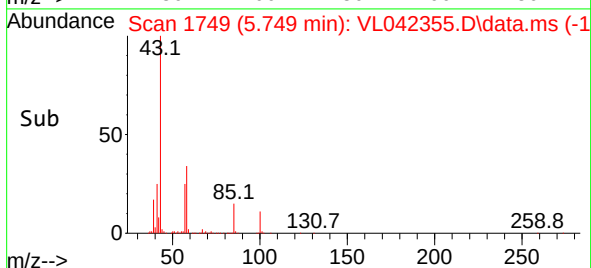
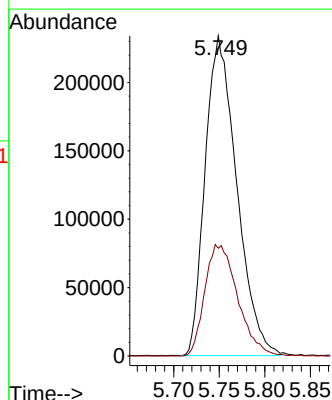
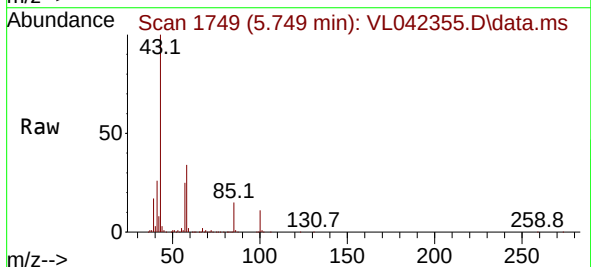
Acq: 17 Apr 2025 12:54

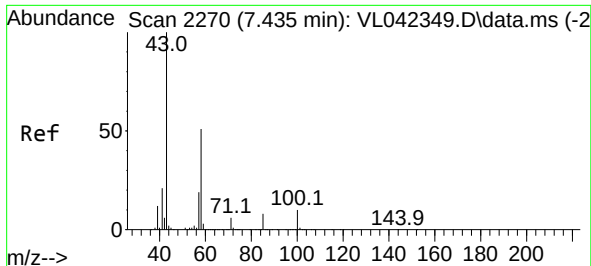
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

58 36.3 28.6 43.0

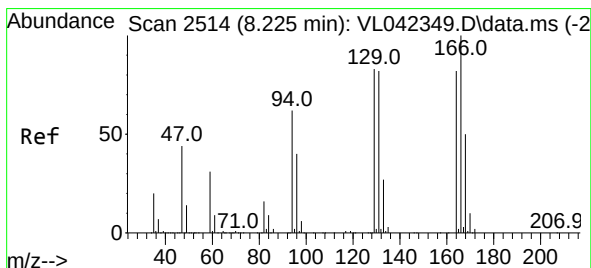
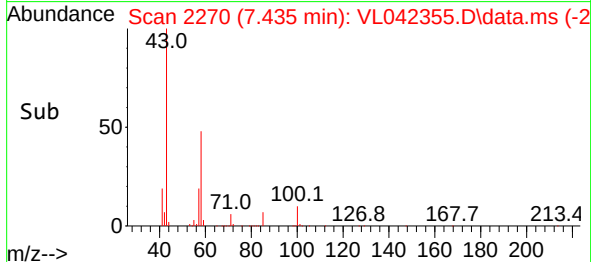
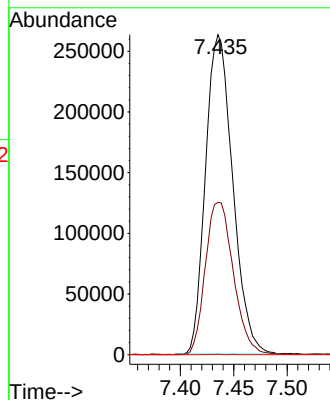
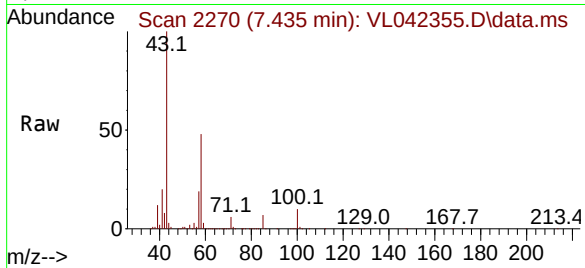




#51  
2-Hexanone  
Concen: 11.834 ppbv  
RT: 7.435 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

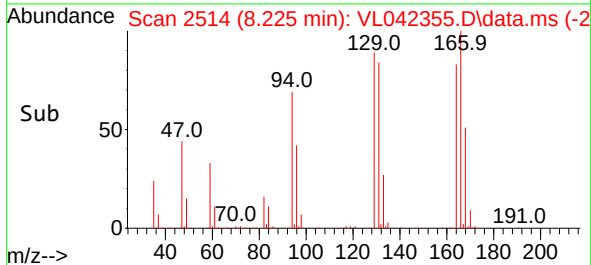
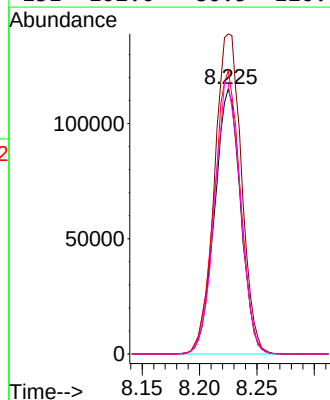
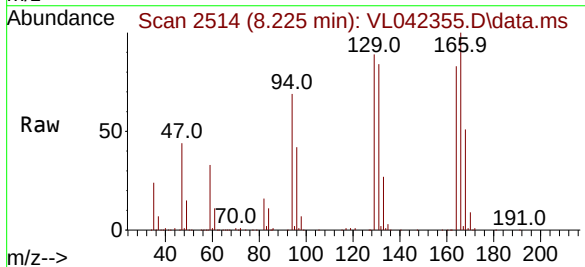
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 43 Resp: 467001  
Ion Ratio Lower Upper  
43 100  
58 49.2 40.2 60.4  
98 0.0 0.1 0.1#

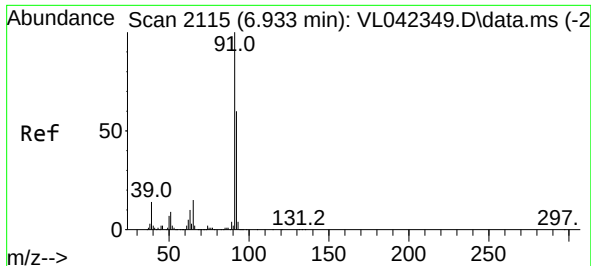


#52  
Tetrachloroethene  
Concen: 13.046 ppbv  
RT: 8.225 min Scan# 2514  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 164 Resp: 180631  
Ion Ratio Lower Upper  
164 100  
166 120.8 98.2 147.2  
129 107.0 81.8 122.8  
131 102.0 80.5 120.7



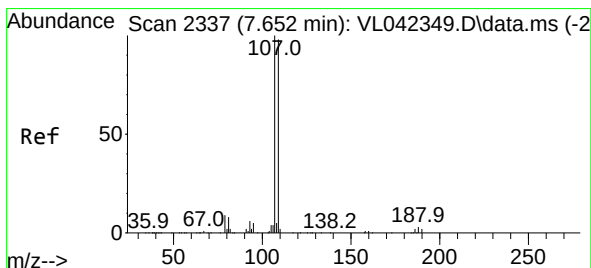
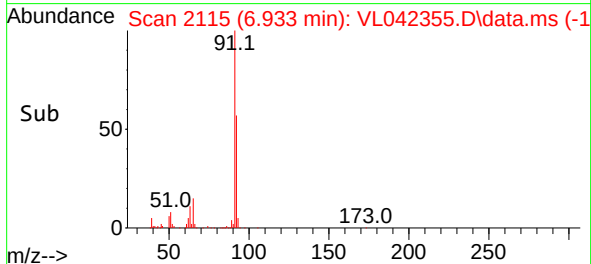
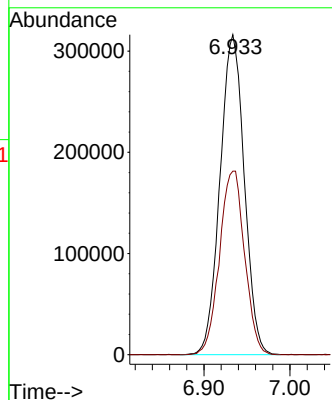
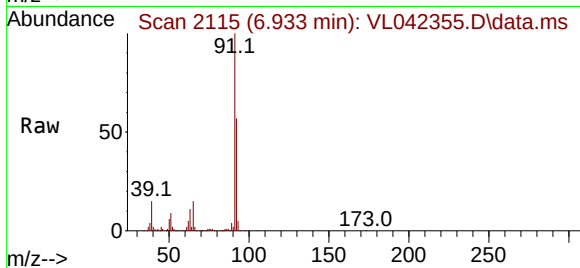




#53  
Toluene  
Concen: 14.411 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

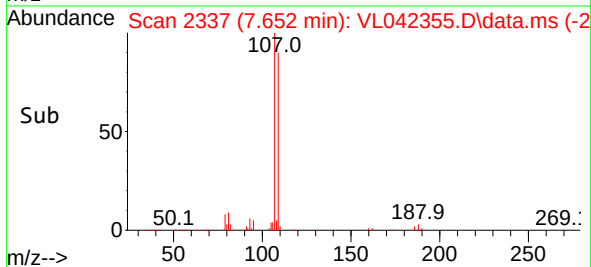
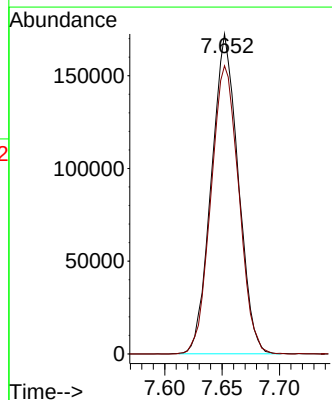
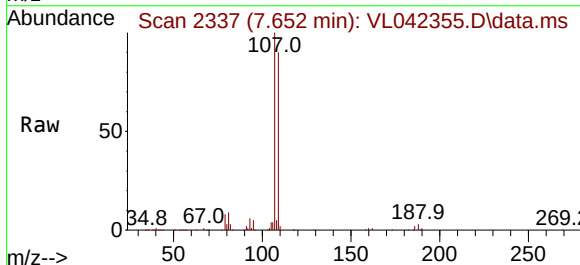
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

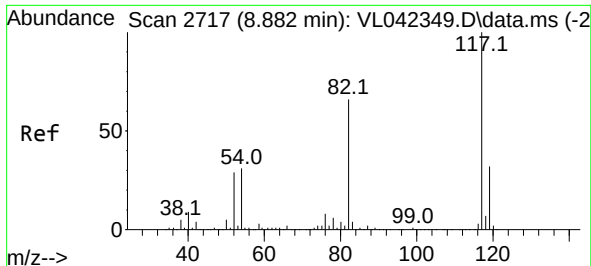
Tgt Ion: 91 Resp: 619420  
Ion Ratio Lower Upper  
91 100  
92 59.3 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 14.442 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 107 Resp: 280071  
Ion Ratio Lower Upper  
107 100  
109 89.9 78.2 117.4

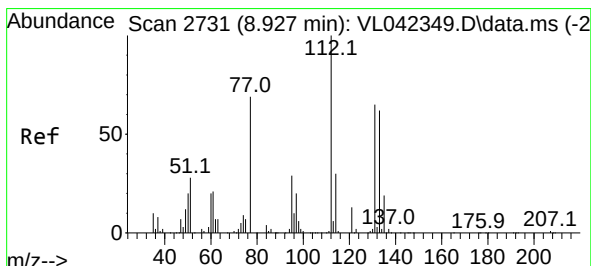
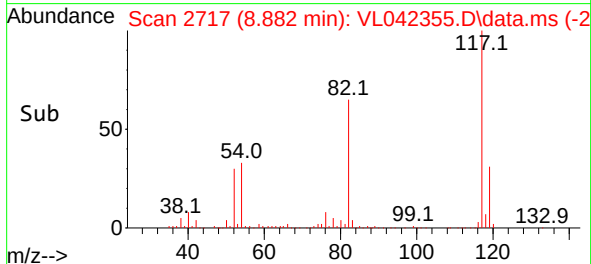
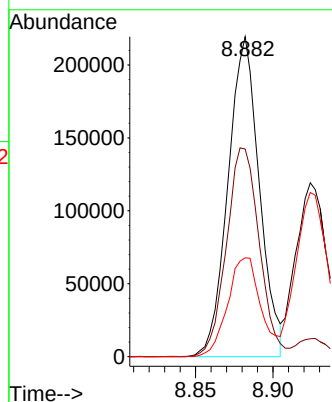
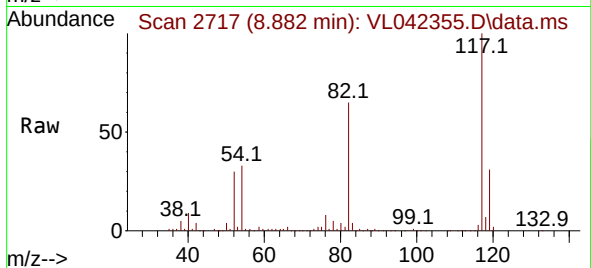




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

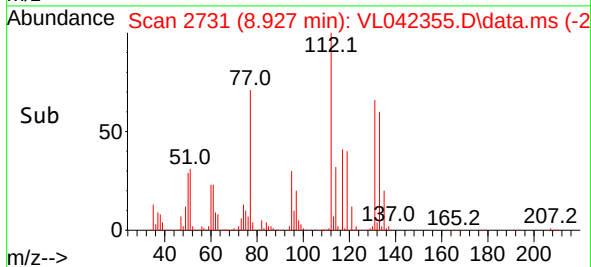
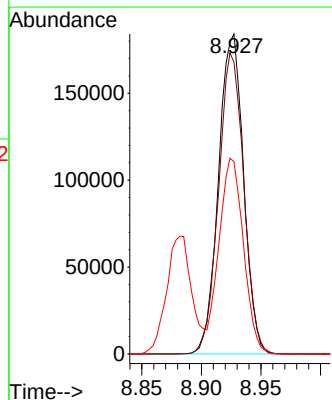
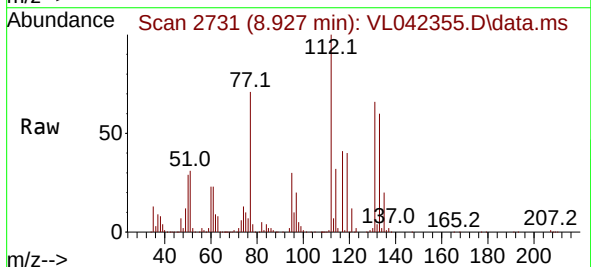
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

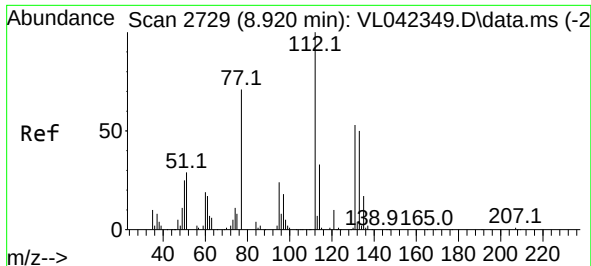
Tgt Ion:117 Resp: 308463  
Ion Ratio Lower Upper  
117 100  
82 74.2 57.8 86.6  
119 31.4 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 14.389 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626  
Ion Ratio Lower Upper  
131 100  
133 94.6 78.3 117.5  
119 59.4 48.7 73.1

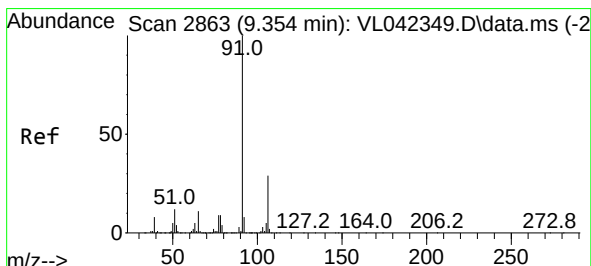
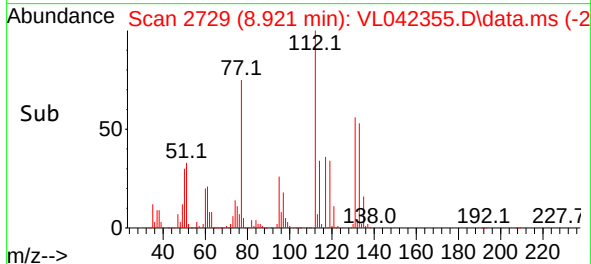
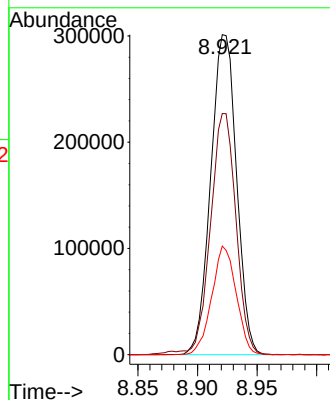
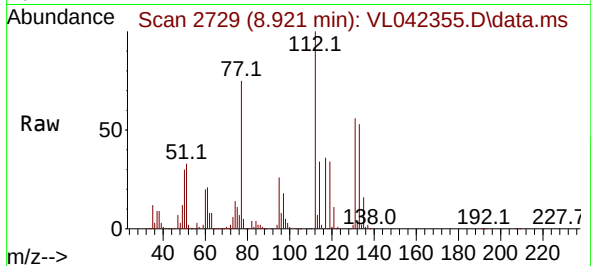




#57  
Chlorobenzene  
Concen: 14.151 ppbv  
RT: 8.921 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

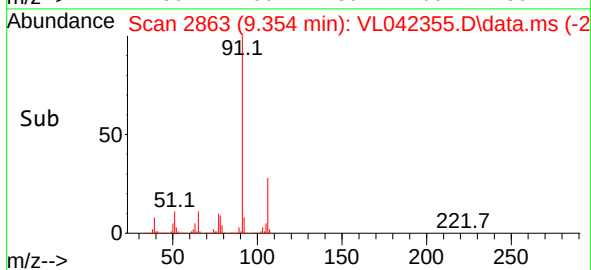
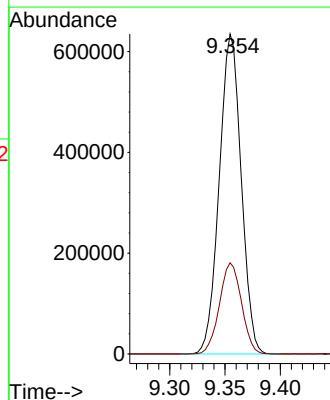
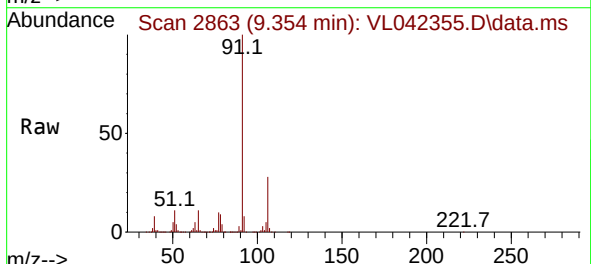
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

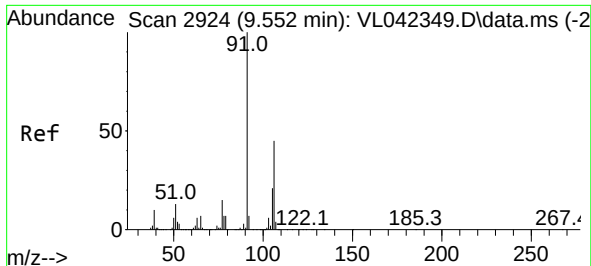
Tgt Ion:112 Resp: 454017  
Ion Ratio Lower Upper  
112 100  
77 75.3 57.8 86.6  
114 33.9 29.3 35.9



#58  
Ethyl Benzene  
Concen: 14.308 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424  
Ion Ratio Lower Upper  
91 100  
106 28.5 23.0 34.4





#59

m/p-Xylene

Concen: 13.067 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

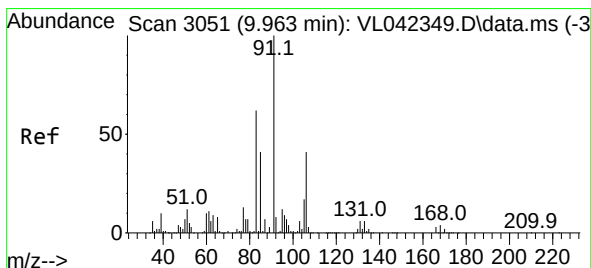
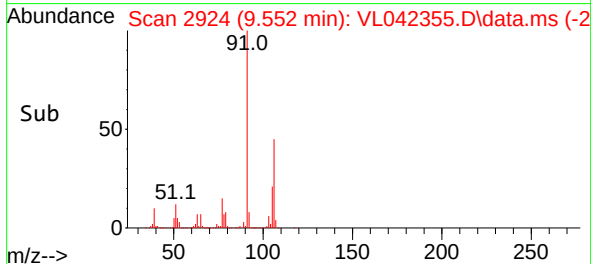
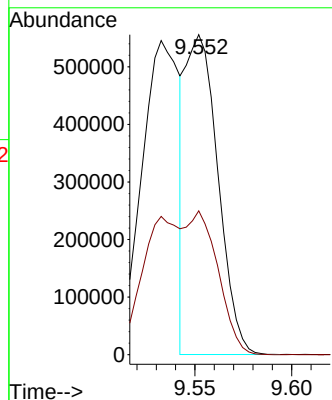
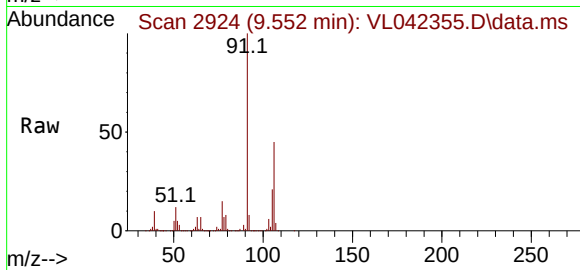
VSTDIC015

Tgt Ion: 91 Resp: 645250

Ion Ratio Lower Upper

91 100

106 95.8 35.4 53.2#



#60

o-Xylene

Concen: 13.902 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042355.D

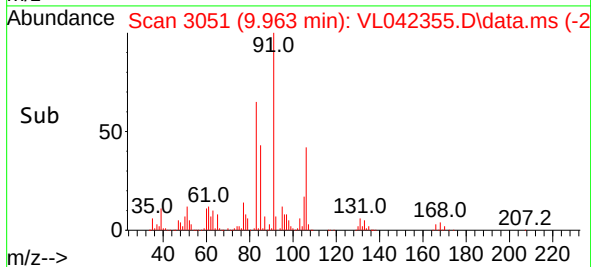
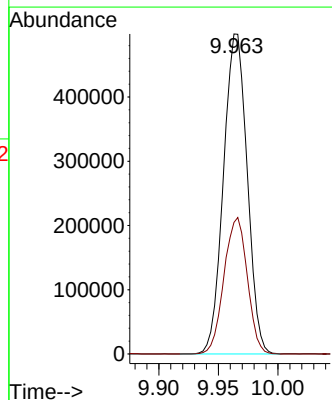
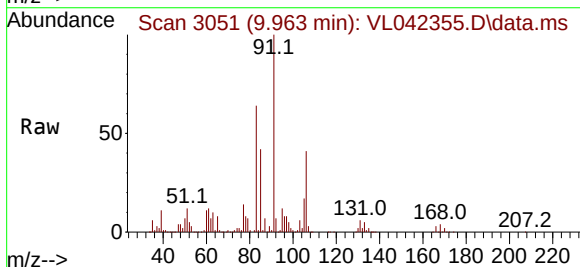
Acq: 17 Apr 2025 12:54

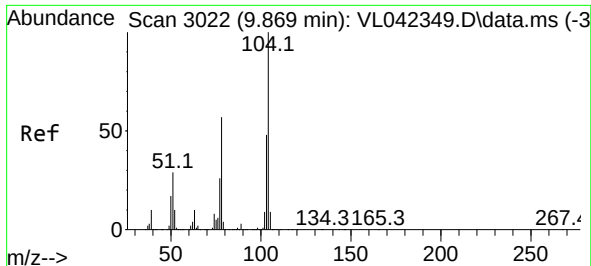
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4

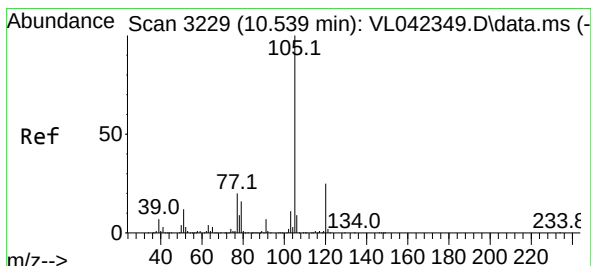
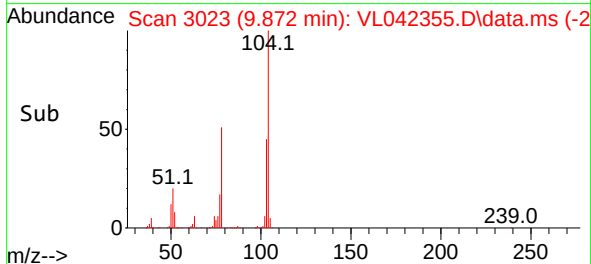
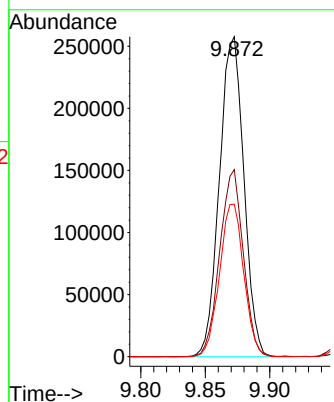
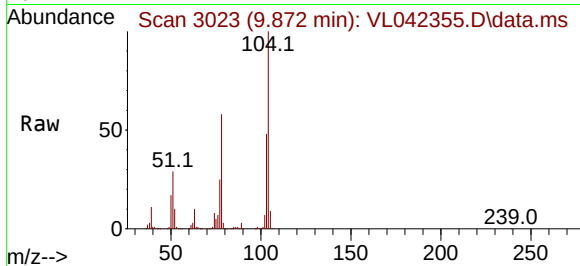




#61  
Styrene  
Concen: 14.347 ppbv  
RT: 9.872 min Scan# 3023  
Delta R.T. 0.004 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

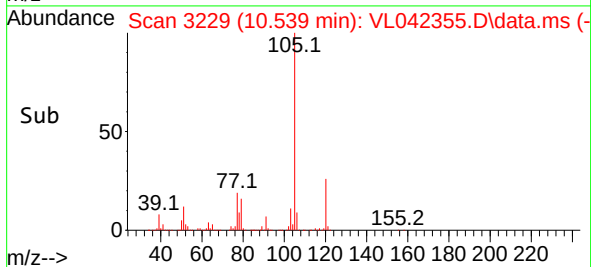
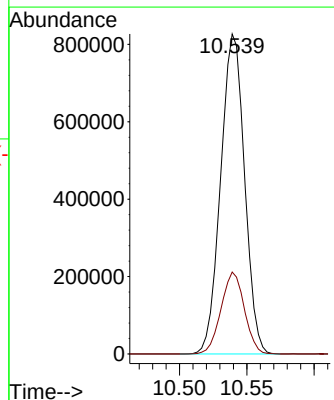
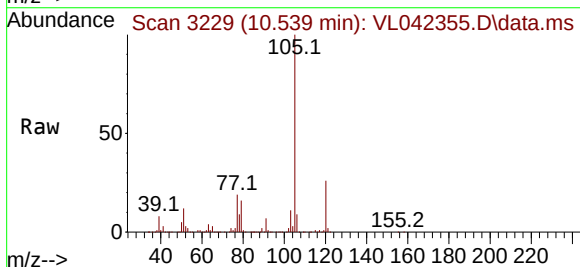
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

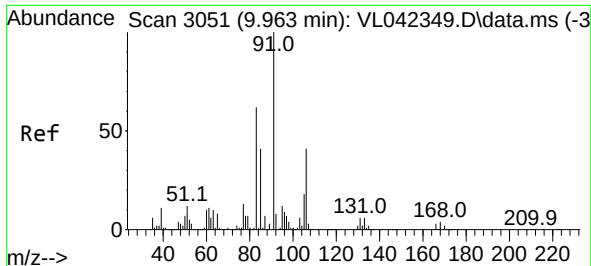
Tgt Ion:104 Resp: 339508  
Ion Ratio Lower Upper  
104 100  
78 56.4 44.6 66.8  
103 47.3 37.4 56.0



#62  
Isopropylbenzene  
Concen: 13.999 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968  
Ion Ratio Lower Upper  
105 100  
120 25.0 19.8 29.8

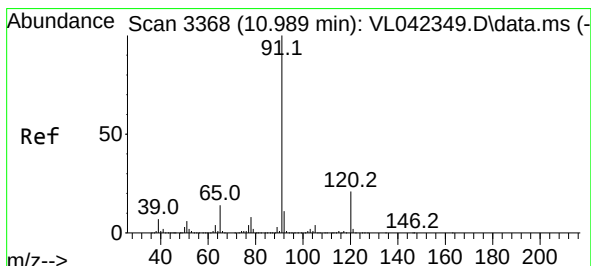
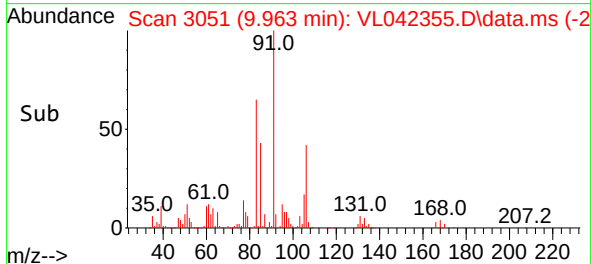
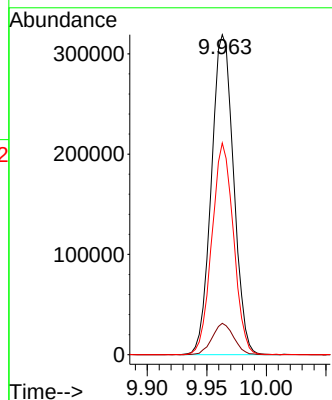
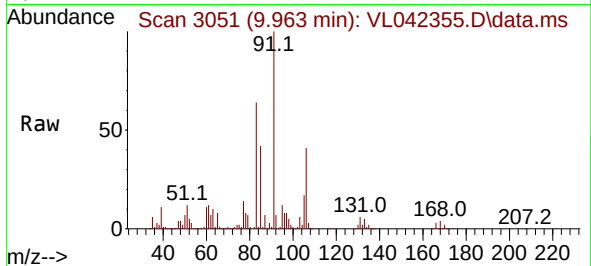




#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.816 ppbv  
RT: 9.963 min Scan# 3051  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

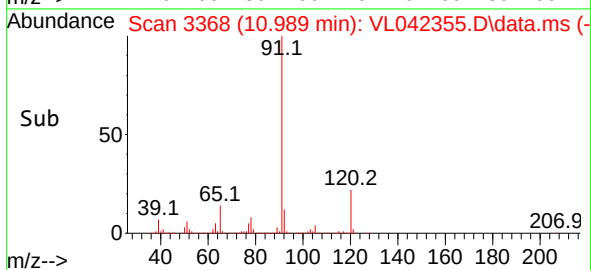
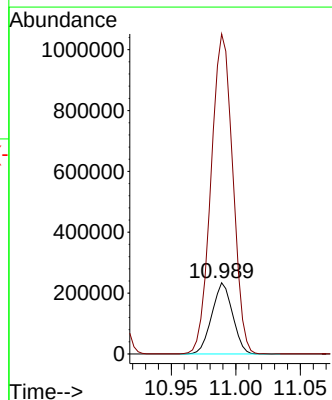
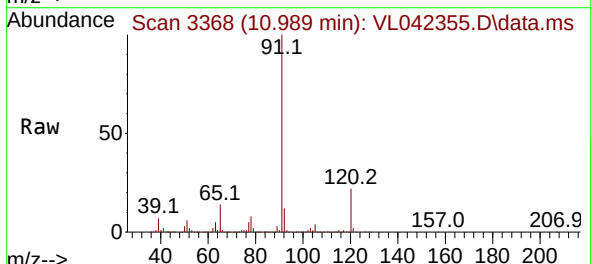
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

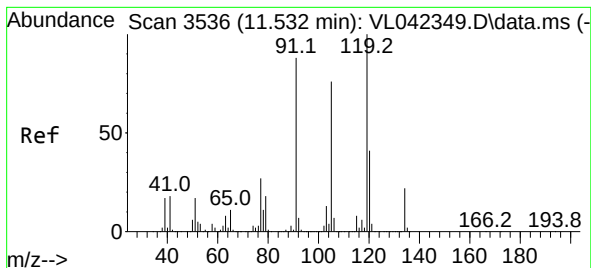
Tgt Ion: 83 Resp: 412898  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.5 13.7  
85 64.5 32.4 97.0



#64  
n-propylbenzene  
Concen: 14.255 ppbv  
RT: 10.989 min Scan# 3368  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion: 120 Resp: 260812  
Ion Ratio Lower Upper  
120 100  
91 473.2 392.4 588.6





#65

tert-Butylbenzene

Concen: 13.449 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

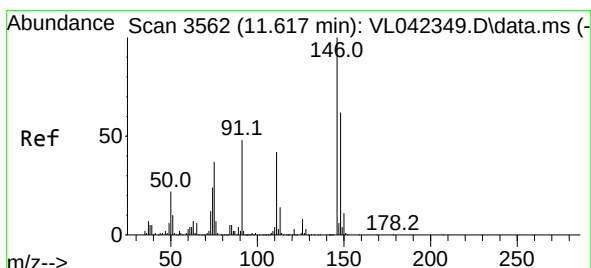
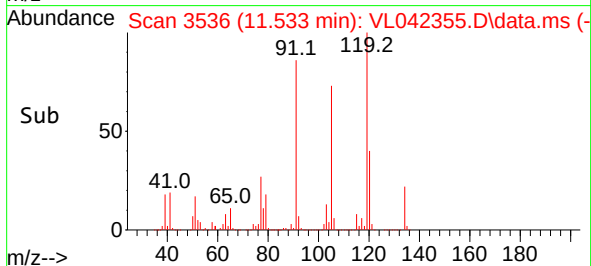
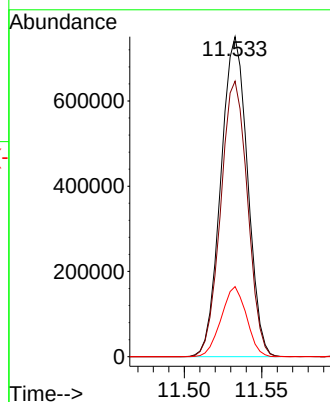
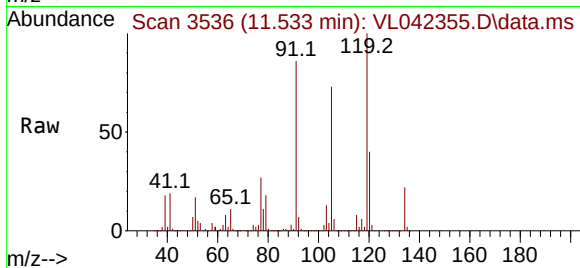
Tgt Ion:119 Resp: 899720

Ion Ratio Lower Upper

119 100

91 86.2 74.6 111.8

134 20.8 18.8 28.2



#66

Benzyl Chloride

Concen: 13.061 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

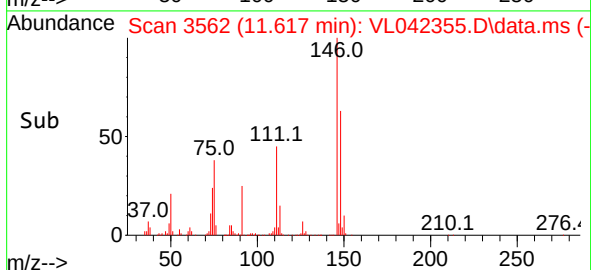
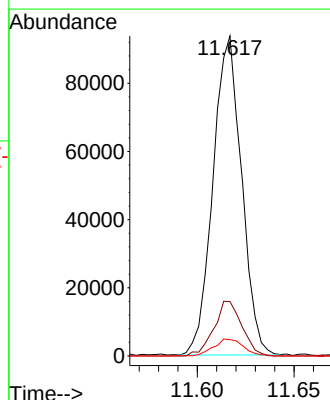
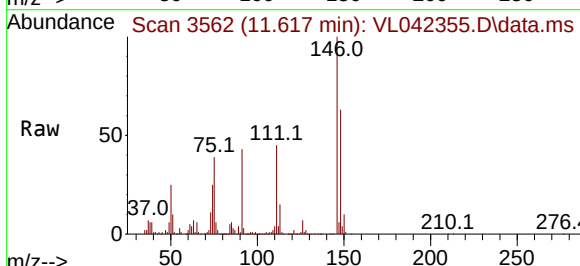
Tgt Ion: 91 Resp: 96016

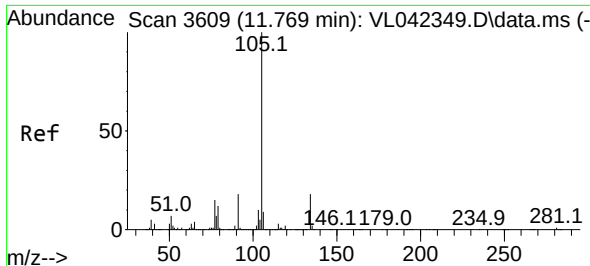
Ion Ratio Lower Upper

91 100

126 16.8 11.8 17.6

128 5.5 4.5 6.7

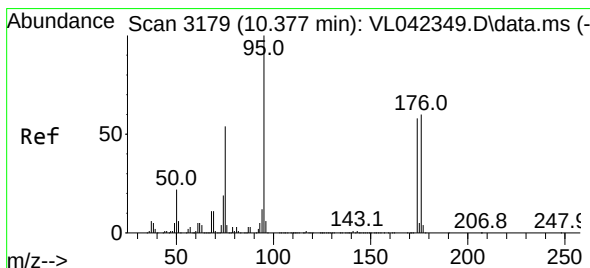
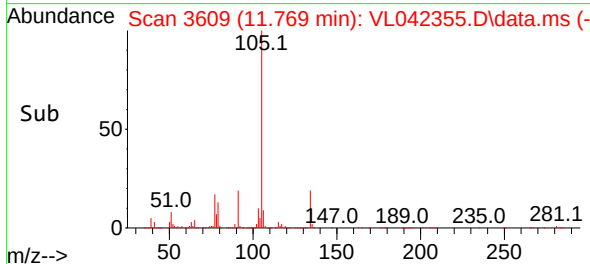
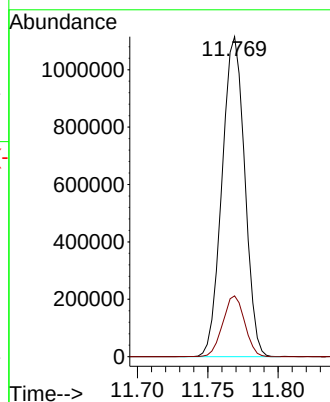
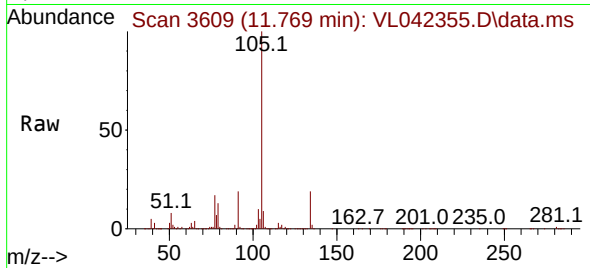




#67  
 sec-Butylbenzene  
 Concen: 13.468 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

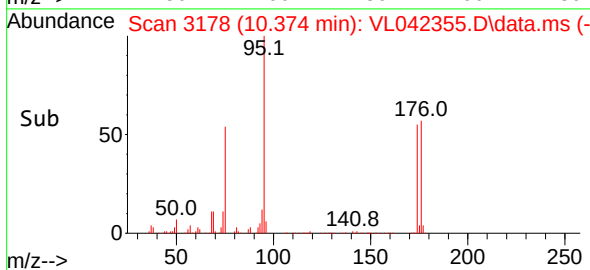
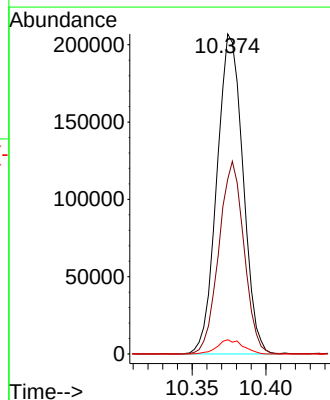
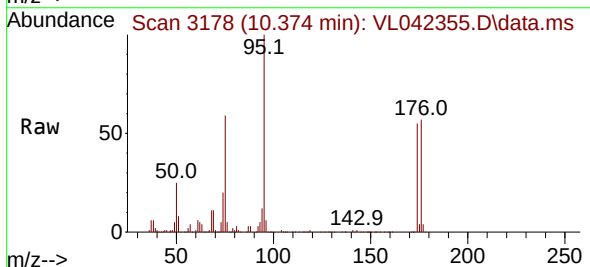
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion:105 Resp: 1253263  
 Ion Ratio Lower Upper  
 105 100  
 134 18.4 14.6 21.8

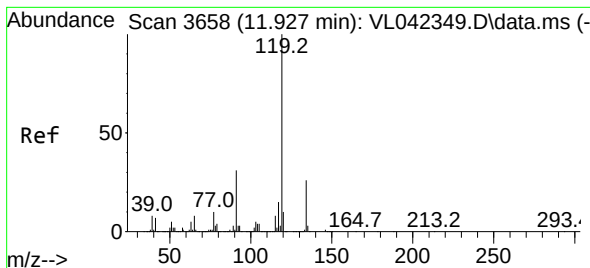


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.038 ppbv  
 RT: 10.374 min Scan# 3178  
 Delta R.T. -0.003 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437  
 Ion Ratio Lower Upper  
 95 100  
 174 58.1 48.5 72.7  
 175 4.4 3.7 5.5







#69

p-Isopropyltoluene

Concen: 13.382 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

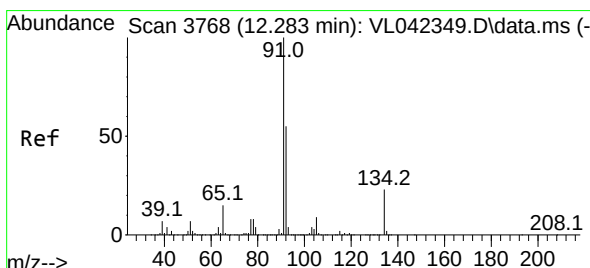
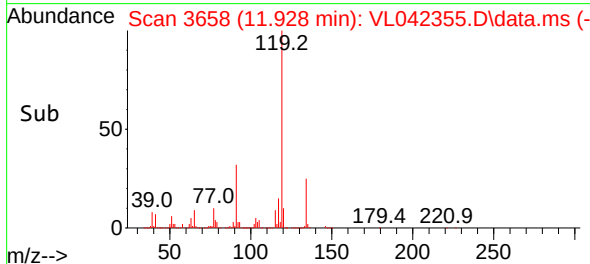
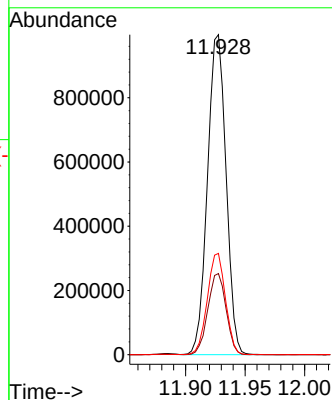
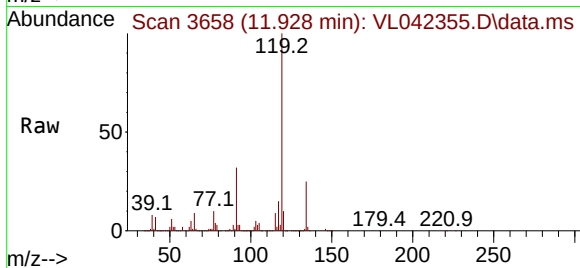
Tgt Ion:119 Resp: 1081850

Ion Ratio Lower Upper

119 100

134 25.0 20.0 30.0

91 31.1 24.4 36.6



#70

n-Butylbenzene

Concen: 13.266 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

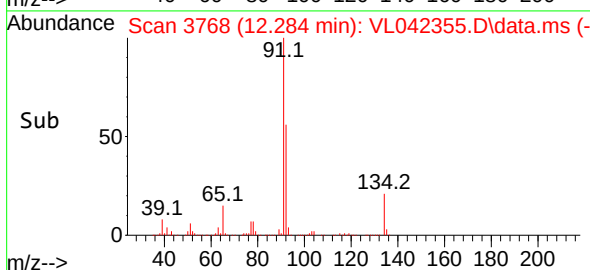
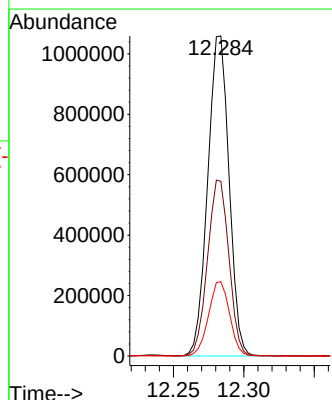
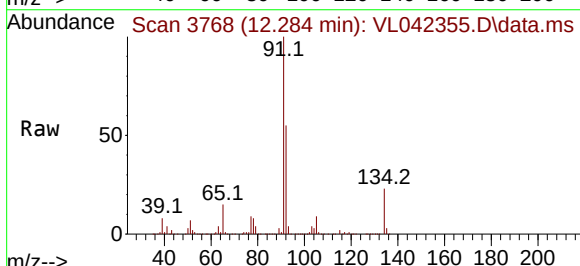
Tgt Ion: 91 Resp: 1117042

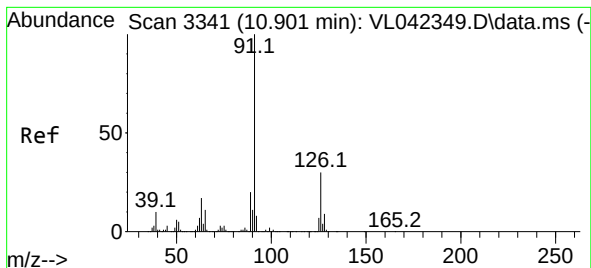
Ion Ratio Lower Upper

91 100

92 55.3 44.2 66.4

134 23.0 18.2 27.4

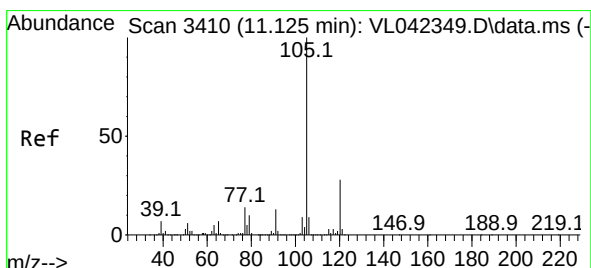
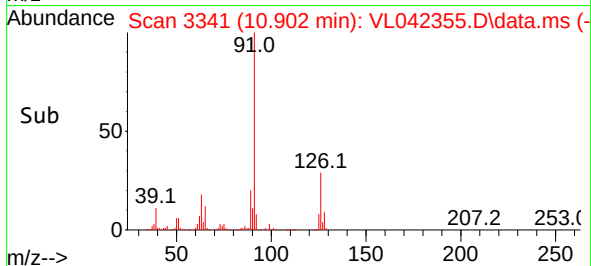
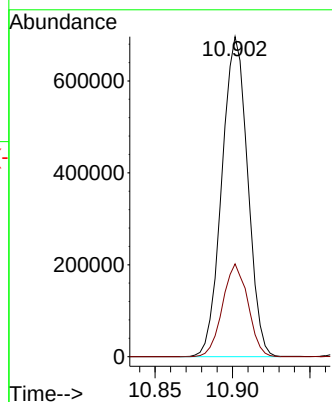
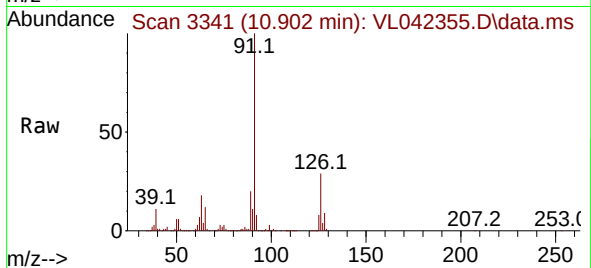




#71  
2-Chlorotoluene  
Concen: 14.131 ppbv  
RT: 10.902 min Scan# 3341  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

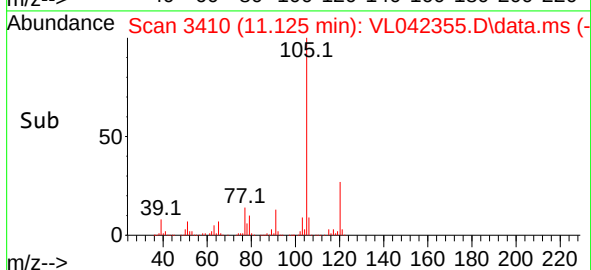
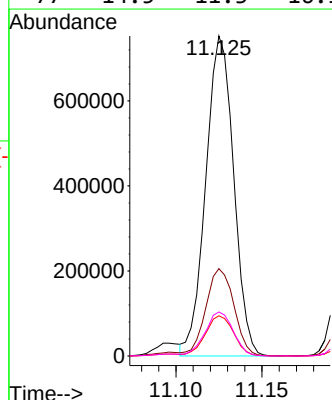
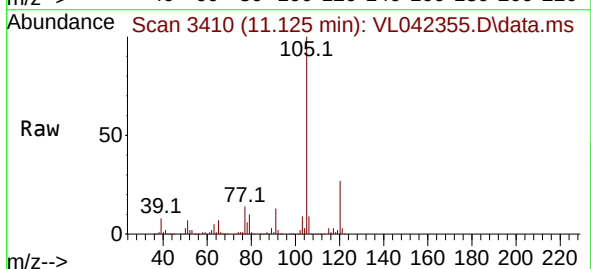
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

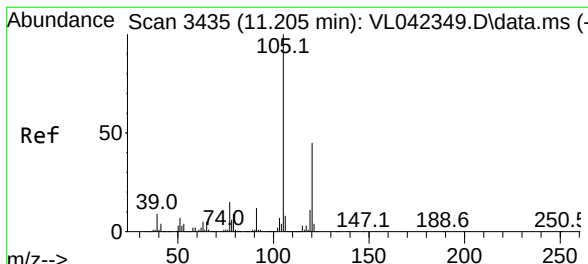
Tgt Ion: 91 Resp: 806728  
Ion Ratio Lower Upper  
91 100  
126 28.4 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 13.992 ppbv  
RT: 11.125 min Scan# 3410  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077  
Ion Ratio Lower Upper  
105 100  
120 28.7 23.2 34.8  
91 13.5 10.4 15.6  
77 14.5 11.3 16.9

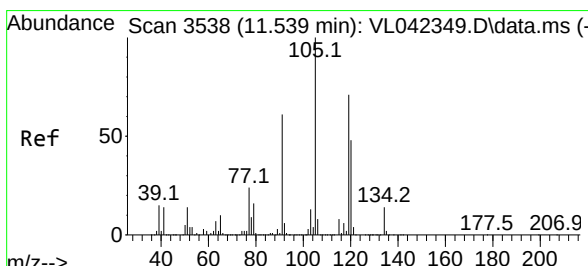
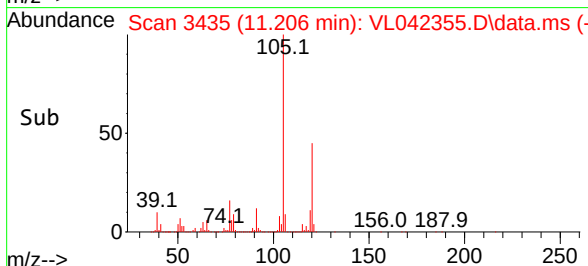
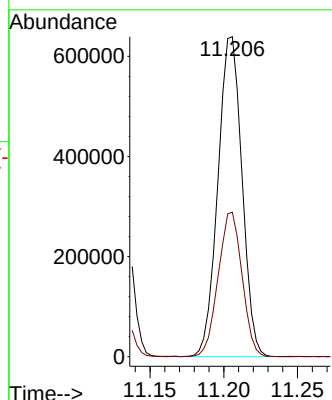
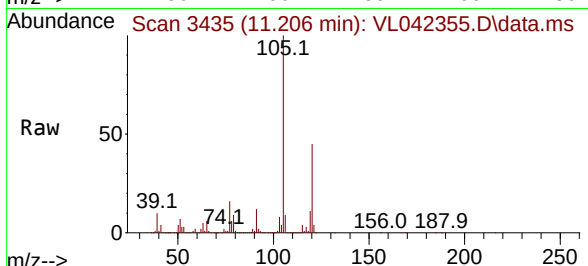




#73  
 1,3,5-Trimethylbenzene  
 Concen: 13.578 ppbv  
 RT: 11.206 min Scan# 3435  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

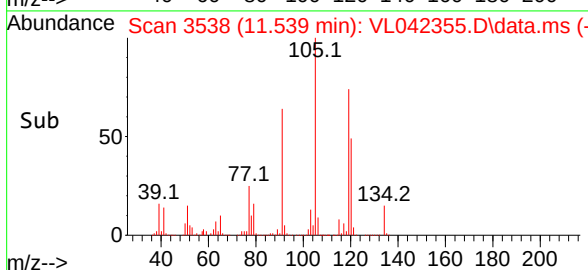
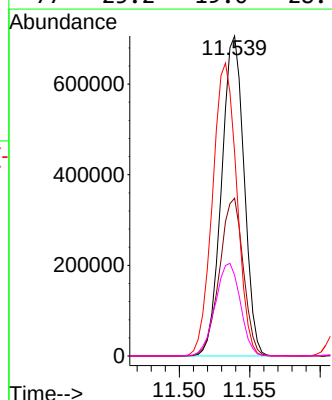
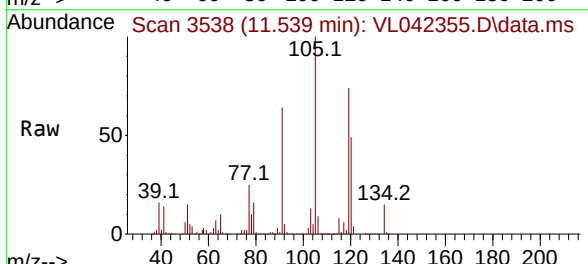
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

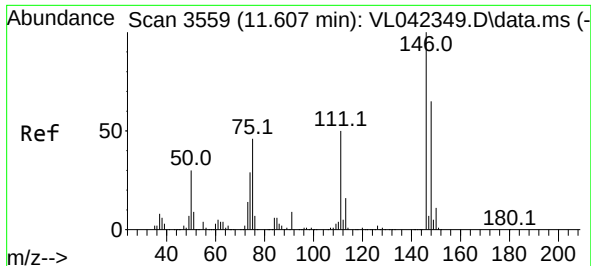
Tgt Ion:105 Resp: 726558  
 Ion Ratio Lower Upper  
 105 100  
 120 45.1 35.6 53.4



#74  
 1,2,4-Trimethylbenzene  
 Concen: 12.572 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772  
 Ion Ratio Lower Upper  
 105 100  
 120 49.3 38.1 57.1  
 91 63.7 48.8 73.2  
 77 25.2 19.0 28.4

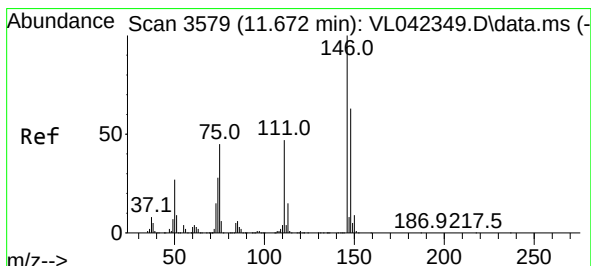
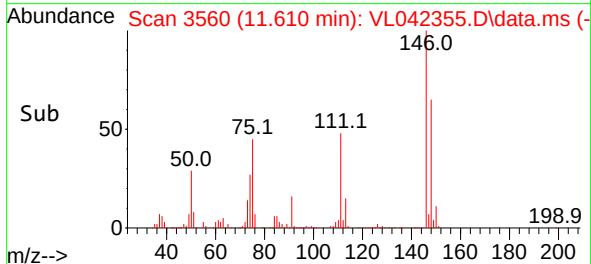
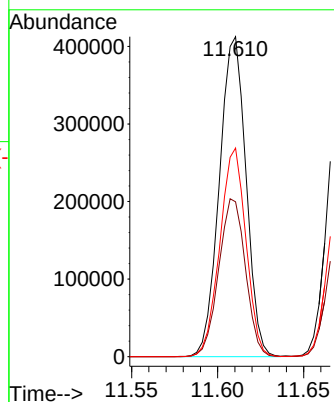
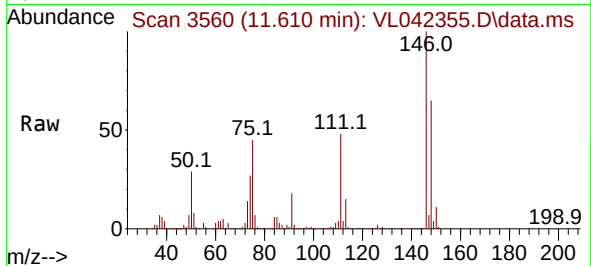




#75  
1,3-Dichlorobenzene  
Concen: 13.670 ppbv  
RT: 11.610 min Scan# 3560  
Delta R.T. 0.004 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

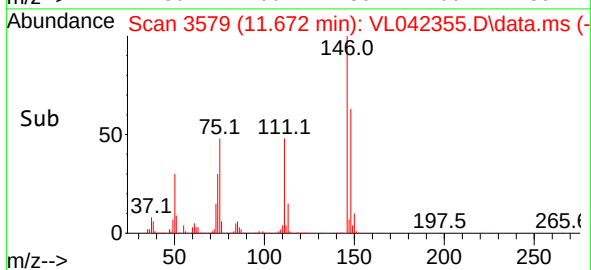
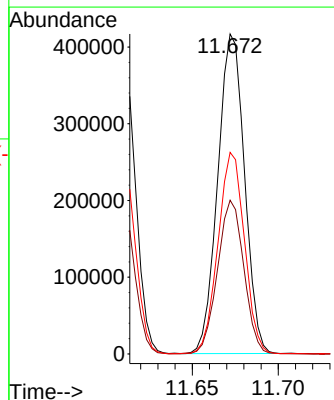
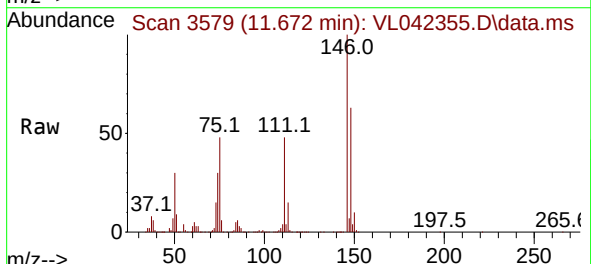
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

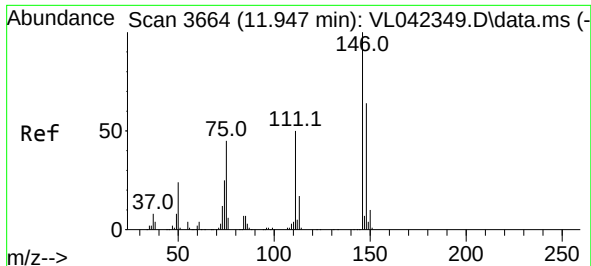
Tgt Ion:146 Resp: 444086  
Ion Ratio Lower Upper  
146 100  
111 49.6 24.3 72.8  
148 63.9 31.6 94.8



#76  
1,4-Dichlorobenzene  
Concen: 13.802 ppbv  
RT: 11.672 min Scan# 3579  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662  
Ion Ratio Lower Upper  
146 100  
111 47.4 24.2 72.6  
148 62.6 32.1 96.5

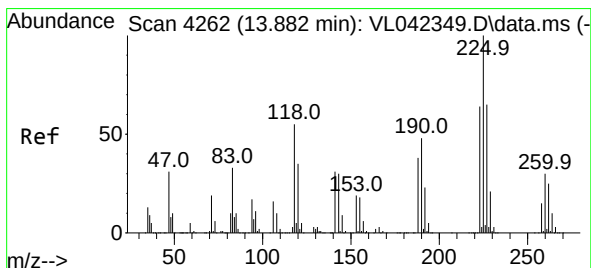
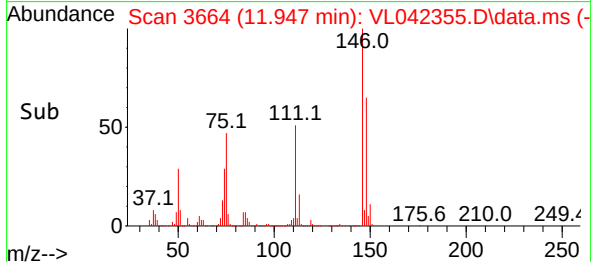
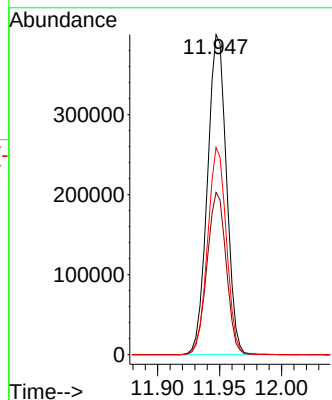
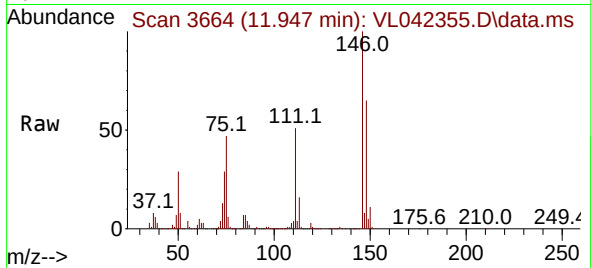




#77  
1,2-Dichlorobenzene  
Concen: 13.529 ppbv  
RT: 11.947 min Scan# 3664  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

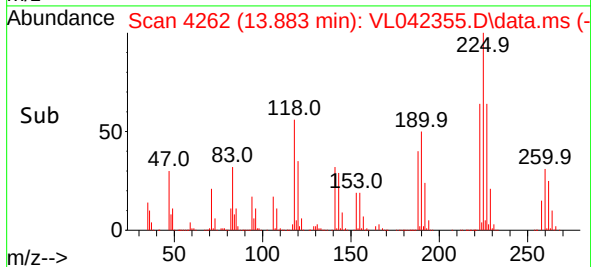
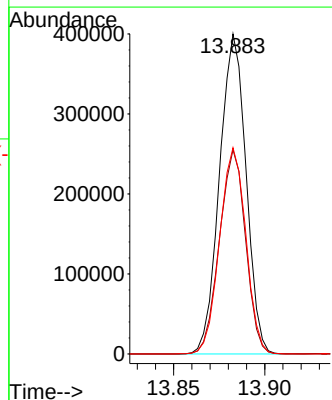
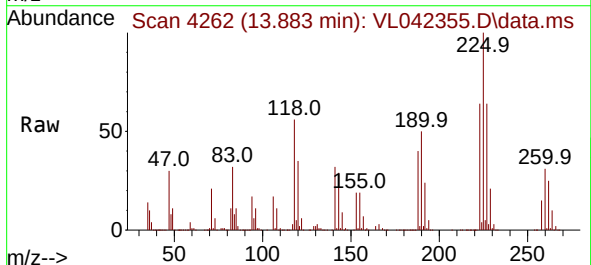
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

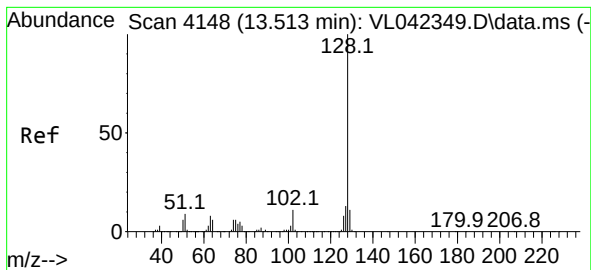
Tgt Ion:146 Resp: 427372  
Ion Ratio Lower Upper  
146 100  
111 51.3 25.3 75.9  
148 63.8 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 12.679 ppbv  
RT: 13.883 min Scan# 4262  
Delta R.T. 0.000 min  
Lab File: VL042355.D  
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441  
Ion Ratio Lower Upper  
225 100  
223 62.8 50.3 75.5  
227 63.8 51.5 77.3





#79

Naphthalene

Concen: 12.632 ppbv

RT: 13.514 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

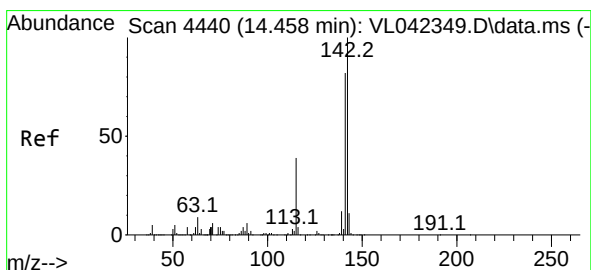
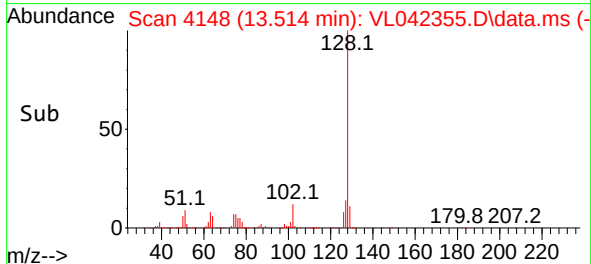
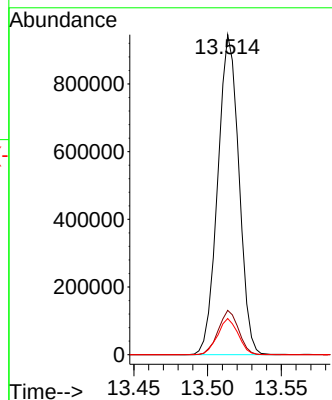
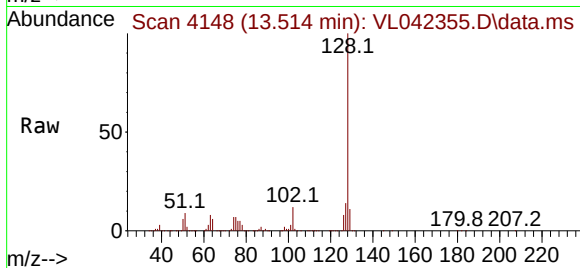
Tgt Ion:128 Resp: 944085

Ion Ratio Lower Upper

128 100

127 13.9 10.6 15.8

129 11.3 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 12.686 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

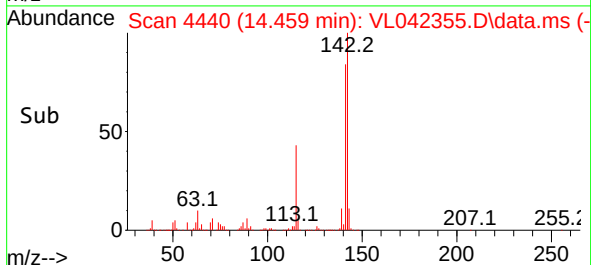
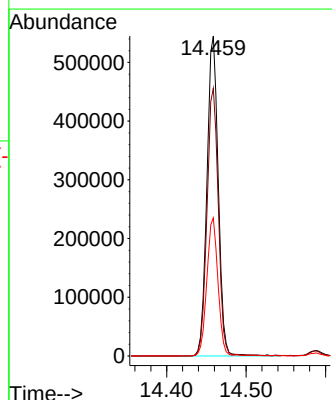
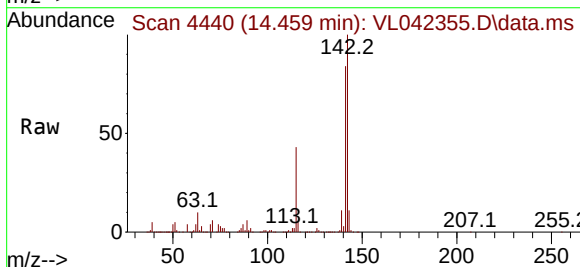
Tgt Ion:142 Resp: 540339

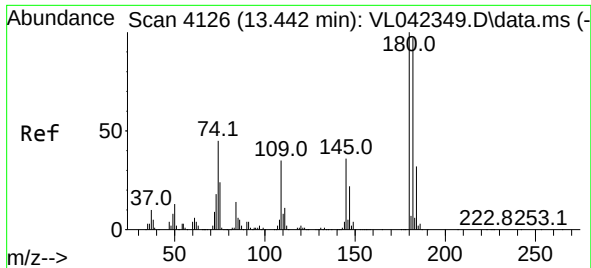
Ion Ratio Lower Upper

142 100

141 84.3 66.8 100.2

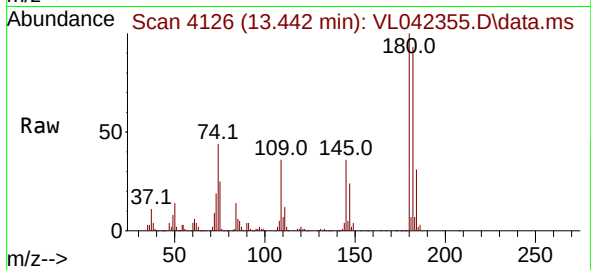
115 43.0 33.4 50.2



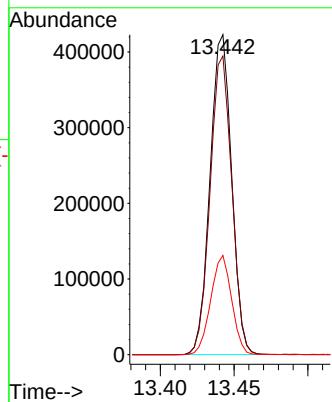
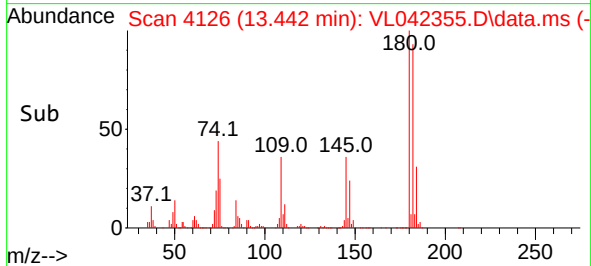


#81  
 1,2,4-Trichlorobenzene  
 Concen: 13.398 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042355.D  
 Acq: 17 Apr 2025 12:54

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion:180 Resp: 429982  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 76.8 115.2  
 184 30.2 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 113992   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.958  | 114   | 324528   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.881  | 117   | 305357   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 250149   | 9.969    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.700%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 197623   | 9.812    | ppbv   | 100      |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 191010   | 9.960    | ppbv   | 99       |
| 4) Chloromethane              | 1.531  | 50    | 78080    | 9.796    | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.580  | 62    | 75628    | 8.717    | ppbv   | 97       |
| 6) Bromomethane               | 1.667  | 94    | 35115    | 9.422    | ppbv   | 84       |
| 7) Chloroethane               | 1.703  | 64    | 30158    | 9.612    | ppbv   | 99       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 172863   | 9.997    | ppbv   | 98       |
| 9) Propene                    | 1.482  | 41    | 84636    | 9.690    | ppbv   | 95       |
| 10) Heptane                   | 4.978  | 43    | 221840   | 9.041    | ppbv   | 98       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 187827   | 9.807    | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 148485   | 9.482    | ppbv   | 100      |
| 13) Ethanol                   | 1.722  | 45    | 4171     | 3.005    | ppbv   | 97       |
| 14) Bromoethene               | 1.780  | 108   | 58320    | 9.880    | ppbv   | 99       |
| 15) Acetone                   | 1.835  | 43    | 158708   | 8.505    | ppbv   | 100      |
| 16) 1,3-Butadiene             | 1.609  | 39    | 78804    | 8.829    | ppbv   | 95       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 218954   | 9.468    | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 2.033  | 96    | 67940    | 9.287    | ppbv   | 94       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 96365    | 9.296    | ppbv   | 95       |
| 20) Methylene Chloride        | 2.062  | 84    | 59203    | 8.101    | ppbv   | 91       |
| 21) Allyl Chloride            | 2.094  | 41    | 120704   | 9.368    | ppbv   | 98       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 78070    | 9.373    | ppbv   | 99       |
| 23) Vinyl Acetate             | 2.463  | 43    | 73373    | 9.714    | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 155571   | 9.832    | ppbv   | 100      |
| 25) Ethyl Acetate             | 2.835  | 43    | 449014   | 9.759    | ppbv   | 99       |
| 26) Hexane                    | 2.826  | 57    | 175752   | 9.439    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.149  | 76    | 191117   | 9.587    | ppbv   | 100      |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 115190   | 9.442    | ppbv   | 94       |
| 29) Chloroform                | 2.848  | 83    | 260855   | 9.912    | ppbv   | 98       |
| 30) Cyclohexane               | 3.855  | 84    | 148246   | 9.849    | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 179993   | 10.167   | ppbv   | 99       |
| 32) 1,1,1-Trichloroethane     | 3.369  | 97    | 276599   | 9.336    | ppbv   | 98       |
| 34) 2-Butanone                | 2.557  | 43    | 248969   | 9.700    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.764  | 117   | 271862   | 9.256    | ppbv   | 98       |
| 36) Benzene                   | 3.657  | 78    | 350545   | 10.014   | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 3.217  | 62    | 211790   | 10.081   | ppbv   | 99       |
| 38) Trichloroethene           | 4.551  | 130   | 139872   | 9.143    | ppbv   | 96       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 129239   | 9.908    | ppbv   | 99       |
| 40) 1,4-Dioxane               | 4.583  | 88    | 61587    | 8.591    | ppbv # | 96       |
| 41) Tetrahydrofuran           | 3.052  | 42    | 141861   | 9.479    | ppbv   | 99       |
| 42) Bromodichloromethane      | 4.489  | 83    | 296946   | 10.156   | ppbv   | 96       |
| 43) Methyl Methacrylate       | 4.878  | 69    | 149209   | 9.458    | ppbv   | 96       |
| 44) 2,2,4-Trimethylpentane    | 4.641  | 57    | 606376   | 10.030   | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 6.412  | 75    | 160750   | 9.975    | ppbv   | 99       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042356.D  
 Acq On : 17 Apr 2025 13:43  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

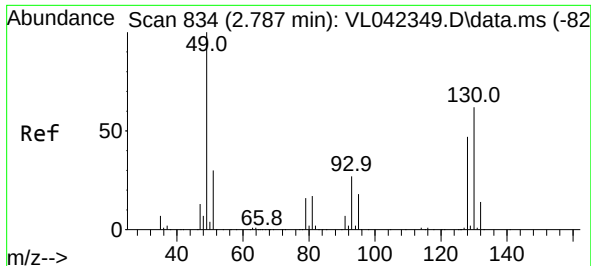
Quant Time: Apr 18 02:15:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.599  | 75   | 200144   | 10.148 | ppbv   | 88       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 135575   | 10.202 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.389  | 129  | 237206   | 10.103 | ppbv   | 100      |
| 49) Bromoform                 | 9.483  | 173  | 205630   | 10.016 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 376145   | 8.819  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.435  | 43   | 310521   | 8.118  | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.224  | 164  | 119424   | 8.827  | ppbv   | 94       |
| 53) Toluene                   | 6.933  | 91   | 419462   | 9.986  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 186231   | 9.792  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 182712   | 9.886  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.920  | 112  | 304533   | 9.589  | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.354  | 91   | 583515   | 9.645  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.551  | 91   | 442744   | 9.084  | ppbv # | 26       |
| 60) o-Xylene                  | 9.966  | 91   | 464522   | 9.465  | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 229869   | 9.813  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 685965   | 9.520  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 279007   | 8.773  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 172654   | 9.533  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 609500   | 9.203  | ppbv   | 93       |
| 66) Benzyl Chloride           | 11.613 | 91   | 63051    | 8.664  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 853807   | 9.268  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 737861   | 9.220  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 771461   | 9.255  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 543794   | 9.622  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 563136   | 9.385  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 486583   | 9.186  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 531576   | 8.592  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 297157   | 9.240  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 297697   | 9.210  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 289284   | 9.251  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 276960   | 8.771  | ppbv   | 100      |
| 79) Naphthalene               | 13.513 | 128  | 647349   | 8.750  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 350259   | 8.307  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 290260   | 9.136  | ppbv   | 99       |

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

Quant Time: Apr 18 02:15:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

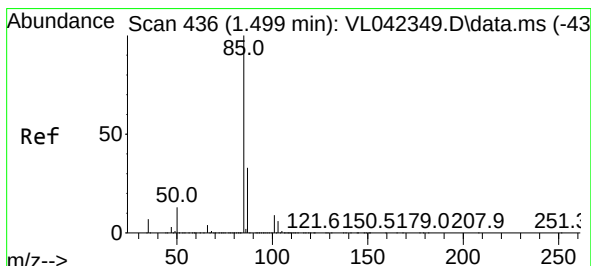
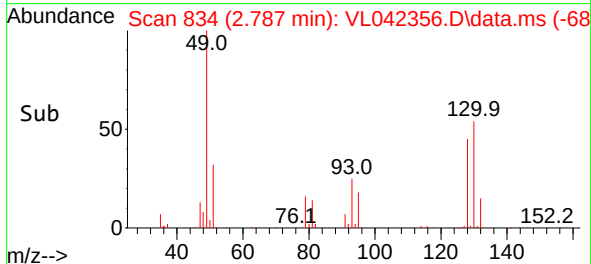
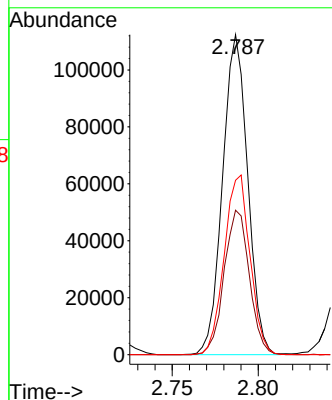
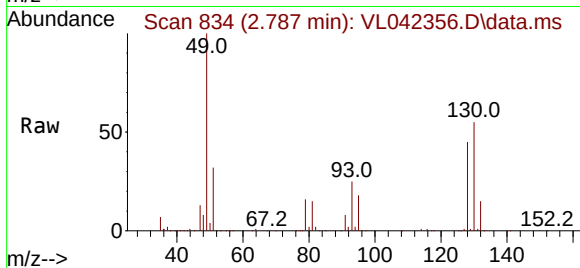




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.787 min Scan# 834  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

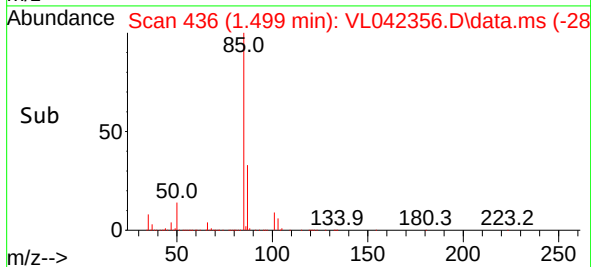
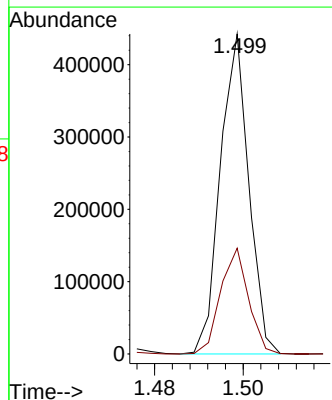
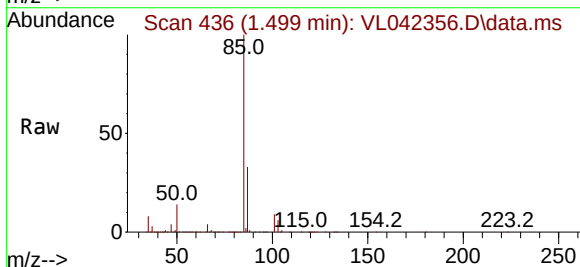
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

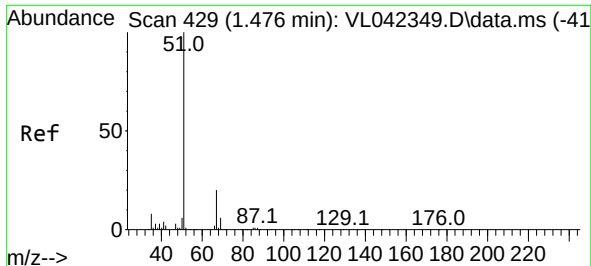
Tgt Ion: 49 Resp: 113992  
 Ion Ratio Lower Upper  
 49 100  
 128 45.5 22.8 68.4  
 130 57.8 29.3 88.0



#2  
 Dichlorodifluoromethane  
 Concen: 9.812 ppbv  
 RT: 1.499 min Scan# 436  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623  
 Ion Ratio Lower Upper  
 85 100  
 87 33.1 26.6 39.8

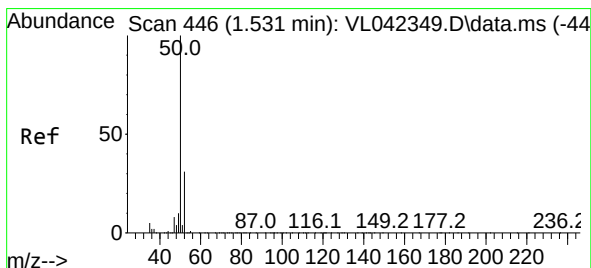
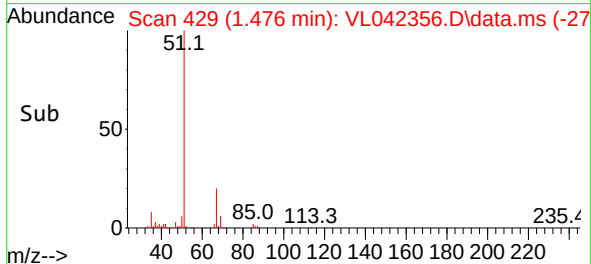
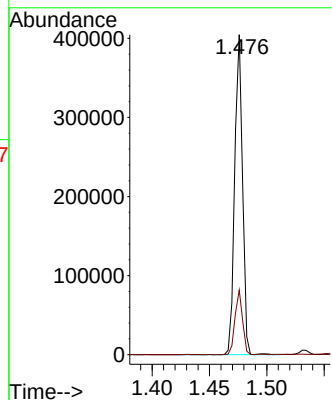
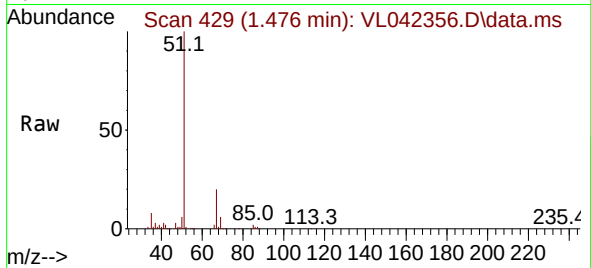




#3  
Chlorodifluoromethane  
Concen: 9.960 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

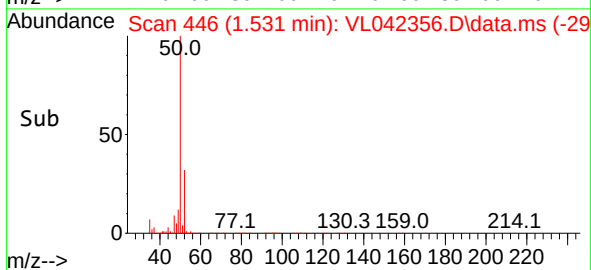
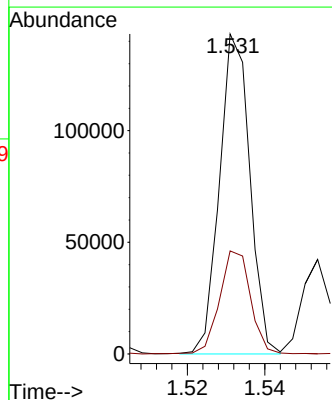
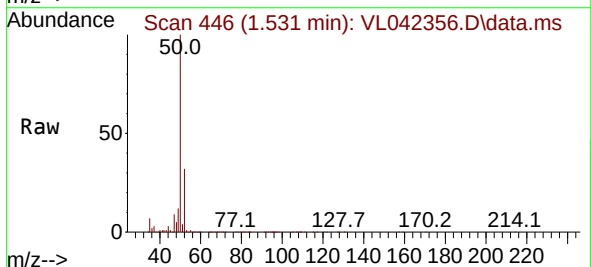
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

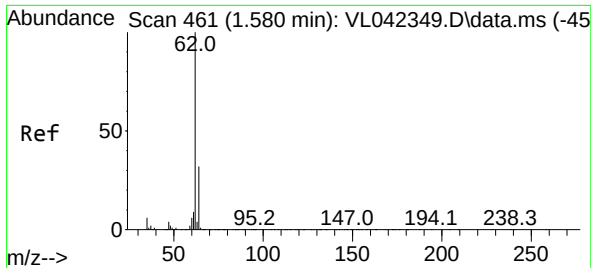
Tgt Ion: 51 Resp: 191010  
Ion Ratio Lower Upper  
51 100  
67 19.6 16.2 24.4



#4  
Chloromethane  
Concen: 9.796 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080  
Ion Ratio Lower Upper  
50 100  
52 32.0 24.7 37.1

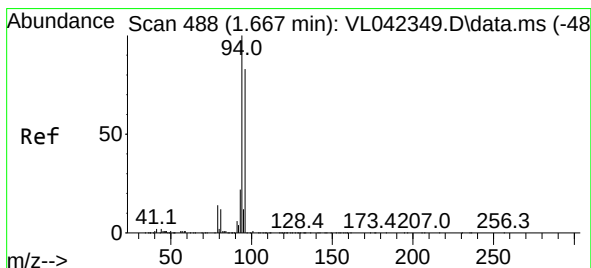
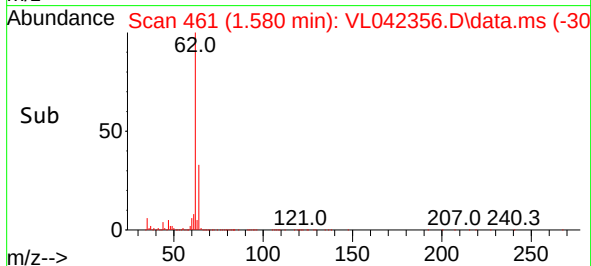
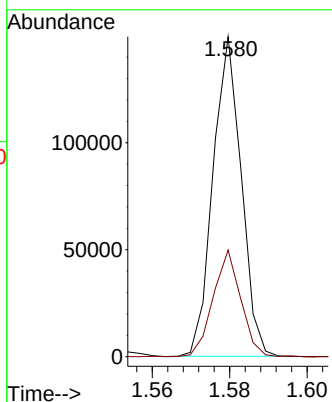
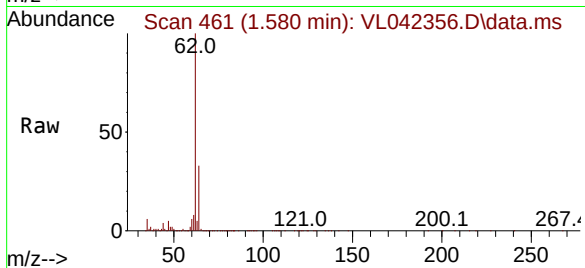




#5  
 Vinyl Chloride  
 Concen: 8.717 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

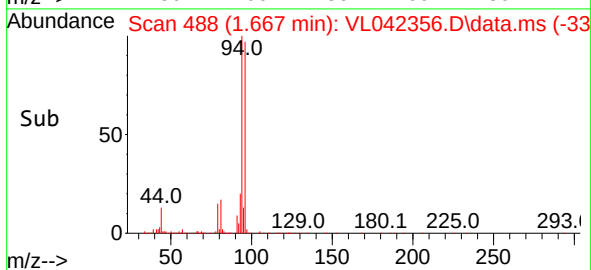
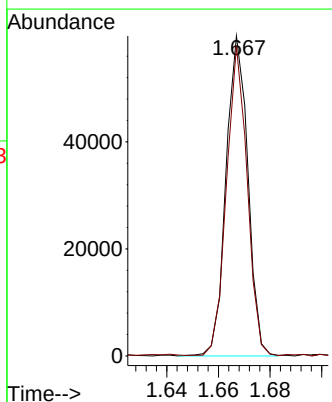
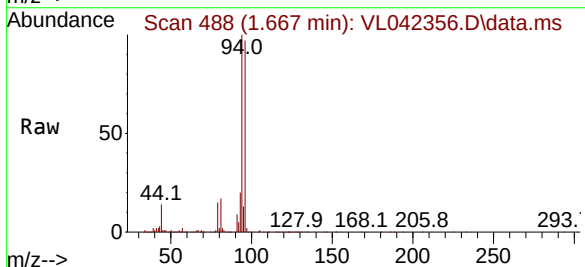
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

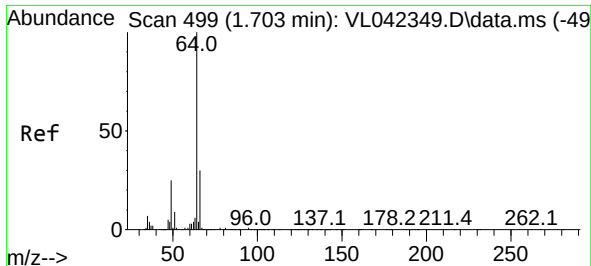
Tgt Ion: 62 Resp: 75628  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 25.4 38.0



#6  
 Bromomethane  
 Concen: 9.422 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115  
 Ion Ratio Lower Upper  
 94 100  
 96 96.8 66.2 99.2

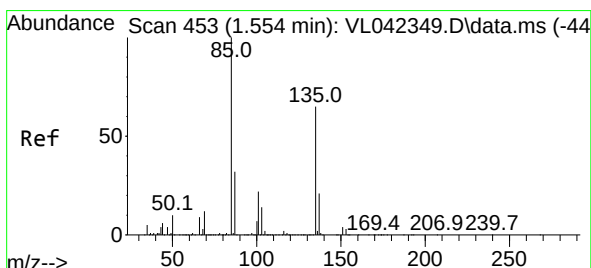
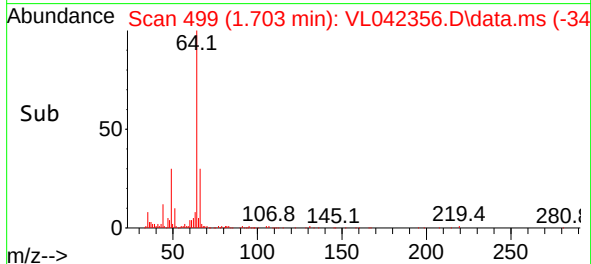
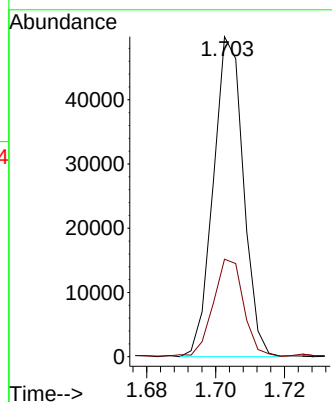
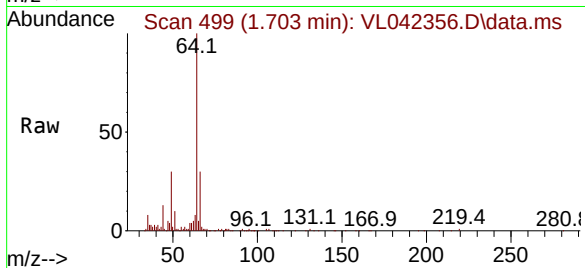




#7  
Chloroethane  
Concen: 9.612 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

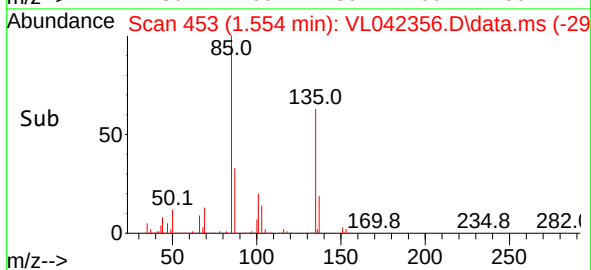
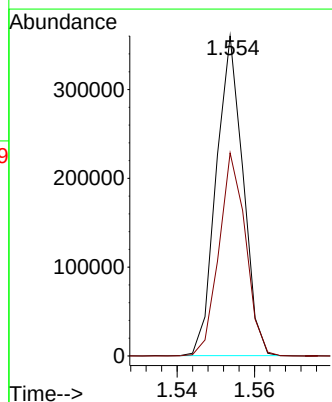
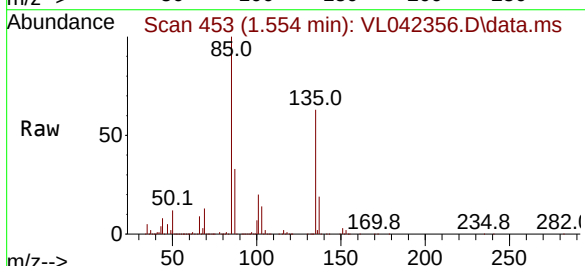
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL041725

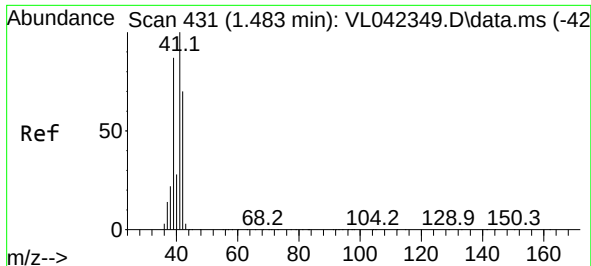
Tgt Ion: 64 Resp: 30158  
Ion Ratio Lower Upper  
64 100  
66 30.4 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 9.997 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863  
Ion Ratio Lower Upper  
85 100  
135 63.5 52.2 78.2





#9

Propene

Concen: 9.690 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

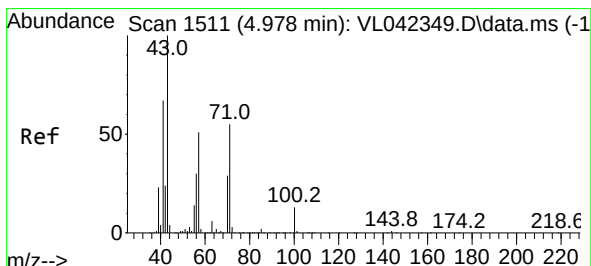
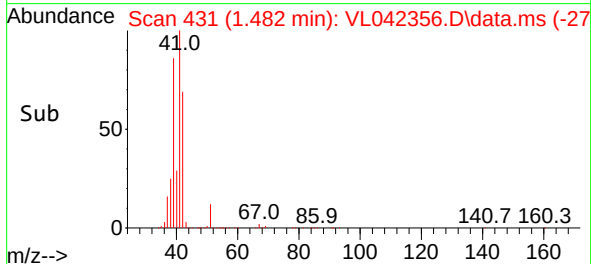
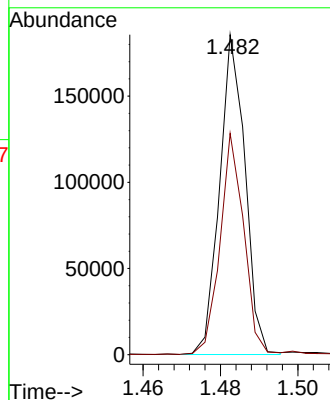
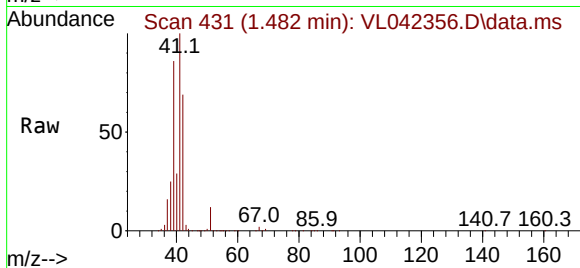
ICVVL041725

Tgt Ion: 41 Resp: 84636

Ion Ratio Lower Upper

41 100

42 65.8 56.2 84.4



#10

Heptane

Concen: 9.041 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042356.D

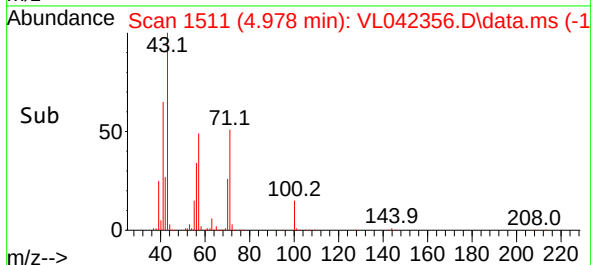
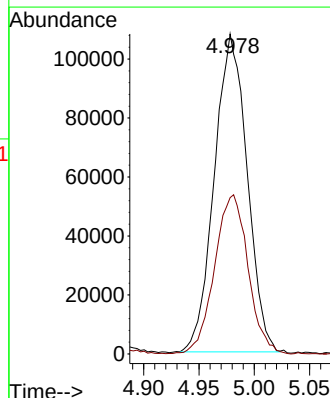
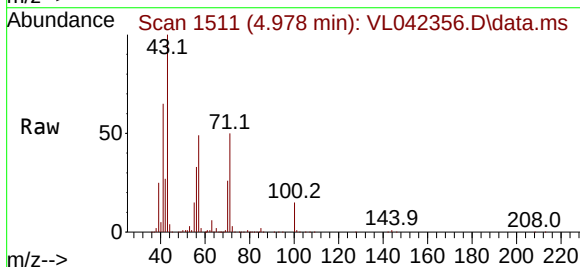
Acq: 17 Apr 2025 13:43

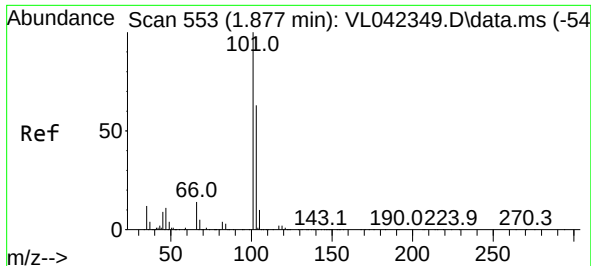
Tgt Ion: 43 Resp: 221840

Ion Ratio Lower Upper

43 100

57 51.4 39.9 59.9

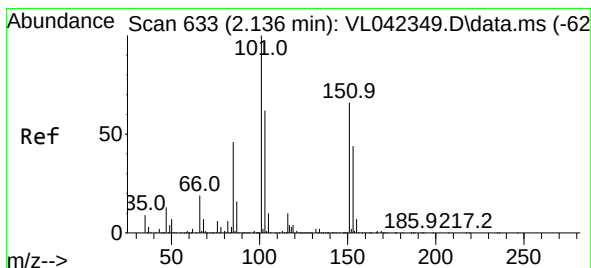
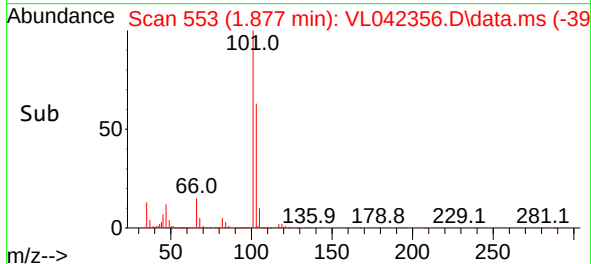
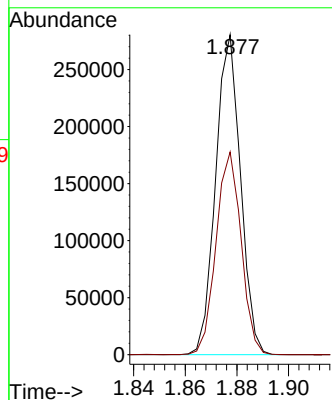
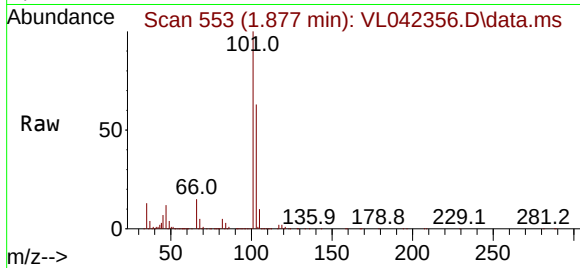




#11  
 Trichlorofluoromethane  
 Concen: 9.807 ppbv  
 RT: 1.877 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

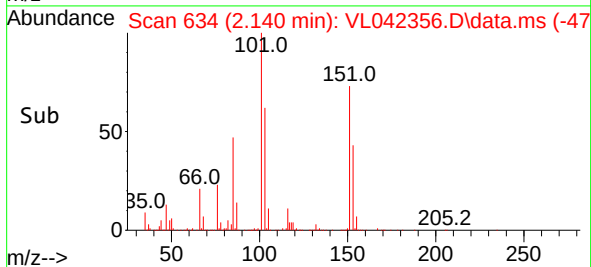
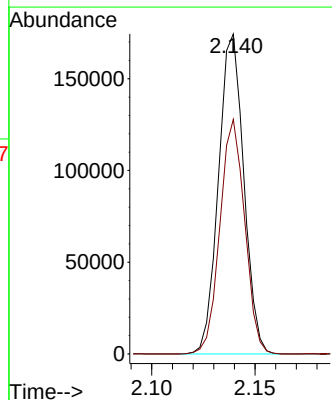
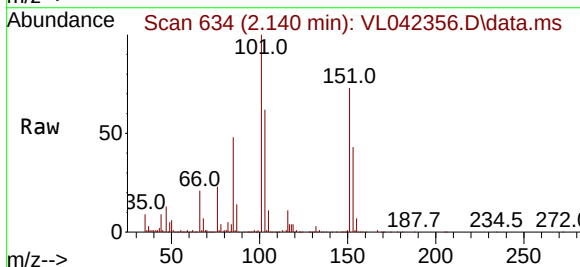
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

Tgt Ion:101 Resp: 187827  
 Ion Ratio Lower Upper  
 101 100  
 103 63.3 50.1 75.1

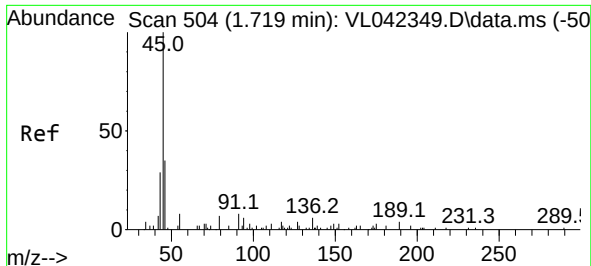


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.482 ppbv  
 RT: 2.140 min Scan# 634  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485  
 Ion Ratio Lower Upper  
 101 100  
 151 71.7 57.0 85.6



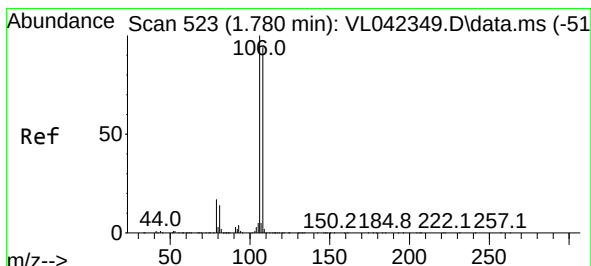
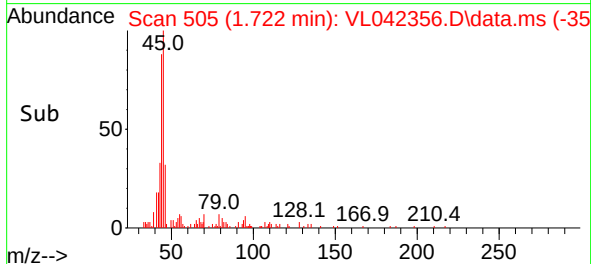
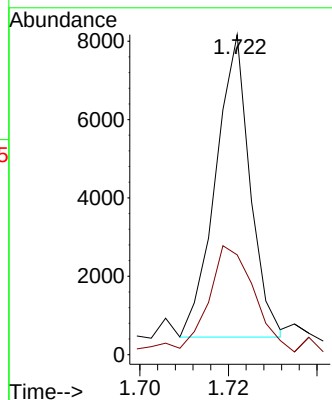
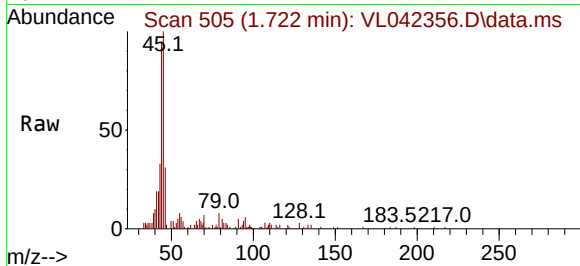




#13  
Ethanol  
Concen: 3.005 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

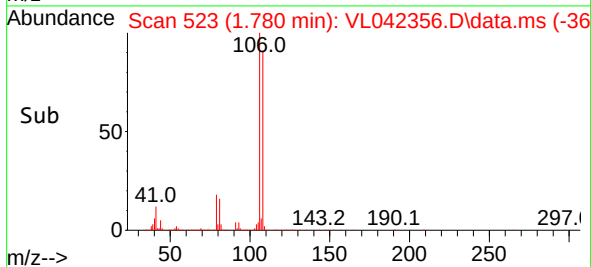
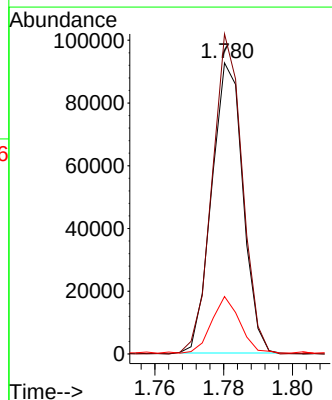
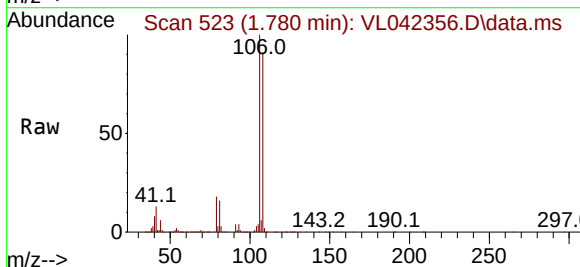
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

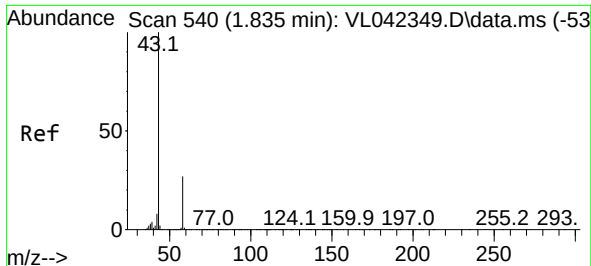
Tgt Ion: 45 Resp: 4171  
Ion Ratio Lower Upper  
45 100  
46 57.0 21.9 87.7



#14  
Bromoethene  
Concen: 9.880 ppbv  
RT: 1.780 min Scan# 523  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 108 Resp: 58320  
Ion Ratio Lower Upper  
108 100  
106 107.1 85.9 128.9  
79 18.4 13.9 20.9

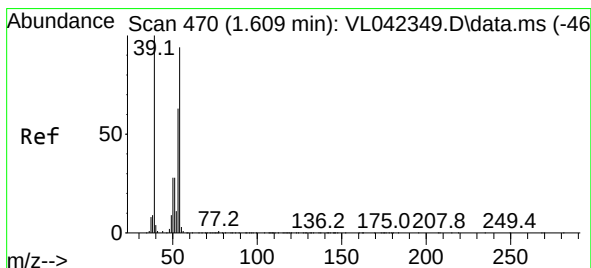
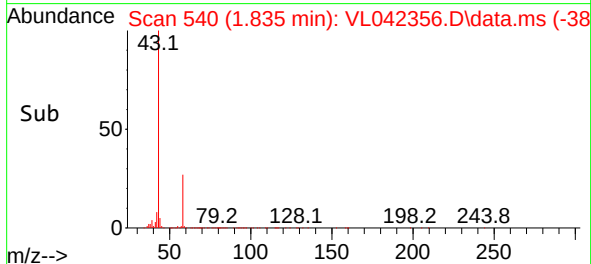
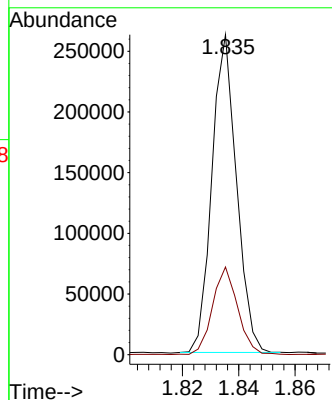
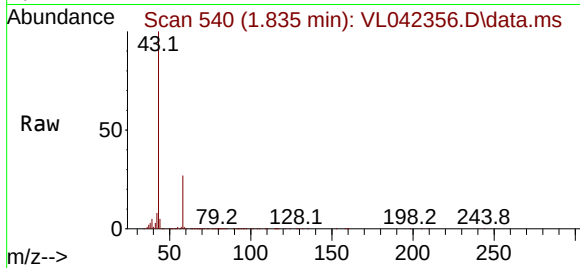




#15  
Acetone  
Concen: 8.505 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

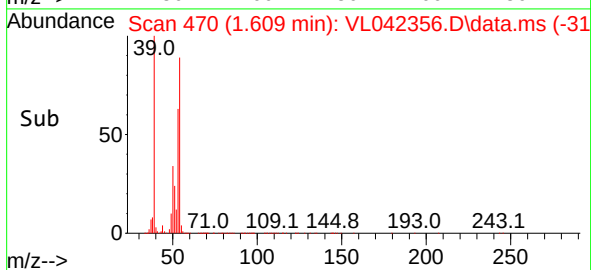
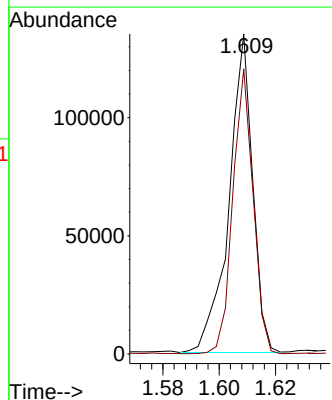
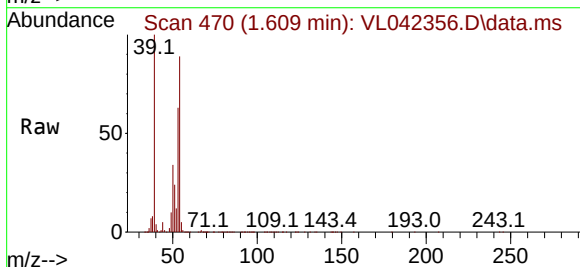
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

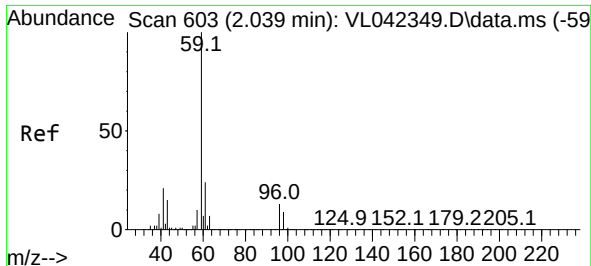
Tgt Ion: 43 Resp: 158708  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6



#16  
1,3-Butadiene  
Concen: 8.829 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804  
Ion Ratio Lower Upper  
39 100  
54 77.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.468 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

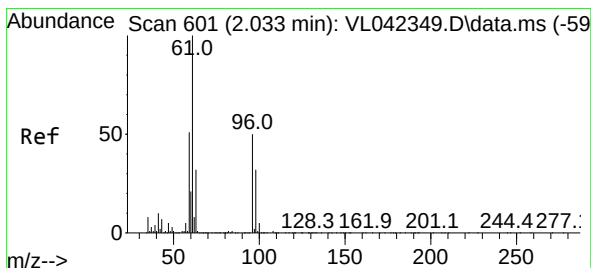
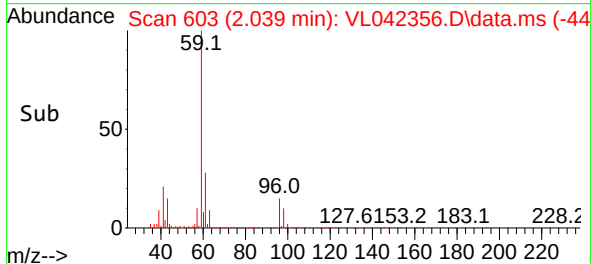
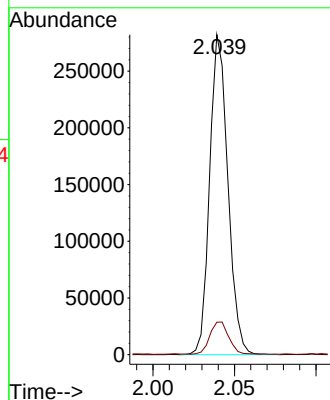
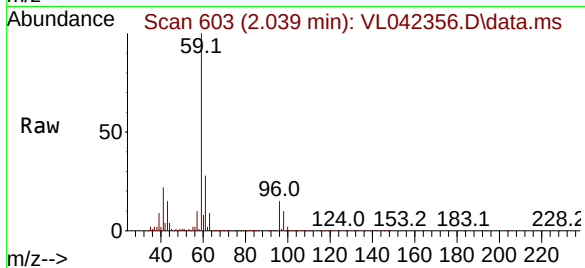
ICVVL041725

Tgt Ion: 59 Resp: 218954

Ion Ratio Lower Upper

59 100

57 10.6 8.7 13.1



#18

1,1-Dichloroethene

Concen: 9.287 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

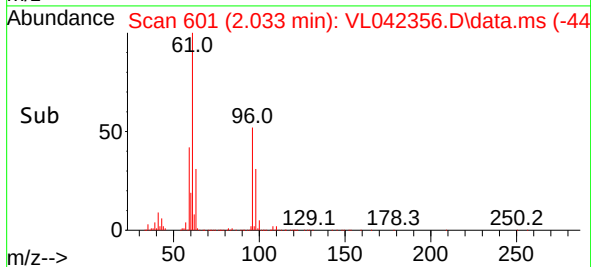
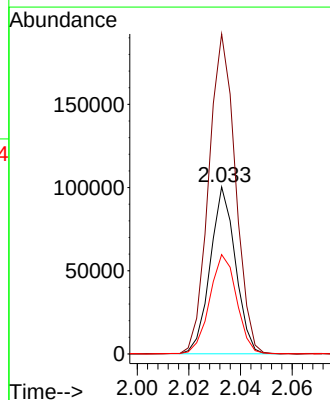
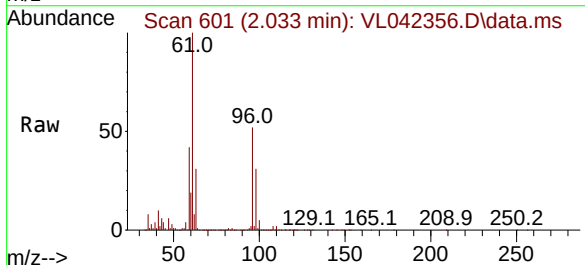
Tgt Ion: 96 Resp: 67940

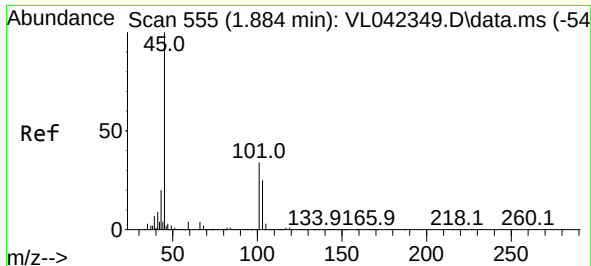
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

98 59.4 51.0 76.4

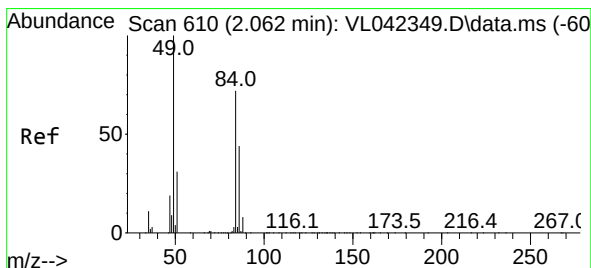
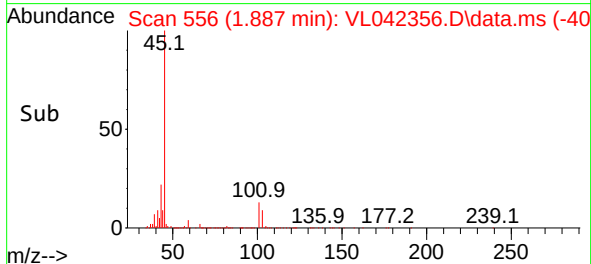
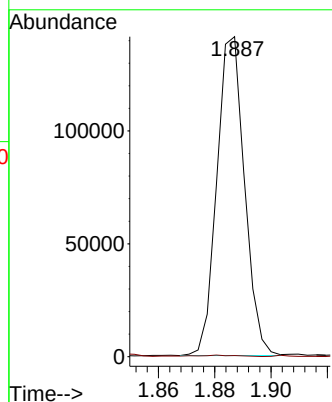
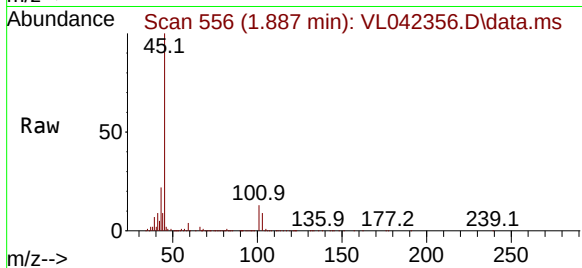




#19  
Isopropyl Alcohol  
Concen: 9.296 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

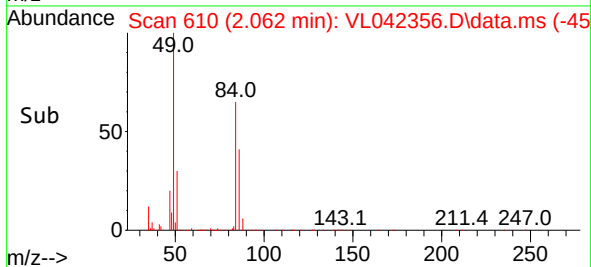
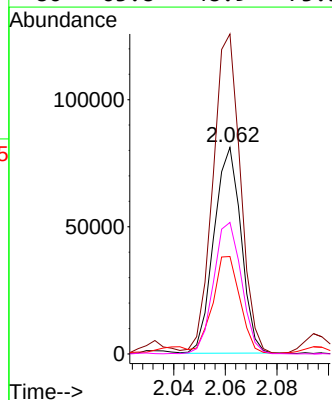
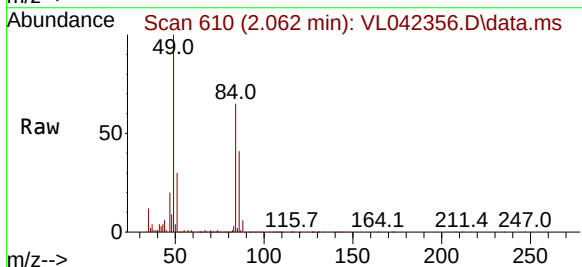
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

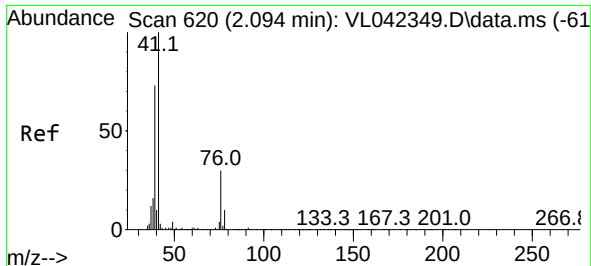
Tgt Ion: 45 Resp: 96365  
Ion Ratio Lower Upper  
45 100  
58 46.1 34.5 51.7



#20  
Methylene Chloride  
Concen: 8.101 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203  
Ion Ratio Lower Upper  
84 100  
49 155.3 111.6 167.4  
51 47.0 35.1 52.7  
86 63.8 48.9 73.3

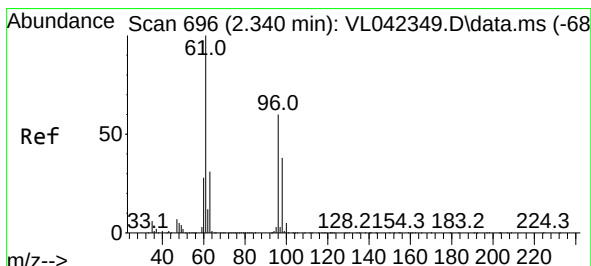
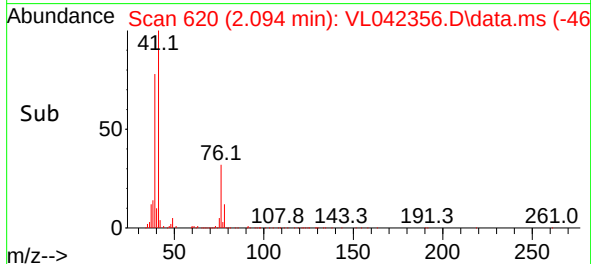
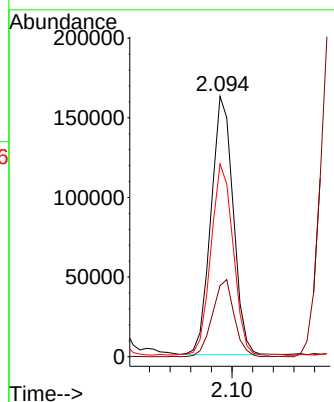
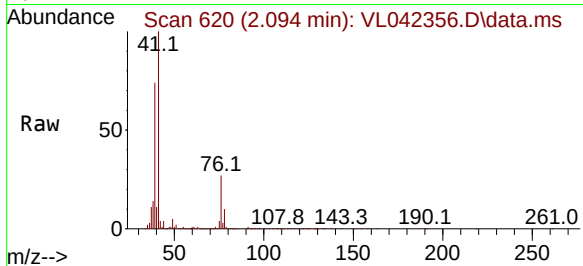




#21  
 Allyl Chloride  
 Concen: 9.368 ppbv  
 RT: 2.094 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

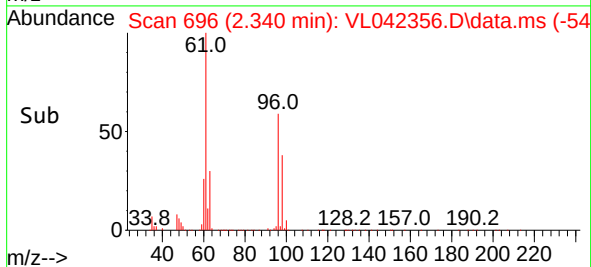
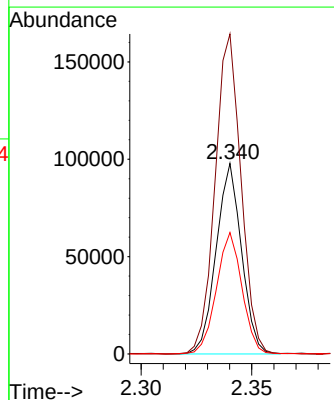
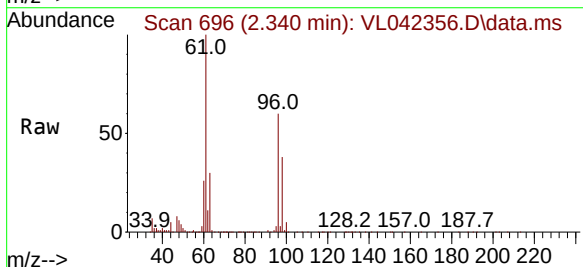
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

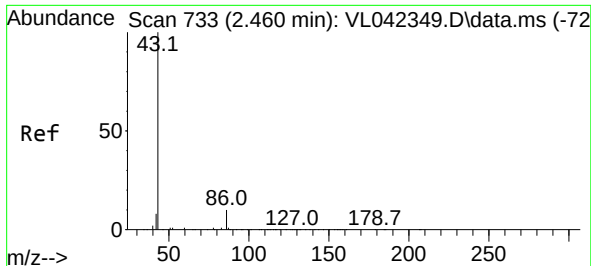
Tgt Ion: 41 Resp: 120704  
 Ion Ratio Lower Upper  
 41 100  
 76 29.5 24.8 37.2  
 39 74.5 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.373 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070  
 Ion Ratio Lower Upper  
 96 100  
 61 167.7 133.7 200.5  
 98 63.5 50.3 75.5



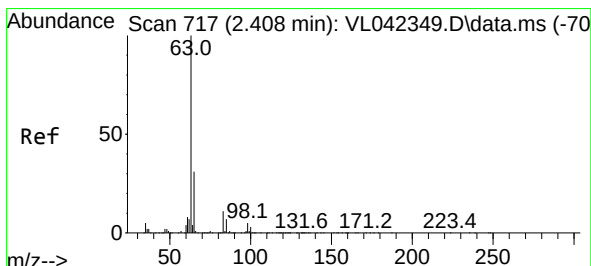
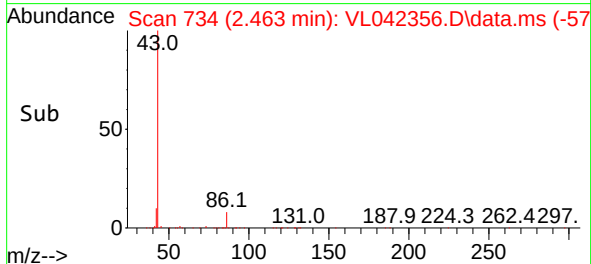
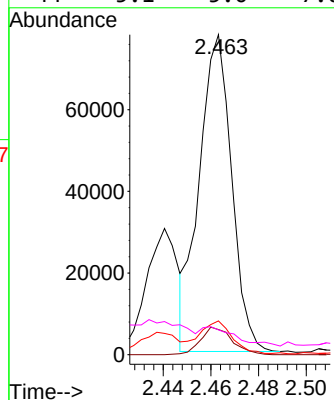
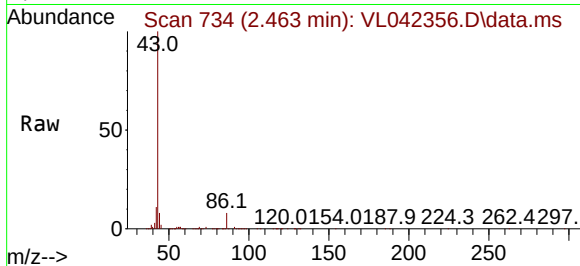


#23  
 Vinyl Acetate  
 Concen: 9.714 ppbv  
 RT: 2.463 min Scan# 714  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL041725

Tgt Ion: 43 Resp: 73373

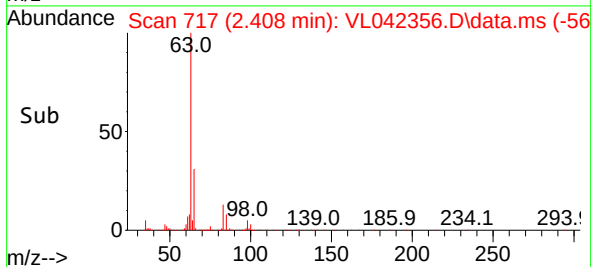
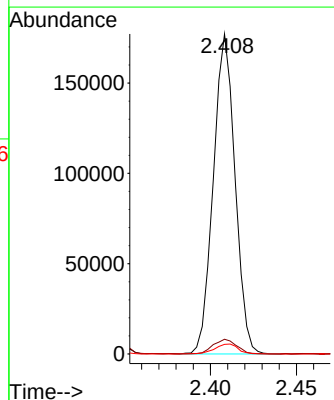
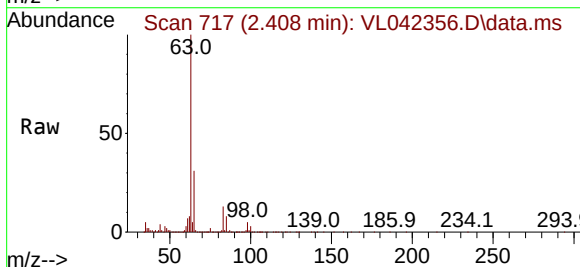
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 8.0   | 6.5   | 9.7   |
| 42  | 10.0  | 7.8   | 11.8  |
| 44  | 5.1   | 5.0   | 7.6   |

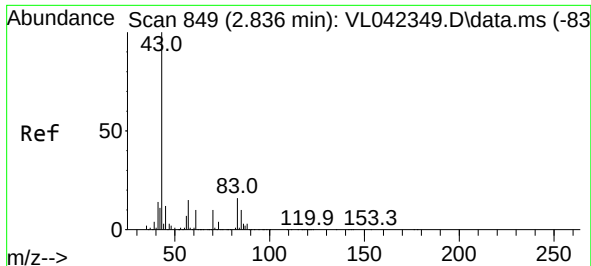


#24  
 1,1-Dichloroethane  
 Concen: 9.832 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.6   | 2.3   | 6.8   |
| 100 | 3.0   | 1.6   | 4.8   |

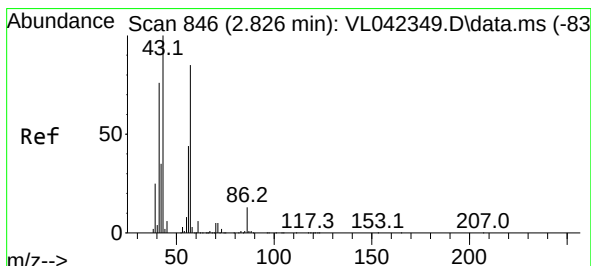
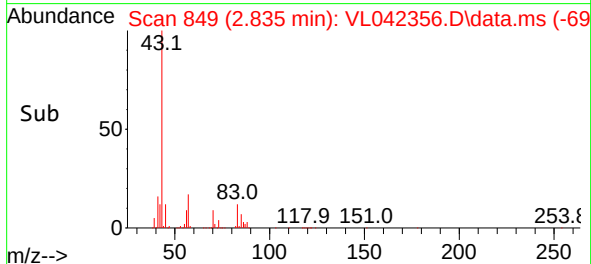
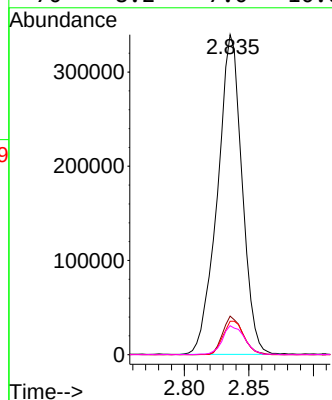
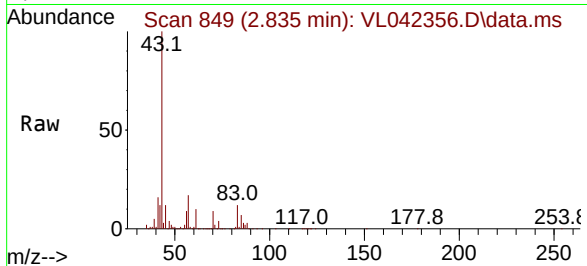




#25  
Ethyl Acetate  
Concen: 9.759 ppbv  
RT: 2.835 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

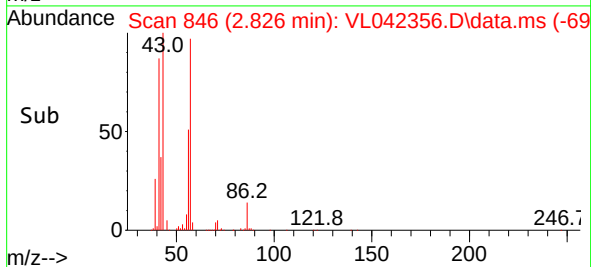
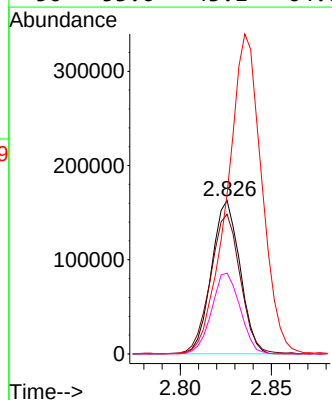
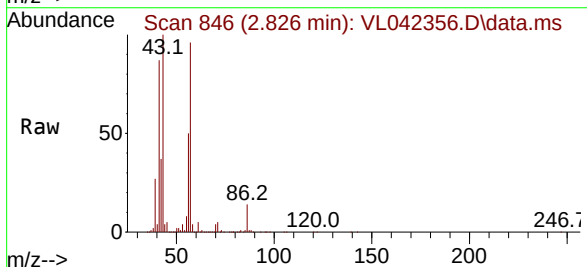
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

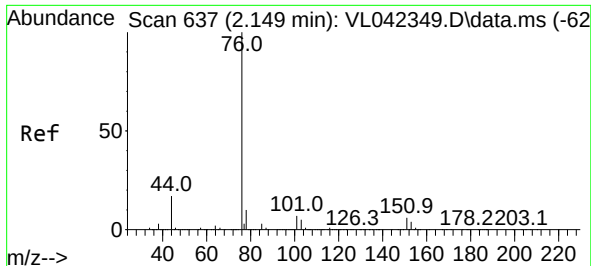
| Tgt Ion: | 43    | Resp: | 449014 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 9.9   | 8.3   | 12.5   |
| 61       | 9.0   | 7.3   | 10.9   |
| 70       | 8.2   | 7.0   | 10.6   |



#26  
Hexane  
Concen: 9.439 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

| Tgt Ion: | 57    | Resp: | 175752 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 96.6  | 77.9  | 116.9  |
| 43       | 256.0 | 208.4 | 312.6  |
| 56       | 53.6  | 43.1  | 64.7   |





#27

Carbon Disulfide

Concen: 9.587 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

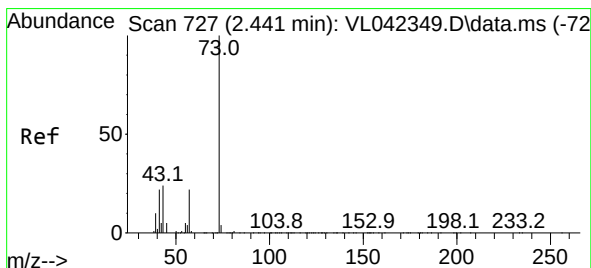
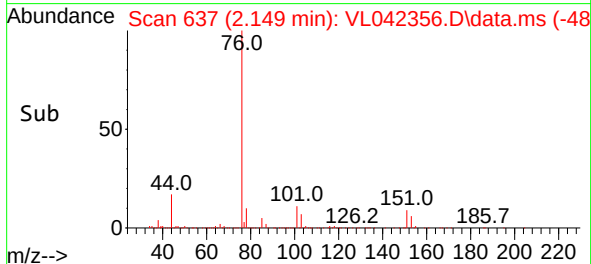
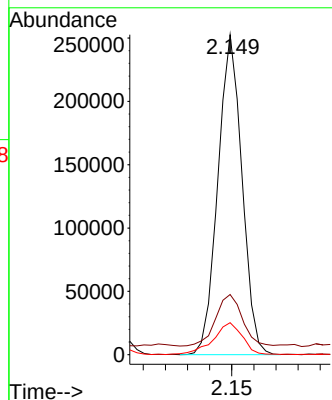
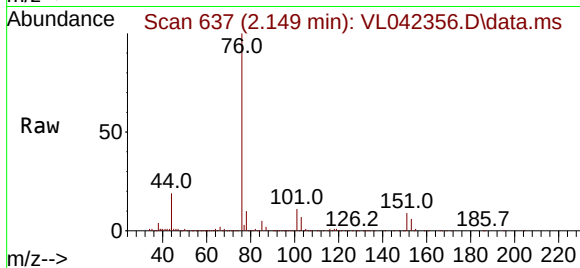
Tgt Ion: 76 Resp: 191117

Ion Ratio Lower Upper

76 100

44 19.3 15.5 23.3

78 11.9 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 9.442 ppbv

RT: 2.441 min Scan# 727

Delta R.T. -0.000 min

Lab File: VL042356.D

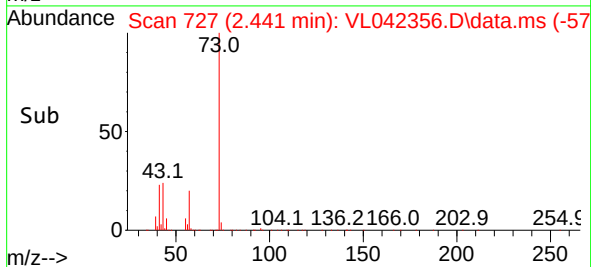
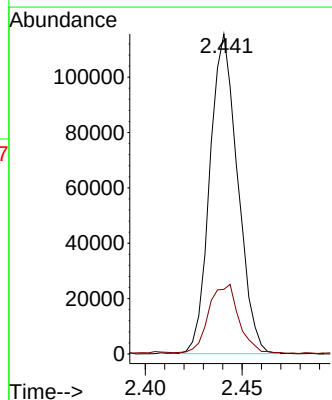
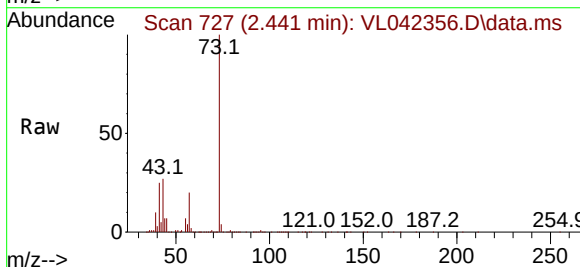
Acq: 17 Apr 2025 13:43

Tgt Ion: 73 Resp: 115190

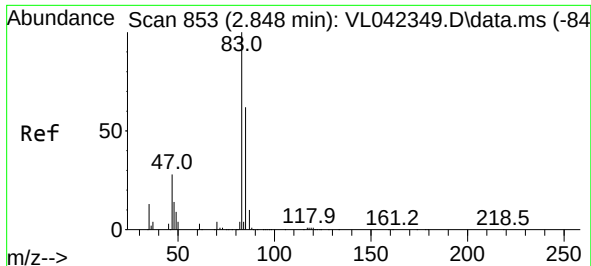
Ion Ratio Lower Upper

73 100

57 23.4 21.3 31.9







#29

Chloroform

Concen: 9.912 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

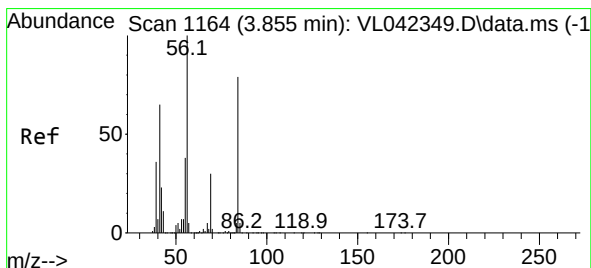
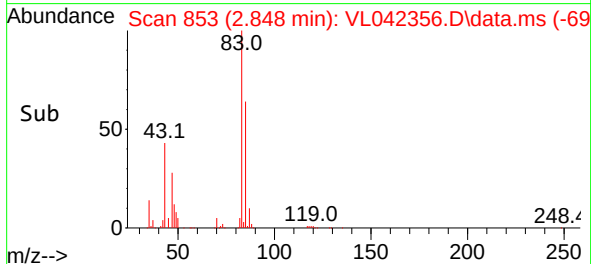
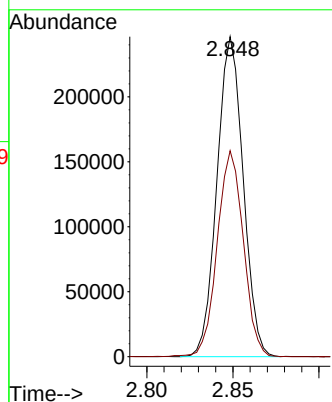
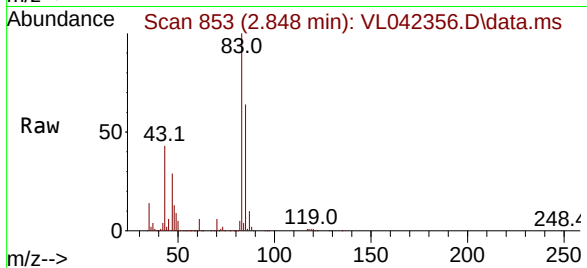
ICVVL041725

Tgt Ion: 83 Resp: 260855

Ion Ratio Lower Upper

83 100

85 64.3 50.0 75.0



#30

Cyclohexane

Concen: 9.849 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

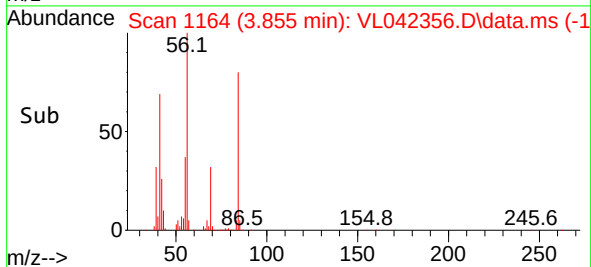
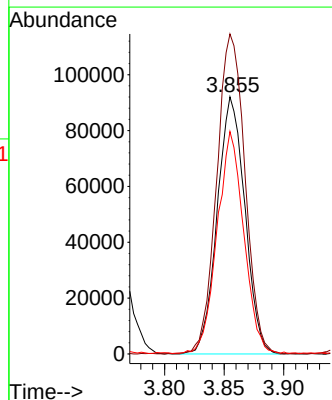
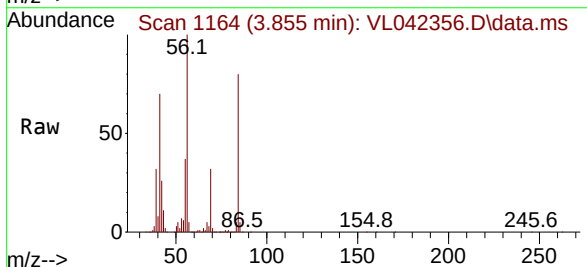
Tgt Ion: 84 Resp: 148246

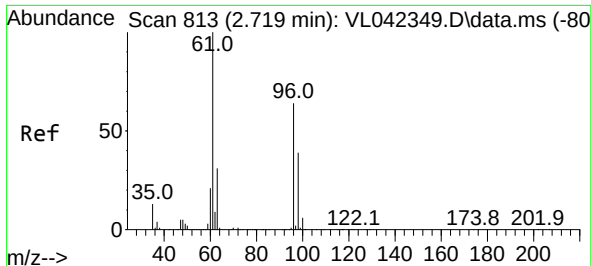
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

41 83.2 67.4 101.0

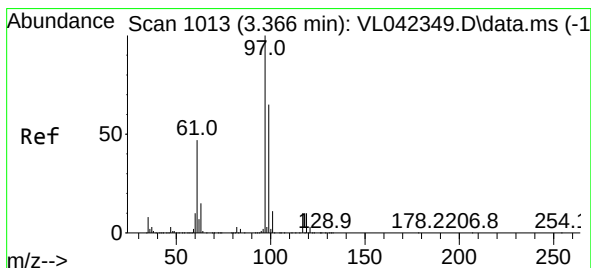
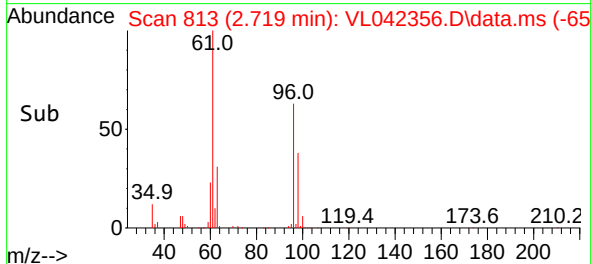
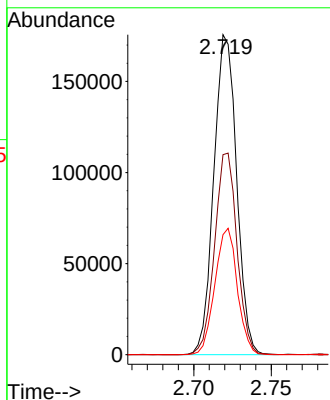
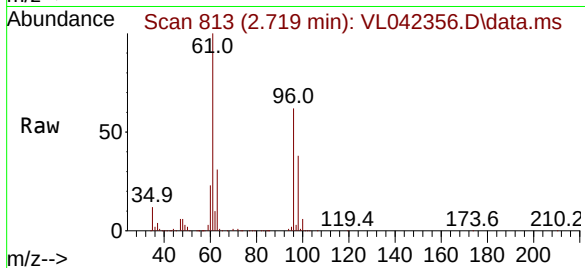




#31  
 cis-1,2-Dichloroethene  
 Concen: 10.167 ppbv  
 RT: 2.719 min Scan# 813  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

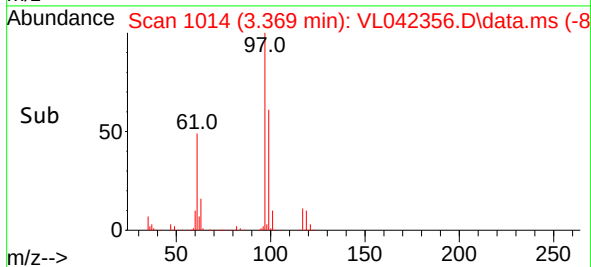
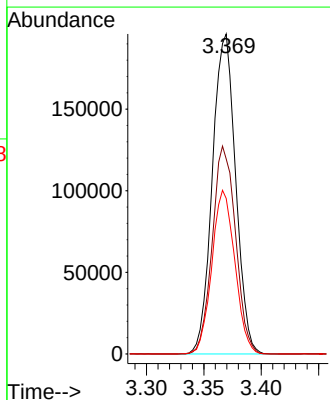
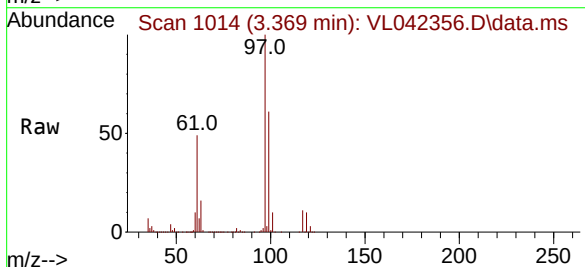
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

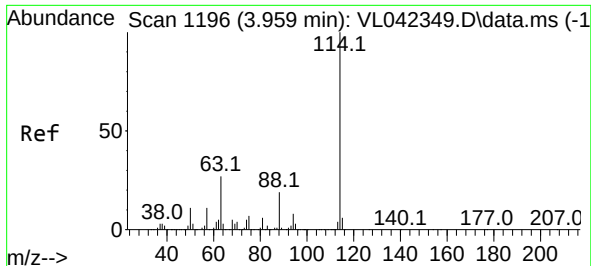
Tgt Ion: 61 Resp: 179993  
 Ion Ratio Lower Upper  
 61 100  
 96 62.5 50.8 76.2  
 98 37.5 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 9.336 ppbv  
 RT: 3.369 min Scan# 1014  
 Delta R.T. 0.003 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599  
 Ion Ratio Lower Upper  
 97 100  
 99 65.0 51.0 76.4  
 61 50.7 38.8 58.2

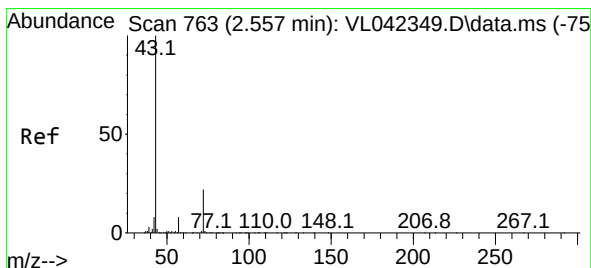
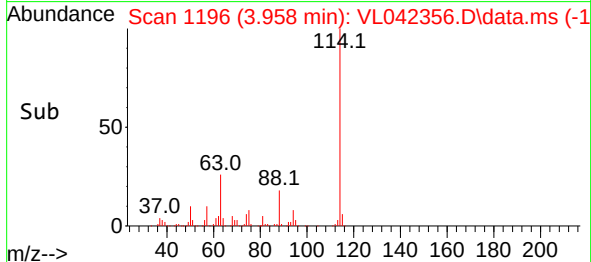
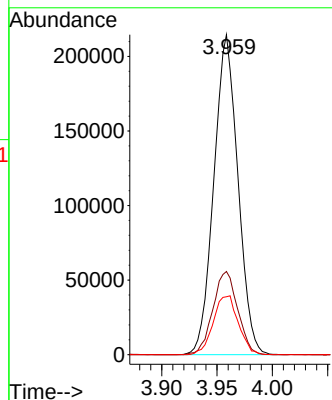
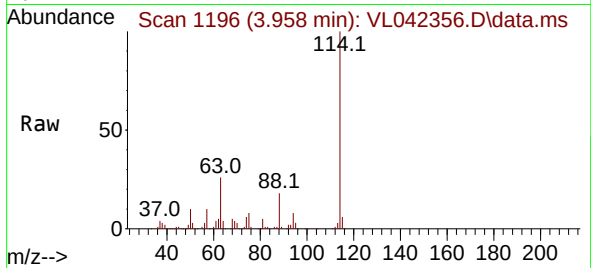




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.958 min Scan# 1196  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

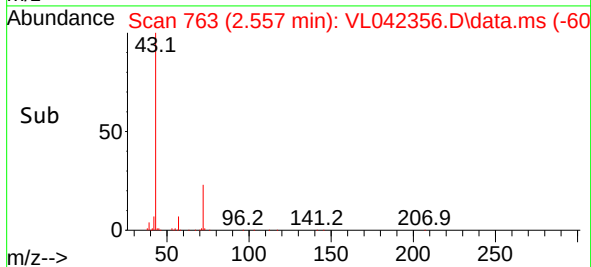
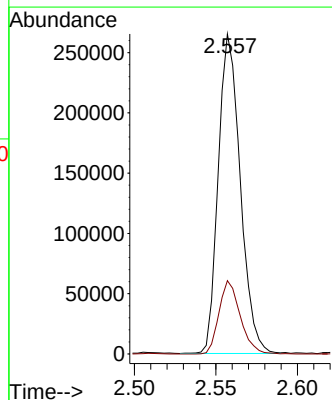
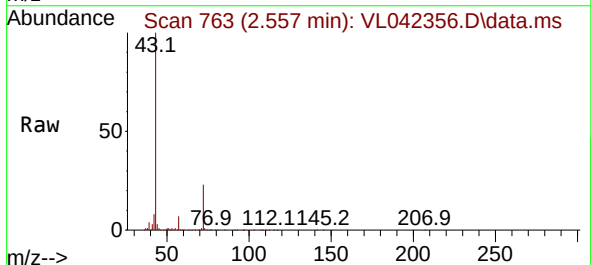
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

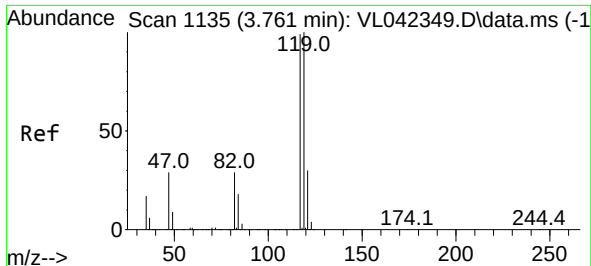
Tgt Ion:114 Resp: 324528  
 Ion Ratio Lower Upper  
 114 100  
 63 26.8 21.8 32.6  
 88 19.2 15.5 23.3



#34  
 2-Butanone  
 Concen: 9.700 ppbv  
 RT: 2.557 min Scan# 763  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969  
 Ion Ratio Lower Upper  
 43 100  
 72 22.1 18.2 27.2

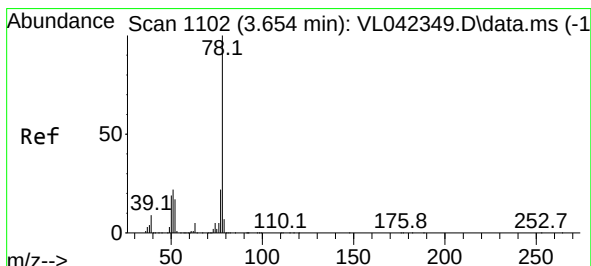
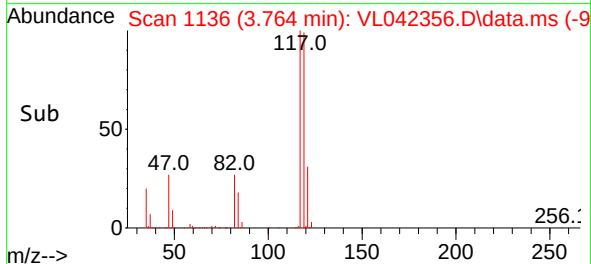
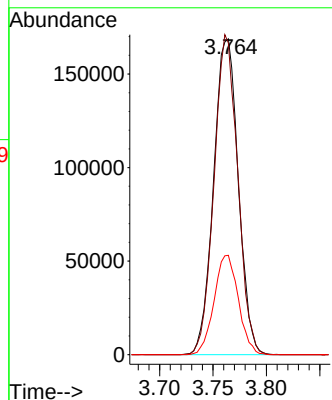
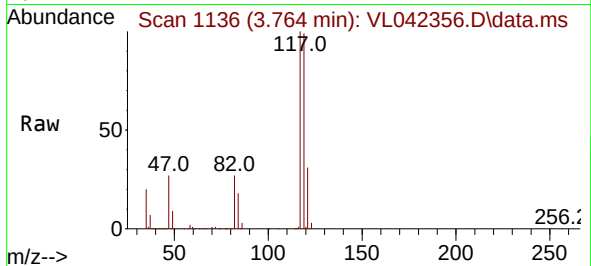




#35  
Carbon Tetrachloride  
Concen: 9.256 ppbv  
RT: 3.764 min Scan# 1135  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

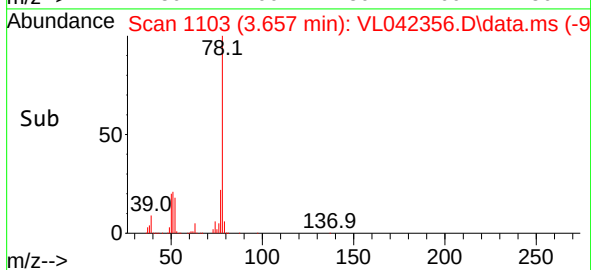
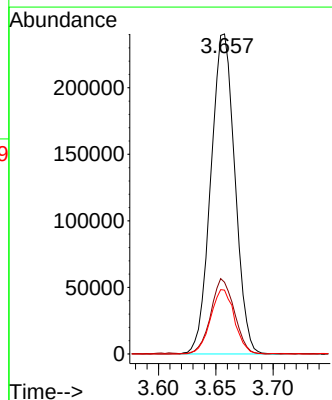
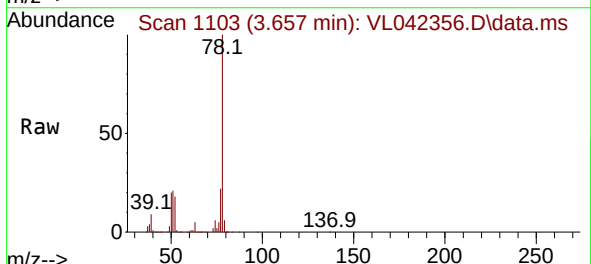
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL041725

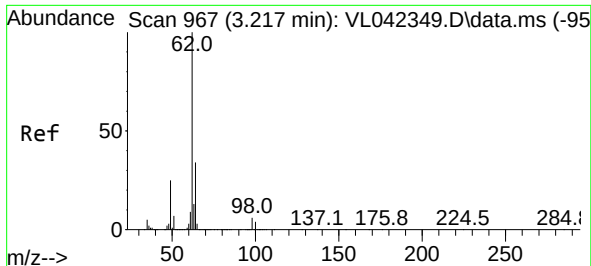
Tgt Ion:117 Resp: 271862  
Ion Ratio Lower Upper  
117 100  
119 98.7 80.5 120.7  
121 31.5 24.2 36.2



#36  
Benzene  
Concen: 10.014 ppbv  
RT: 3.657 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545  
Ion Ratio Lower Upper  
78 100  
77 22.3 17.4 26.0  
50 19.9 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.081 ppbv

RT: 3.217 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

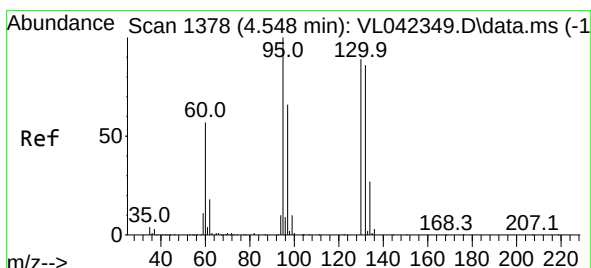
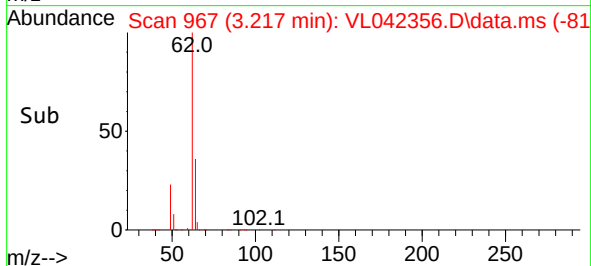
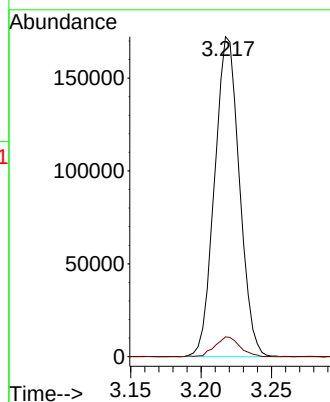
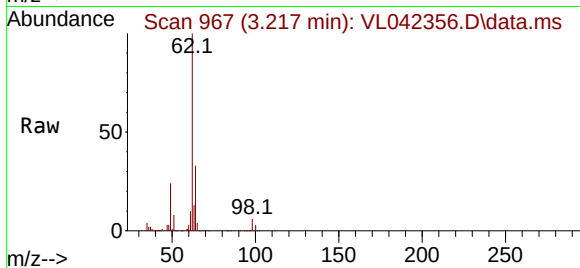
ICVVL041725

Tgt Ion: 62 Resp: 211790

Ion Ratio Lower Upper

62 100

98 6.2 5.1 7.7



#38

Trichloroethene

Concen: 9.143 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

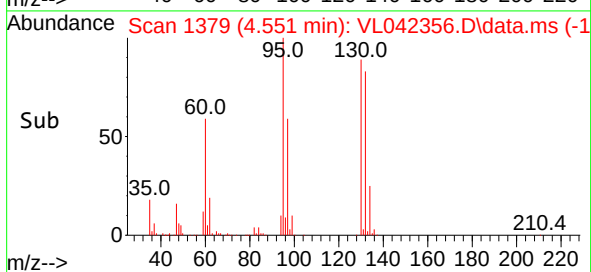
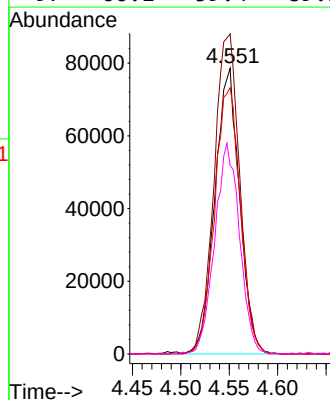
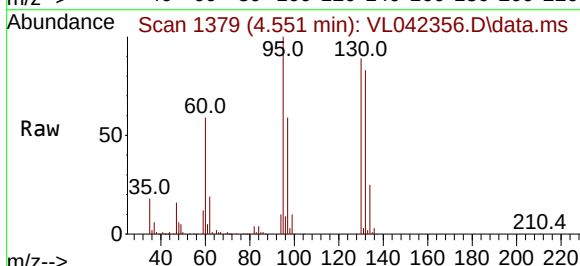
Ion Ratio Lower Upper

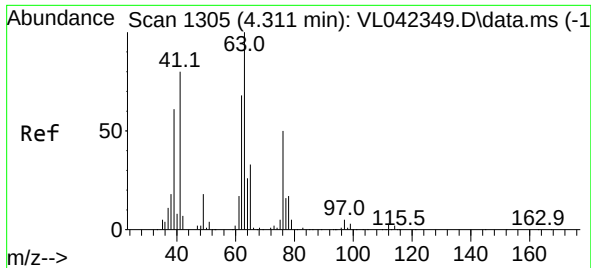
130 100

95 112.0 89.8 134.6

132 93.2 77.7 116.5

97 66.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.908 ppbv

RT: 4.315 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

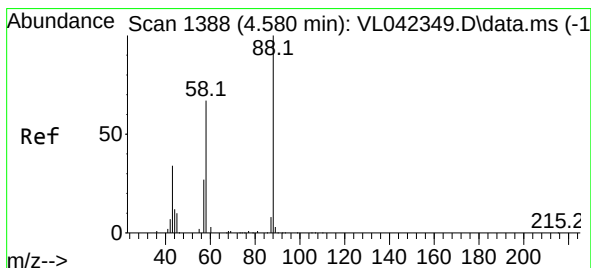
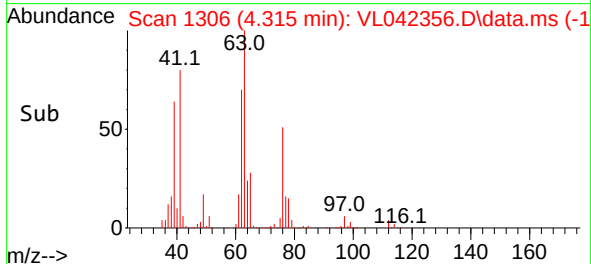
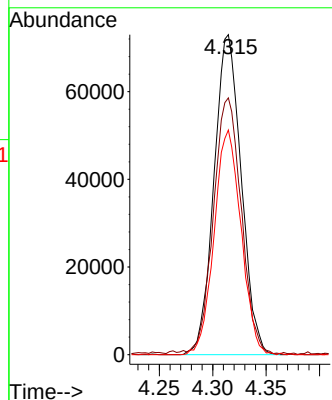
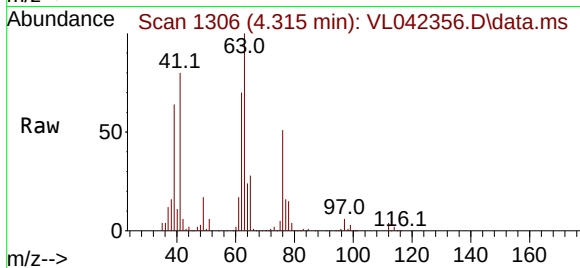
Tgt Ion: 63 Resp: 129239

Ion Ratio Lower Upper

63 100

41 79.9 64.2 96.2

62 70.2 54.3 81.5



#40

1,4-Dioxane

Concen: 8.591 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

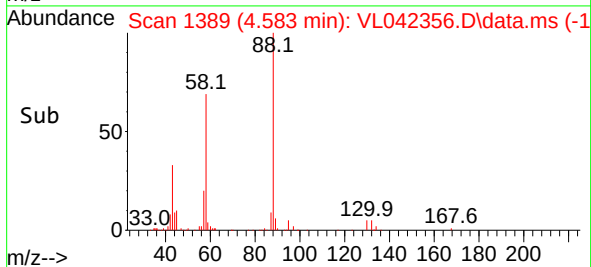
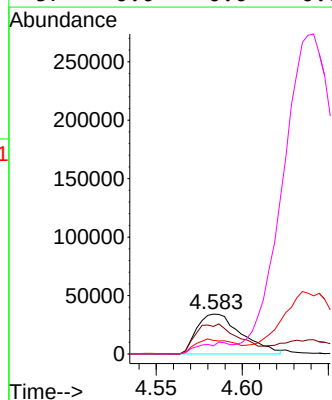
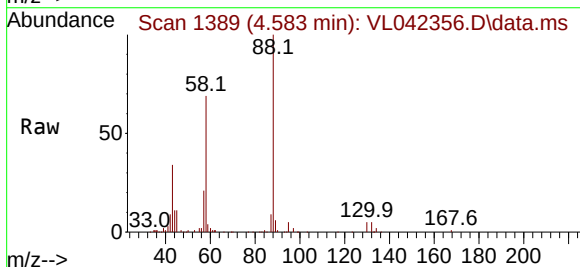
Ion Ratio Lower Upper

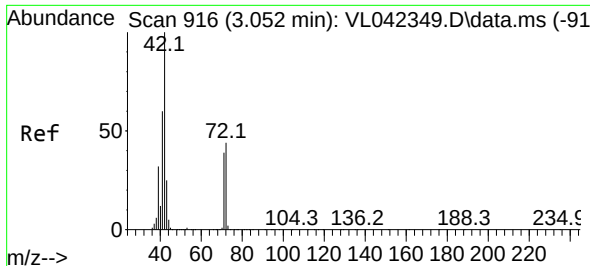
88 100

58 76.1 61.4 92.0

43 35.9 23.2 34.8#

57 0.0 0.0 0.0

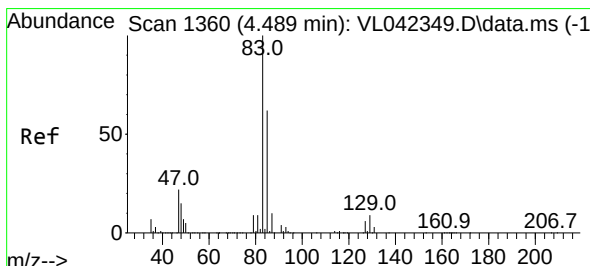
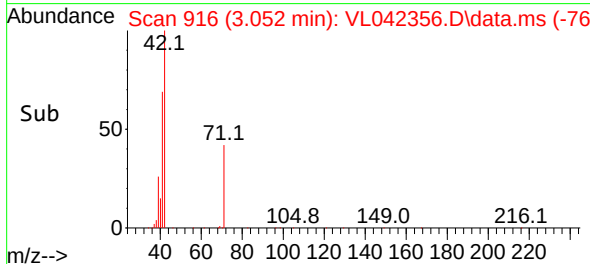
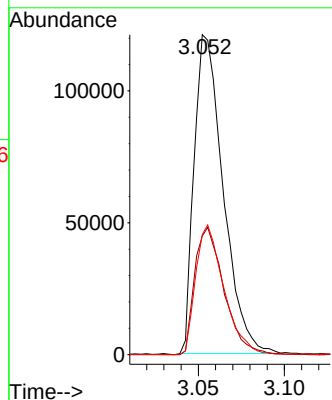
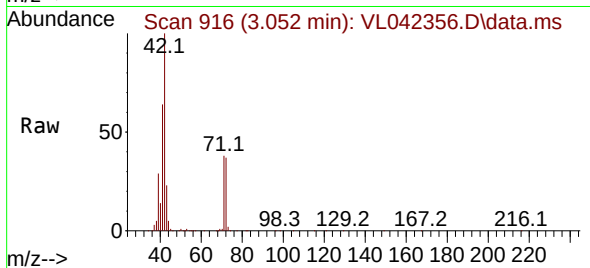




#41  
Tetrahydrofuran  
Concen: 9.479 ppbv  
RT: 3.052 min Scan# 916  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

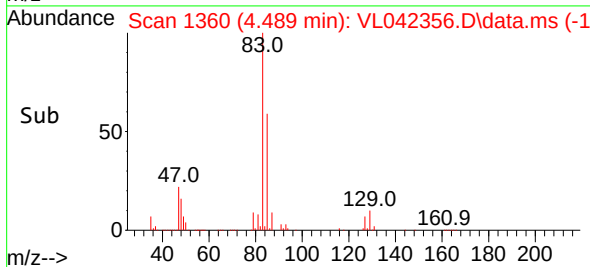
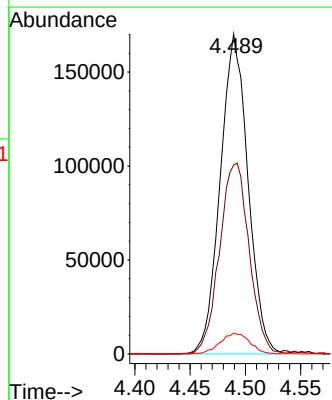
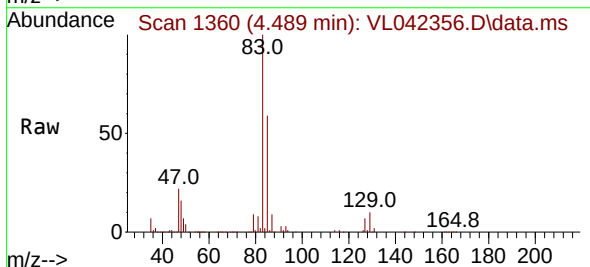
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

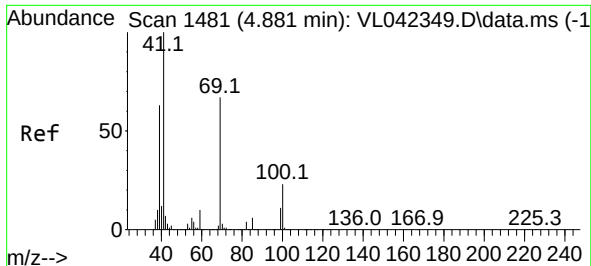
Tgt Ion: 42 Resp: 141861  
Ion Ratio Lower Upper  
42 100  
72 40.2 32.3 48.5  
71 39.8 31.4 47.2



#42  
Bromodichloromethane  
Concen: 10.156 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946  
Ion Ratio Lower Upper  
83 100  
85 59.0 49.7 74.5  
127 6.6 5.1 7.7

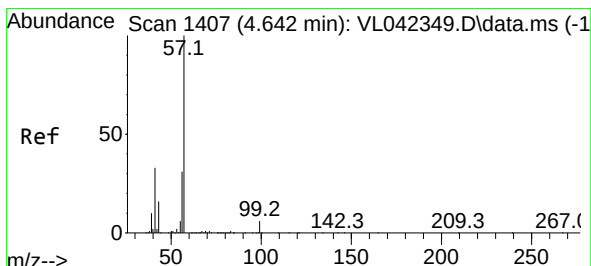
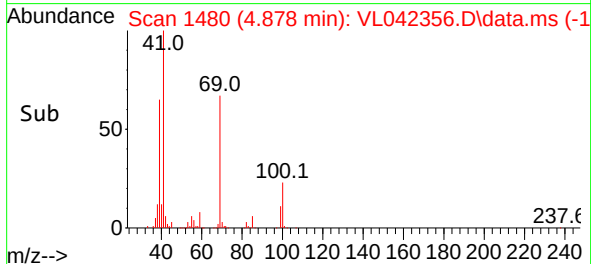
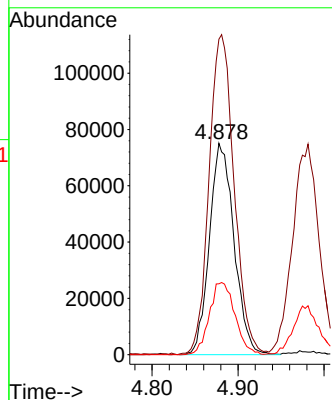
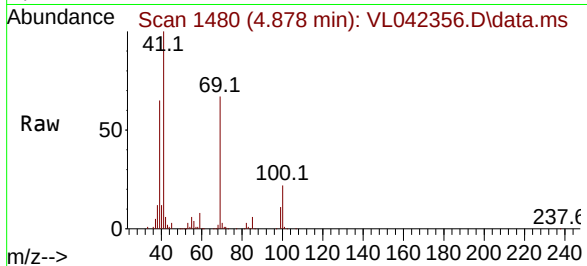




#43  
Methyl Methacrylate  
Concen: 9.458 ppbv  
RT: 4.878 min Scan# 1480  
Delta R.T. -0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

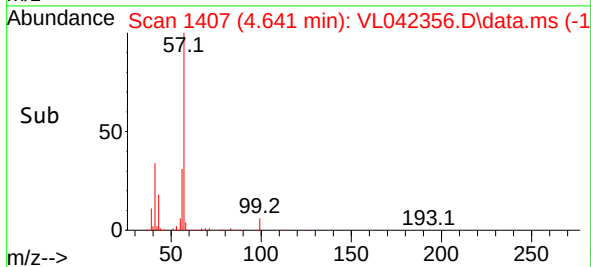
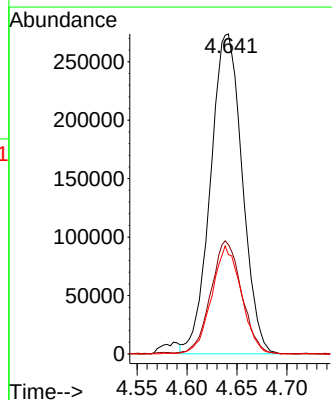
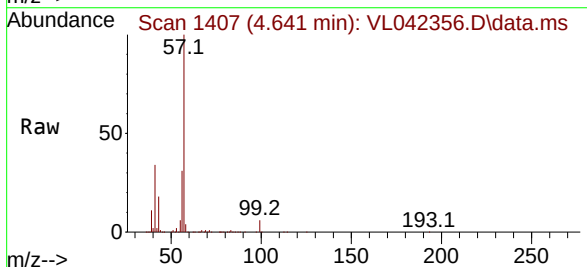
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

Tgt Ion: 69 Resp: 149209  
Ion Ratio Lower Upper  
69 100  
41 154.1 118.6 177.8  
100 35.5 28.2 42.2

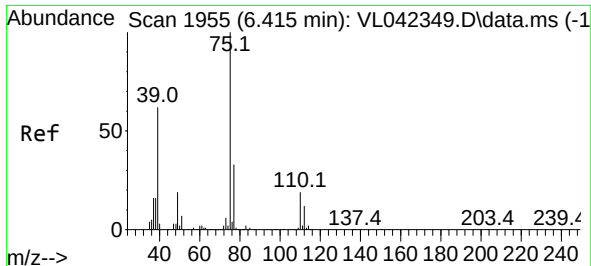


#44  
2,2,4-Trimethylpentane  
Concen: 10.030 ppbv  
RT: 4.641 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376  
Ion Ratio Lower Upper  
57 100  
41 34.3 27.2 40.8  
56 31.6 25.7 38.5







#45

t-1,3-Dichloropropene

Concen: 9.975 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

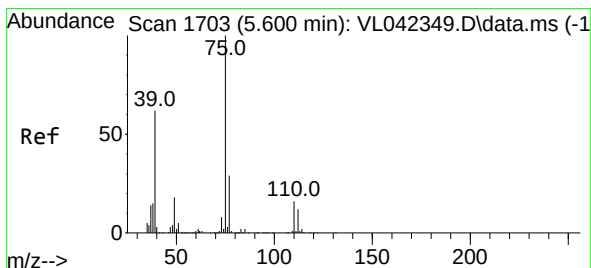
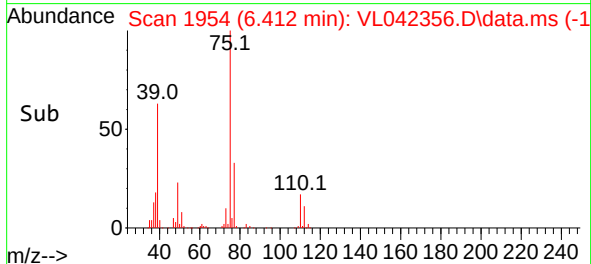
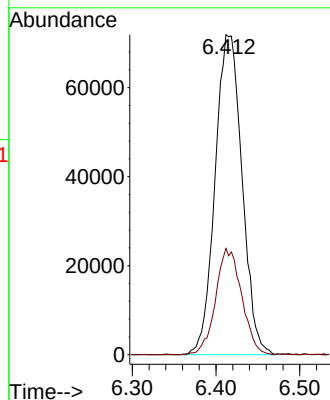
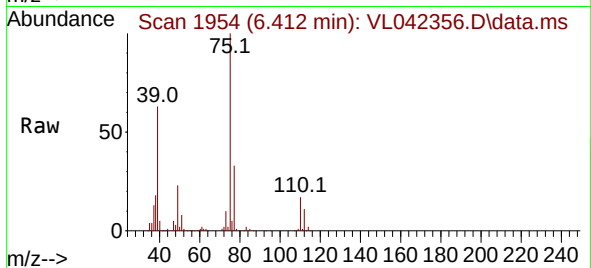
ICVVL041725

Tgt Ion: 75 Resp: 160750

Ion Ratio Lower Upper

75 100

77 33.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 10.148 ppbv

RT: 5.599 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

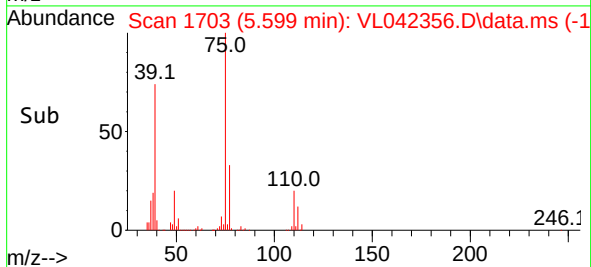
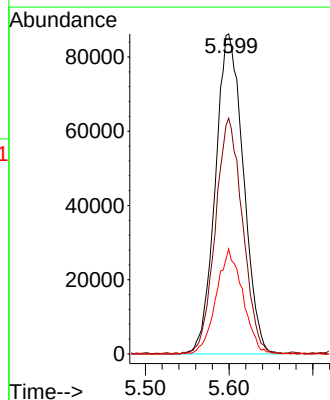
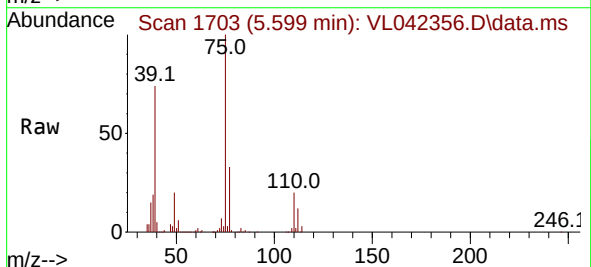
Tgt Ion: 75 Resp: 200144

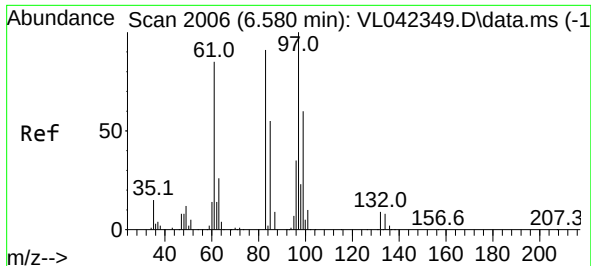
Ion Ratio Lower Upper

75 100

39 73.7 50.0 75.0

77 32.7 23.0 34.6

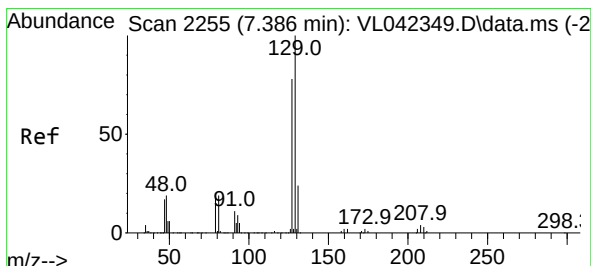
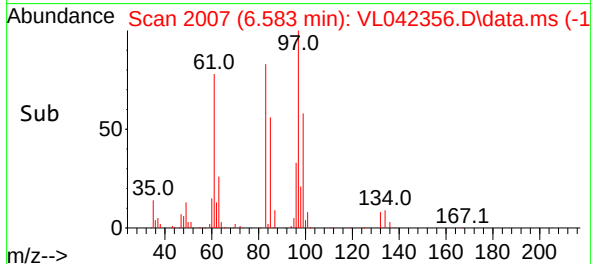
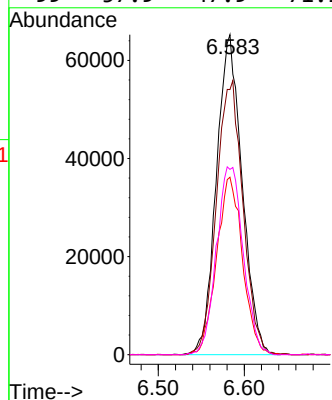
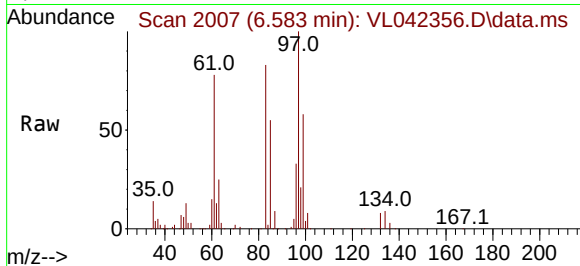




#47  
1,1,2-Trichloroethane  
Concen: 10.202 ppbv  
RT: 6.583 min Scan# 2006  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

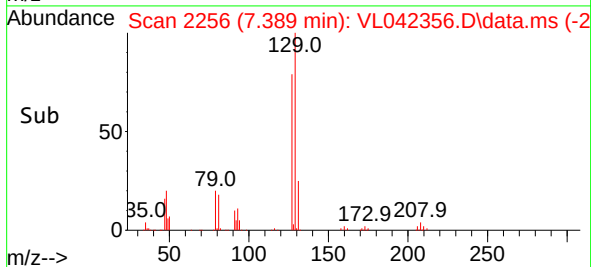
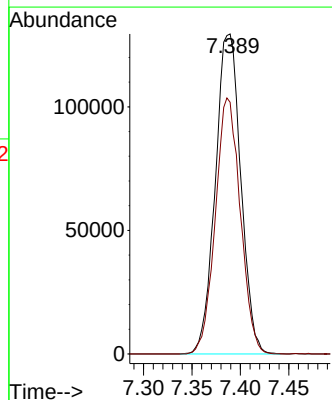
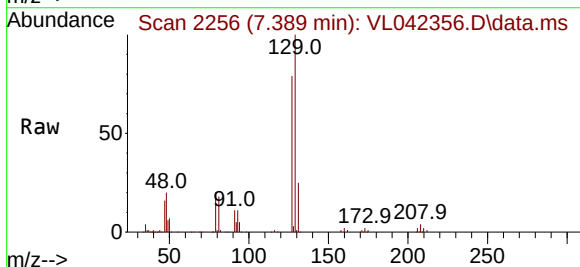
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

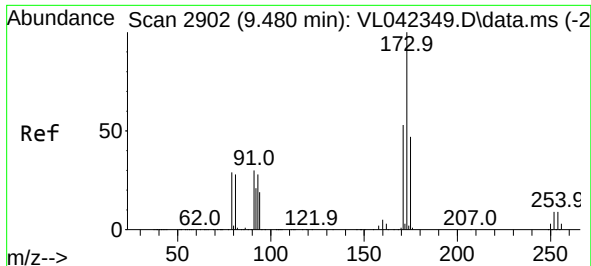
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 135575 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 82.8  | 72.8  | 109.2  |
| 85       | 55.5  | 44.2  | 66.4   |
| 99       | 57.9  | 47.9  | 71.9   |



#48  
Dibromochloromethane  
Concen: 10.103 ppbv  
RT: 7.389 min Scan# 2256  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 237206 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.4  | 39.1  | 117.3  |

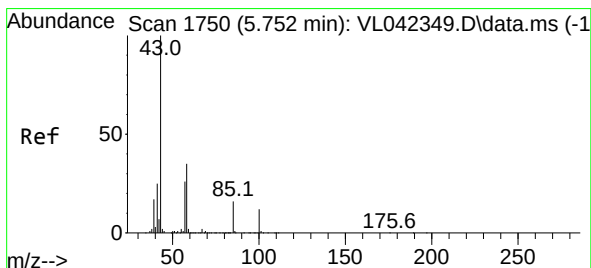
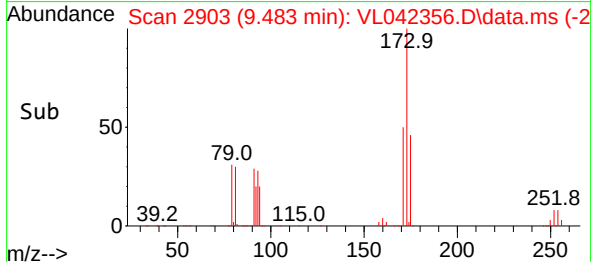
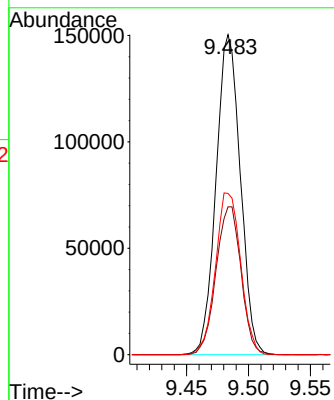
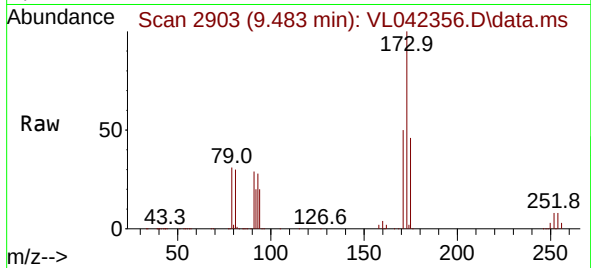




#49  
Bromoform  
Concen: 10.016 ppbv  
RT: 9.483 min Scan# 2903  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

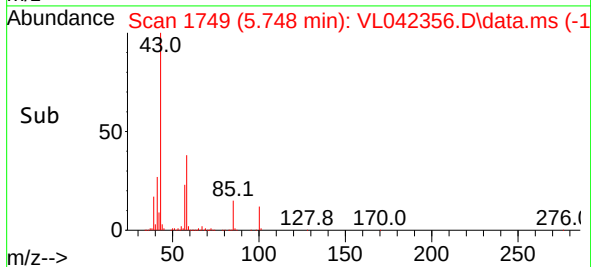
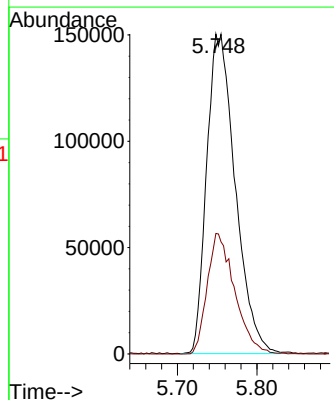
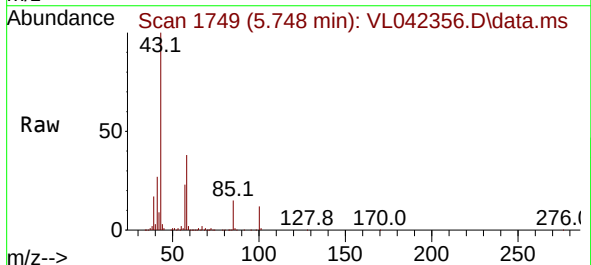
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

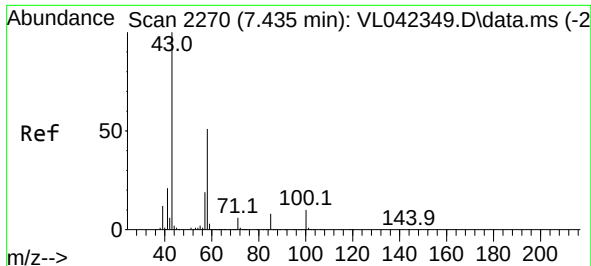
Tgt Ion:173 Resp: 205630  
Ion Ratio Lower Upper  
173 100  
175 47.6 38.2 57.2  
171 52.5 40.9 61.3



#50  
4-Methyl-2-Pentanone  
Concen: 8.819 ppbv  
RT: 5.748 min Scan# 1749  
Delta R.T. -0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145  
Ion Ratio Lower Upper  
43 100  
58 36.2 28.6 43.0

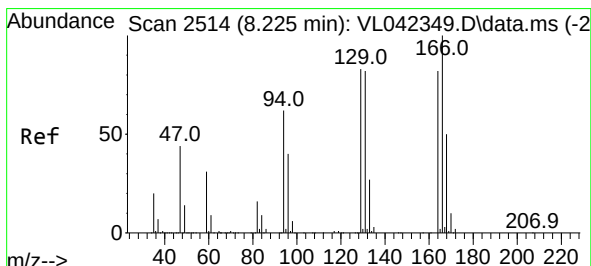
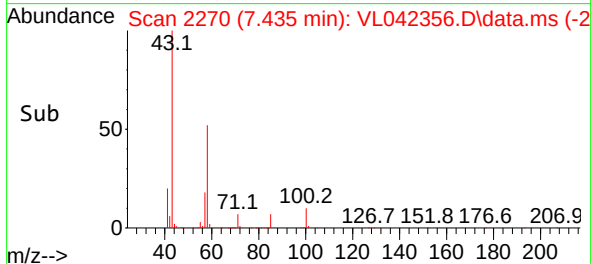
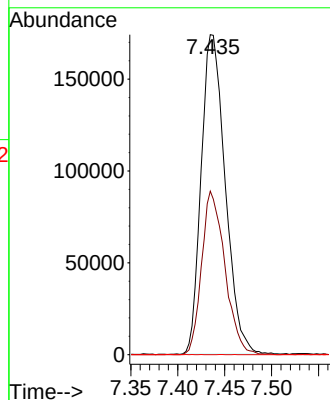
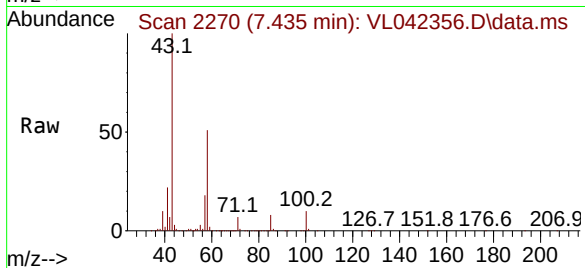




#51  
2-Hexanone  
Concen: 8.118 ppbv  
RT: 7.435 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

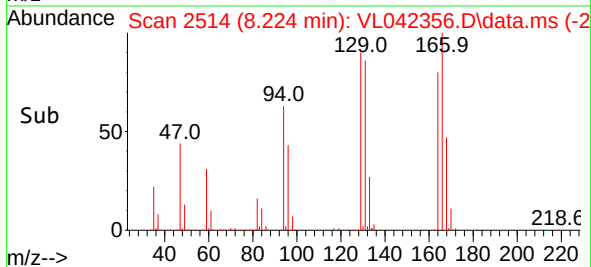
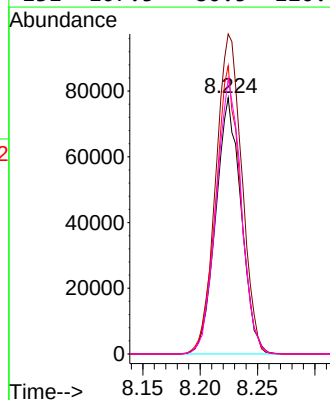
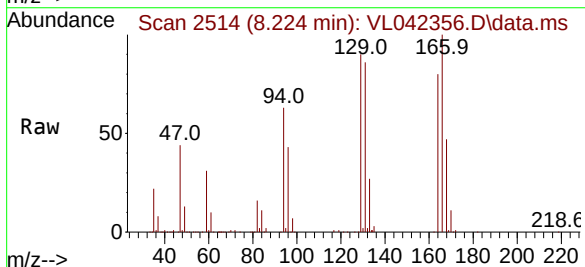
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

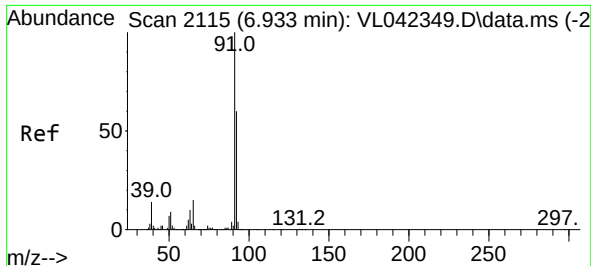
Tgt Ion: 43 Resp: 310521  
Ion Ratio Lower Upper  
43 100  
58 49.3 40.2 60.4  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.827 ppbv  
RT: 8.224 min Scan# 2514  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 164 Resp: 119424  
Ion Ratio Lower Upper  
164 100  
166 124.9 98.2 147.2  
129 112.5 81.8 122.8  
131 107.5 80.5 120.7

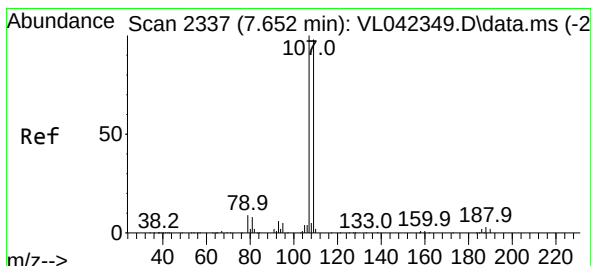
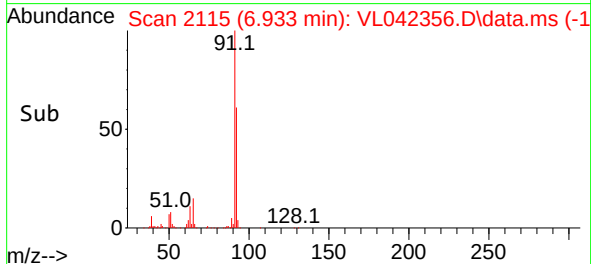
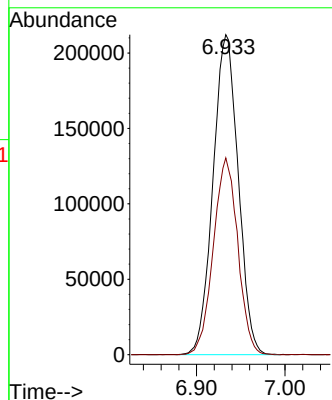
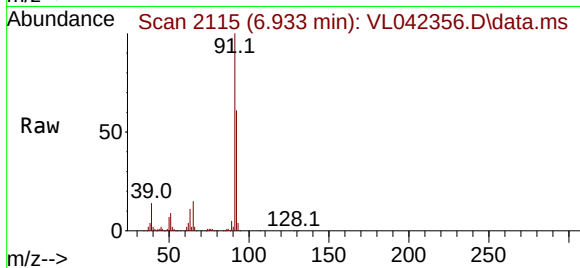




#53  
Toluene  
Concen: 9.986 ppbv  
RT: 6.933 min Scan# 2115  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

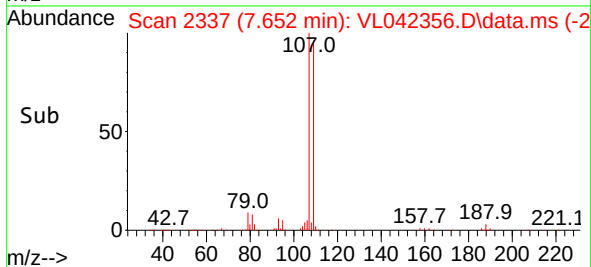
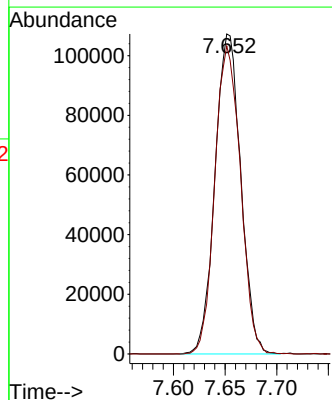
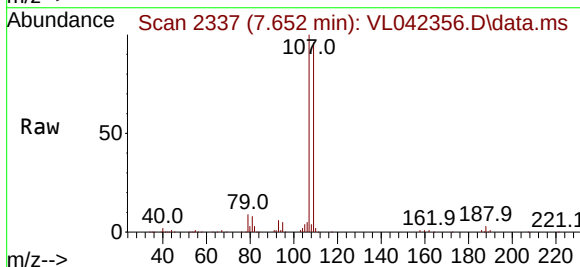
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

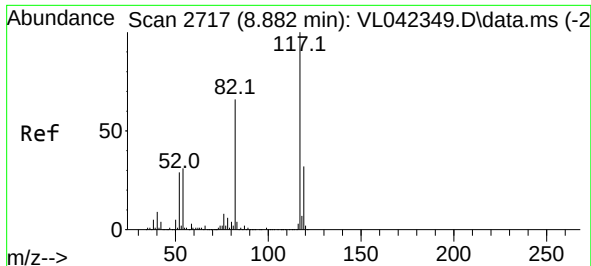
Tgt Ion: 91 Resp: 419462  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 9.792 ppbv  
RT: 7.652 min Scan# 2337  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 107 Resp: 186231  
Ion Ratio Lower Upper  
107 100  
109 96.3 78.2 117.4

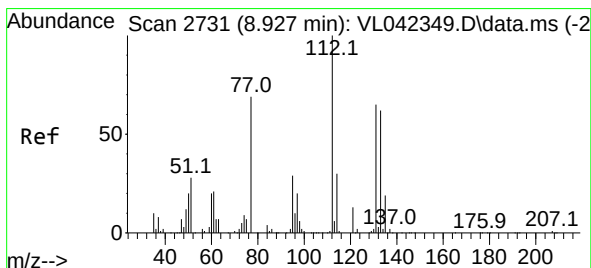
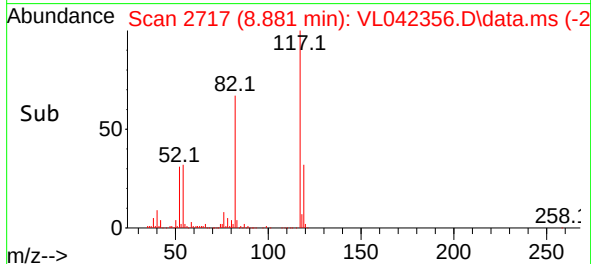
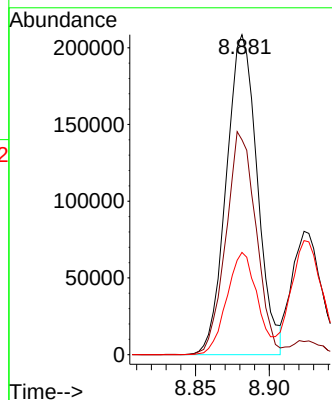
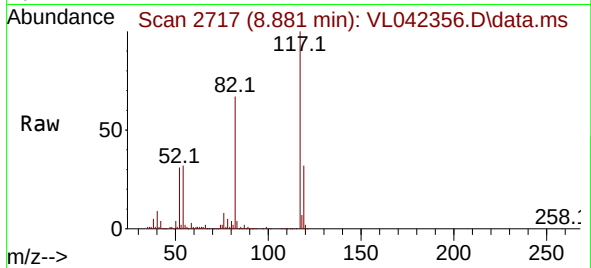




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2717  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

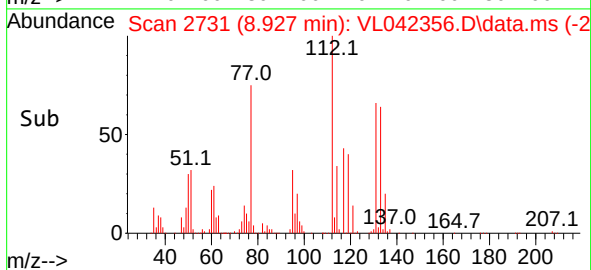
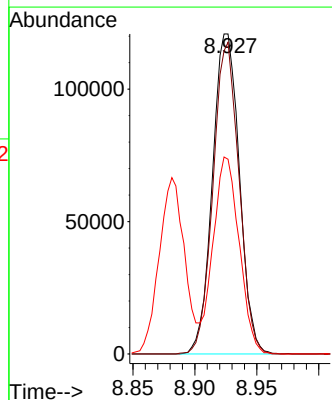
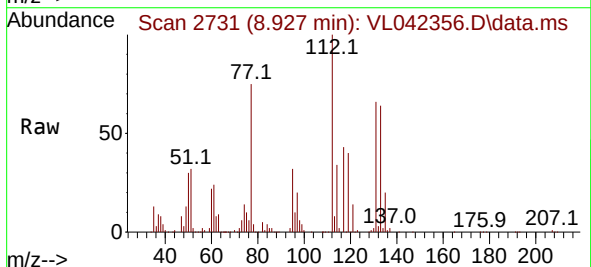
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

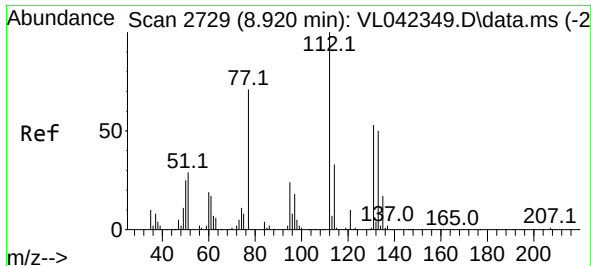
Tgt Ion:117 Resp: 305357  
Ion Ratio Lower Upper  
117 100  
82 68.3 57.8 86.6  
119 31.8 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.886 ppbv  
RT: 8.927 min Scan# 2731  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712  
Ion Ratio Lower Upper  
131 100  
133 93.9 78.3 117.5  
119 59.4 48.7 73.1

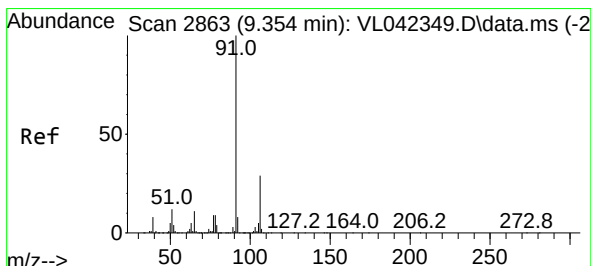
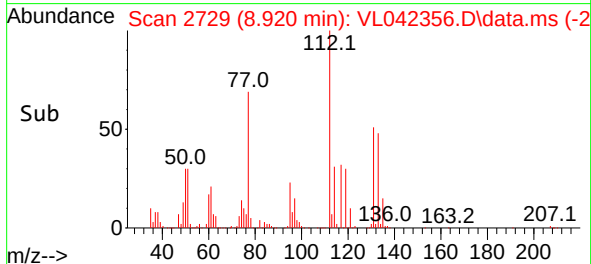
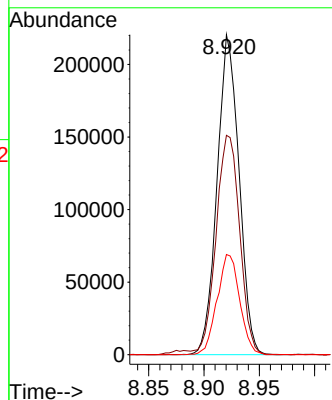
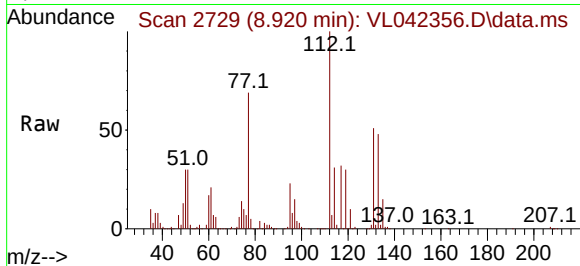




#57  
Chlorobenzene  
Concen: 9.589 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

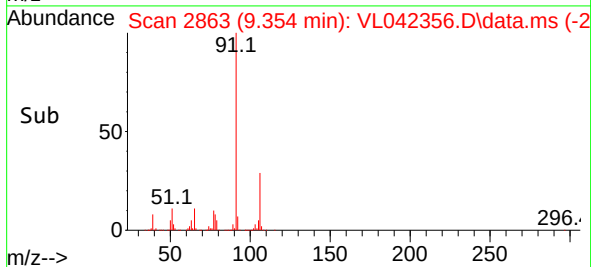
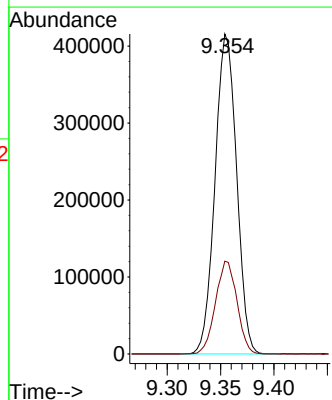
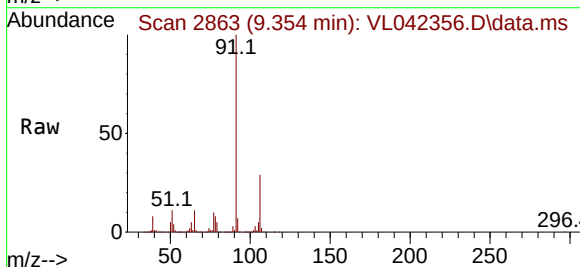
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

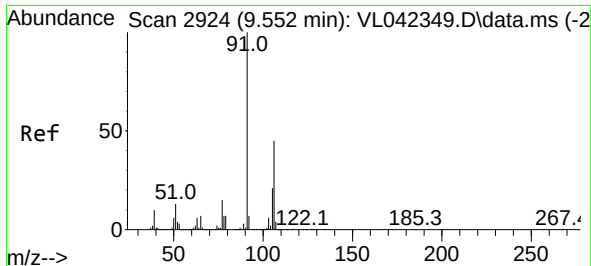
Tgt Ion:112 Resp: 304533  
Ion Ratio Lower Upper  
112 100  
77 68.5 57.8 86.6  
114 31.3 29.3 35.9



#58  
Ethyl Benzene  
Concen: 9.645 ppbv  
RT: 9.354 min Scan# 2863  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515  
Ion Ratio Lower Upper  
91 100  
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 9.084 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

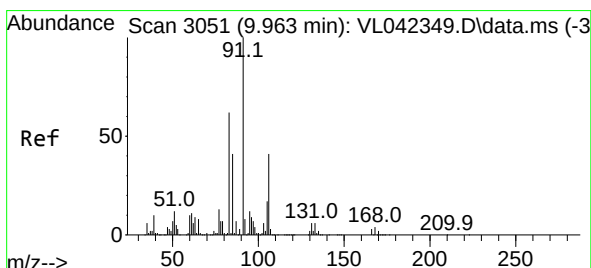
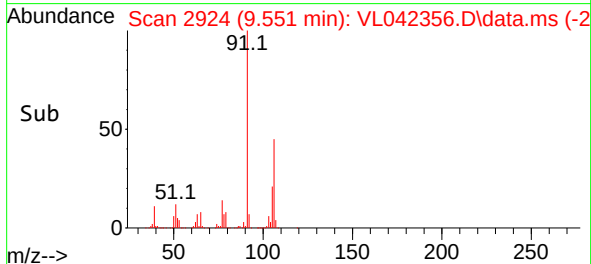
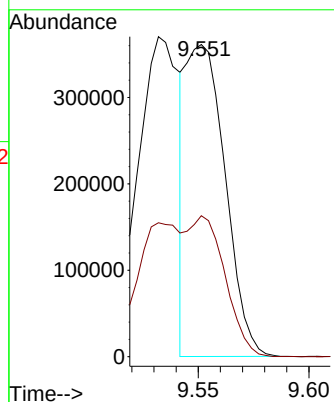
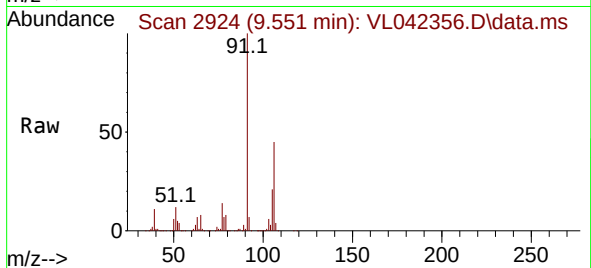
ICVVL041725

Tgt Ion: 91 Resp: 442744

Ion Ratio Lower Upper

91 100

106 92.1 35.4 53.2#



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

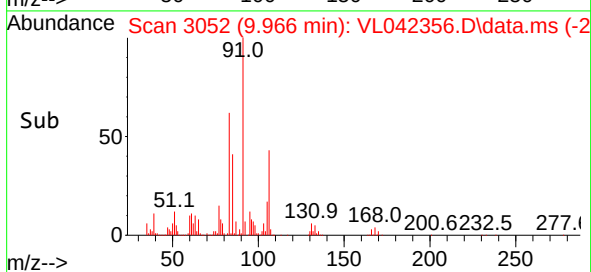
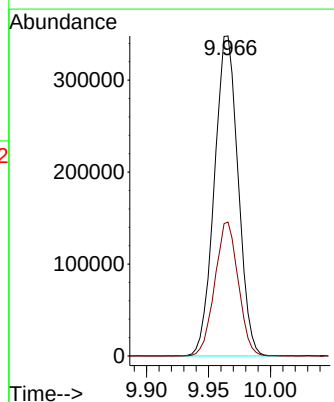
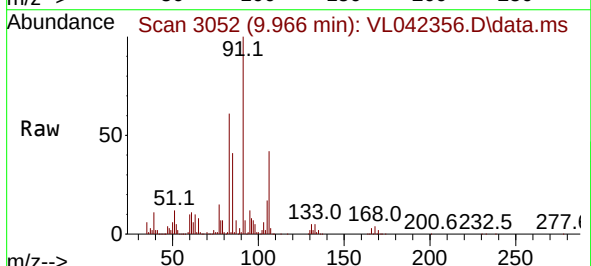
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 464522

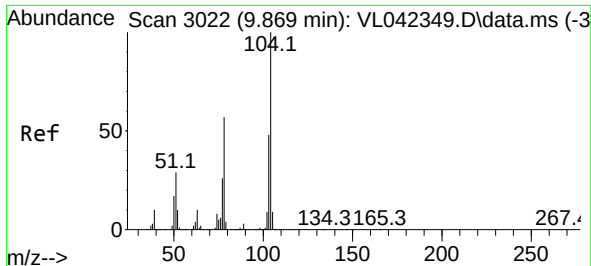
Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4



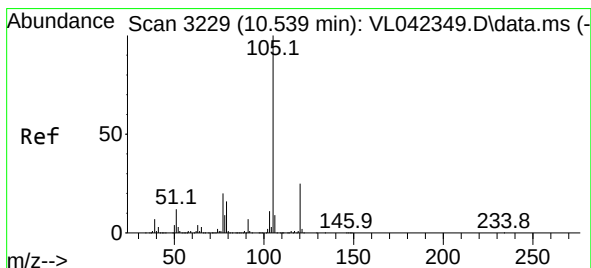
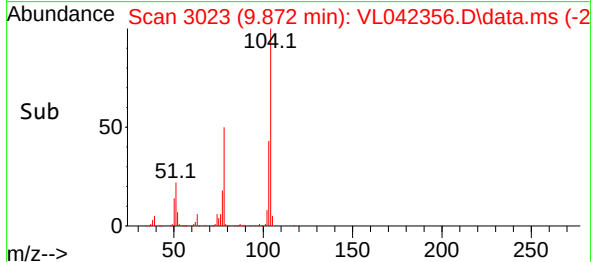
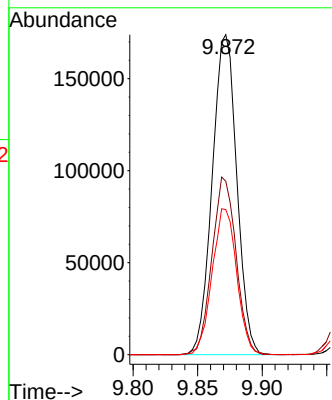
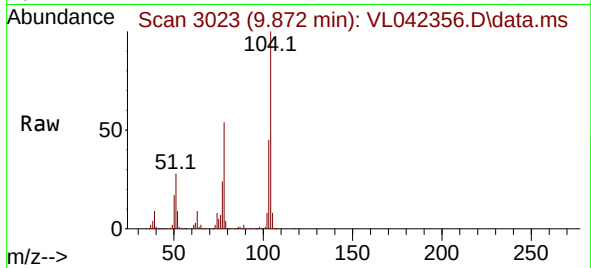




#61  
Styrene  
Concen: 9.813 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

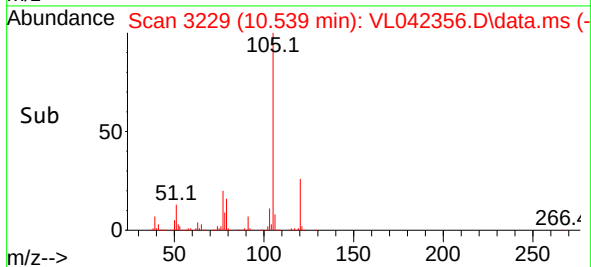
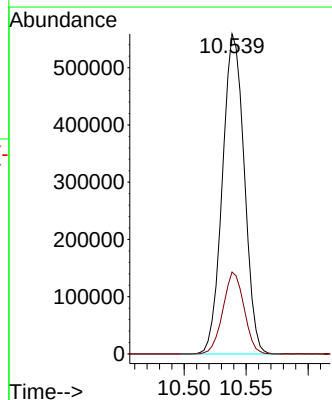
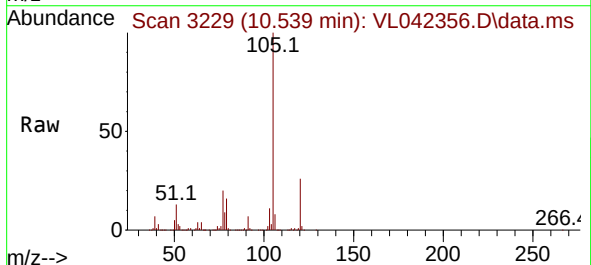
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

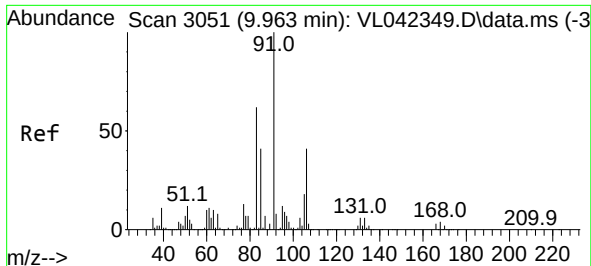
Tgt Ion:104 Resp: 229869  
Ion Ratio Lower Upper  
104 100  
78 54.5 44.6 66.8  
103 45.7 37.4 56.0



#62  
Isopropylbenzene  
Concen: 9.520 ppbv  
RT: 10.539 min Scan# 3229  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 685965  
Ion Ratio Lower Upper  
105 100  
120 24.8 19.8 29.8

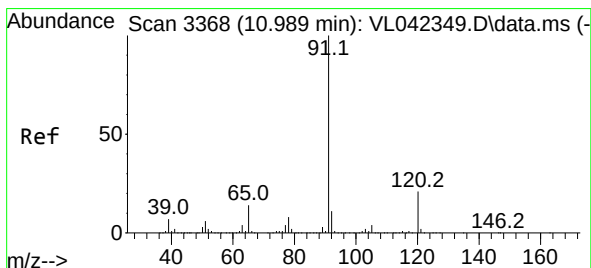
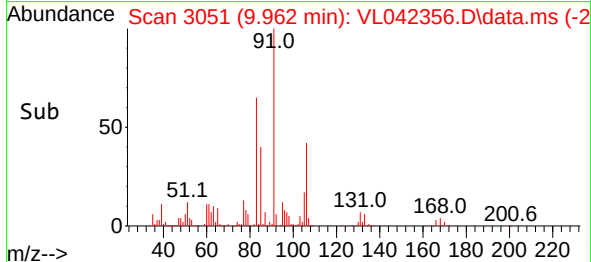
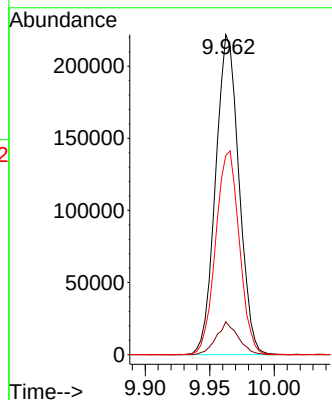
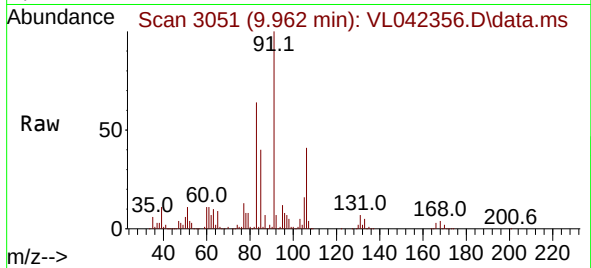




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.773 ppbv  
RT: 9.962 min Scan# 3051  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

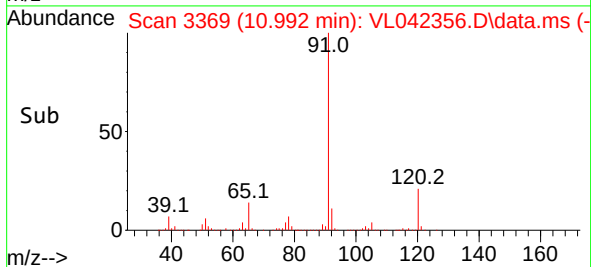
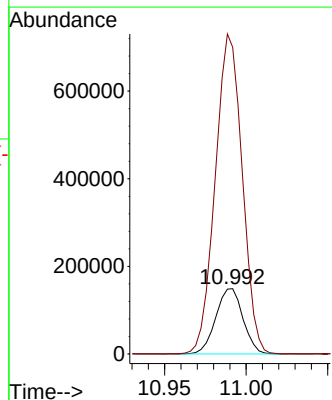
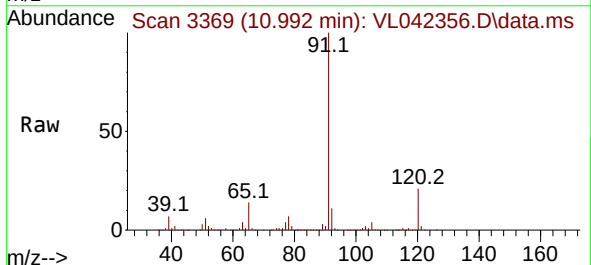
Instrument : MSVOA\_L  
ClientSampleId : ICVVL041725

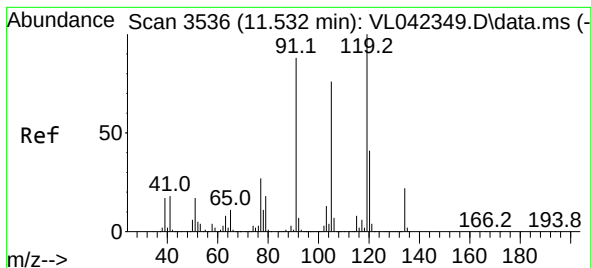
Tgt Ion: 83 Resp: 279007  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.5 13.7  
85 64.6 32.4 97.0



#64  
n-propylbenzene  
Concen: 9.533 ppbv  
RT: 10.992 min Scan# 3369  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654  
Ion Ratio Lower Upper  
120 100  
91 487.7 392.4 588.6





#65

tert-Butylbenzene

Concen: 9.203 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

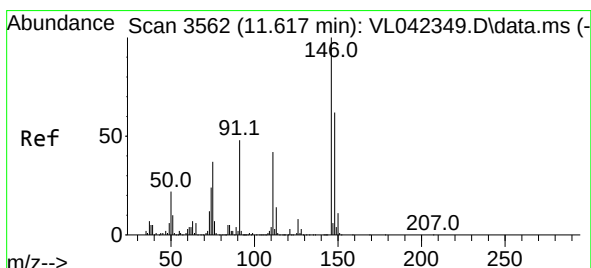
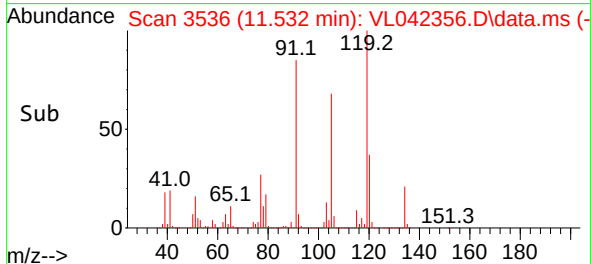
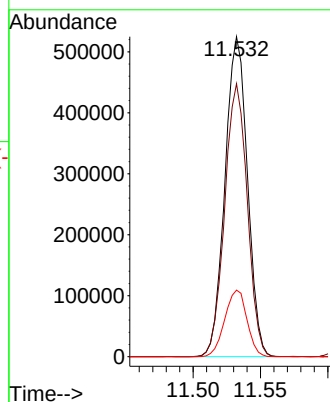
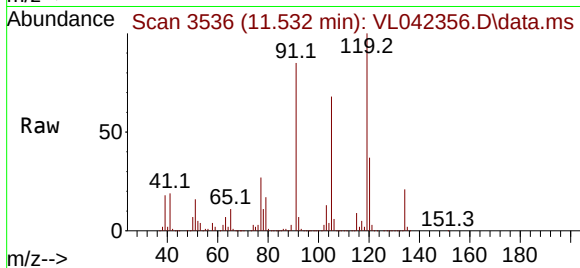
Tgt Ion:119 Resp: 609500

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 20.5 18.8 28.2



#66

Benzyl Chloride

Concen: 8.664 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

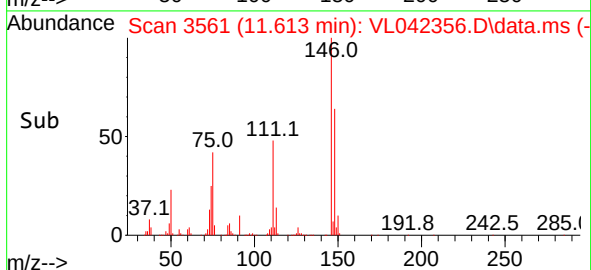
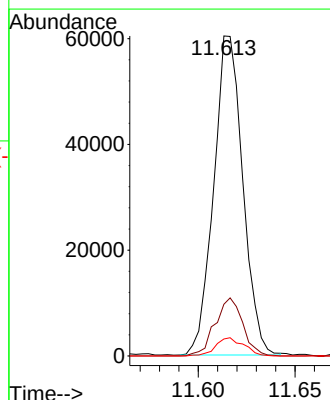
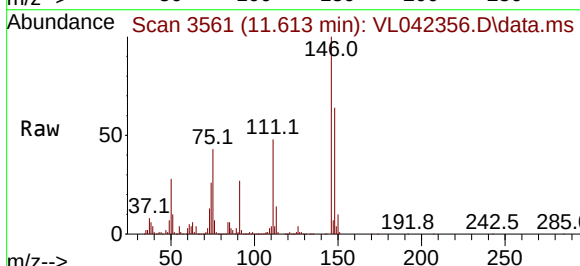
Tgt Ion: 91 Resp: 63051

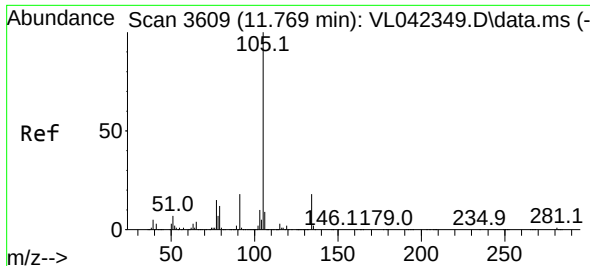
Ion Ratio Lower Upper

91 100

126 17.3 11.8 17.6

128 5.6 4.5 6.7

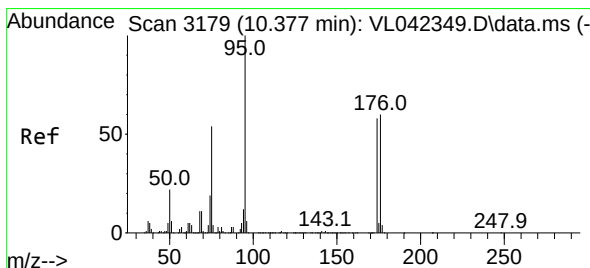
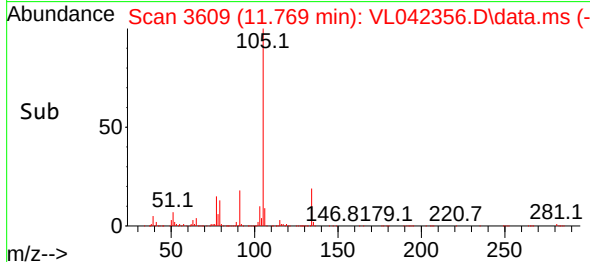
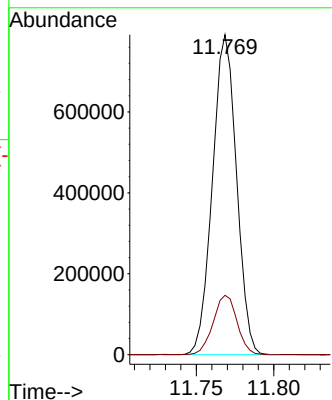
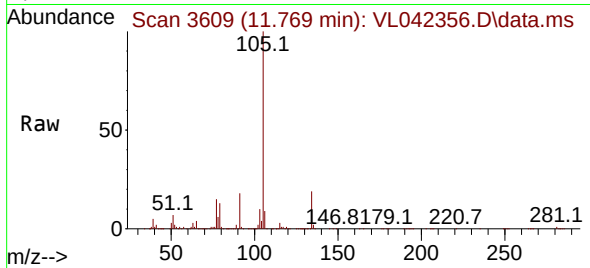




#67  
 sec-Butylbenzene  
 Concen: 9.268 ppbv  
 RT: 11.769 min Scan# 3609  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

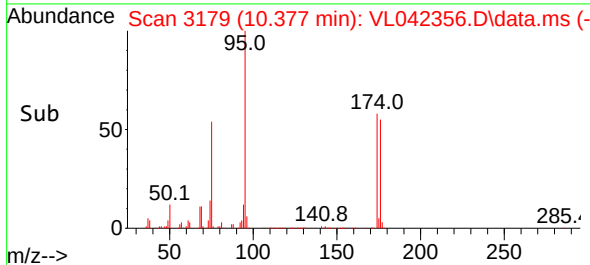
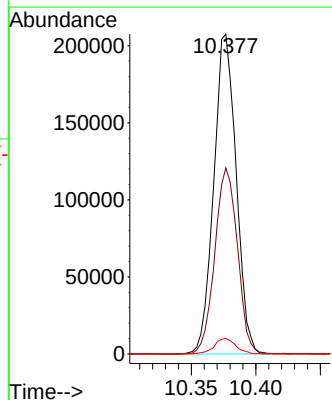
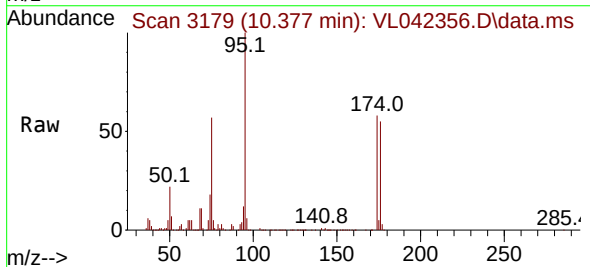
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL041725

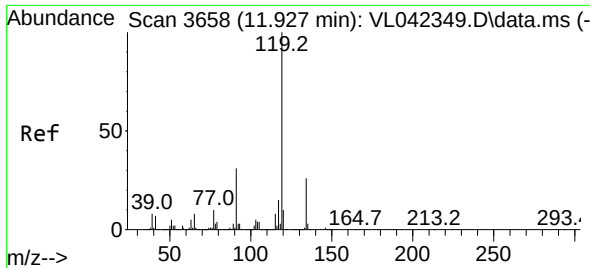
Tgt Ion:105 Resp: 853807  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.969 ppbv  
 RT: 10.377 min Scan# 3179  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149  
 Ion Ratio Lower Upper  
 95 100  
 174 58.7 48.5 72.7  
 175 4.7 3.7 5.5

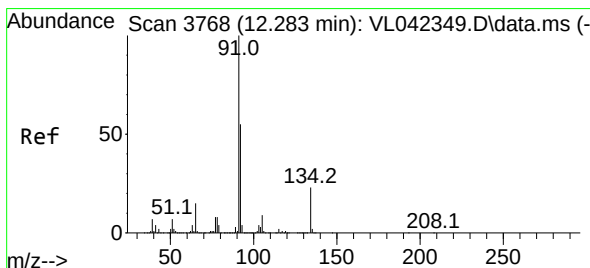
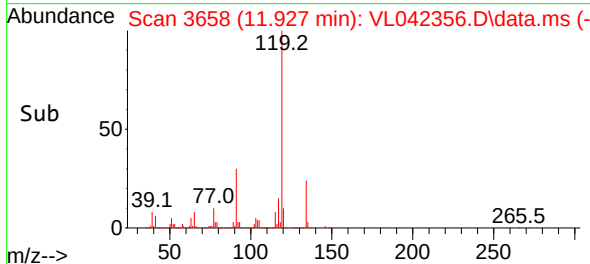
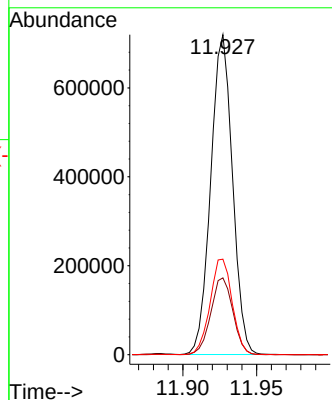
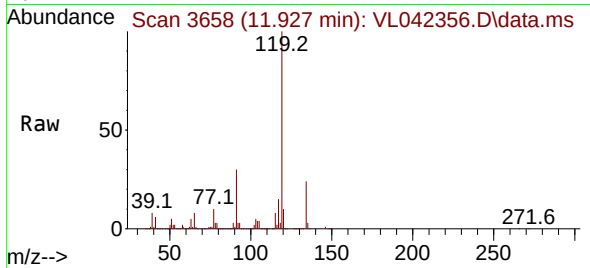




#69  
p-Isopropyltoluene  
Concen: 9.220 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

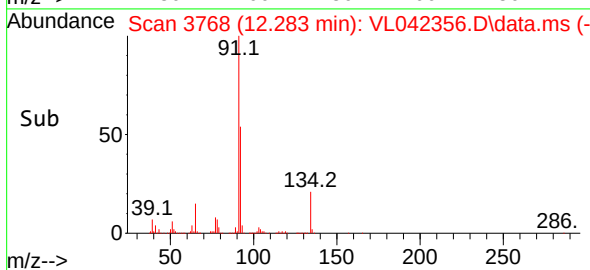
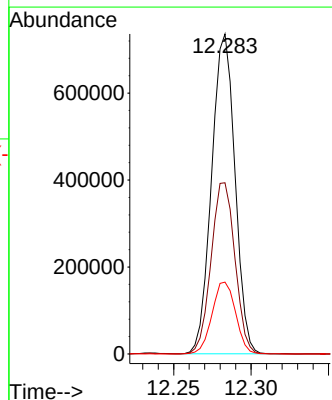
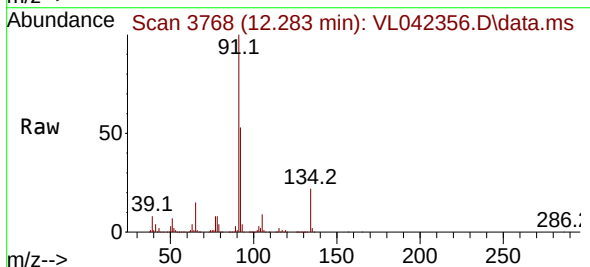
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

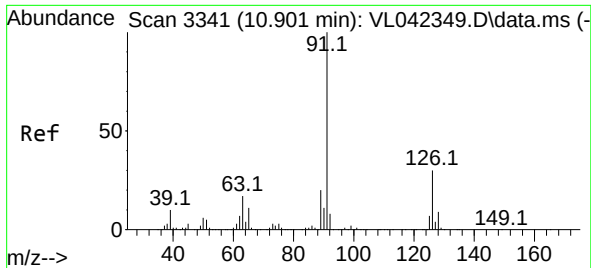
Tgt Ion:119 Resp: 737861  
Ion Ratio Lower Upper  
119 100  
134 24.5 20.0 30.0  
91 30.6 24.4 36.6



#70  
n-Butylbenzene  
Concen: 9.255 ppbv  
RT: 12.283 min Scan# 3768  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461  
Ion Ratio Lower Upper  
91 100  
92 54.9 44.2 66.4  
134 22.7 18.2 27.4

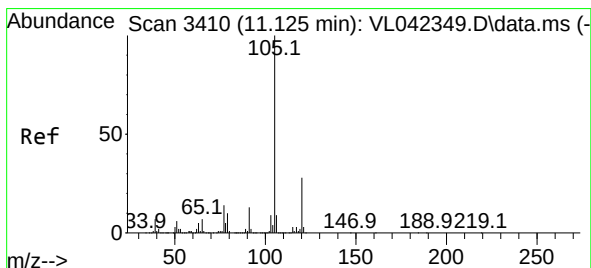
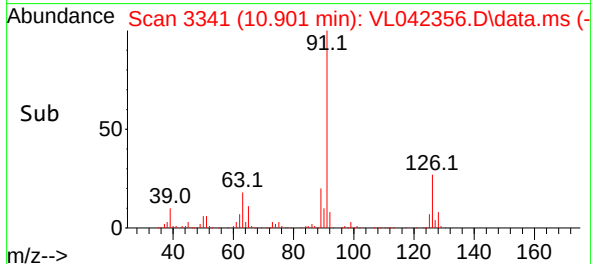
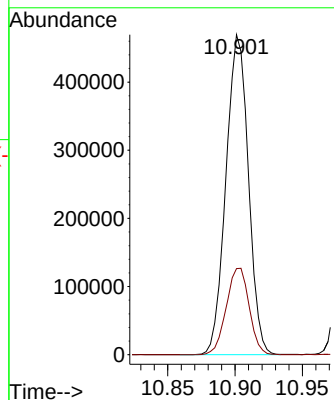
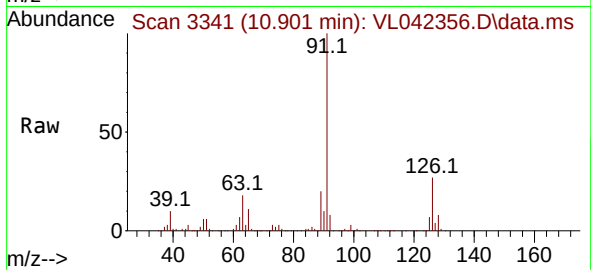




#71  
2-Chlorotoluene  
Concen: 9.622 ppbv  
RT: 10.901 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

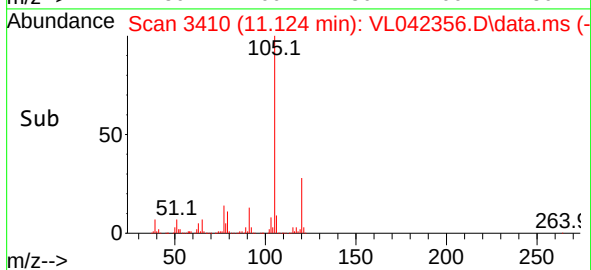
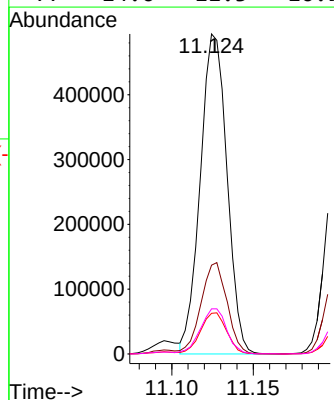
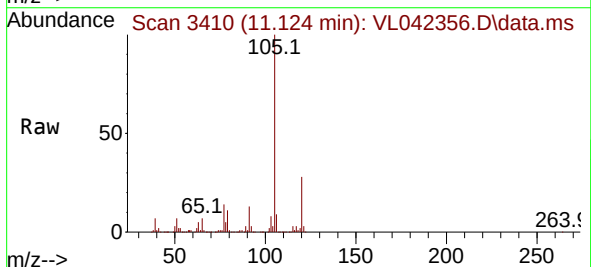
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MSVOA\_L  
ClientSampleId :  
ICVVL041725

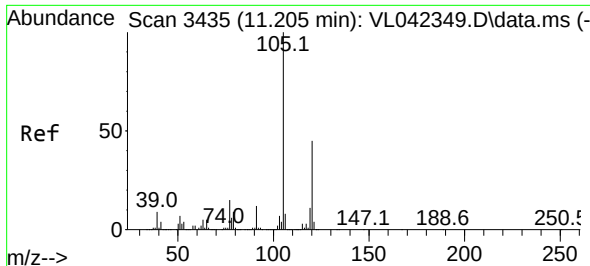
Tgt Ion: 91 Resp: 543794  
Ion Ratio Lower Upper  
91 100  
126 27.5 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 9.385 ppbv  
RT: 11.124 min Scan# 3410  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion: 105 Resp: 563136  
Ion Ratio Lower Upper  
105 100  
120 28.9 23.2 34.8  
91 13.2 10.4 15.6  
77 14.6 11.3 16.9

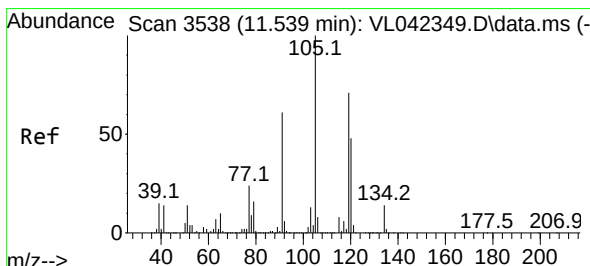
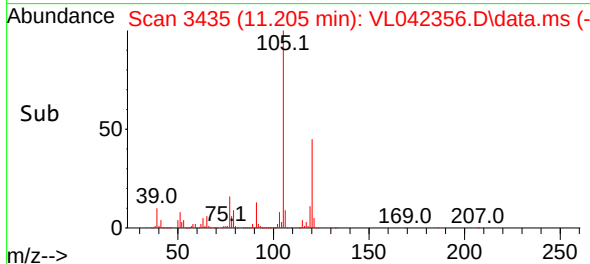
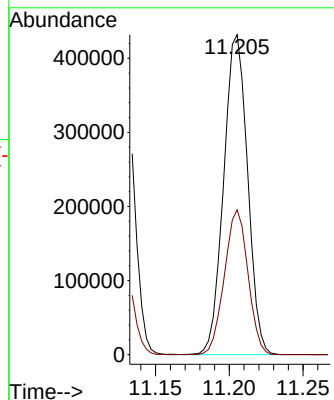
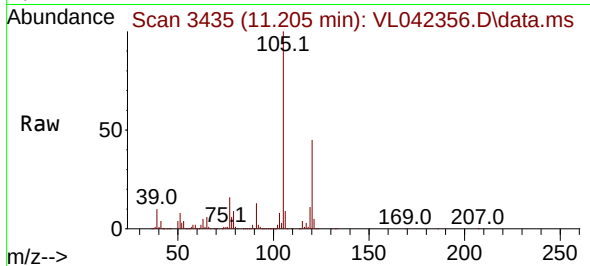




#73  
 1,3,5-Trimethylbenzene  
 Concen: 9.186 ppbv  
 RT: 11.205 min Scan# 3435  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

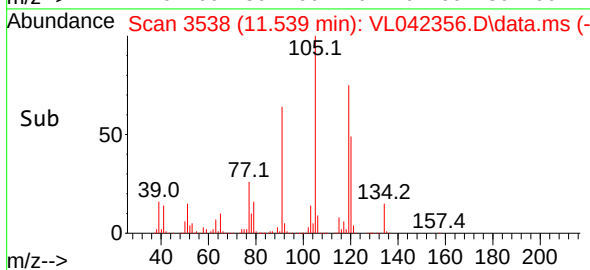
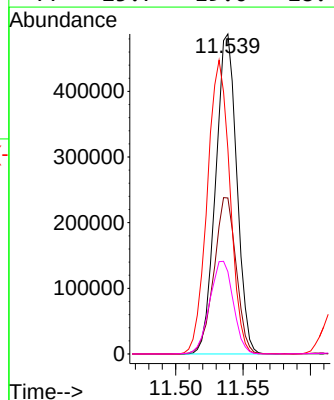
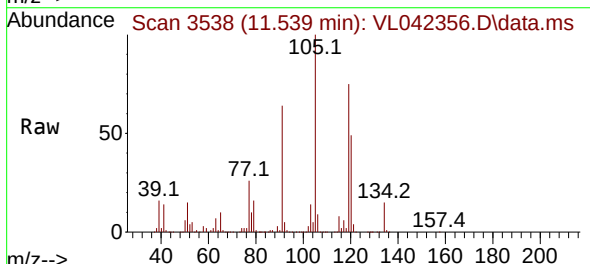
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 ICVVL041725

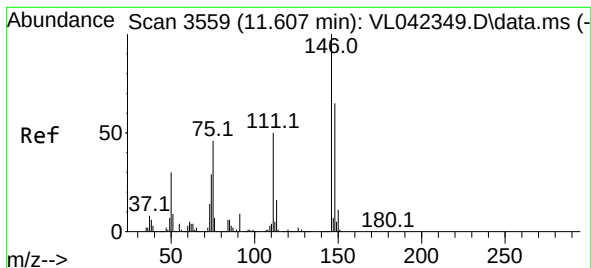
Tgt Ion:105 Resp: 486583  
 Ion Ratio Lower Upper  
 105 100  
 120 45.2 35.6 53.4



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.592 ppbv  
 RT: 11.539 min Scan# 3538  
 Delta R.T. -0.000 min  
 Lab File: VL042356.D  
 Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576  
 Ion Ratio Lower Upper  
 105 100  
 120 48.7 38.1 57.1  
 91 64.0 48.8 73.2  
 77 25.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 9.240 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

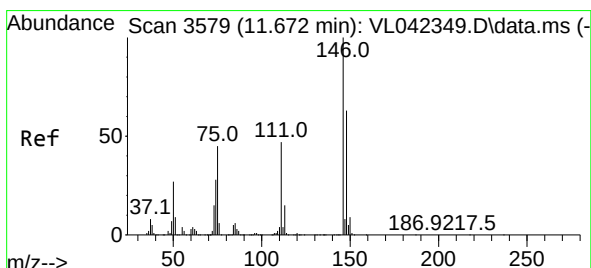
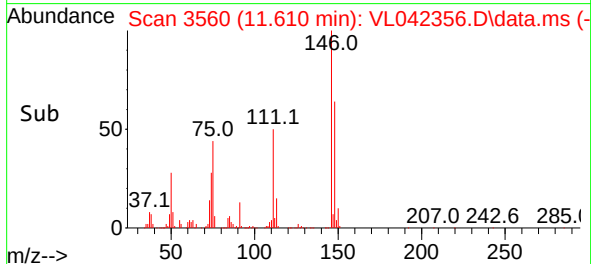
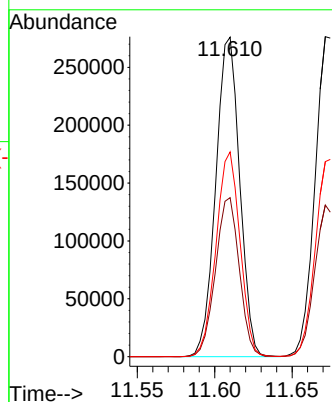
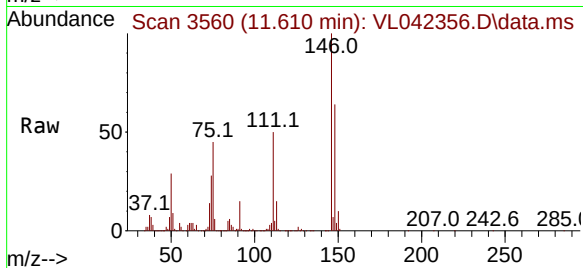
Tgt Ion:146 Resp: 297157

Ion Ratio Lower Upper

146 100

111 49.5 24.3 72.8

148 64.1 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.210 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

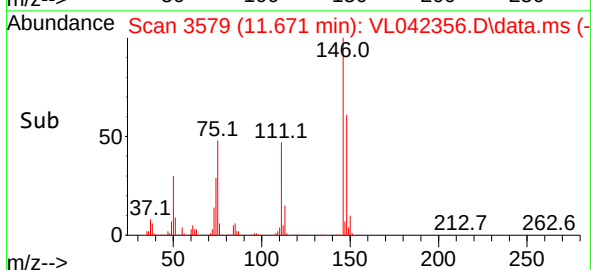
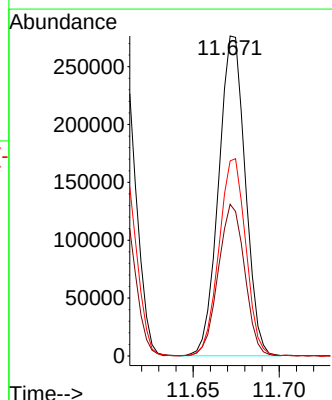
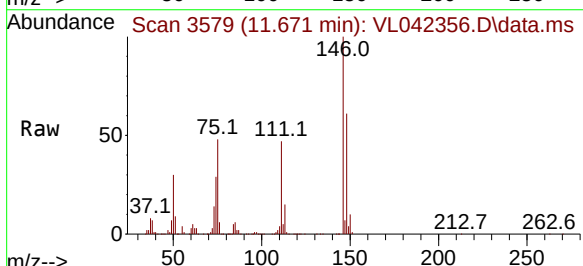
Tgt Ion:146 Resp: 297697

Ion Ratio Lower Upper

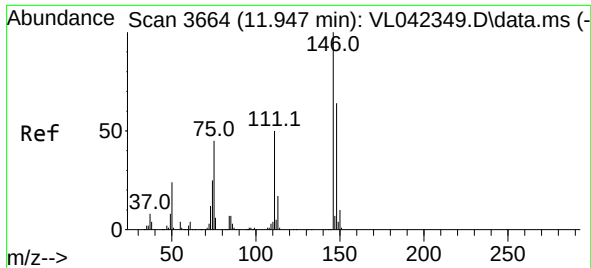
146 100

111 47.1 24.2 72.6

148 62.3 32.1 96.5



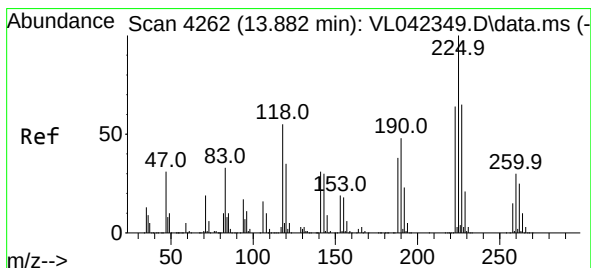
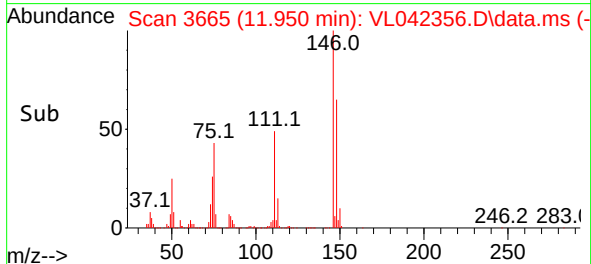
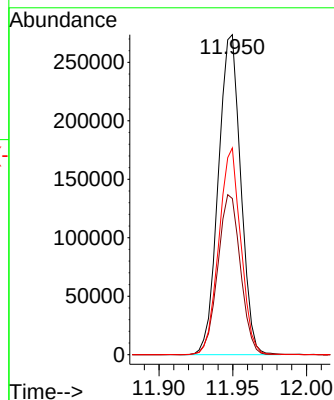
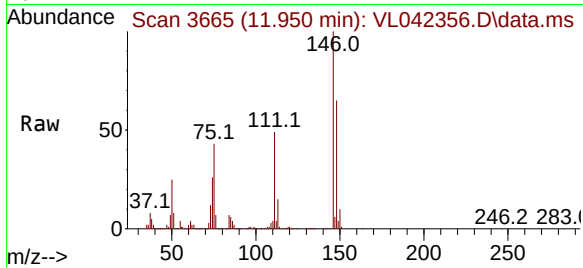




#77  
1,2-Dichlorobenzene  
Concen: 9.251 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. 0.003 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

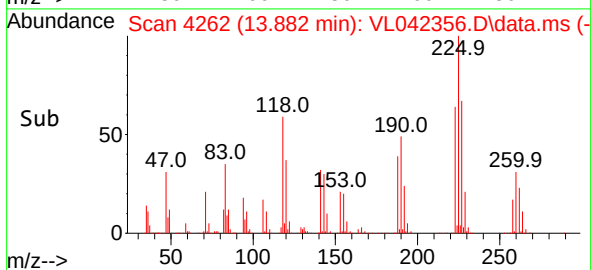
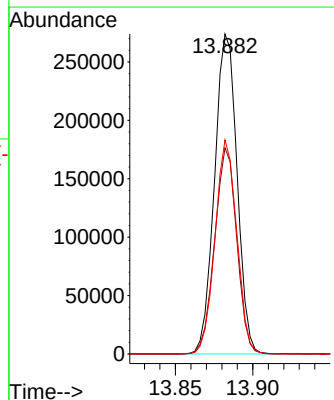
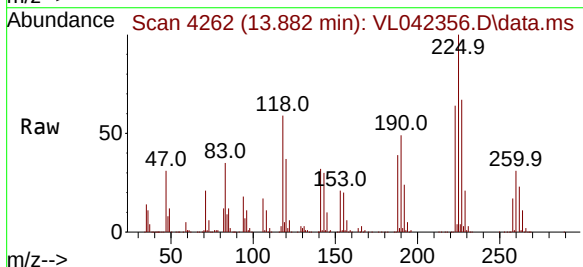
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL041725

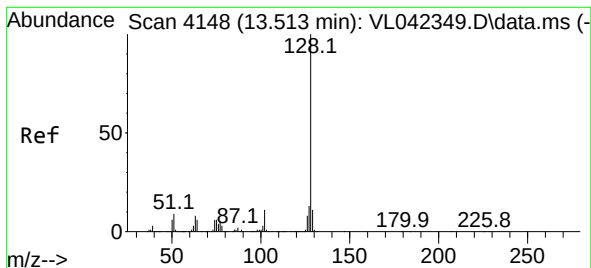
Tgt Ion:146 Resp: 289284  
Ion Ratio Lower Upper  
146 100  
111 50.8 25.3 75.9  
148 63.4 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.771 ppbv  
RT: 13.882 min Scan# 4262  
Delta R.T. -0.000 min  
Lab File: VL042356.D  
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960  
Ion Ratio Lower Upper  
225 100  
223 63.0 50.3 75.5  
227 64.5 51.5 77.3





#79

Naphthalene

Concen: 8.750 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725

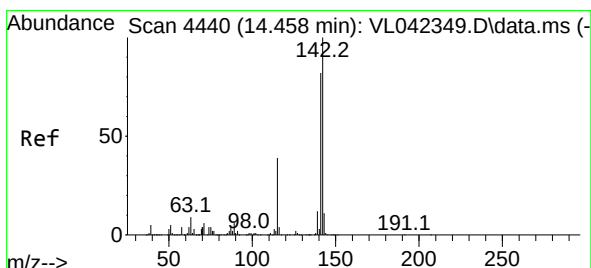
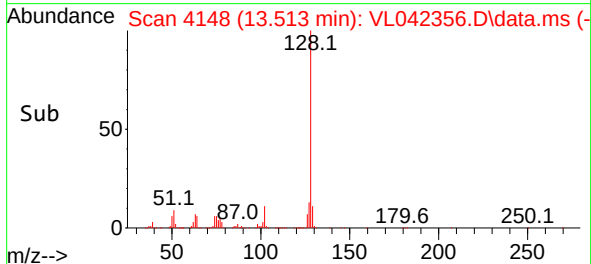
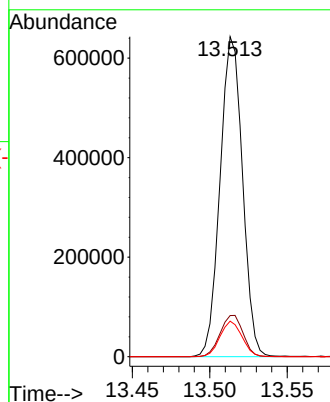
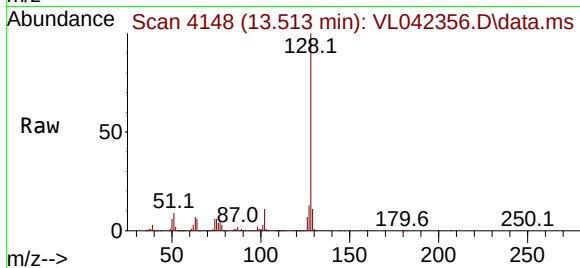
Tgt Ion:128 Resp: 647349

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

129 11.1 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 8.307 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

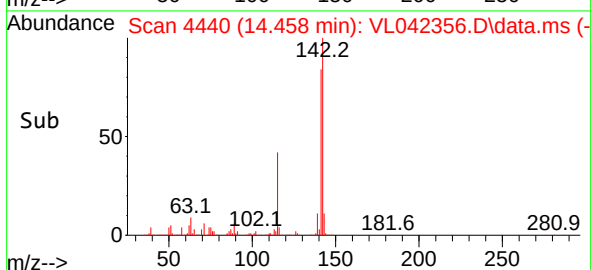
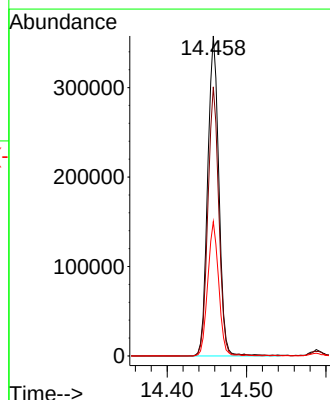
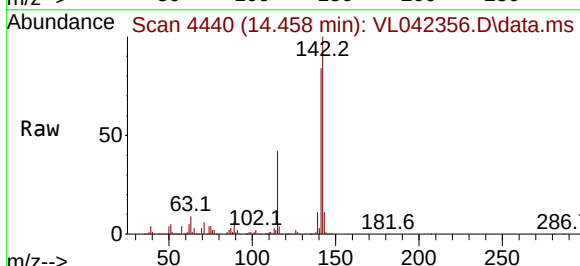
Tgt Ion:142 Resp: 350259

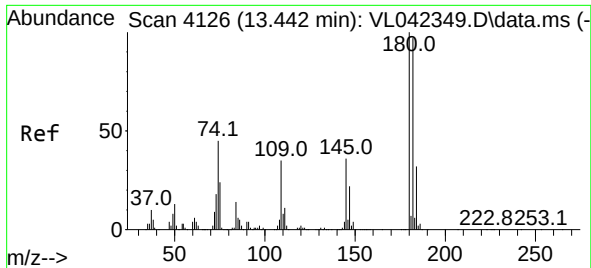
Ion Ratio Lower Upper

142 100

141 83.0 66.8 100.2

115 41.4 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.136 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

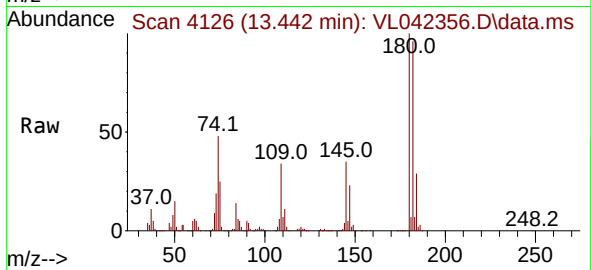
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL041725



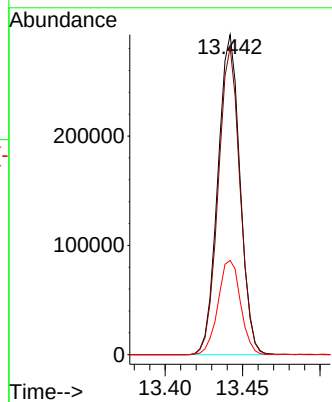
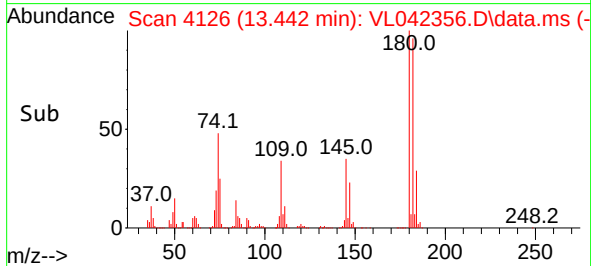
Tgt Ion:180 Resp: 290260

Ion Ratio Lower Upper

180 100

182 94.7 76.8 115.2

184 30.1 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042436.D  
 Acq On : 29 Apr 2025 08:39  
 Operator : SY/MD  
 Sample : VSTDC0010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDC0010

Quant Time: Apr 30 01:15:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.780 | 49   | 114553   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 311268   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 269987   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.373 | 95    | 253216   | 11.413   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 114.100% |

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.495 | 85   | 234841   | 11.603 | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 1.473 | 51   | 188007   | 9.755  | ppbv   | 95     |
| 4) Chloromethane              | 1.531 | 50   | 90298    | 11.274 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.576 | 62   | 86603    | 9.933  | ppbv   | 96     |
| 6) Bromomethane               | 1.664 | 94   | 41020    | 10.952 | ppbv   | 85     |
| 7) Chloroethane               | 1.703 | 64   | 35167    | 11.153 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane  | 1.550 | 85   | 199977   | 11.508 | ppbv   | 94     |
| 9) Propene                    | 1.482 | 41   | 69189    | 7.883  | ppbv   | 98     |
| 10) Heptane                   | 4.968 | 43   | 184737   | 7.492  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.874 | 101  | 227979   | 11.845 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101  | 172070   | 10.934 | ppbv   | 99     |
| 13) Ethanol                   | 1.719 | 45   | 4336     | 3.108  | ppbv   | 81     |
| 14) Bromoethene               | 1.777 | 108  | 63597    | 10.721 | ppbv   | 97     |
| 15) Acetone                   | 1.832 | 43   | 184887   | 9.859  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.605 | 39   | 88889    | 9.910  | ppbv   | 95     |
| 17) tert-Butyl alcohol        | 2.036 | 59   | 229627   | 9.881  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.029 | 96   | 75451    | 10.263 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.884 | 45   | 101987   | 9.790  | ppbv   | 91     |
| 20) Methylene Chloride        | 2.059 | 84   | 67278    | 9.161  | ppbv   | 95     |
| 21) Allyl Chloride            | 2.091 | 41   | 131864   | 10.184 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96   | 86577    | 10.343 | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.460 | 43   | 61601    | 8.115  | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 2.405 | 63   | 172555   | 10.852 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.832 | 43   | 408744   | 8.840  | ppbv   | 100    |
| 26) Hexane                    | 2.819 | 57   | 153801   | 8.220  | ppbv   | 96     |
| 27) Carbon Disulfide          | 2.146 | 76   | 212793   | 10.622 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73   | 114108   | 9.308  | ppbv   | 93     |
| 29) Chloroform                | 2.845 | 83   | 290965   | 11.002 | ppbv   | 100    |
| 30) Cyclohexane               | 3.848 | 84   | 130608   | 8.635  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61   | 174659   | 9.818  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97   | 312430   | 10.493 | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43   | 232034   | 9.426  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.755 | 117  | 316689   | 11.242 | ppbv   | 94     |
| 36) Benzene                   | 3.651 | 78   | 314493   | 9.367  | ppbv   | 95     |
| 37) 1,2-Dichloroethane        | 3.214 | 62   | 244516   | 12.134 | ppbv # | 96     |
| 38) Trichloroethene           | 4.541 | 130  | 123997   | 8.450  | ppbv # | 88     |
| 39) 1,2-Dichloropropane       | 4.305 | 63   | 110315   | 8.817  | ppbv # | 84     |
| 40) 1,4-Dioxane               | 4.577 | 88   | 54364    | 7.907  | ppbv # | 90     |
| 41) Tetrahydrofuran           | 3.049 | 42   | 121700   | 8.479  | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.483 | 83   | 312029   | 11.127 | ppbv   | 98     |
| 43) Methyl Methacrylate       | 4.874 | 69   | 126594   | 8.367  | ppbv   | 94     |
| 44) 2,2,4-Trimethylpentane    | 4.632 | 57   | 522427   | 9.010  | ppbv   | 94     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75   | 139508   | 9.026  | ppbv   | 89     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042436.D  
 Acq On : 29 Apr 2025 08:39  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

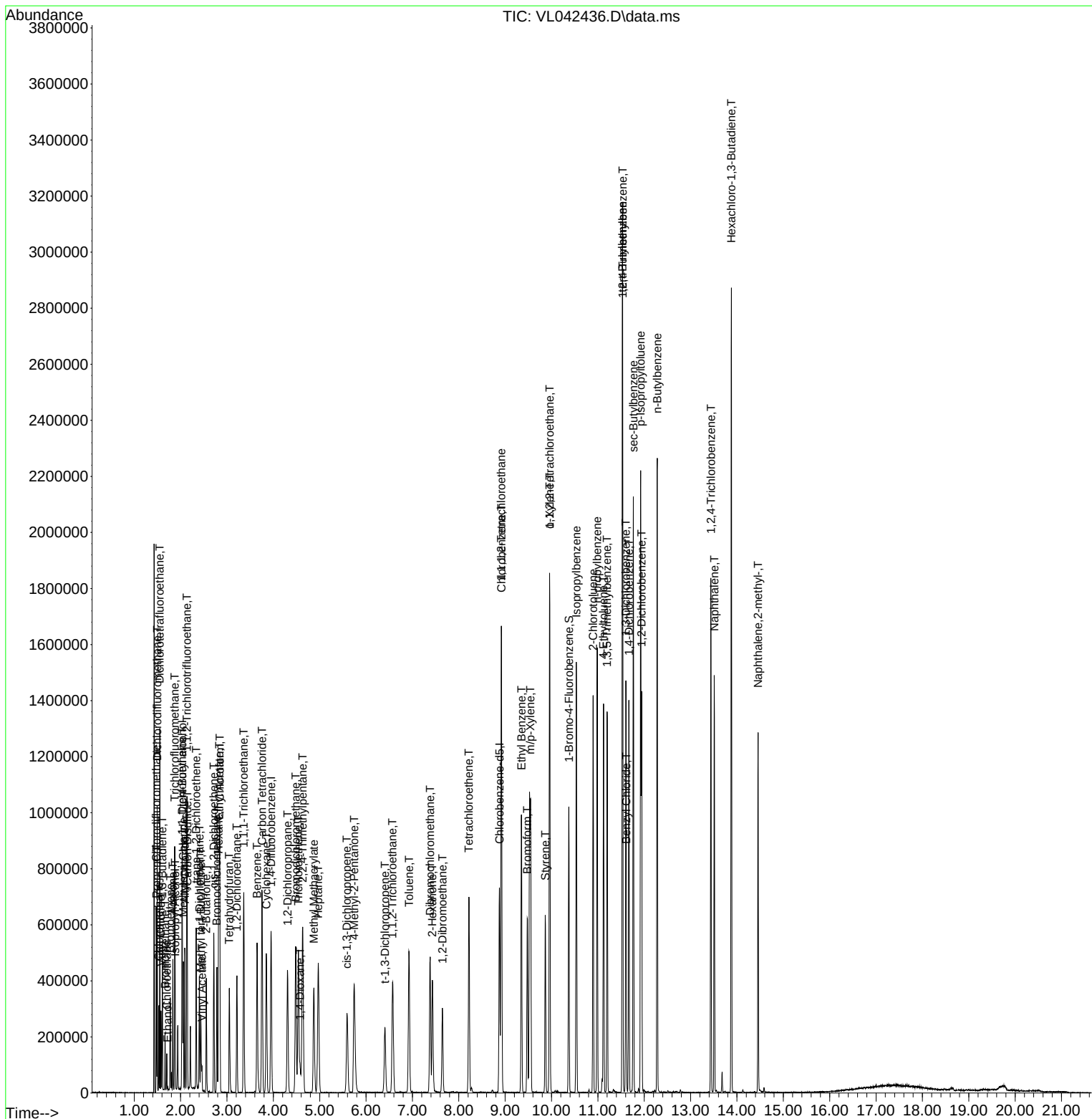
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

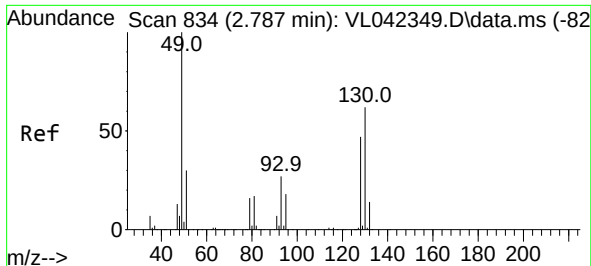
Quant Time: Apr 30 01:15:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.587  | 75   | 169355   | 8.953  | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 6.570  | 97   | 86392    | 6.778  | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.380  | 129  | 232818   | 10.339 | ppbv   | 100      |
| 49) Bromoform                 | 9.477  | 173  | 188896   | 9.593  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.742  | 43   | 325855   | 7.965  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.428  | 43   | 269915   | 7.357  | ppbv # | 93       |
| 52) Tetrachloroethene         | 8.218  | 164  | 101642   | 7.833  | ppbv # | 84       |
| 53) Toluene                   | 6.926  | 91   | 361317   | 8.968  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 179895   | 9.861  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 182759   | 11.184 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.920  | 112  | 283210   | 10.086 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.351  | 91   | 536634   | 10.032 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.545  | 91   | 469573   | 10.897 | ppbv # | 43       |
| 60) o-Xylene                  | 9.959  | 91   | 463713   | 10.686 | ppbv   | 96       |
| 61) Styrene                   | 9.869  | 104  | 195813   | 9.454  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.535 | 105  | 672630   | 10.558 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.959  | 83   | 272746   | 9.699  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 160736   | 10.037 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 616872   | 10.535 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 49841    | 7.746  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 869595   | 10.677 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 738863   | 10.442 | ppbv   | 96       |
| 70) n-Butylbenzene            | 12.280 | 91   | 787717   | 10.688 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 528205   | 10.571 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 559285   | 10.542 | ppbv   | 96       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 493949   | 10.546 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.535 | 105  | 554136   | 10.130 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.603 | 146  | 285025   | 10.024 | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 291795   | 10.210 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 283700   | 10.261 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 263477   | 9.437  | ppbv   | 99       |
| 79) Naphthalene               | 13.510 | 128  | 615408   | 9.408  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 316788   | 8.497  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 263006   | 9.363  | ppbv   | 98       |

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

Quant Time: Apr 30 01:15:51 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

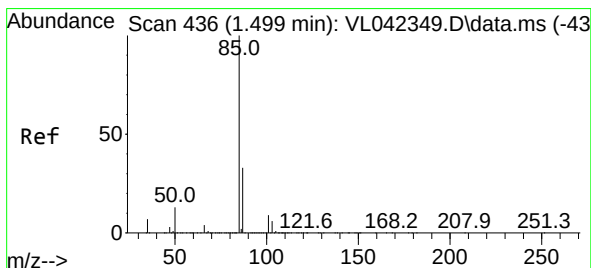
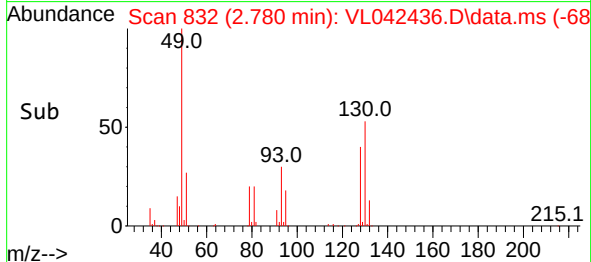
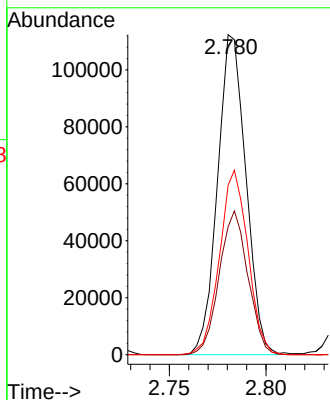
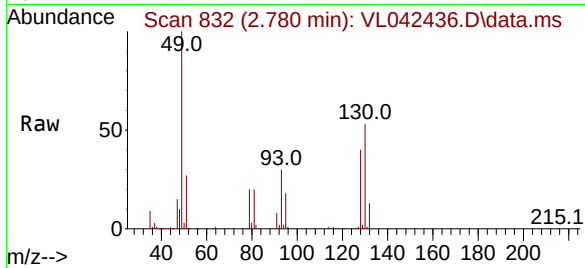




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.780 min Scan# 81  
 Delta R.T. -0.007 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

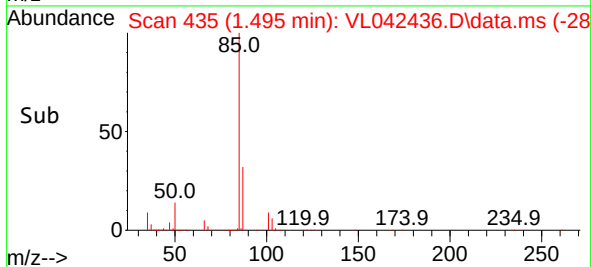
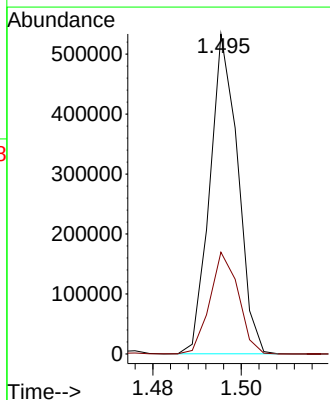
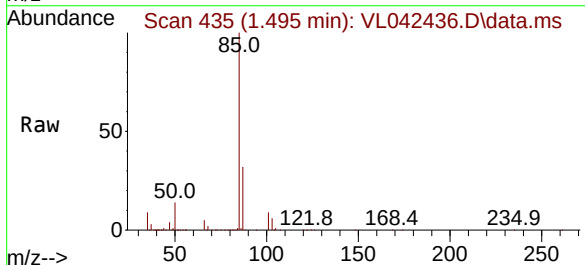
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

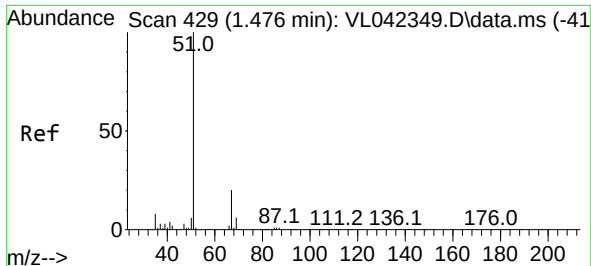
Tgt Ion: 49 Resp: 114553  
 Ion Ratio Lower Upper  
 49 100  
 128 45.3 22.8 68.4  
 130 57.8 29.3 88.0



#2  
 Dichlorodifluoromethane  
 Concen: 11.603 ppbv  
 RT: 1.495 min Scan# 435  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 234841  
 Ion Ratio Lower Upper  
 85 100  
 87 31.8 26.6 39.8

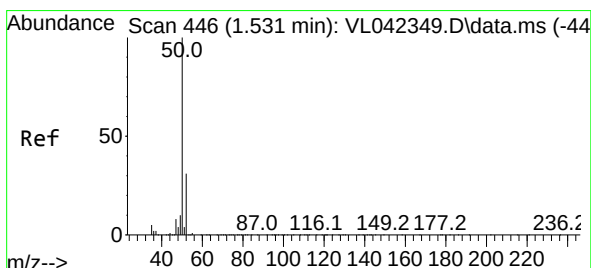
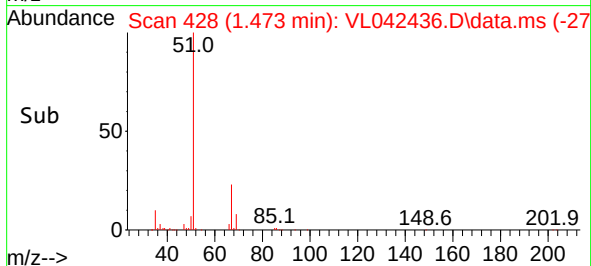
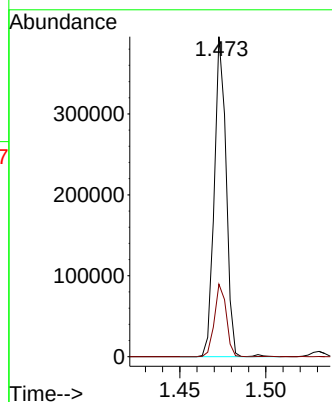
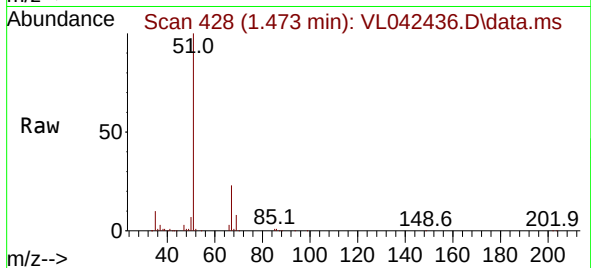




#3  
Chlorodifluoromethane  
Concen: 9.755 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

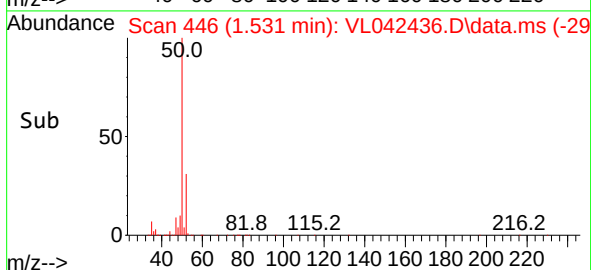
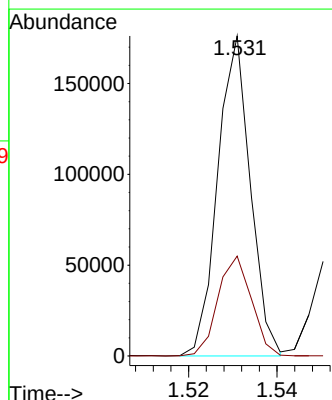
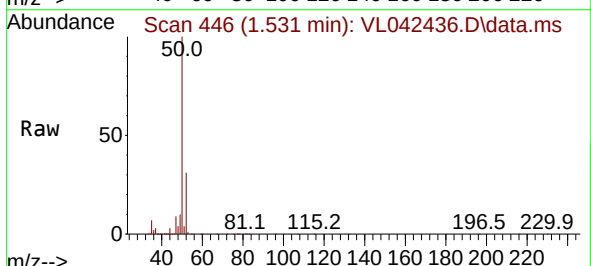
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 51 Resp: 188007  
Ion Ratio Lower Upper  
51 100  
67 22.8 16.2 24.4

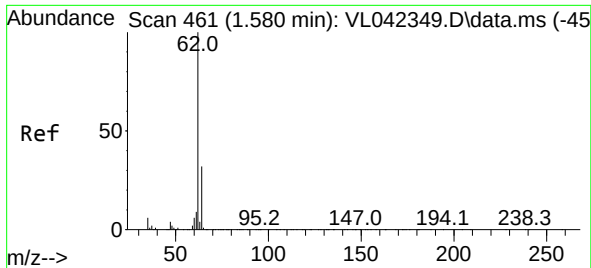


#4  
Chloromethane  
Concen: 11.274 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 50 Resp: 90298  
Ion Ratio Lower Upper  
50 100  
52 31.2 24.7 37.1



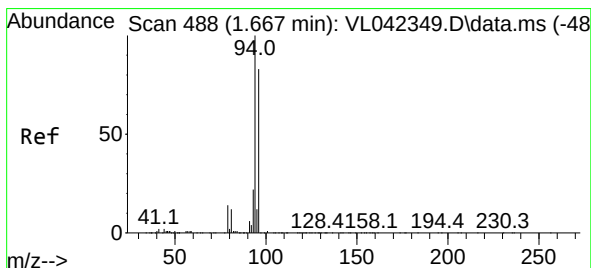
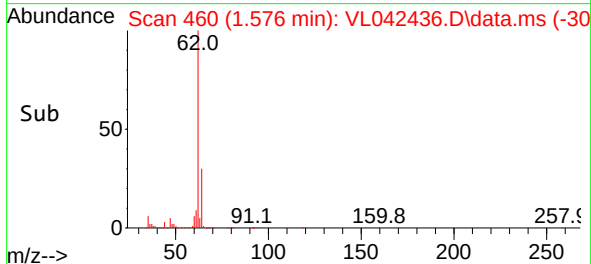
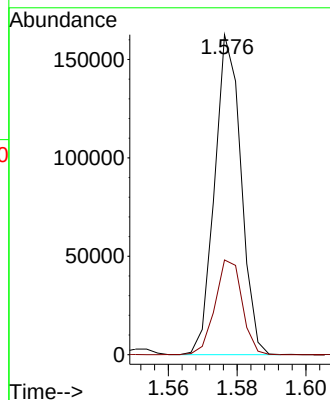
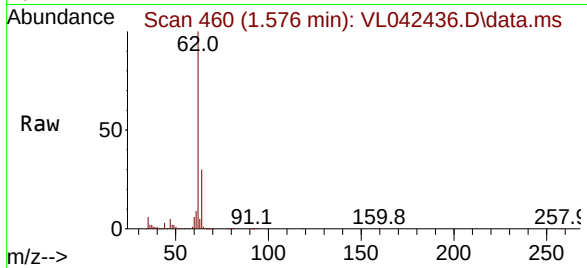




#5  
 Vinyl Chloride  
 Concen: 9.933 ppbv  
 RT: 1.576 min Scan# 460  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

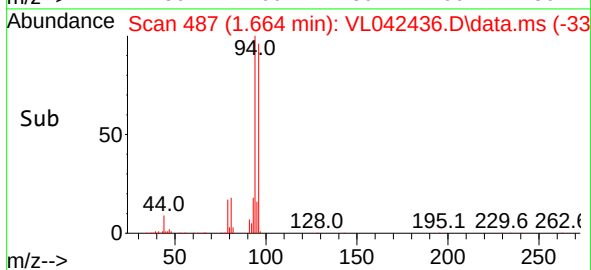
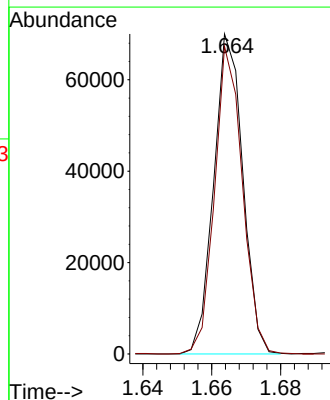
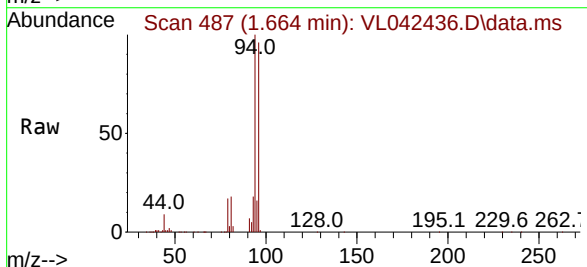
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

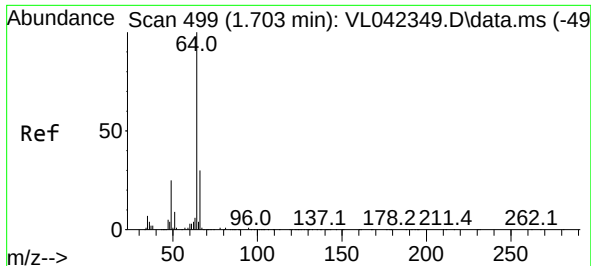
Tgt Ion: 62 Resp: 86603  
 Ion Ratio Lower Upper  
 62 100  
 64 29.6 25.4 38.0



#6  
 Bromomethane  
 Concen: 10.952 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 94 Resp: 41020  
 Ion Ratio Lower Upper  
 94 100  
 96 95.9 66.2 99.2

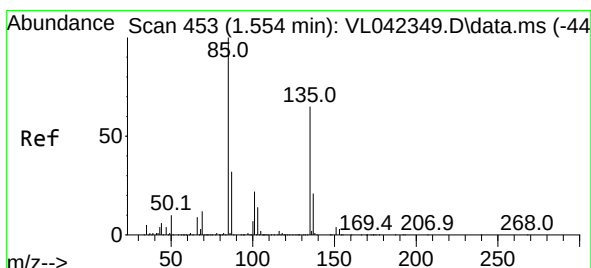
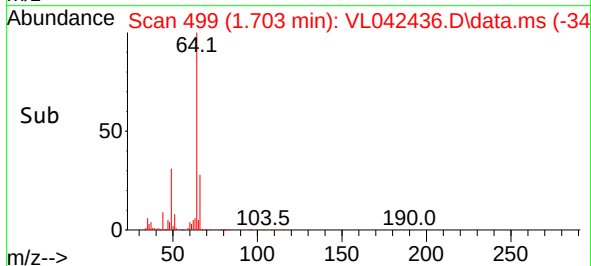
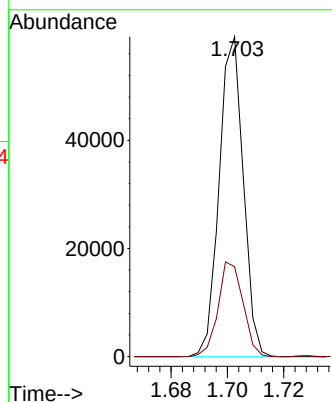
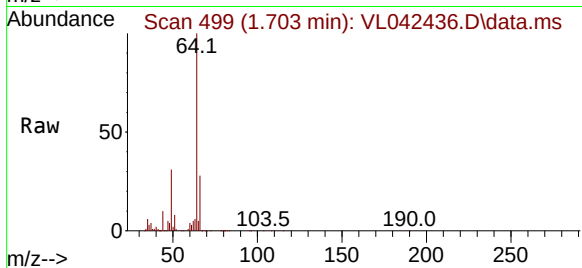




#7  
Chloroethane  
Concen: 11.153 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

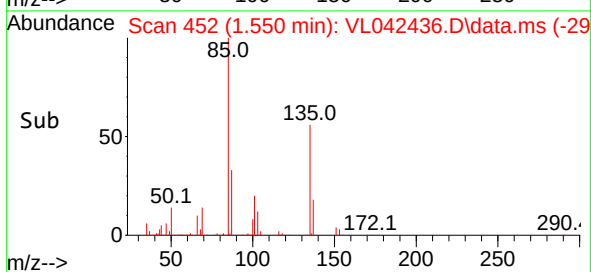
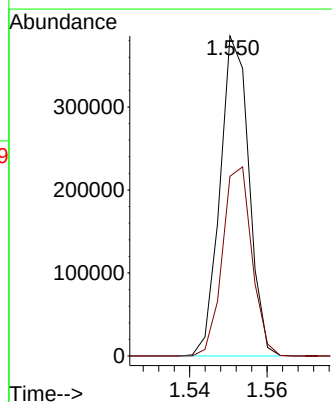
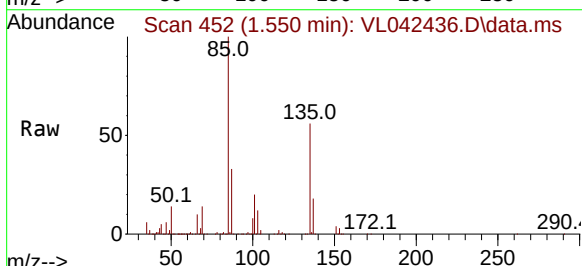
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

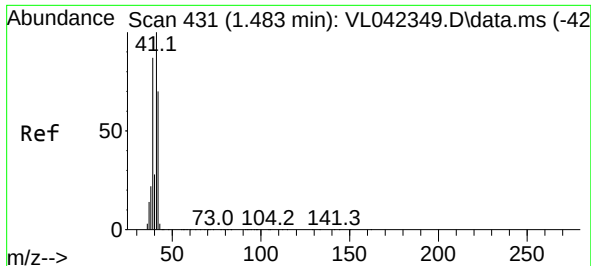
Tgt Ion: 64 Resp: 35167  
Ion Ratio Lower Upper  
64 100  
66 28.1 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 11.508 ppbv  
RT: 1.550 min Scan# 452  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 85 Resp: 199977  
Ion Ratio Lower Upper  
85 100  
135 60.1 52.2 78.2





#9

Propene

Concen: 7.883 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

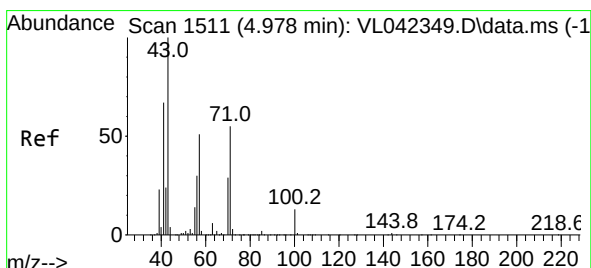
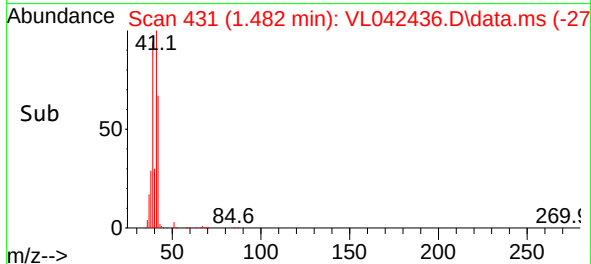
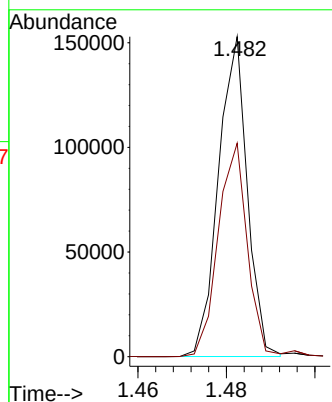
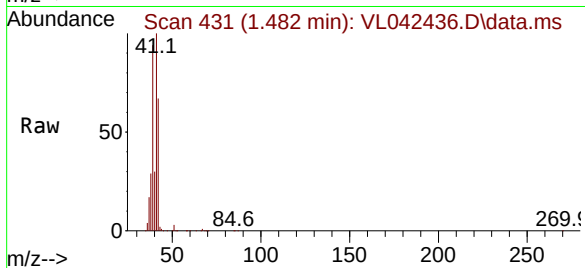
VSTDCCC010

Tgt Ion: 41 Resp: 69189

Ion Ratio Lower Upper

41 100

42 68.7 56.2 84.4



#10

Heptane

Concen: 7.492 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. -0.010 min

Lab File: VL042436.D

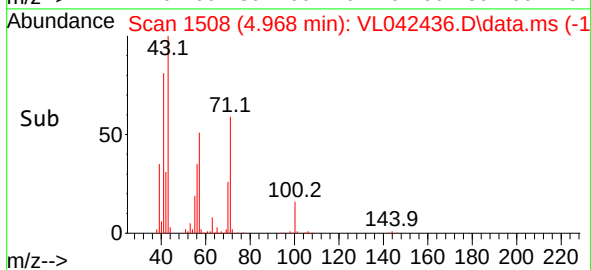
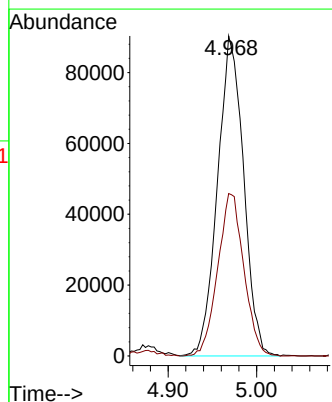
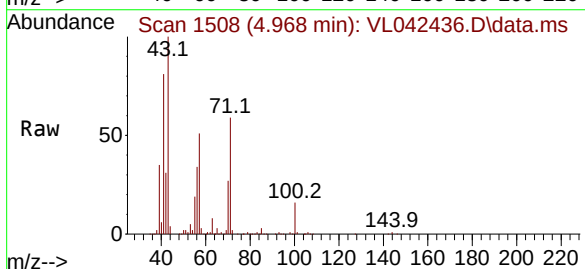
Acq: 29 Apr 2025 08:39

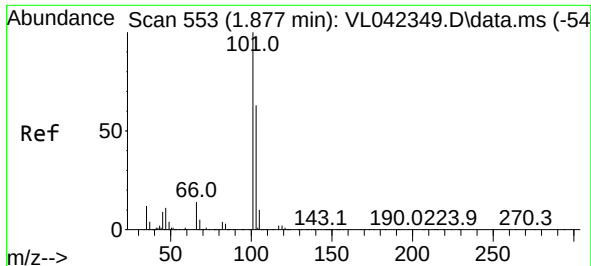
Tgt Ion: 43 Resp: 184737

Ion Ratio Lower Upper

43 100

57 50.9 39.9 59.9

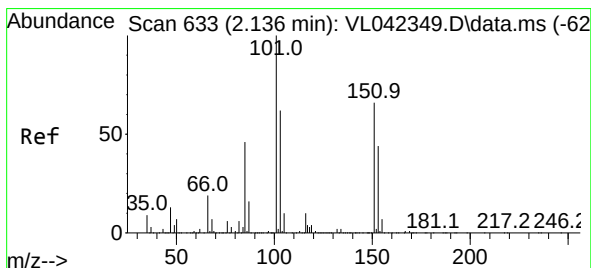
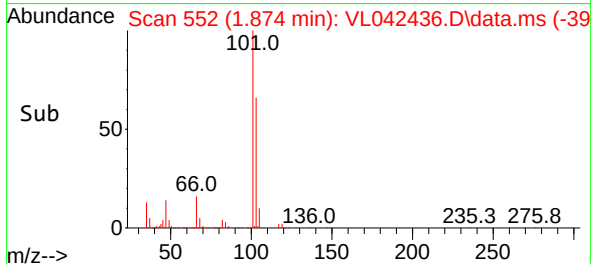
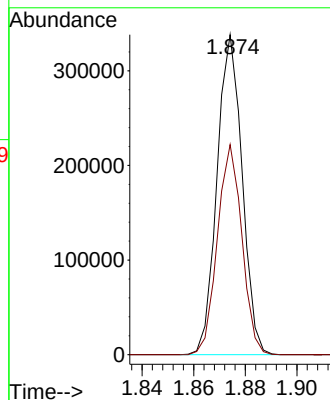
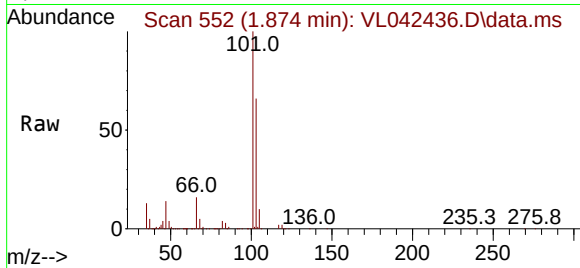




#11  
 Trichlorofluoromethane  
 Concen: 11.845 ppbv  
 RT: 1.874 min Scan# 511  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

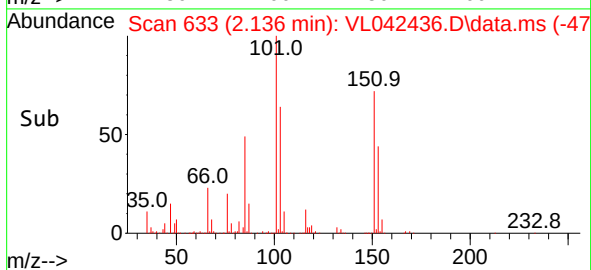
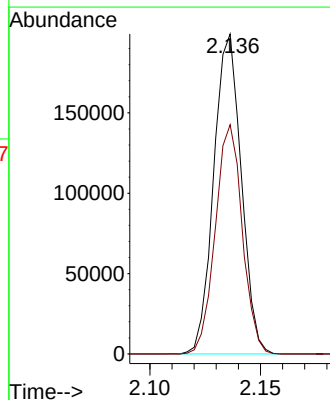
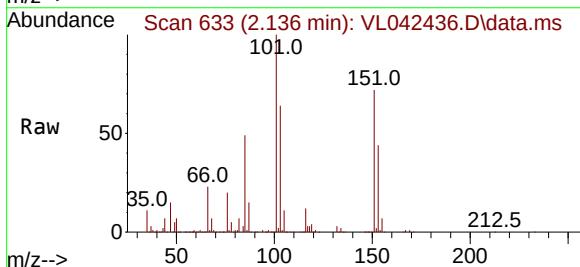
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

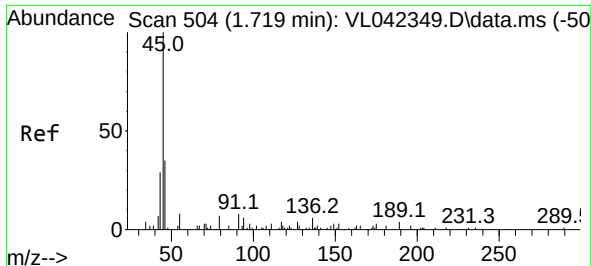
Tgt Ion:101 Resp: 227979  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 50.1 75.1



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.934 ppbv  
 RT: 2.136 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion:101 Resp: 172070  
 Ion Ratio Lower Upper  
 101 100  
 151 70.1 57.0 85.6





#13

Ethanol

Concen: 3.108 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_1

ClientSampleId :

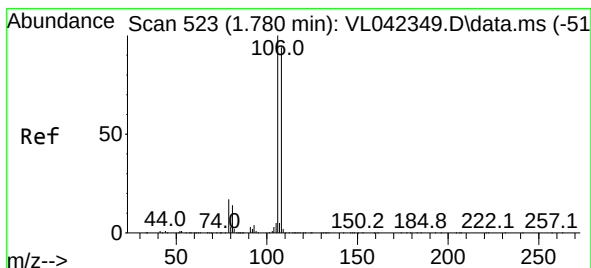
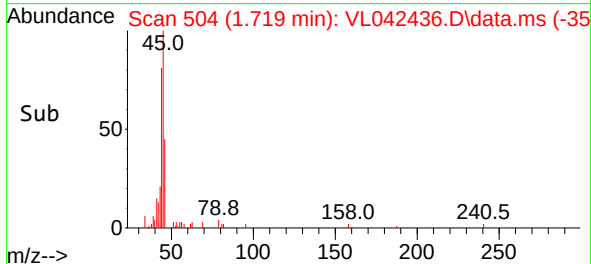
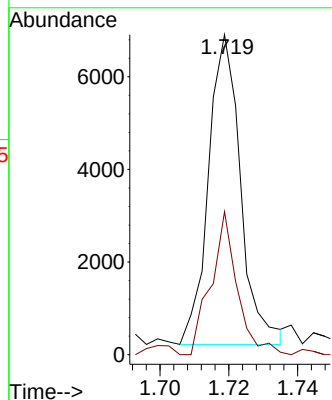
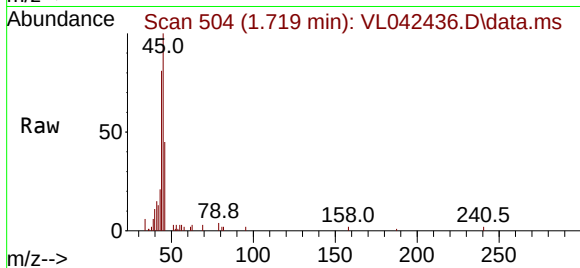
VSTDCCC010

Tgt Ion: 45 Resp: 4336

Ion Ratio Lower Upper

45 100

46 41.1 21.9 87.7



#14

Bromoethene

Concen: 10.721 ppbv

RT: 1.777 min Scan# 522

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

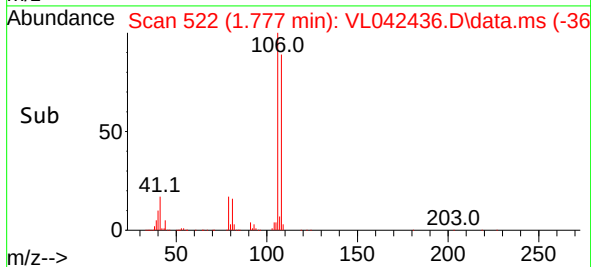
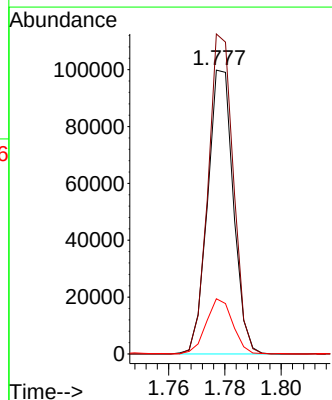
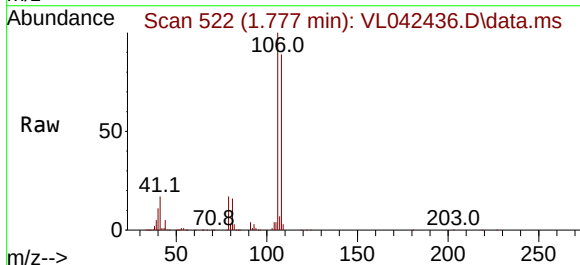
Tgt Ion: 108 Resp: 63597

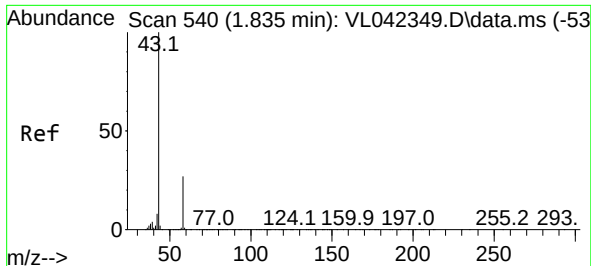
Ion Ratio Lower Upper

108 100

106 110.4 85.9 128.9

79 20.1 13.9 20.9

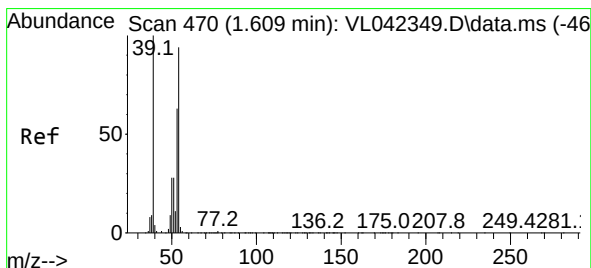
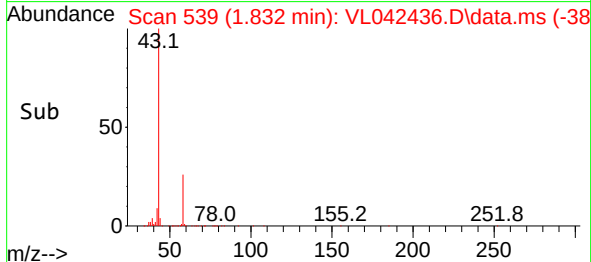
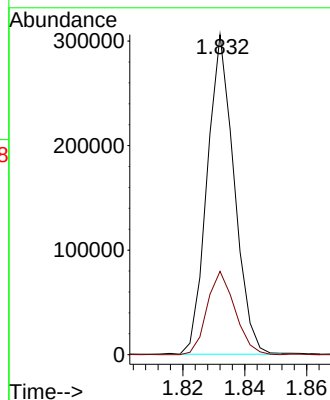
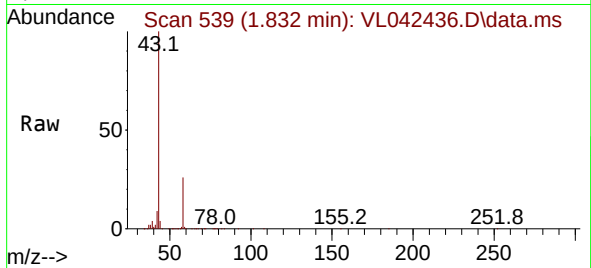




#15  
Acetone  
Concen: 9.859 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

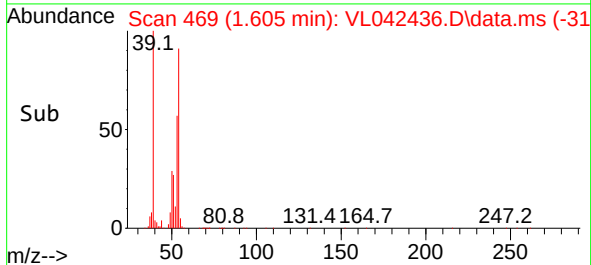
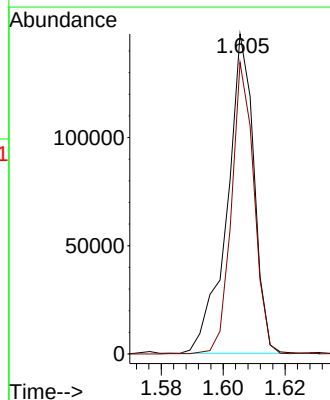
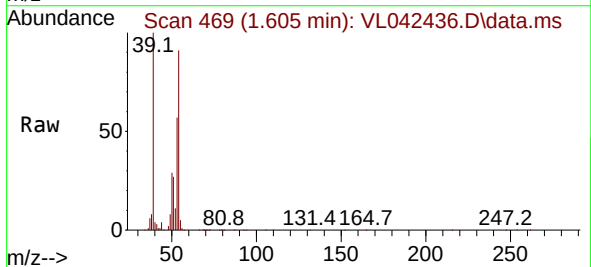
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

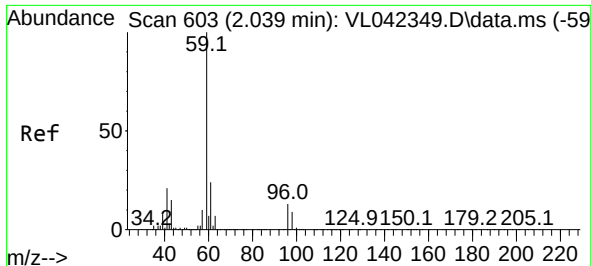
Tgt Ion: 43 Resp: 184887  
Ion Ratio Lower Upper  
43 100  
58 27.0 22.4 33.6



#16  
1,3-Butadiene  
Concen: 9.910 ppbv  
RT: 1.605 min Scan# 469  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 39 Resp: 88889  
Ion Ratio Lower Upper  
39 100  
54 76.7 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.881 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_1

ClientSampleId :

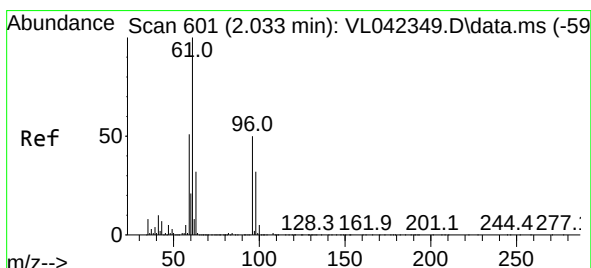
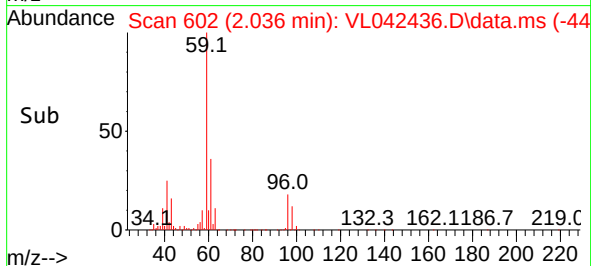
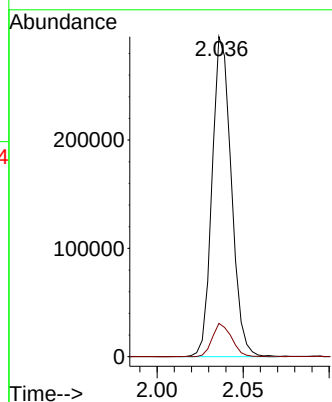
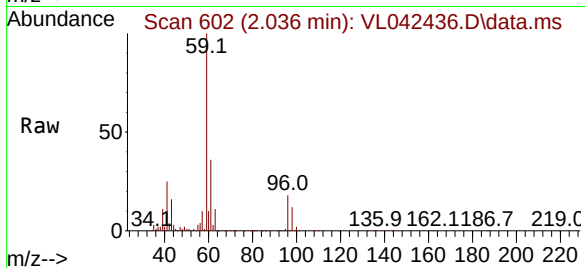
VSTDCCC010

Tgt Ion: 59 Resp: 229627

Ion Ratio Lower Upper

59 100

57 10.4 8.7 13.1



#18

1,1-Dichloroethene

Concen: 10.263 ppbv

RT: 2.029 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

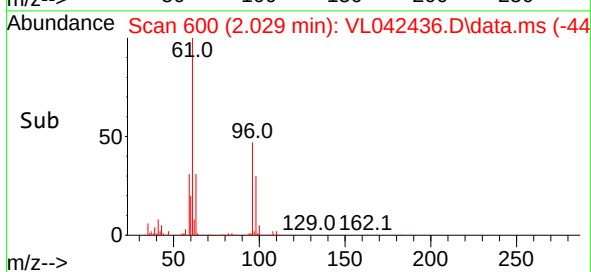
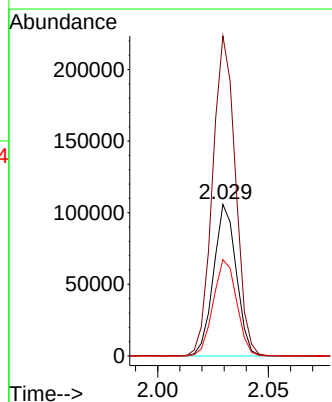
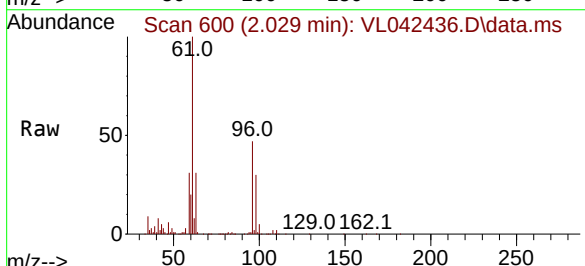
Tgt Ion: 96 Resp: 75451

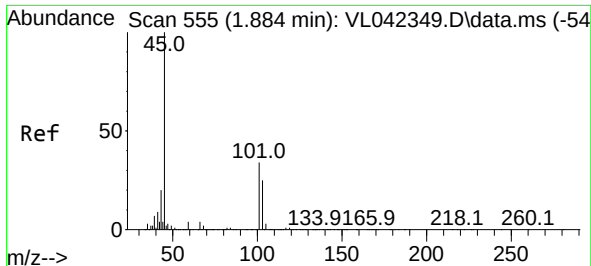
Ion Ratio Lower Upper

96 100

61 211.2 160.2 240.2

98 63.6 51.0 76.4

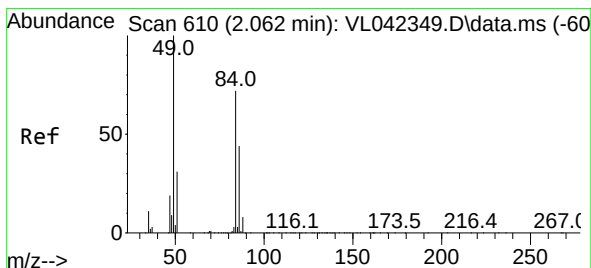
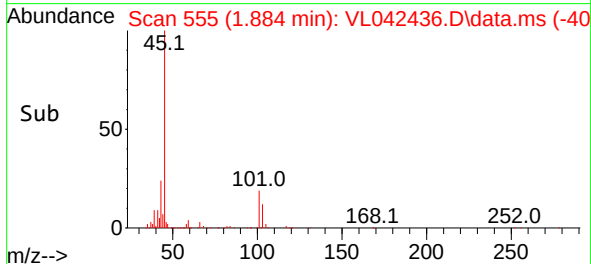
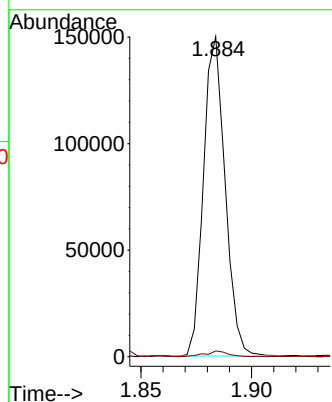
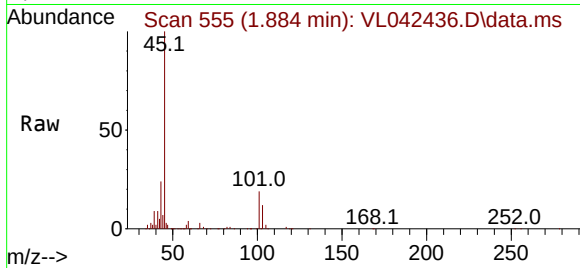




#19  
Isopropyl Alcohol  
Concen: 9.790 ppbv  
RT: 1.884 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

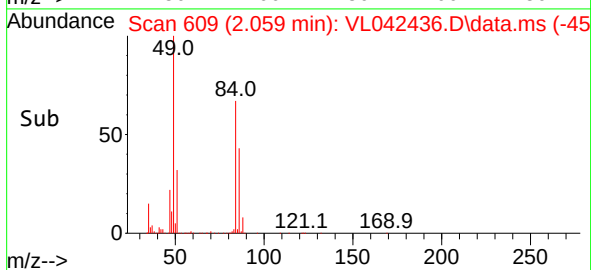
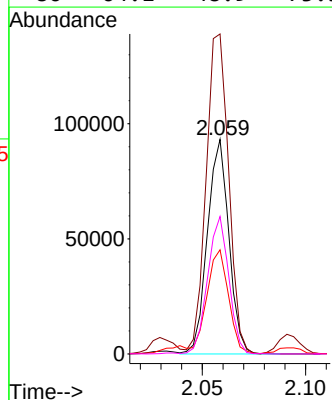
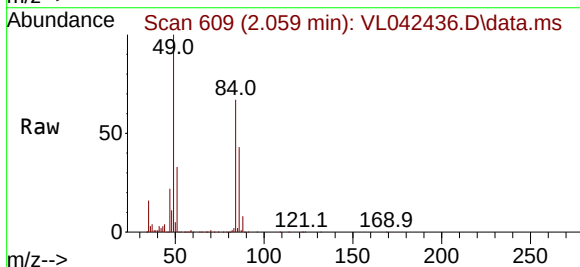
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 101987  
Ion Ratio Lower Upper  
45 100  
58 49.0 34.5 51.7

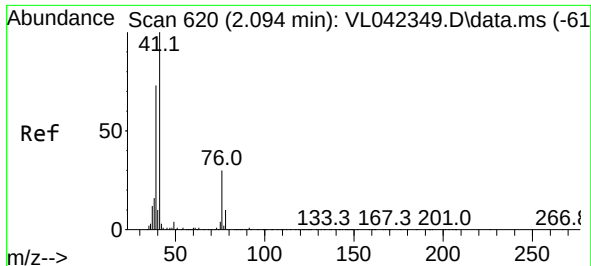


#20  
Methylene Chloride  
Concen: 9.161 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 84 Resp: 67278  
Ion Ratio Lower Upper  
84 100  
49 146.9 111.6 167.4  
51 45.9 35.1 52.7  
86 64.1 48.9 73.3



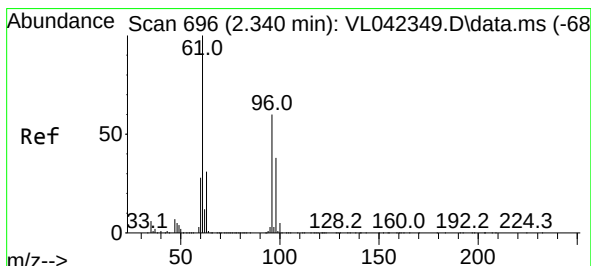
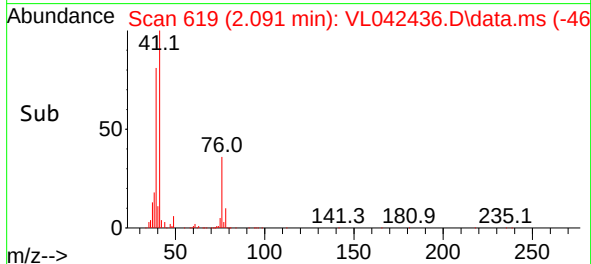
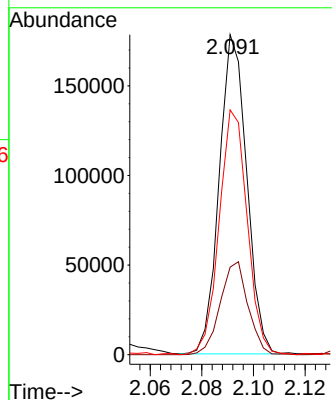
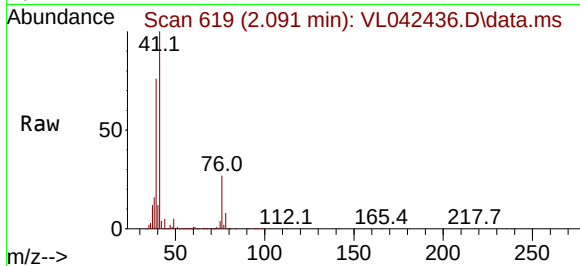




#21  
 Allyl Chloride  
 Concen: 10.184 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

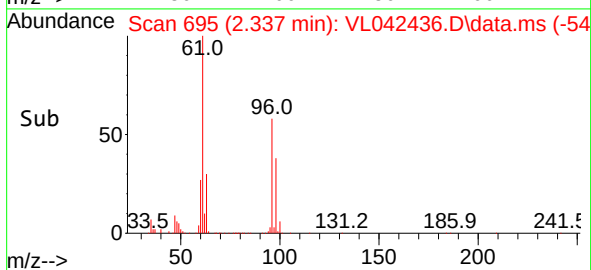
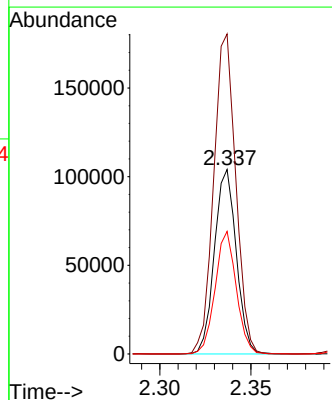
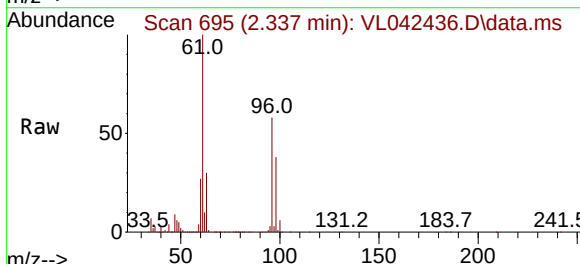
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

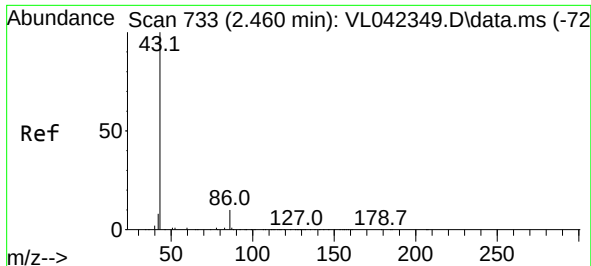
Tgt Ion: 41 Resp: 131864  
 Ion Ratio Lower Upper  
 41 100  
 76 29.4 24.8 37.2  
 39 77.4 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.343 ppbv  
 RT: 2.337 min Scan# 695  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 96 Resp: 86577  
 Ion Ratio Lower Upper  
 96 100  
 61 173.4 133.7 200.5  
 98 66.4 50.3 75.5



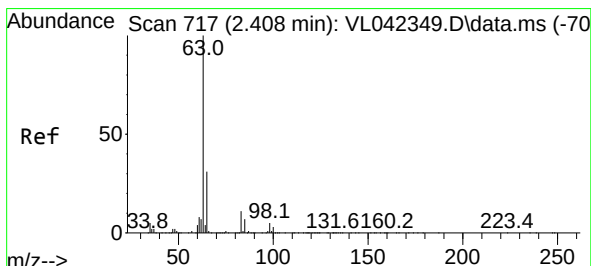
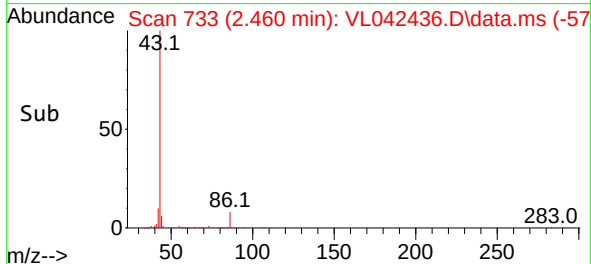
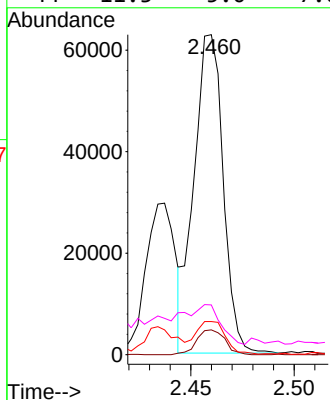
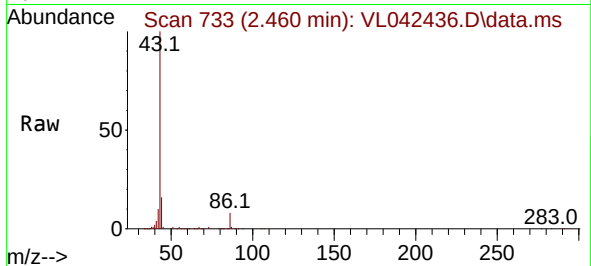


#23  
 Vinyl Acetate  
 Concen: 8.115 ppbv  
 RT: 2.460 min Scan# 716  
 Delta R.T. -0.000 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 43 Resp: 61601

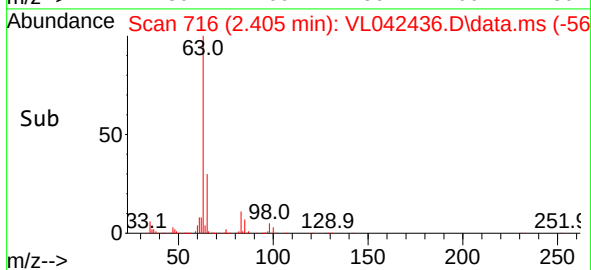
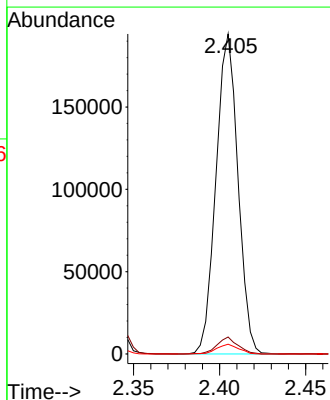
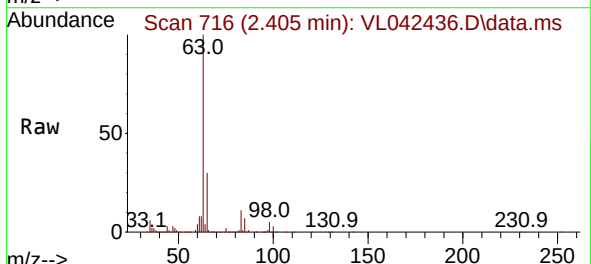
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.6   | 6.5   | 9.7   |
| 42  | 10.2  | 7.8   | 11.8  |
| 44  | 11.3  | 5.0   | 7.6   |

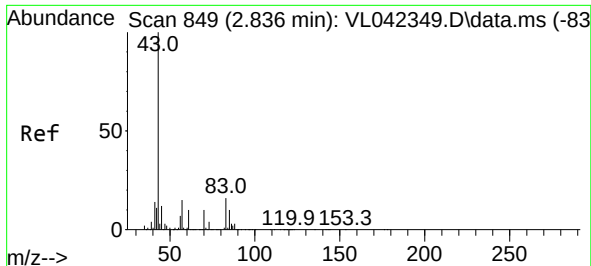


#24  
 1,1-Dichloroethane  
 Concen: 10.852 ppbv  
 RT: 2.405 min Scan# 716  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 63 Resp: 172555

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.3   | 2.3   | 6.8   |
| 100 | 3.0   | 1.6   | 4.8   |



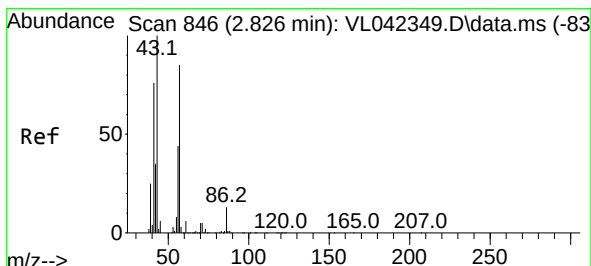
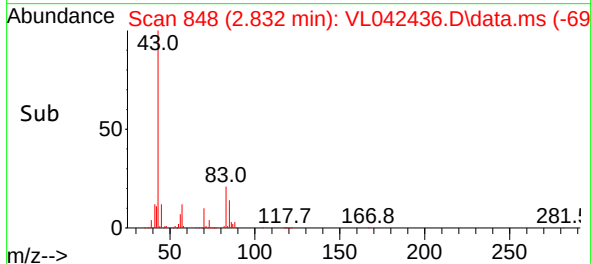
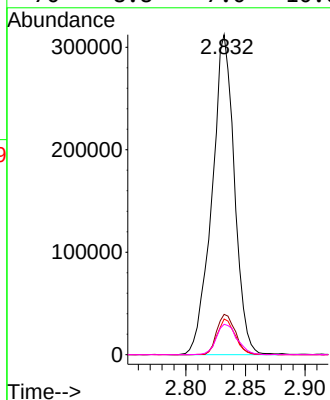
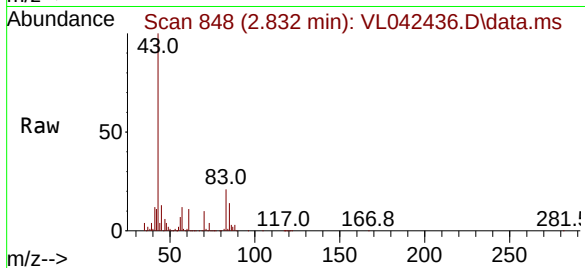


#25  
Ethyl Acetate  
Concen: 8.840 ppbv  
RT: 2.832 min Scan# 84  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 408744

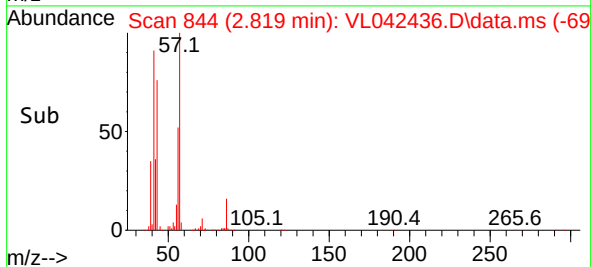
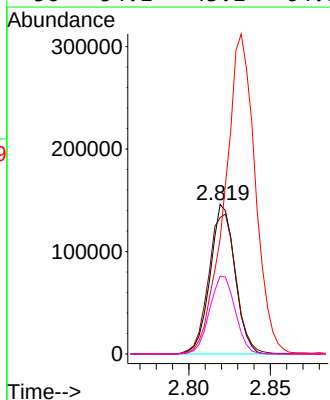
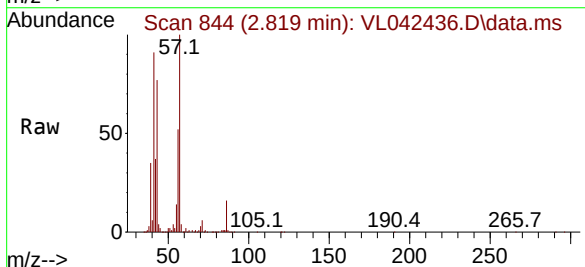
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.5  | 8.3   | 12.5  |
| 61  | 8.9   | 7.3   | 10.9  |
| 70  | 8.8   | 7.0   | 10.6  |

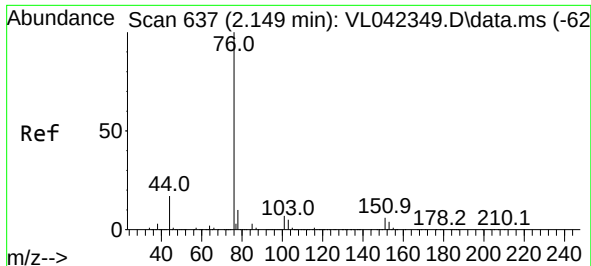


#26  
Hexane  
Concen: 8.220 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 153801

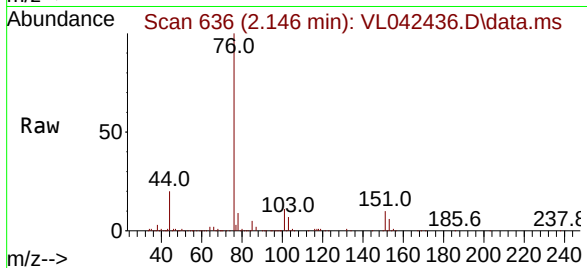
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 104.3 | 77.9  | 116.9 |
| 43  | 266.3 | 208.4 | 312.6 |
| 56  | 54.1  | 43.1  | 64.7  |



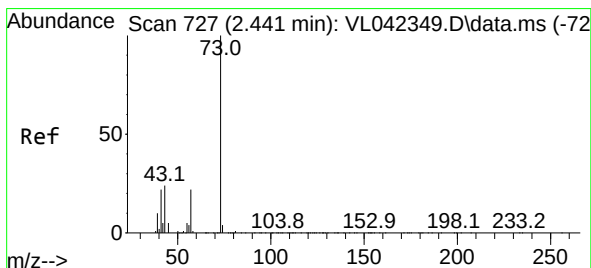
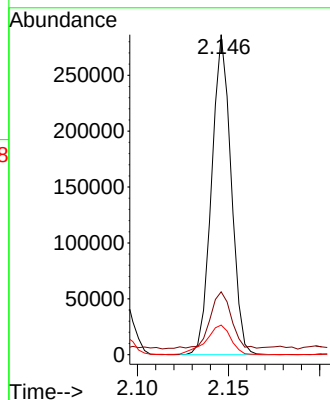
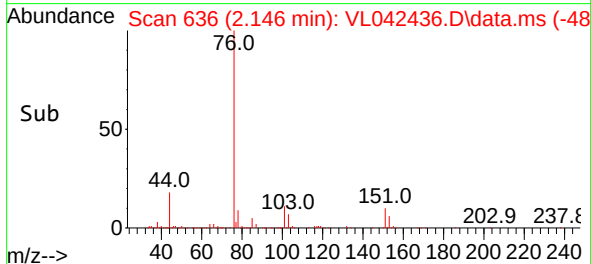


#27  
Carbon Disulfide  
Concen: 10.622 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

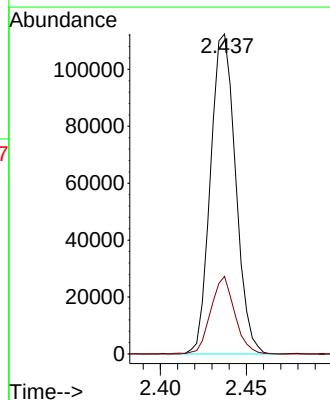
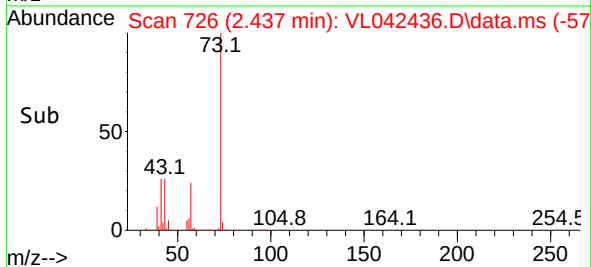
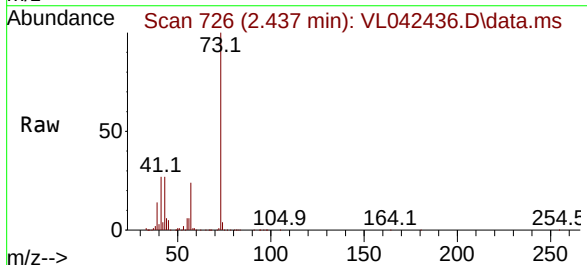


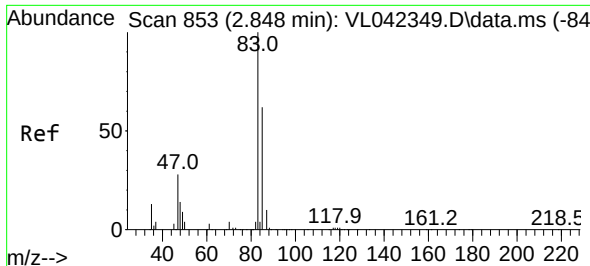
Tgt Ion: 76 Resp: 212793  
Ion Ratio Lower Upper  
76 100  
44 18.9 15.5 23.3  
78 11.9 9.3 13.9



#28  
Methyl tert-Butyl Ether  
Concen: 9.308 ppbv  
RT: 2.437 min Scan# 726  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 73 Resp: 114108  
Ion Ratio Lower Upper  
73 100  
57 23.1 21.3 31.9





#29

Chloroform

Concen: 11.002 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

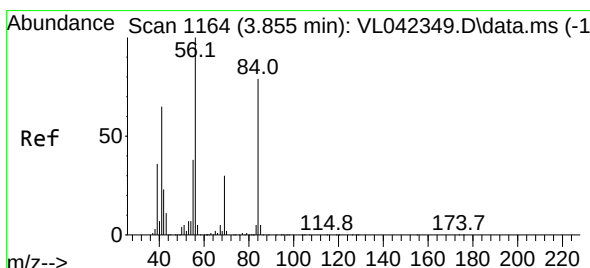
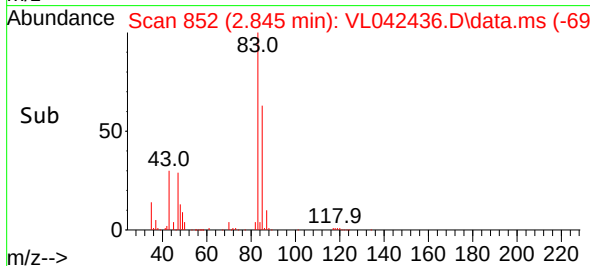
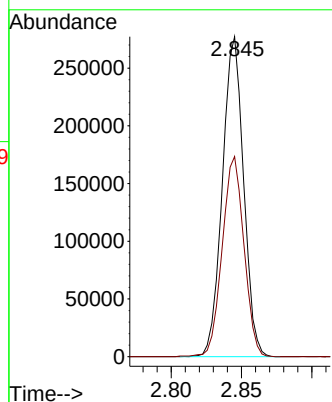
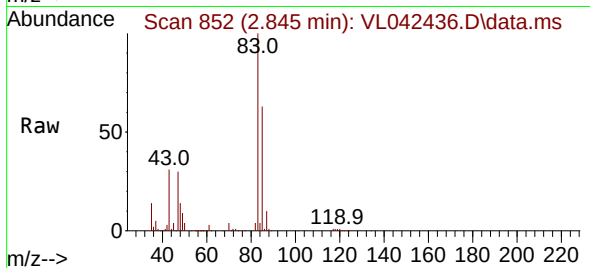
VSTDCCC010

Tgt Ion: 83 Resp: 290965

Ion Ratio Lower Upper

83 100

85 62.6 50.0 75.0



#30

Cyclohexane

Concen: 8.635 ppbv

RT: 3.848 min Scan# 1162

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

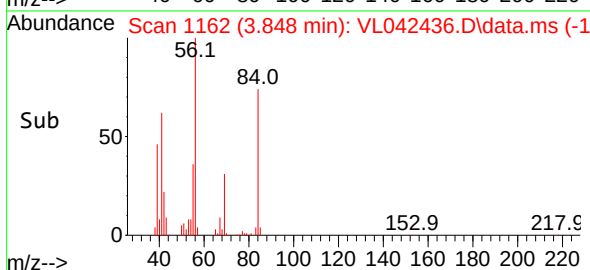
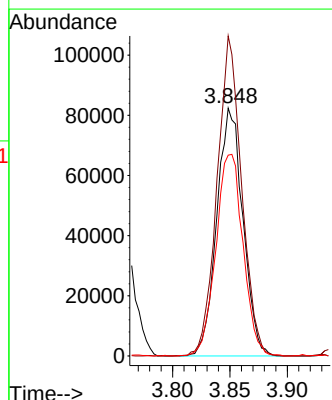
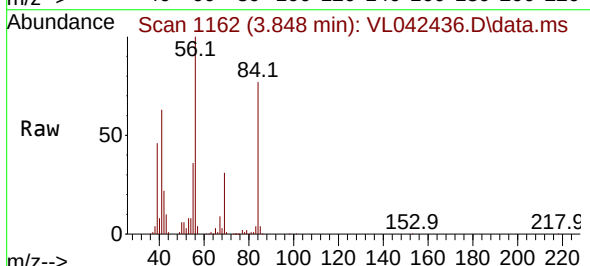
Tgt Ion: 84 Resp: 130608

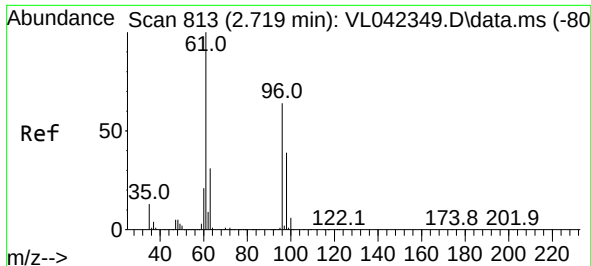
Ion Ratio Lower Upper

84 100

56 121.2 101.0 151.4

41 84.8 67.4 101.0

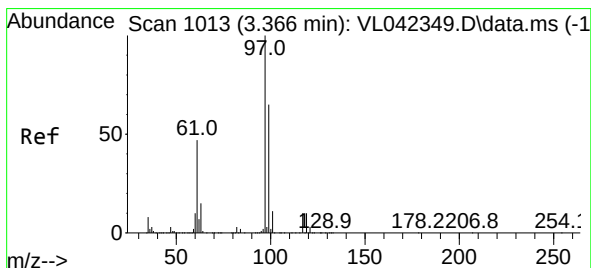
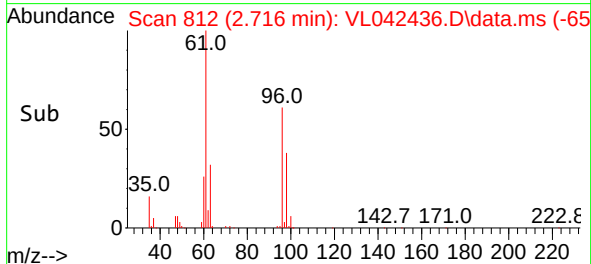
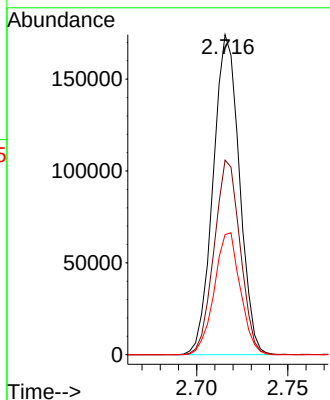
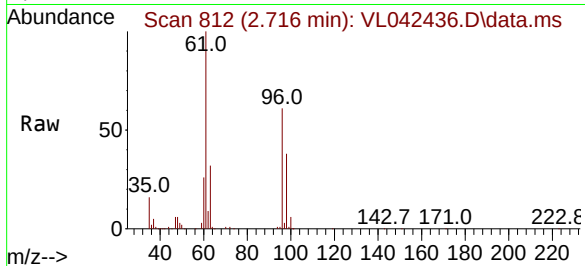




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.818 ppbv  
 RT: 2.716 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

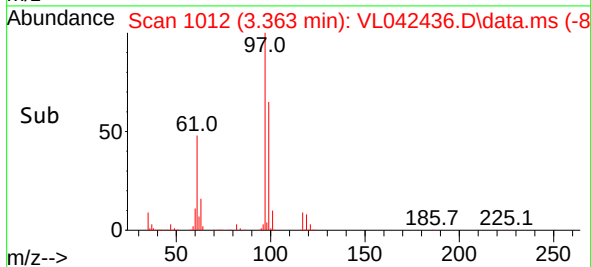
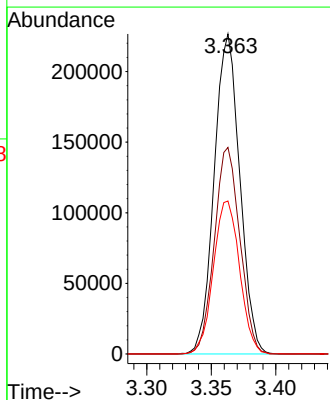
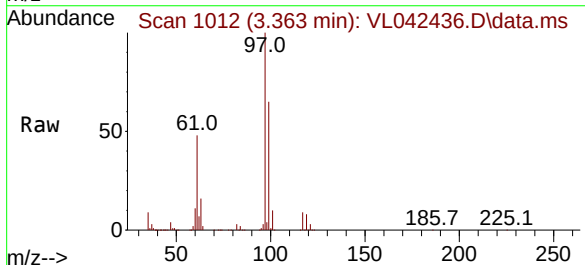
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

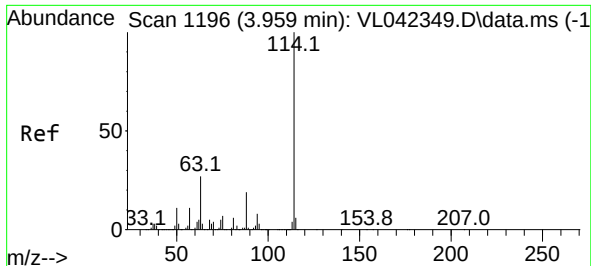
Tgt Ion: 61 Resp: 174659  
 Ion Ratio Lower Upper  
 61 100  
 96 60.8 50.8 76.2  
 98 37.6 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 10.493 ppbv  
 RT: 3.363 min Scan# 1012  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 97 Resp: 312430  
 Ion Ratio Lower Upper  
 97 100  
 99 64.5 51.0 76.4  
 61 49.1 38.8 58.2

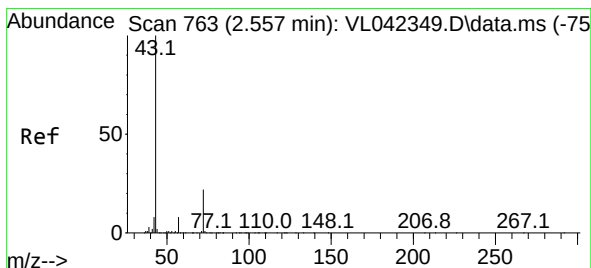
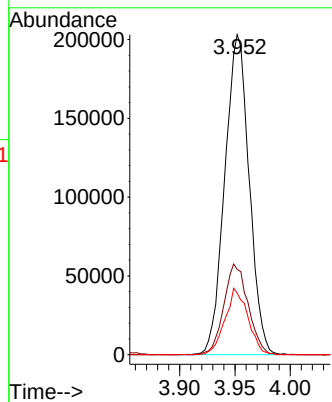
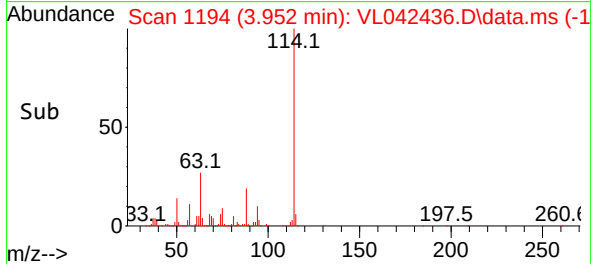
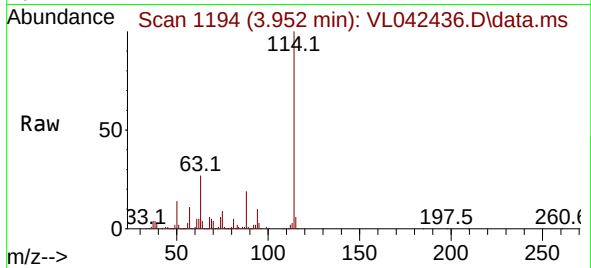




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.952 min Scan# 1194  
 Delta R.T. -0.007 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

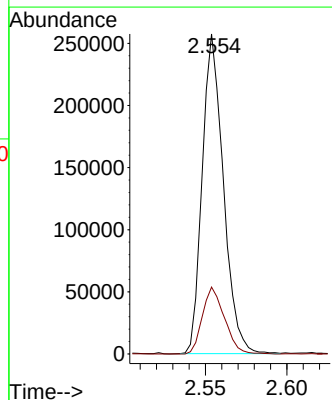
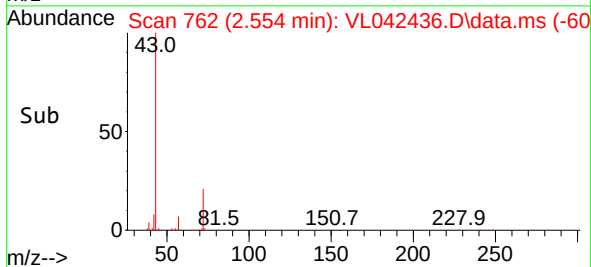
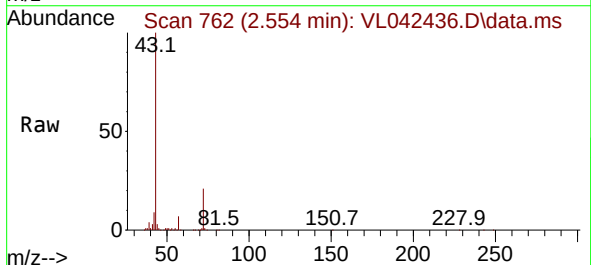
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

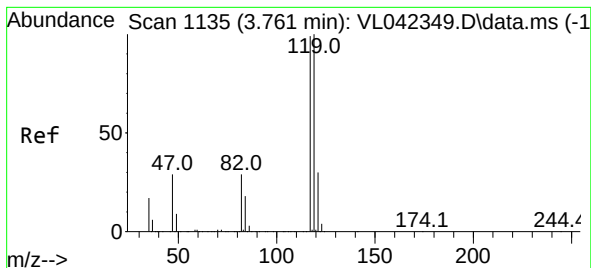
Tgt Ion:114 Resp: 311268  
 Ion Ratio Lower Upper  
 114 100  
 63 28.3 21.8 32.6  
 88 19.5 15.5 23.3



#34  
 2-Butanone  
 Concen: 9.426 ppbv  
 RT: 2.554 min Scan# 762  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 43 Resp: 232034  
 Ion Ratio Lower Upper  
 43 100  
 72 21.8 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.242 ppbv

RT: 3.755 min Scan# 1133

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

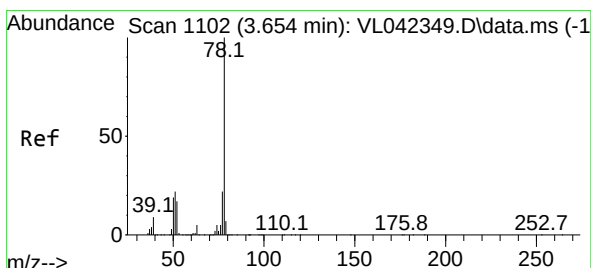
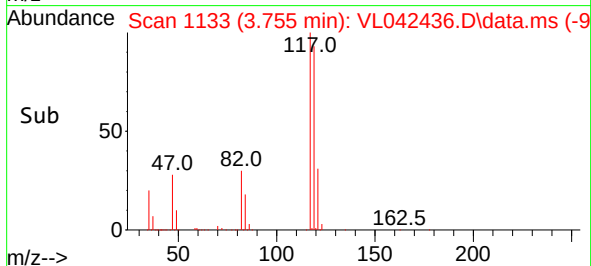
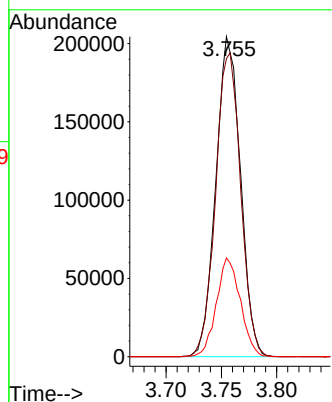
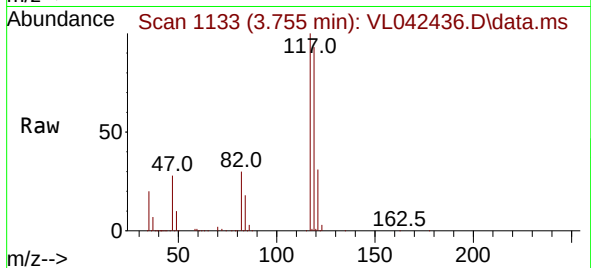
Tgt Ion:117 Resp: 316689

Ion Ratio Lower Upper

117 100

119 93.1 80.5 120.7

121 30.9 24.2 36.2



#36

Benzene

Concen: 9.367 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

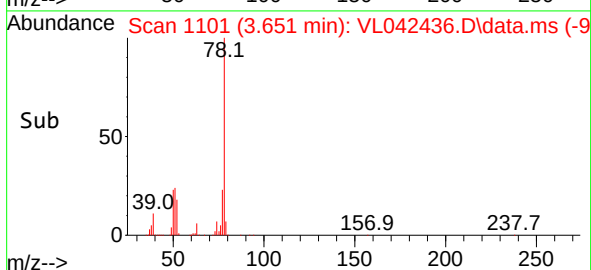
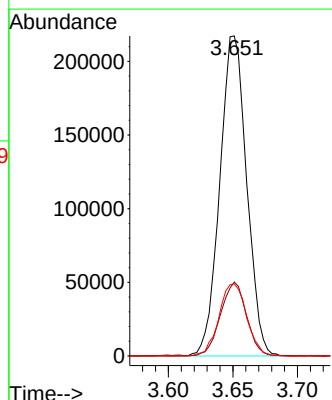
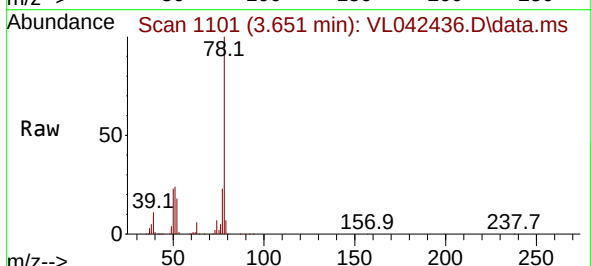
Tgt Ion: 78 Resp: 314493

Ion Ratio Lower Upper

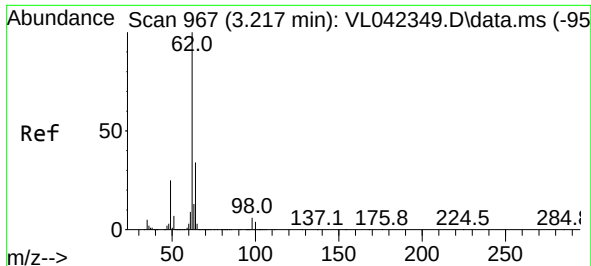
78 100

77 23.1 17.4 26.0

50 22.6 15.5 23.3







#37

1,2-Dichloroethane

Concen: 12.134 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

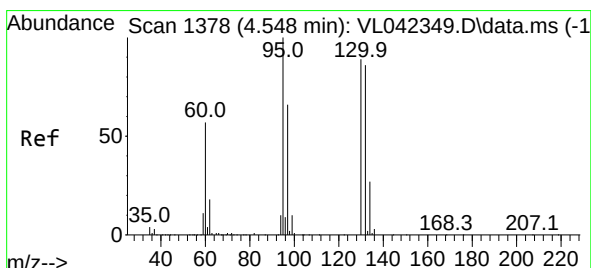
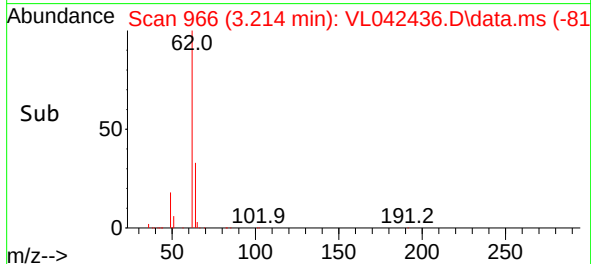
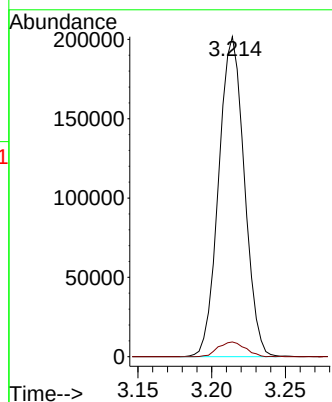
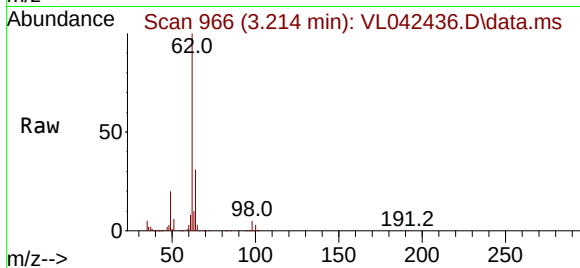
VSTDCCC010

Tgt Ion: 62 Resp: 244516

Ion Ratio Lower Upper

62 100

98 4.9 5.1 7.7#



#38

Trichloroethene

Concen: 8.450 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion:130 Resp: 123997

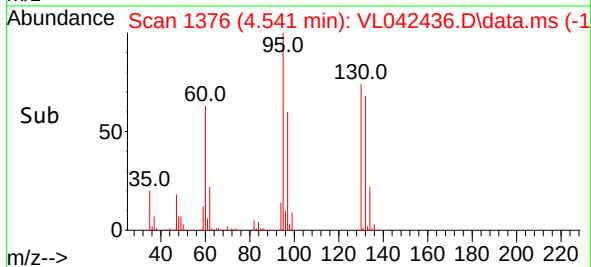
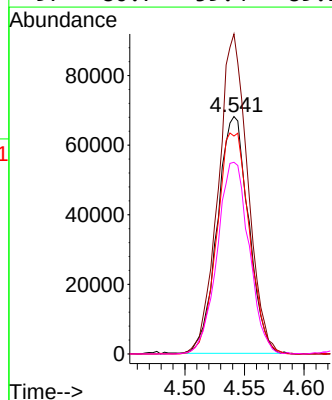
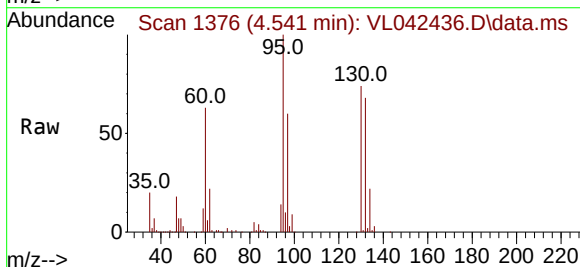
Ion Ratio Lower Upper

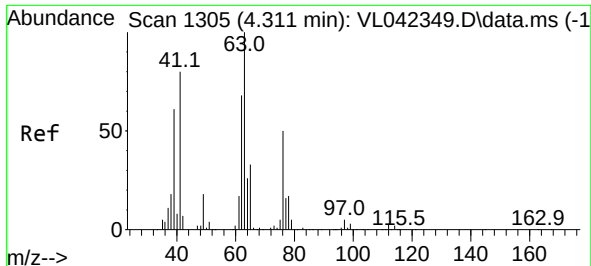
130 100

95 134.8 89.8 134.6#

132 92.0 77.7 116.5

97 80.7 59.4 89.2





#39

1,2-Dichloropropane

Concen: 8.817 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

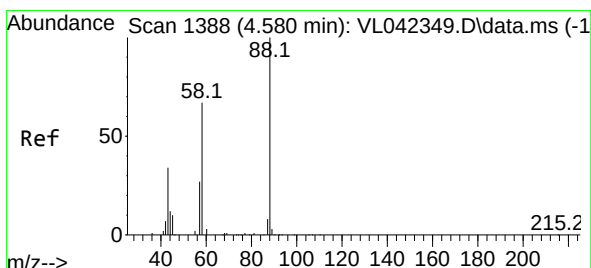
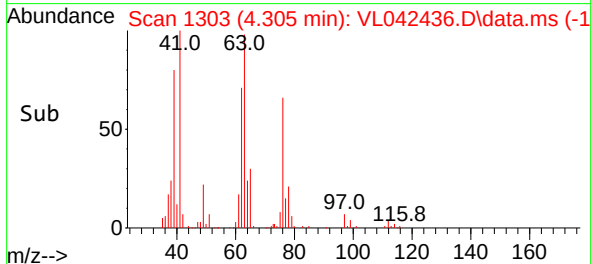
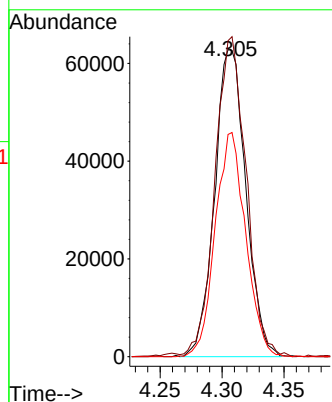
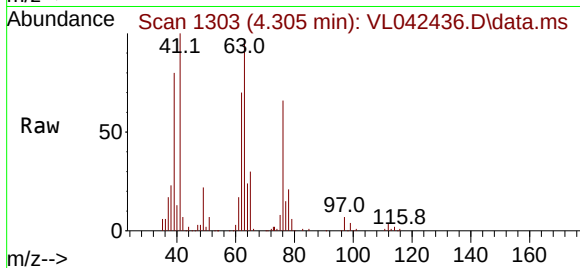
Tgt Ion: 63 Resp: 110315

Ion Ratio Lower Upper

63 100

41 102.2 64.2 96.2#

62 72.1 54.3 81.5



#40

1,4-Dioxane

Concen: 7.907 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion: 88 Resp: 54364

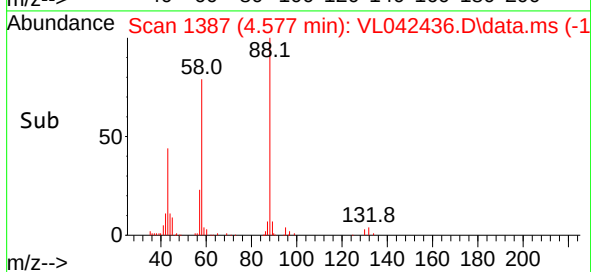
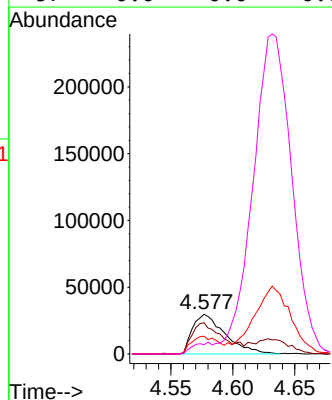
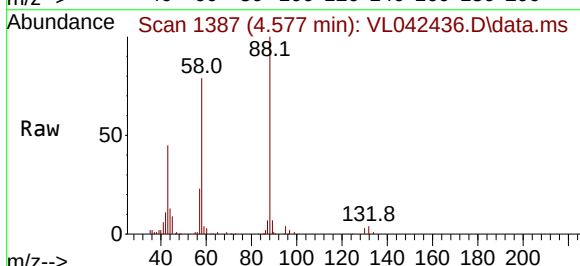
Ion Ratio Lower Upper

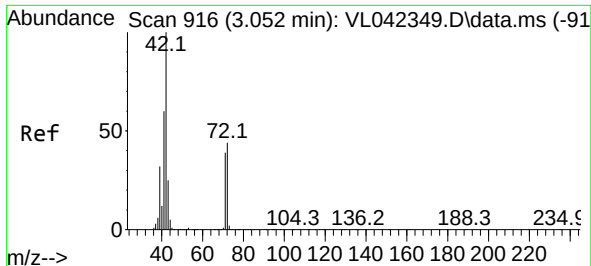
88 100

58 81.3 61.4 92.0

43 40.1 23.2 34.8#

57 0.0 0.0 0.0

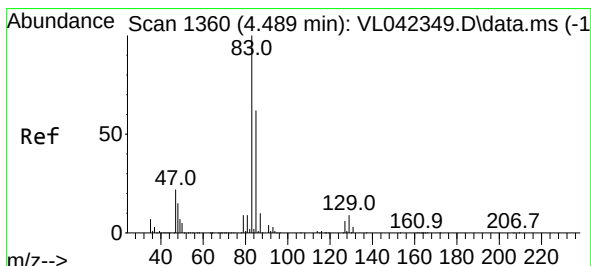
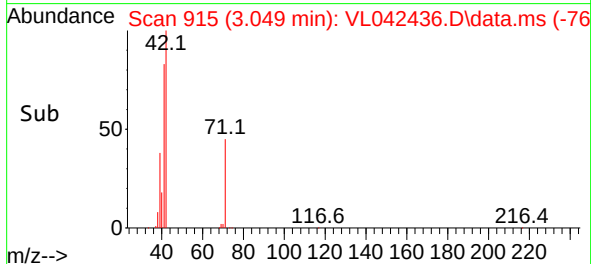
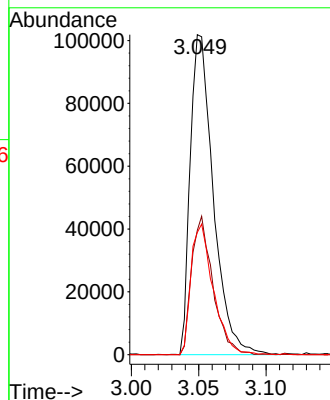
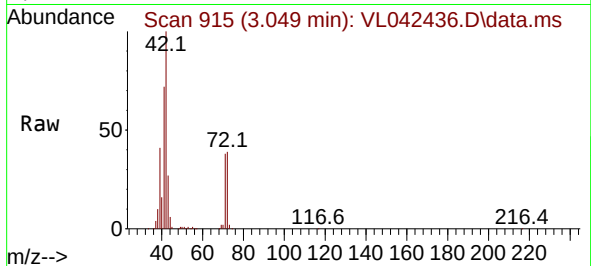




#41  
Tetrahydrofuran  
Concen: 8.479 ppbv  
RT: 3.049 min Scan# 916  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

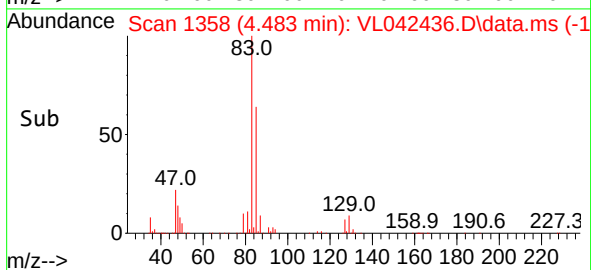
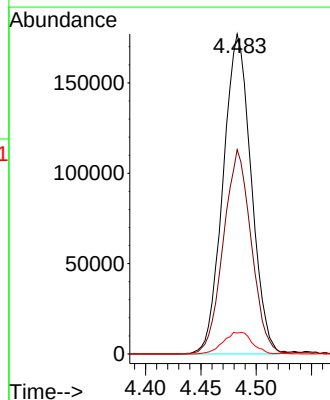
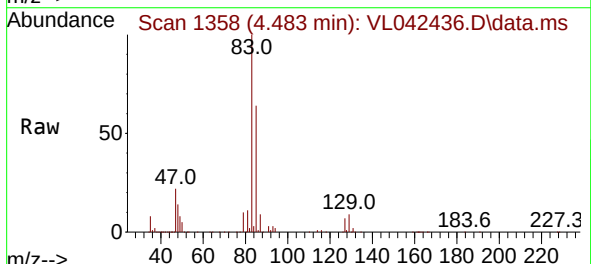
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

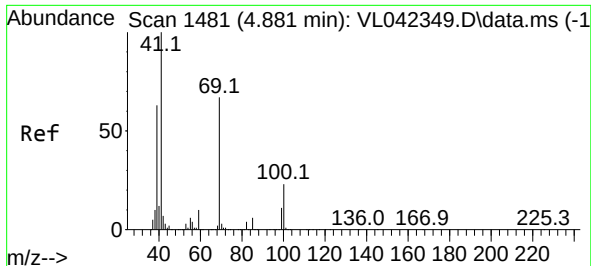
Tgt Ion: 42 Resp: 121700  
Ion Ratio Lower Upper  
42 100  
72 40.2 32.3 48.5  
71 39.5 31.4 47.2



#42  
Bromodichloromethane  
Concen: 11.127 ppbv  
RT: 4.483 min Scan# 1358  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 83 Resp: 312029  
Ion Ratio Lower Upper  
83 100  
85 63.8 49.7 74.5  
127 6.6 5.1 7.7

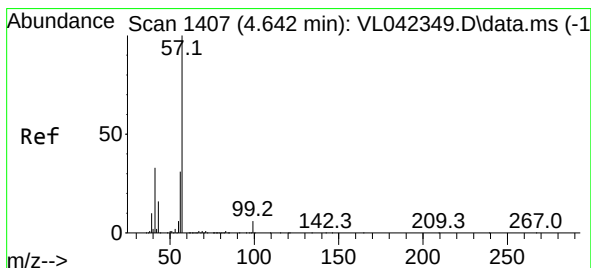
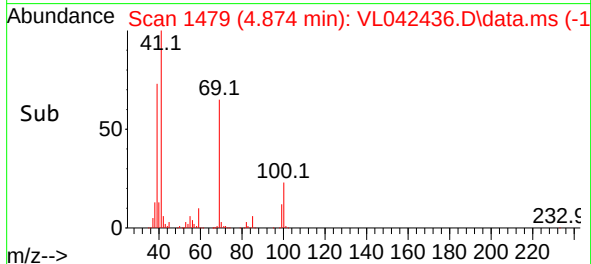
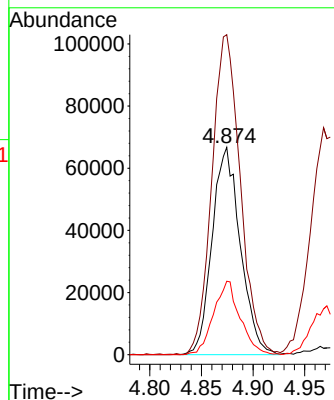
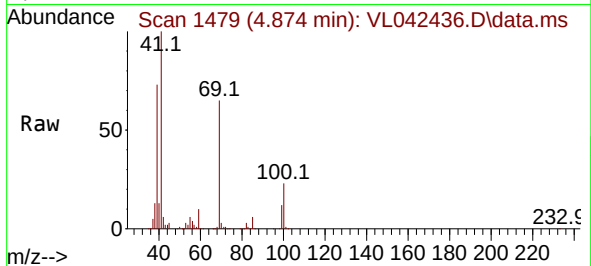




#43  
Methyl Methacrylate  
Concen: 8.367 ppbv  
RT: 4.874 min Scan# 1479  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

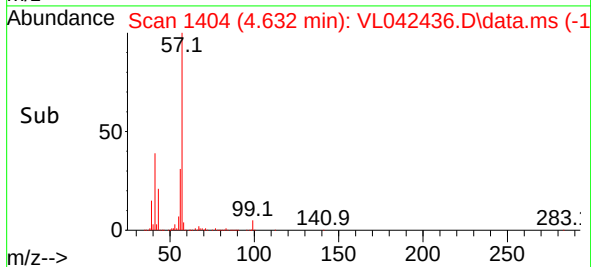
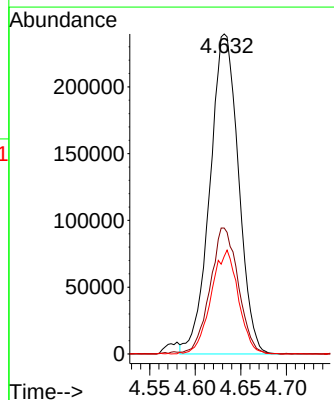
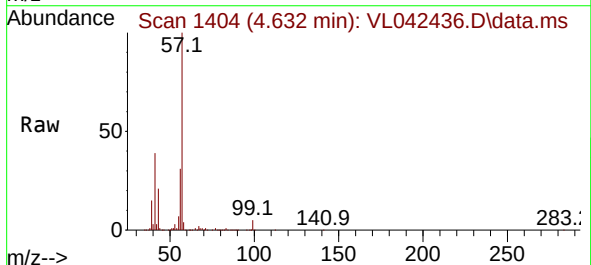
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

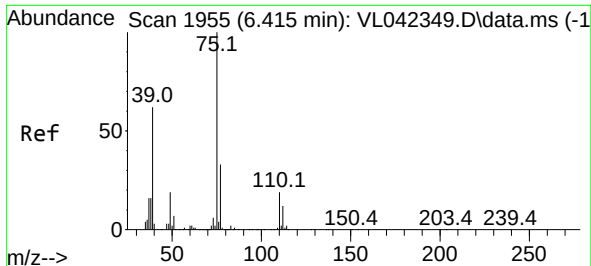
Tgt Ion: 69 Resp: 126594  
Ion Ratio Lower Upper  
69 100  
41 156.3 118.6 177.8  
100 33.3 28.2 42.2



#44  
2,2,4-Trimethylpentane  
Concen: 9.010 ppbv  
RT: 4.632 min Scan# 1404  
Delta R.T. -0.010 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 57 Resp: 522427  
Ion Ratio Lower Upper  
57 100  
41 39.2 27.2 40.8  
56 31.1 25.7 38.5

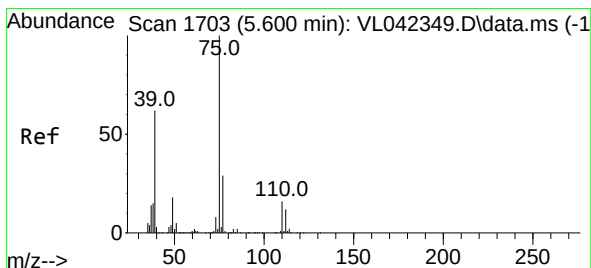
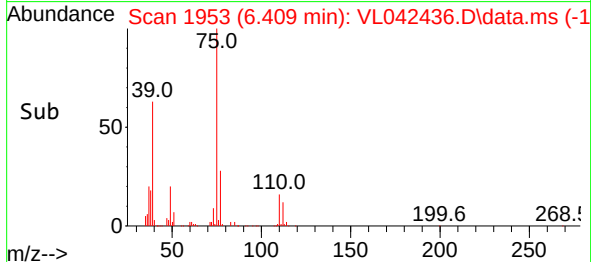
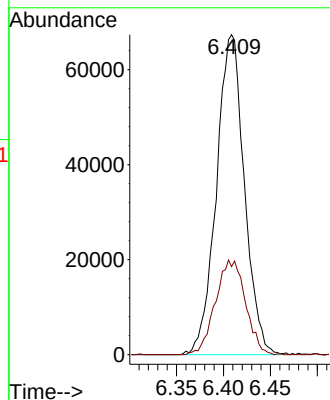
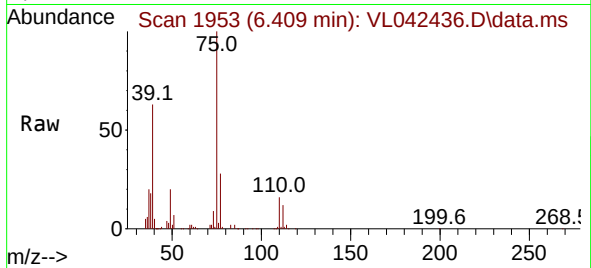




#45  
 t-1,3-Dichloropropene  
 Concen: 9.026 ppbv  
 RT: 6.409 min Scan# 1699  
 Delta R.T. -0.007 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

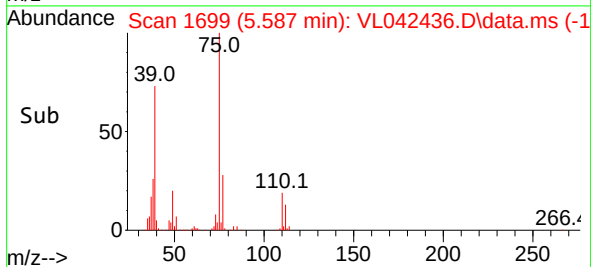
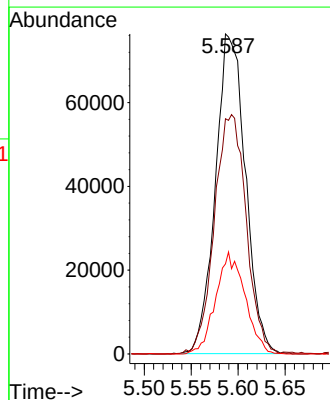
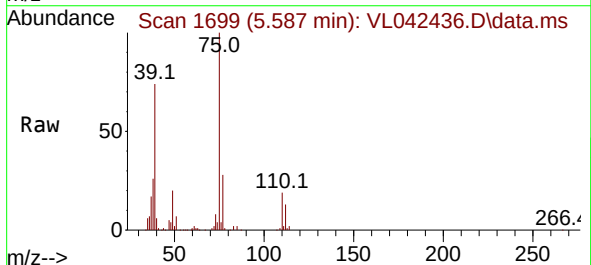
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

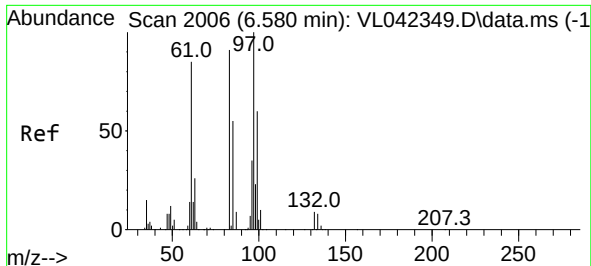
Tgt Ion: 75 Resp: 139508  
 Ion Ratio Lower Upper  
 75 100  
 77 27.5 27.0 40.6



#46  
 cis-1,3-Dichloropropene  
 Concen: 8.953 ppbv  
 RT: 5.587 min Scan# 1699  
 Delta R.T. -0.013 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 75 Resp: 169355  
 Ion Ratio Lower Upper  
 75 100  
 39 73.4 50.0 75.0  
 77 28.2 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 6.778 ppbv

RT: 6.570 min Scan# 2006

Delta R.T. -0.010 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 86392

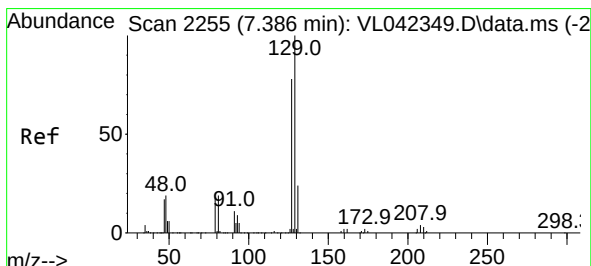
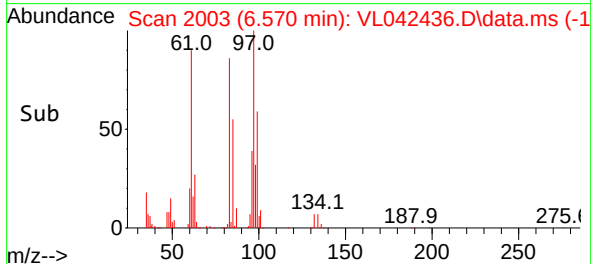
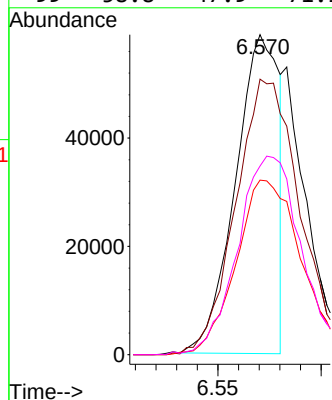
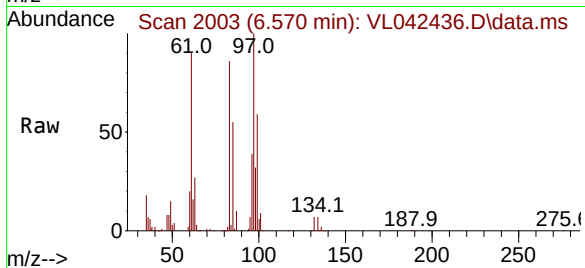
Ion Ratio Lower Upper

97 100

83 86.3 72.8 109.2

85 54.1 44.2 66.4

99 58.8 47.9 71.9



#48

Dibromochloromethane

Concen: 10.339 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.007 min

Lab File: VL042436.D

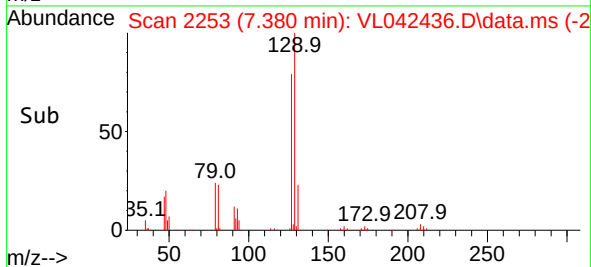
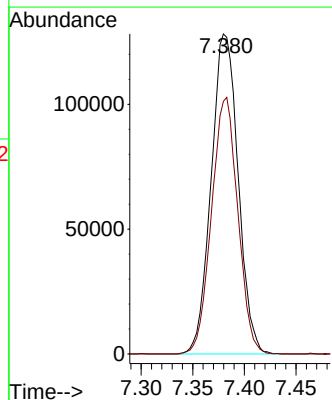
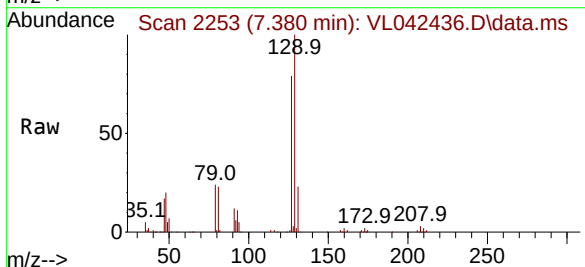
Acq: 29 Apr 2025 08:39

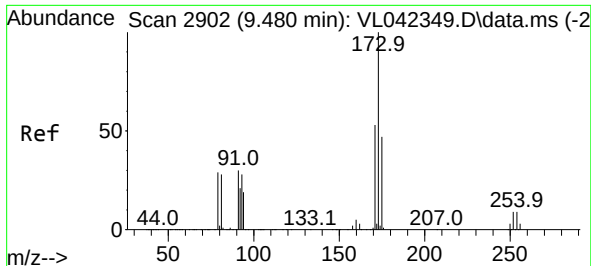
Tgt Ion: 129 Resp: 232818

Ion Ratio Lower Upper

129 100

127 78.1 39.1 117.3





#49

Bromoform

Concen: 9.593 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

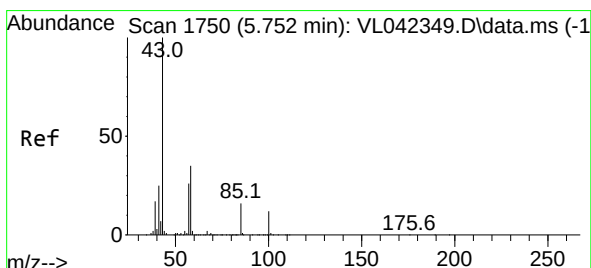
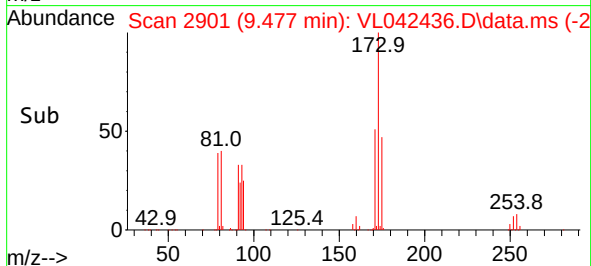
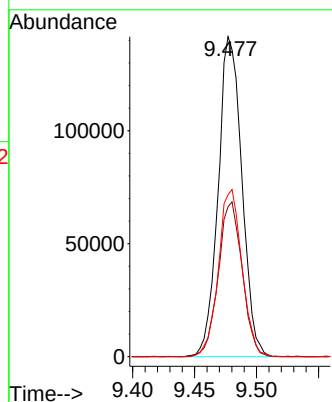
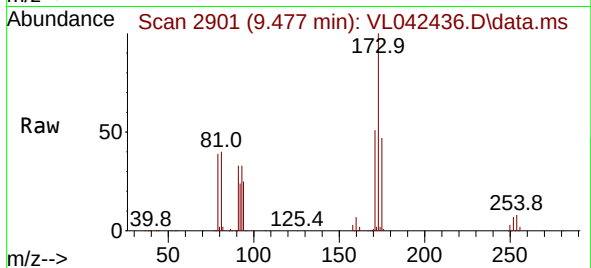
Tgt Ion:173 Resp: 188896

Ion Ratio Lower Upper

173 100

175 48.7 38.2 57.2

171 52.0 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 7.965 ppbv

RT: 5.742 min Scan# 1747

Delta R.T. -0.010 min

Lab File: VL042436.D

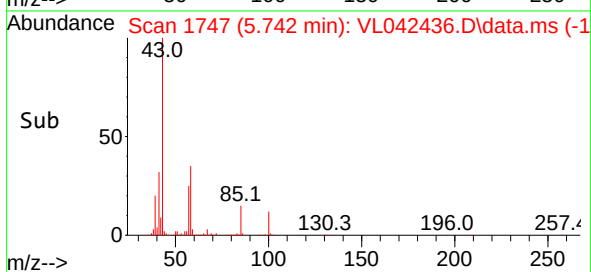
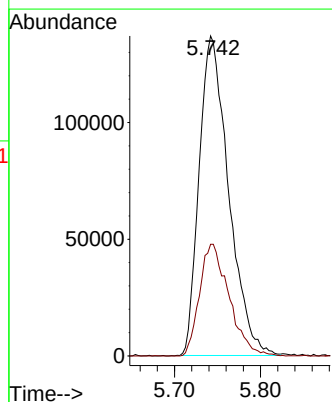
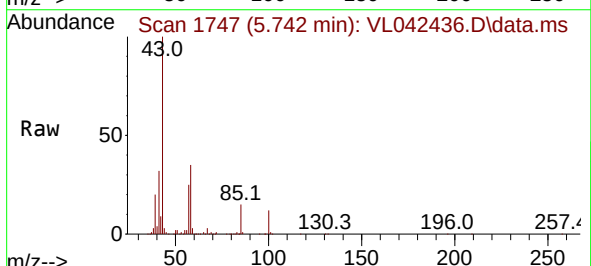
Acq: 29 Apr 2025 08:39

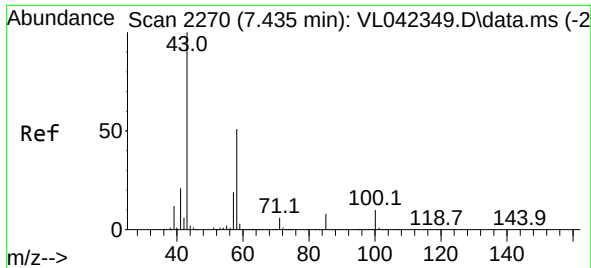
Tgt Ion: 43 Resp: 325855

Ion Ratio Lower Upper

43 100

58 35.1 28.6 43.0

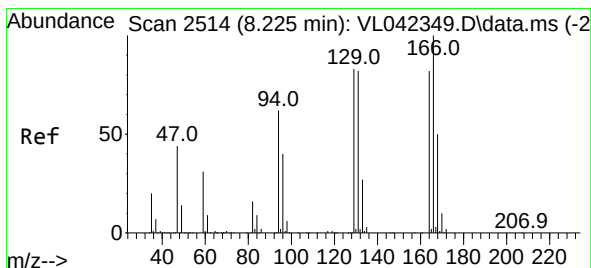
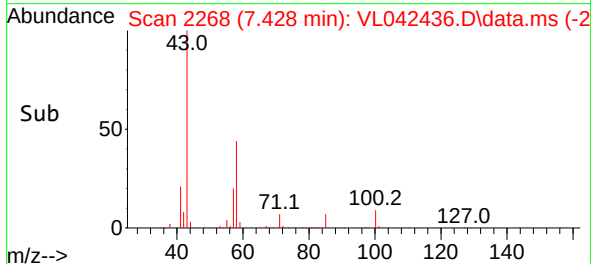
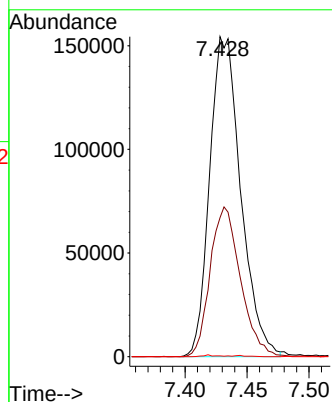
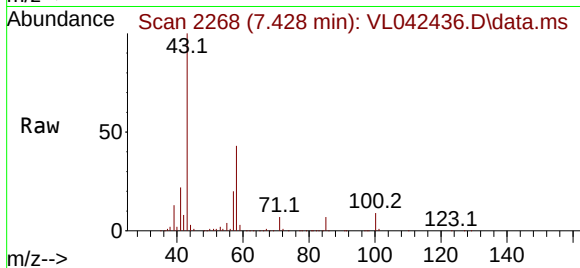




#51  
2-Hexanone  
Concen: 7.357 ppbv  
RT: 7.428 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

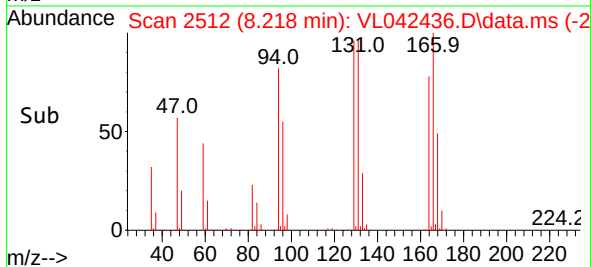
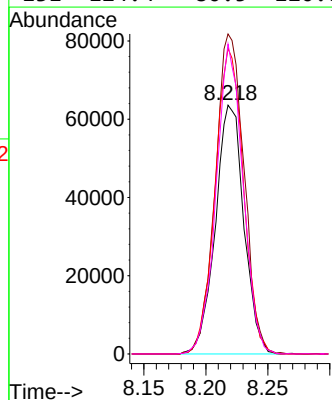
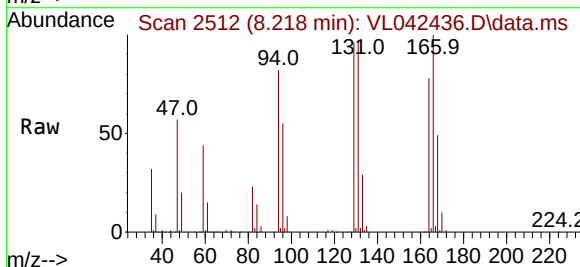
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 269915  
Ion Ratio Lower Upper  
43 100  
58 45.8 40.2 60.4  
98 0.4 0.1 0.1#

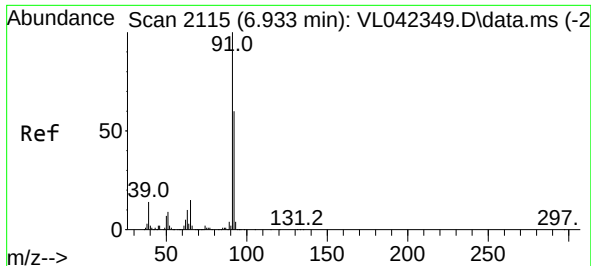


#52  
Tetrachloroethene  
Concen: 7.833 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 164 Resp: 101642  
Ion Ratio Lower Upper  
164 100  
166 128.6 98.2 147.2  
129 122.8 81.8 122.8#  
131 124.4 80.5 120.7#



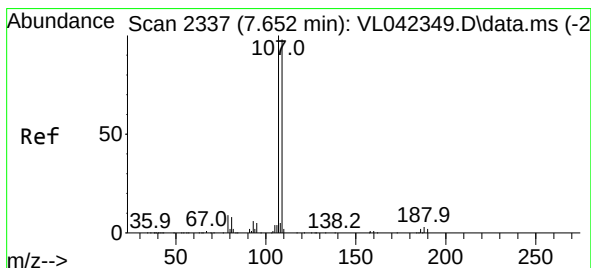
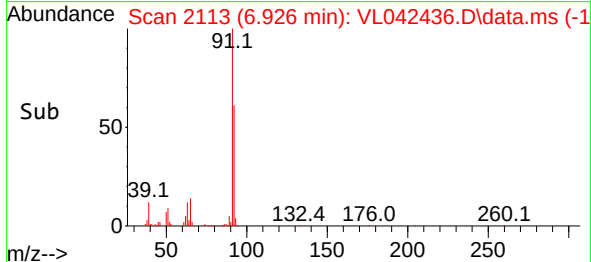
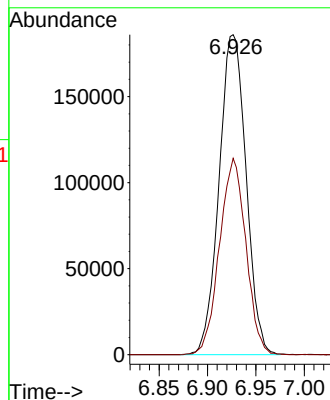
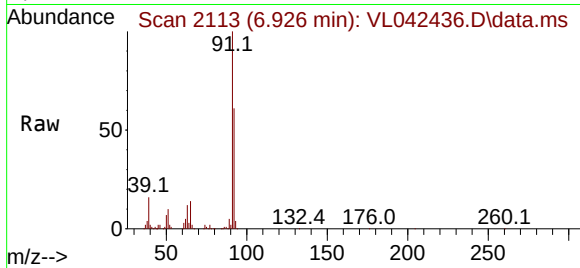




#53  
Toluene  
Concen: 8.968 ppbv  
RT: 6.926 min Scan# 2115  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

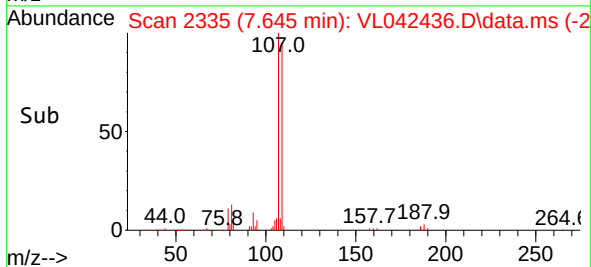
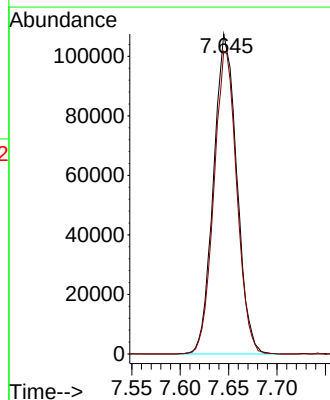
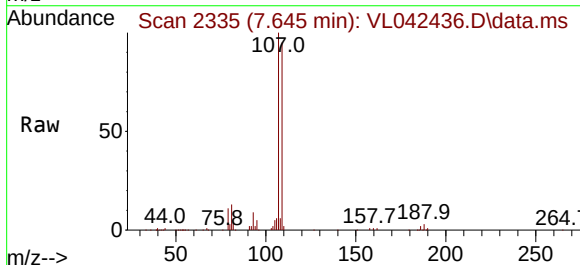
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

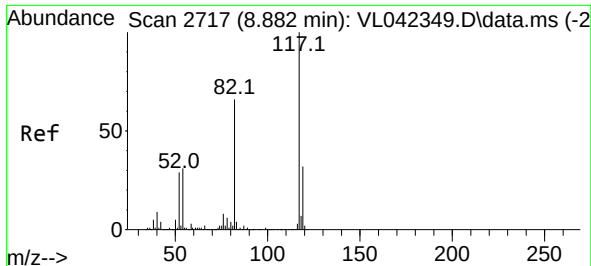
Tgt Ion: 91 Resp: 361317  
Ion Ratio Lower Upper  
91 100  
92 59.9 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 9.861 ppbv  
RT: 7.645 min Scan# 2335  
Delta R.T. -0.007 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 107 Resp: 179895  
Ion Ratio Lower Upper  
107 100  
109 94.7 78.2 117.4

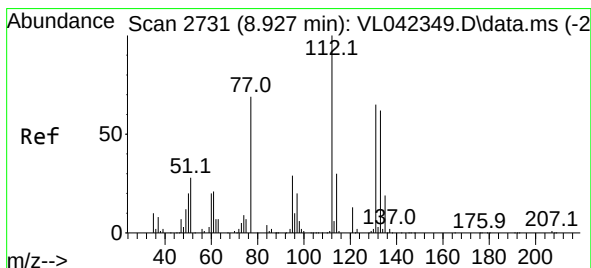
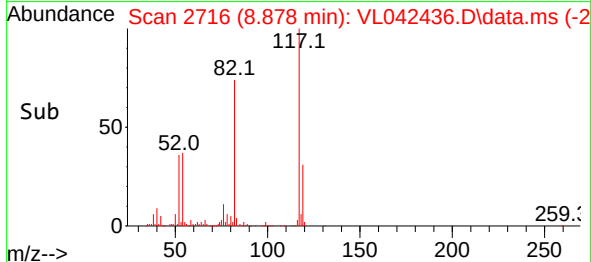
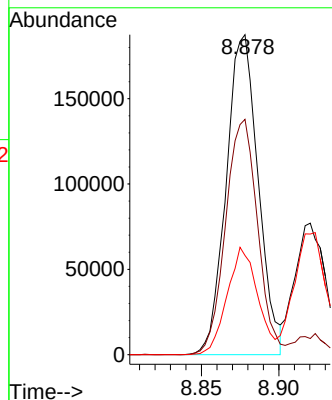
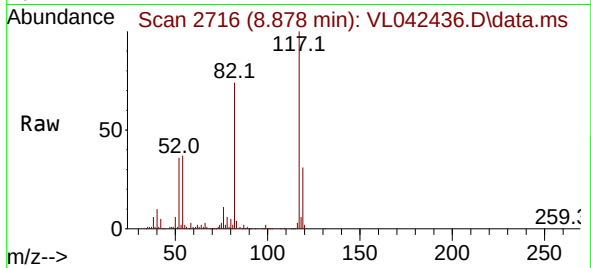




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.878 min Scan# 2172  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

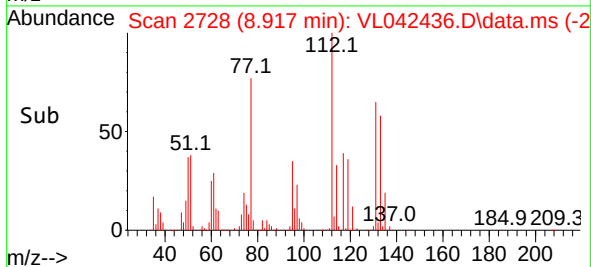
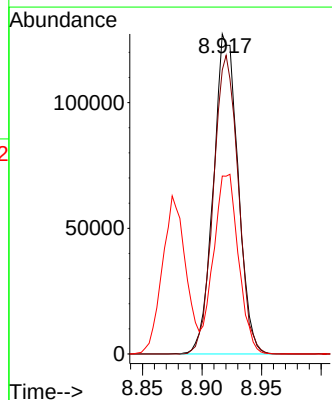
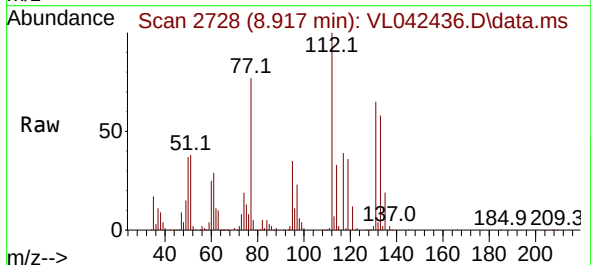
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

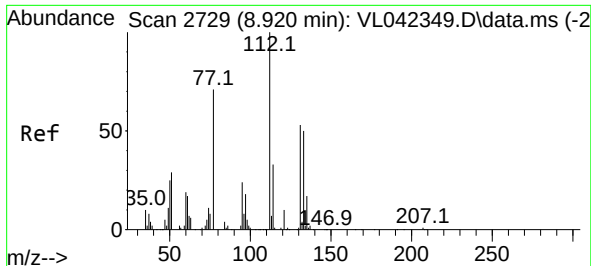
Tgt Ion:117 Resp: 269987  
Ion Ratio Lower Upper  
117 100  
82 79.6 57.8 86.6  
119 32.9 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.184 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. -0.010 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:131 Resp: 182759  
Ion Ratio Lower Upper  
131 100  
133 93.9 78.3 117.5  
119 55.8 48.7 73.1

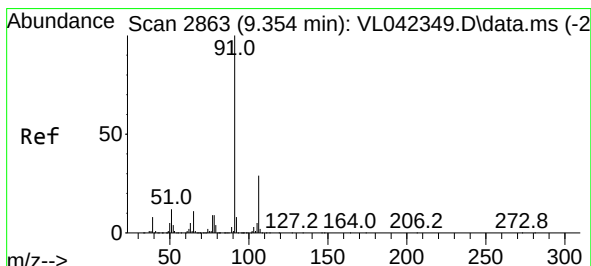
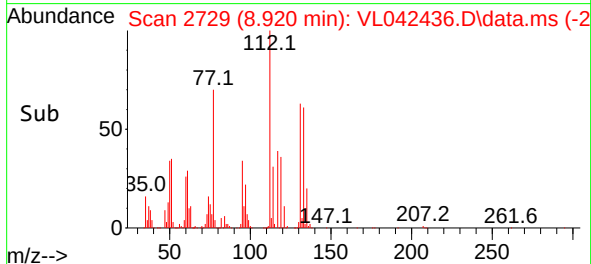
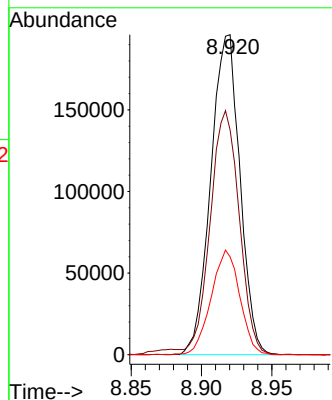
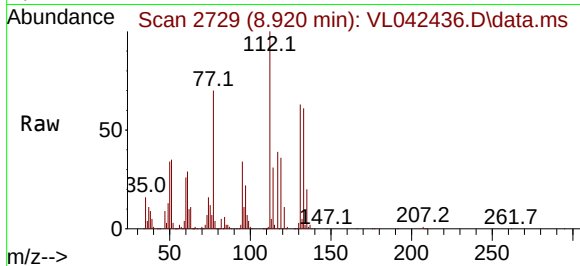




#57  
Chlorobenzene  
Concen: 10.086 ppbv  
RT: 8.920 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

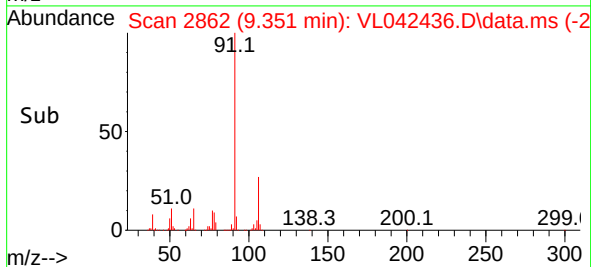
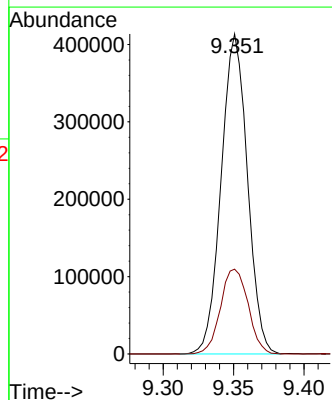
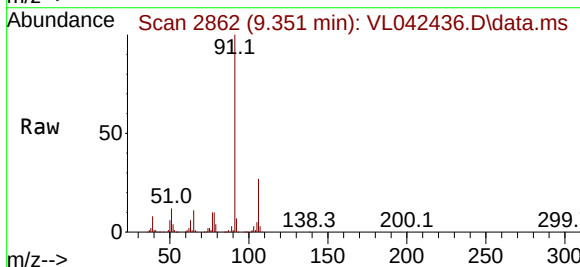
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

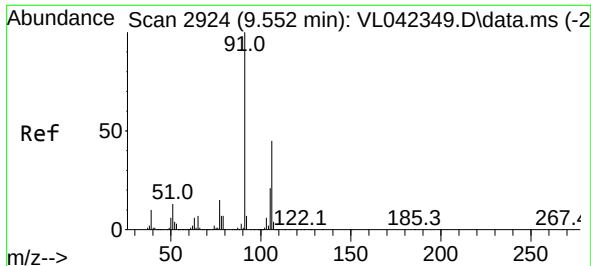
Tgt Ion:112 Resp: 283210  
Ion Ratio Lower Upper  
112 100  
77 70.2 57.8 86.6  
114 30.6 29.3 35.9



#58  
Ethyl Benzene  
Concen: 10.032 ppbv  
RT: 9.351 min Scan# 2862  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 536634  
Ion Ratio Lower Upper  
91 100  
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 10.897 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

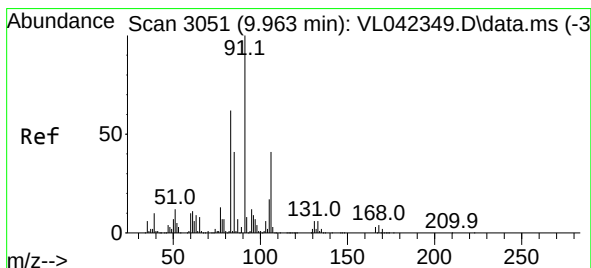
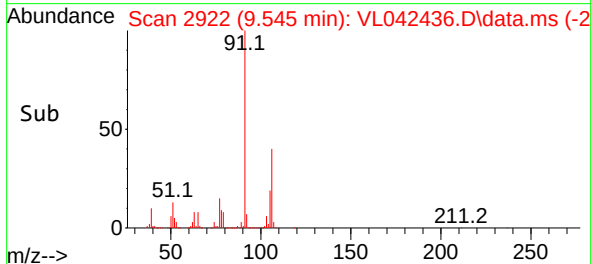
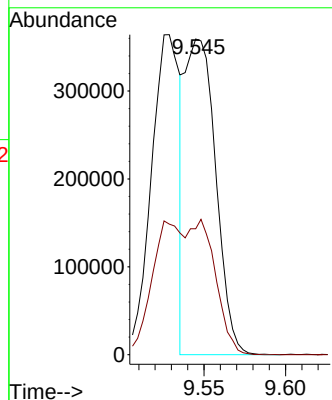
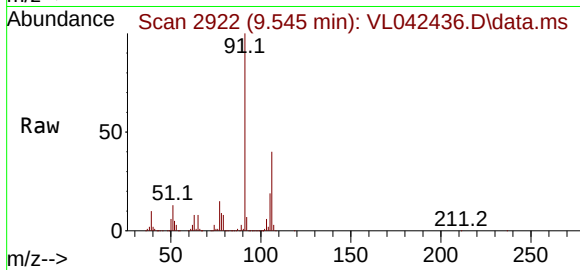
VSTDCCC010

Tgt Ion: 91 Resp: 469573

Ion Ratio Lower Upper

91 100

106 81.2 35.4 53.2#



#60

o-Xylene

Concen: 10.686 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042436.D

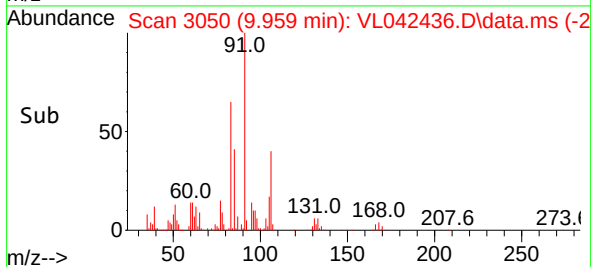
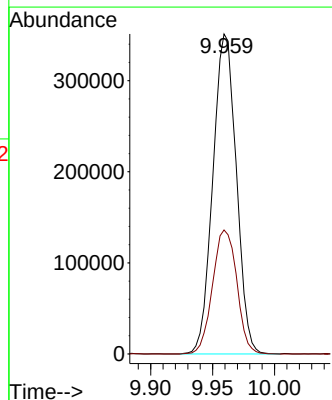
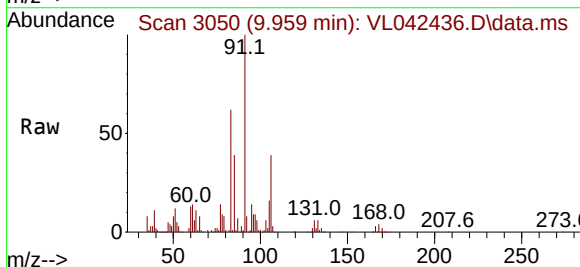
Acq: 29 Apr 2025 08:39

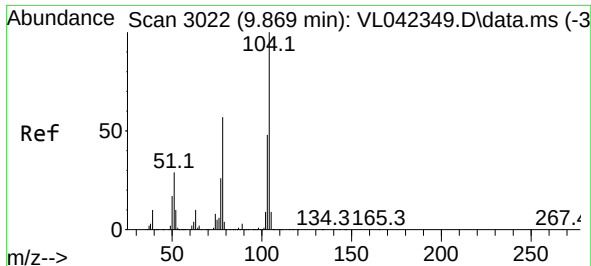
Tgt Ion: 91 Resp: 463713

Ion Ratio Lower Upper

91 100

106 40.0 21.1 63.4

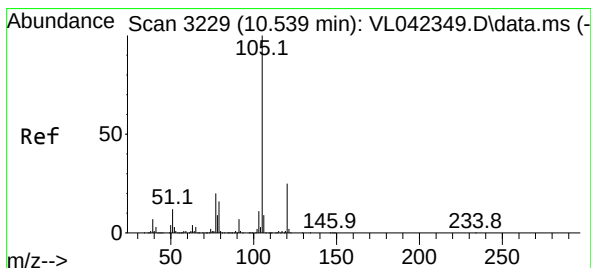
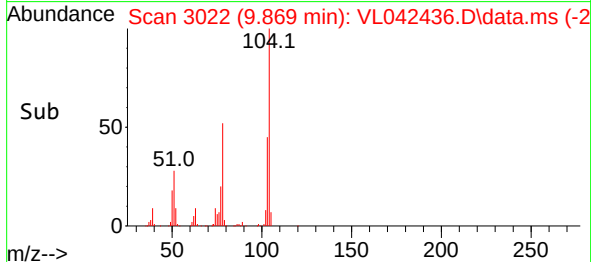
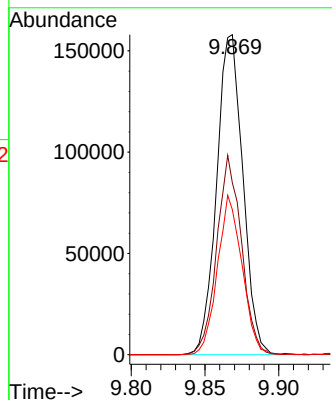
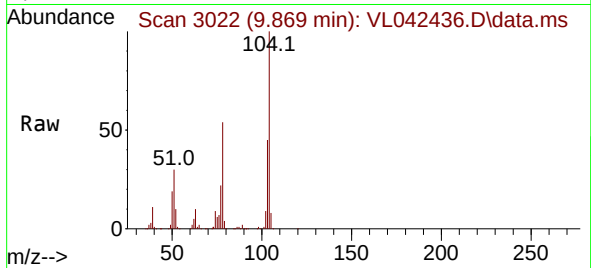




#61  
Styrene  
Concen: 9.454 ppbv  
RT: 9.869 min Scan# 3022  
Delta R.T. -0.000 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

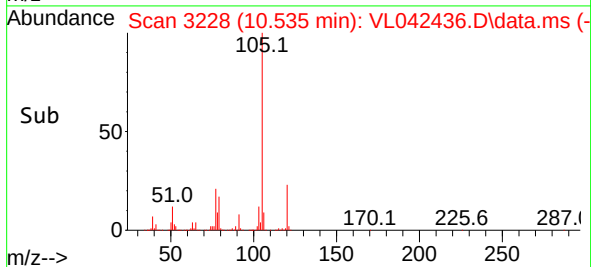
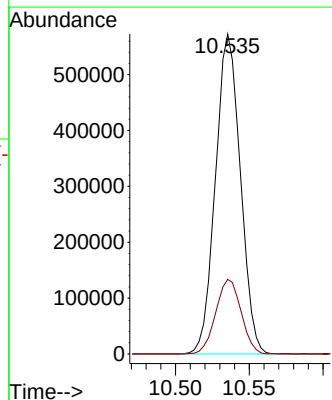
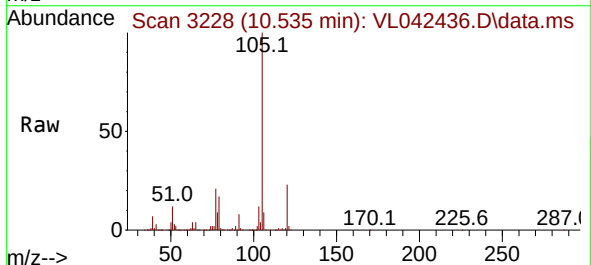
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

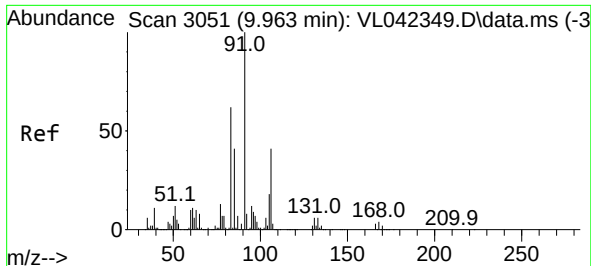
Tgt Ion:104 Resp: 195813  
Ion Ratio Lower Upper  
104 100  
78 58.5 44.6 66.8  
103 46.7 37.4 56.0



#62  
Isopropylbenzene  
Concen: 10.558 ppbv  
RT: 10.535 min Scan# 3228  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 672630  
Ion Ratio Lower Upper  
105 100  
120 23.7 19.8 29.8

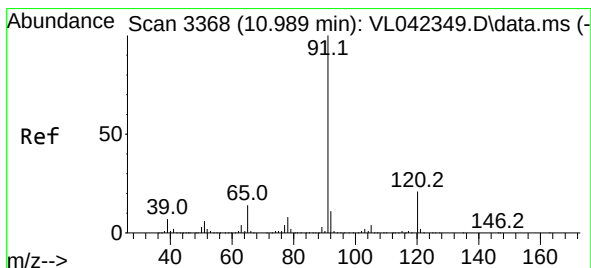
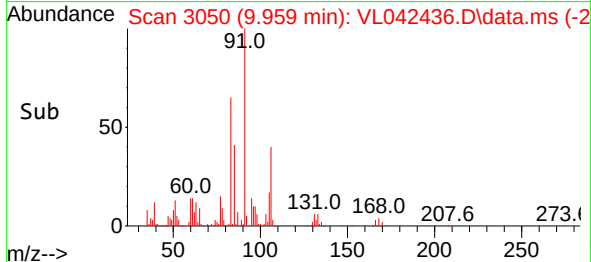
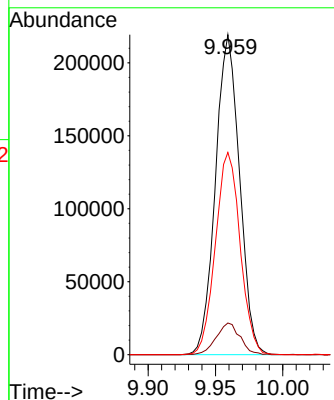
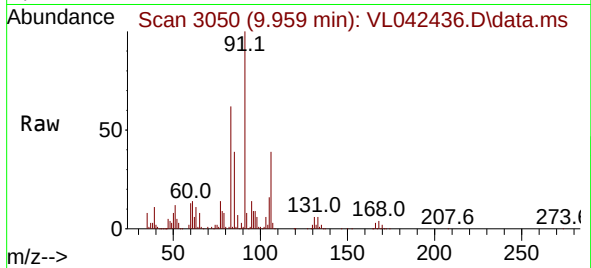




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.699 ppbv  
 RT: 9.959 min Scan# 3050  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

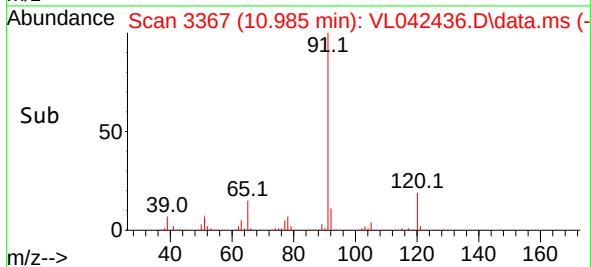
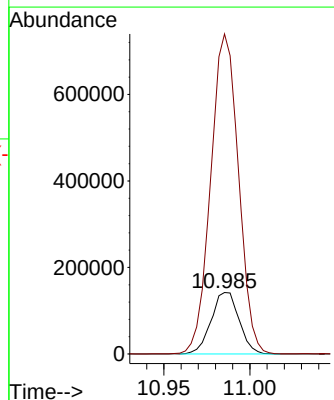
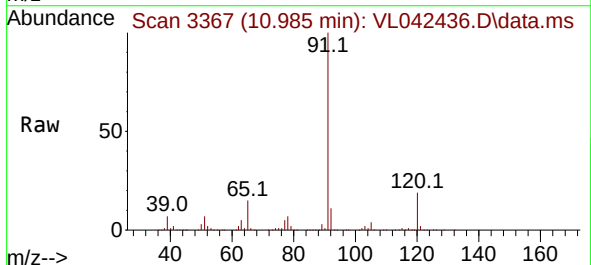
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

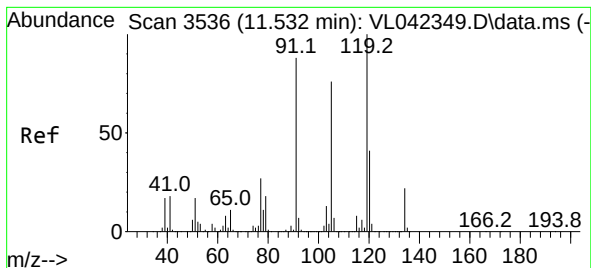
Tgt Ion: 83 Resp: 272746  
 Ion Ratio Lower Upper  
 83 100  
 131 9.8 4.5 13.7  
 85 65.0 32.4 97.0



#64  
 n-propylbenzene  
 Concen: 10.037 ppbv  
 RT: 10.985 min Scan# 3367  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion:120 Resp: 160736  
 Ion Ratio Lower Upper  
 120 100  
 91 518.7 392.4 588.6





#65

tert-Butylbenzene

Concen: 10.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

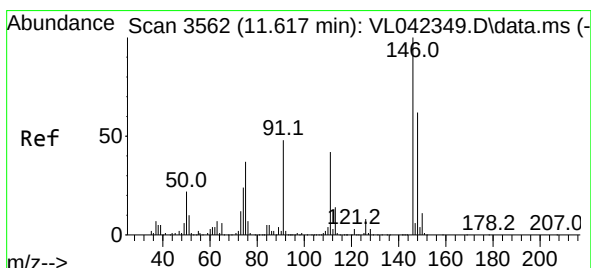
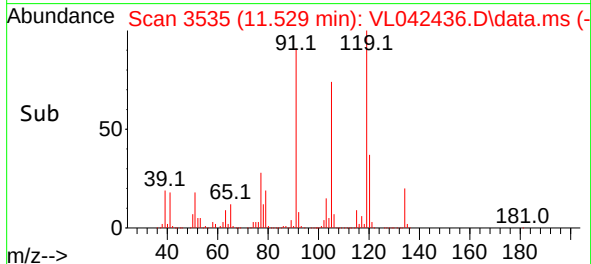
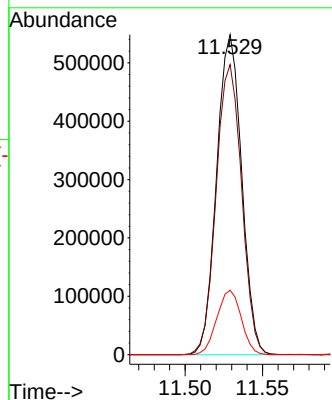
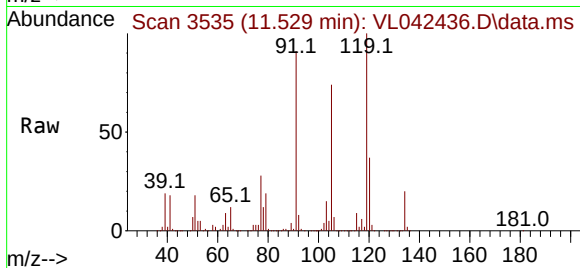
Tgt Ion:119 Resp: 616872

Ion Ratio Lower Upper

119 100

91 92.2 74.6 111.8

134 19.6 18.8 28.2



#66

Benzyl Chloride

Concen: 7.746 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

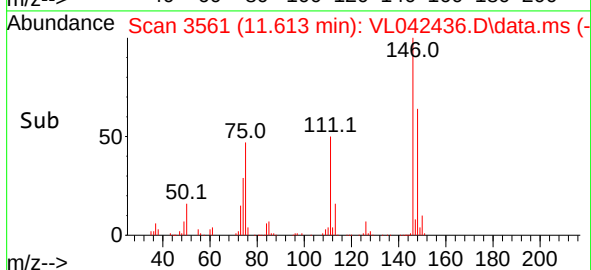
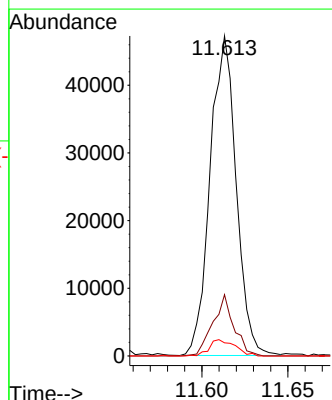
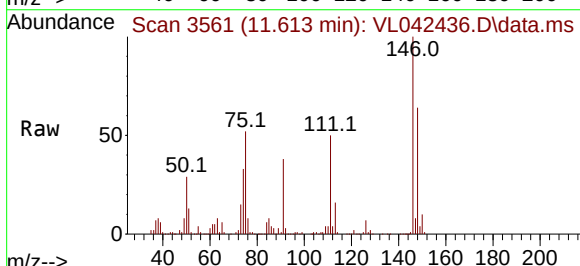
Tgt Ion: 91 Resp: 49841

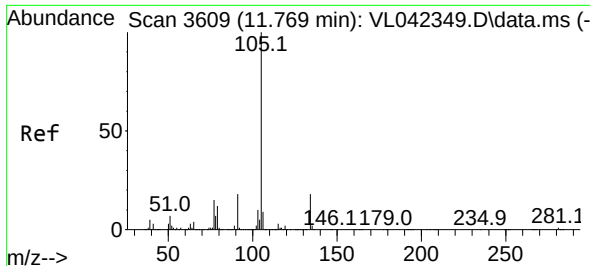
Ion Ratio Lower Upper

91 100

126 15.4 11.8 17.6

128 5.1 4.5 6.7

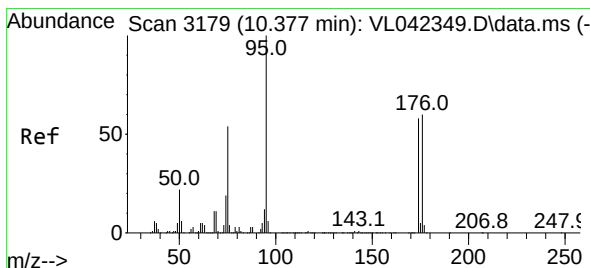
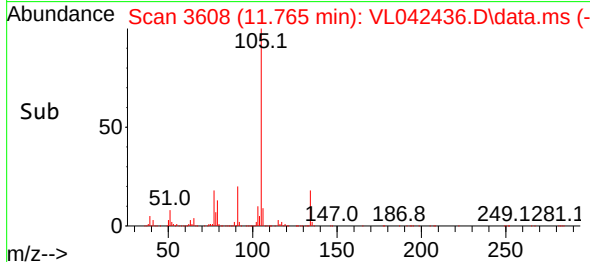
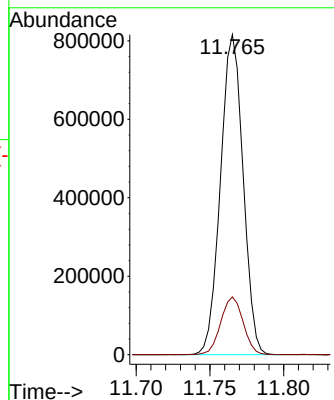
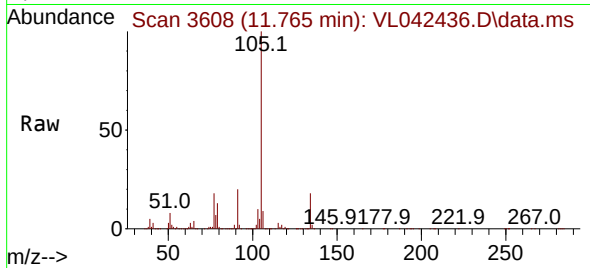




#67  
 sec-Butylbenzene  
 Concen: 10.677 ppbv  
 RT: 11.765 min Scan# 3608  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

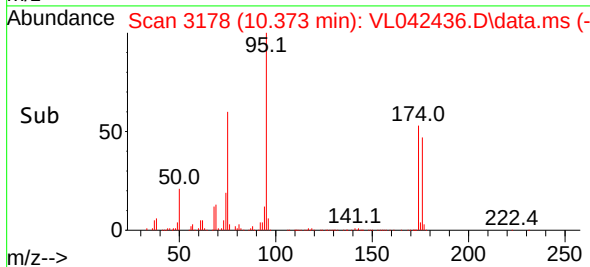
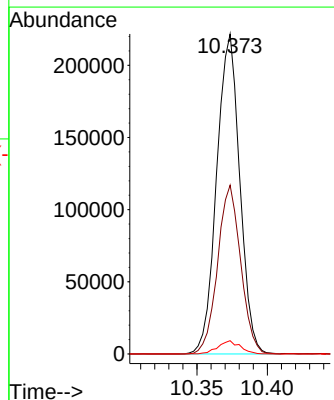
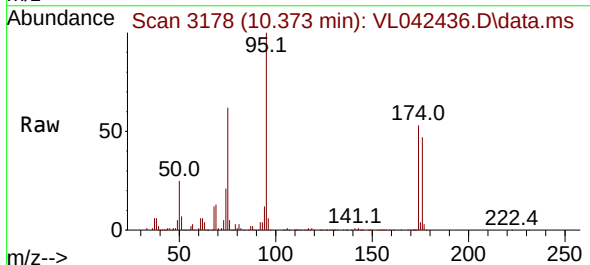
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:105 Resp: 869595  
 Ion Ratio Lower Upper  
 105 100  
 134 17.9 14.6 21.8

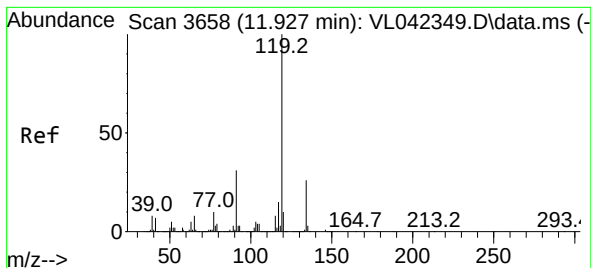


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.413 ppbv  
 RT: 10.373 min Scan# 3178  
 Delta R.T. -0.003 min  
 Lab File: VL042436.D  
 Acq: 29 Apr 2025 08:39

Tgt Ion: 95 Resp: 253216  
 Ion Ratio Lower Upper  
 95 100  
 174 52.8 48.5 72.7  
 175 4.0 3.7 5.5



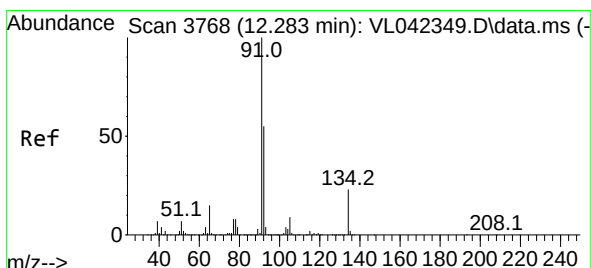
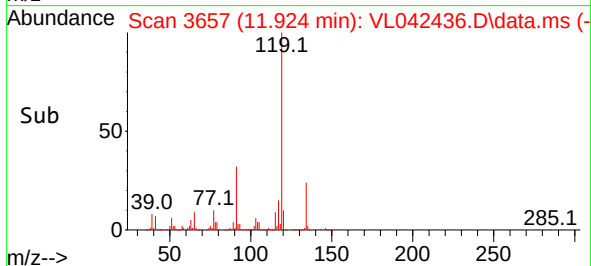
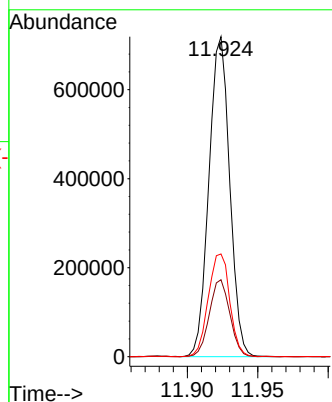
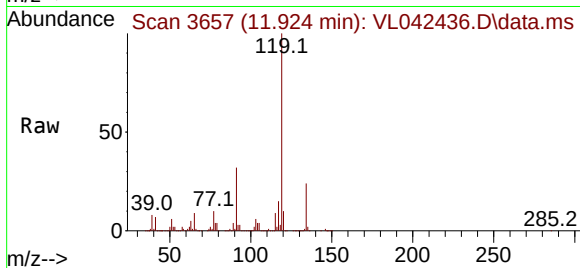




#69  
p-Isopropyltoluene  
Concen: 10.442 ppbv  
RT: 11.924 min Scan# 3657  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

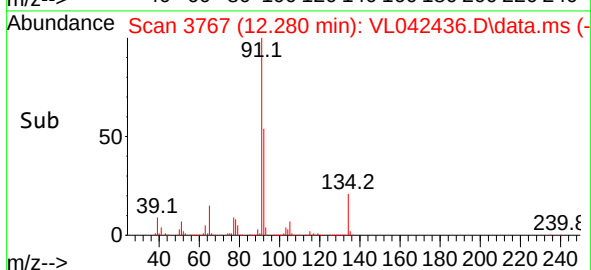
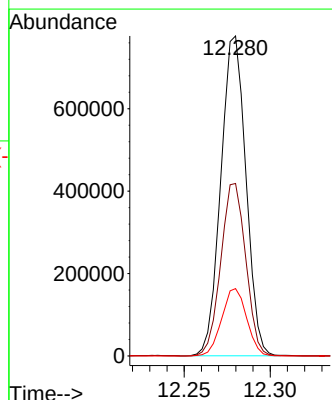
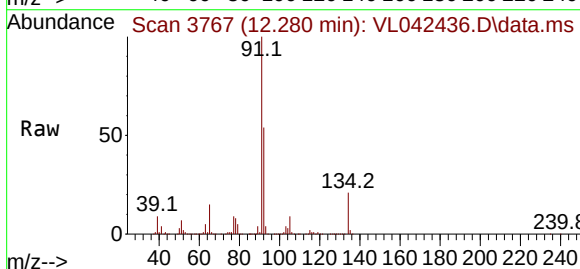
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

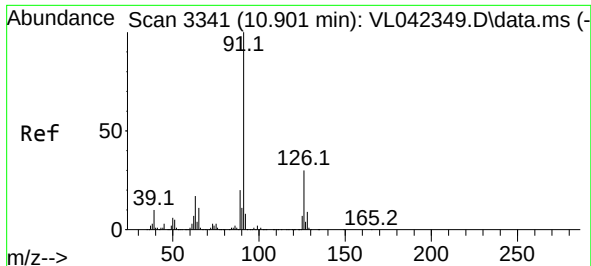
Tgt Ion:119 Resp: 738863  
Ion Ratio Lower Upper  
119 100  
134 23.9 20.0 30.0  
91 33.5 24.4 36.6



#70  
n-Butylbenzene  
Concen: 10.688 ppbv  
RT: 12.280 min Scan# 3767  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 91 Resp: 787717  
Ion Ratio Lower Upper  
91 100  
92 53.9 44.2 66.4  
134 21.0 18.2 27.4

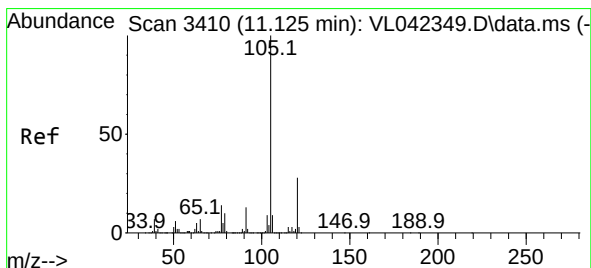
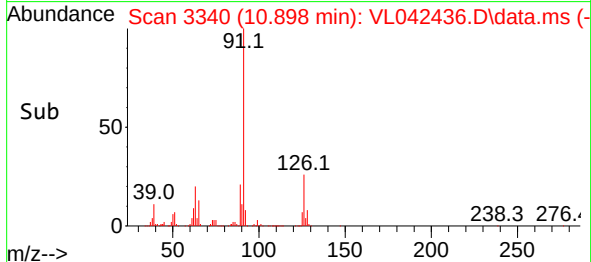
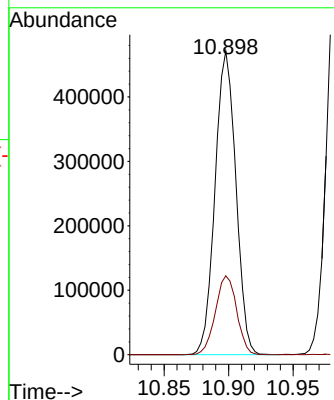
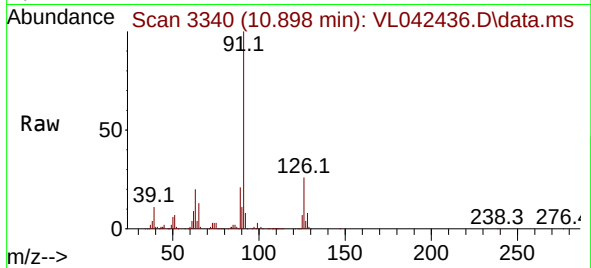




#71  
2-Chlorotoluene  
Concen: 10.571 ppbv  
RT: 10.898 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

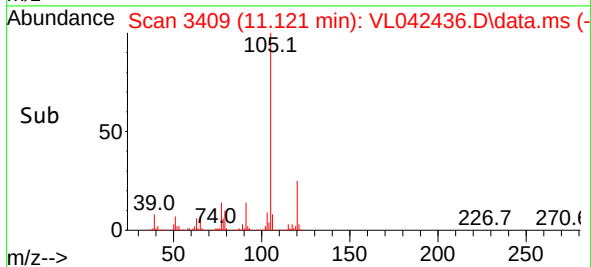
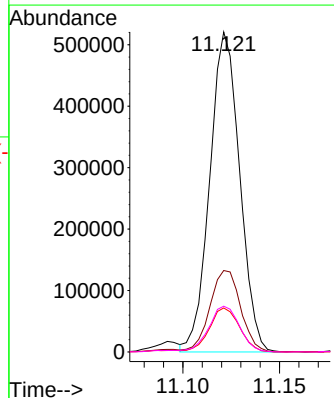
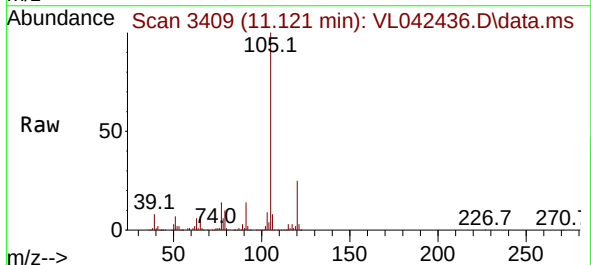
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

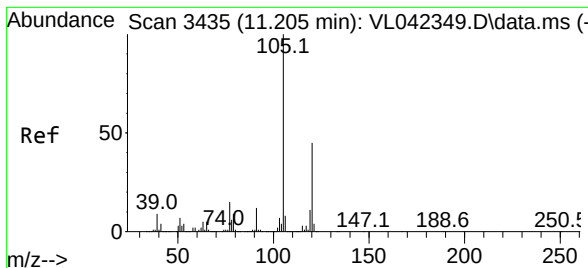
Tgt Ion: 91 Resp: 528205  
Ion Ratio Lower Upper  
91 100  
126 26.5 11.4 45.4



#72  
4-Ethyltoluene  
Concen: 10.542 ppbv  
RT: 11.121 min Scan# 3409  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion: 105 Resp: 559285  
Ion Ratio Lower Upper  
105 100  
120 27.0 23.2 34.8  
91 14.5 10.4 15.6  
77 15.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.546 ppbv

RT: 11.199 min Scan# 34

Delta R.T. -0.007 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_1

ClientSampleId :

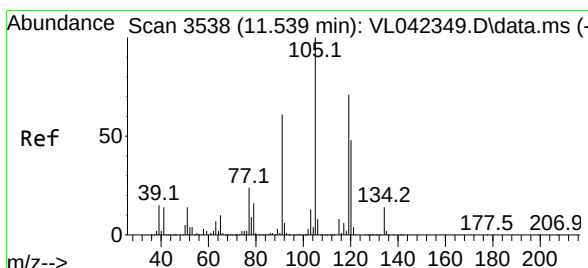
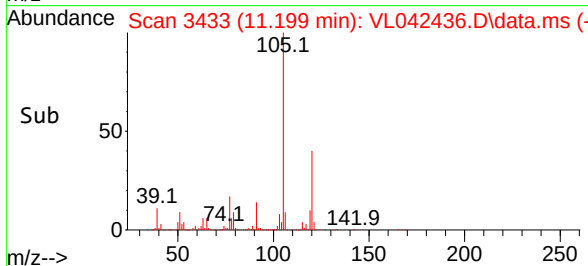
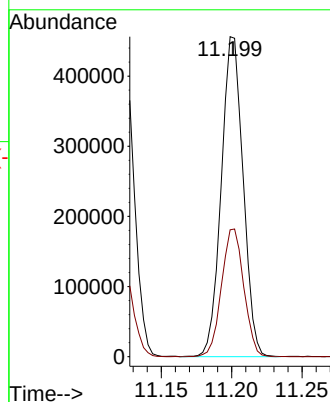
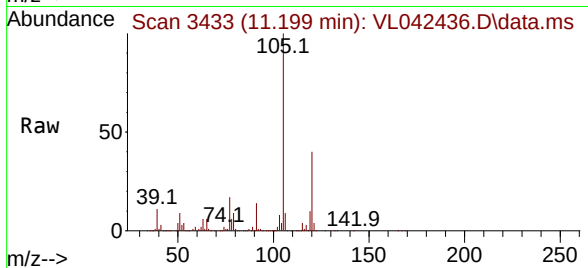
VSTDCCC010

Tgt Ion:105 Resp: 493949

Ion Ratio Lower Upper

105 100

120 39.6 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 10.130 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042436.D

Acq: 29 Apr 2025 08:39

Tgt Ion:105 Resp: 554136

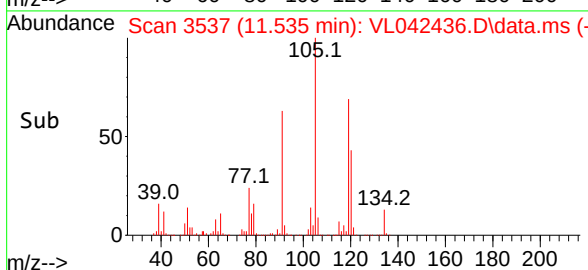
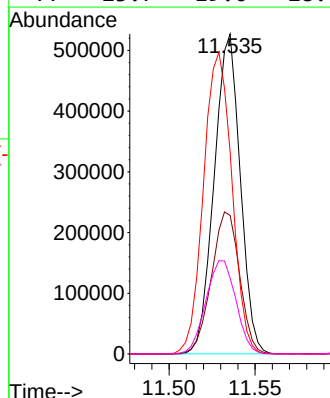
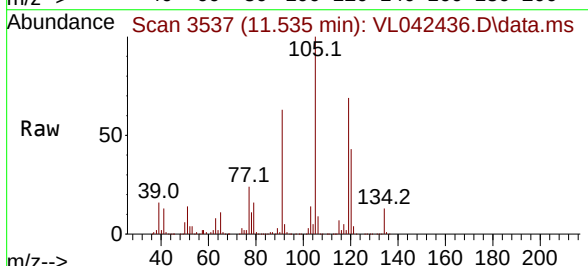
Ion Ratio Lower Upper

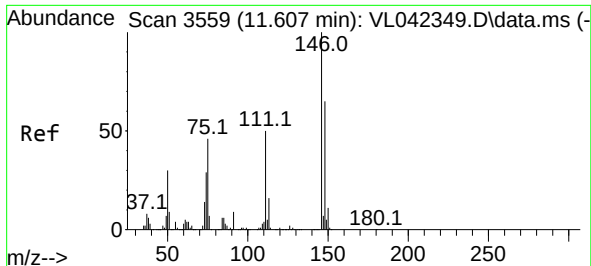
105 100

120 43.3 38.1 57.1

91 63.1 48.8 73.2

77 23.7 19.0 28.4

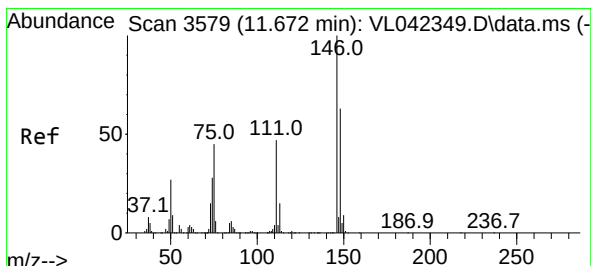
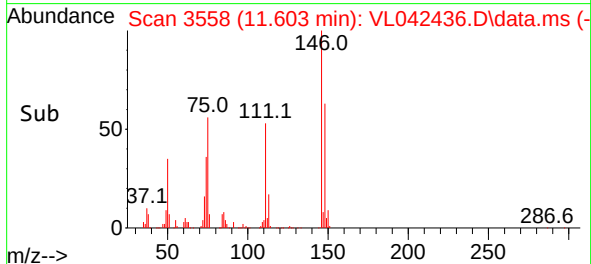
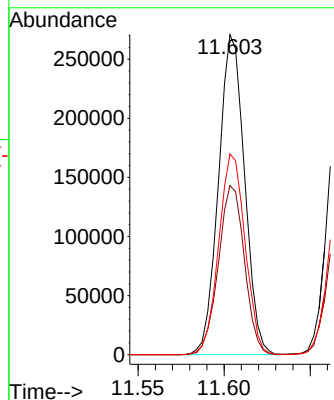
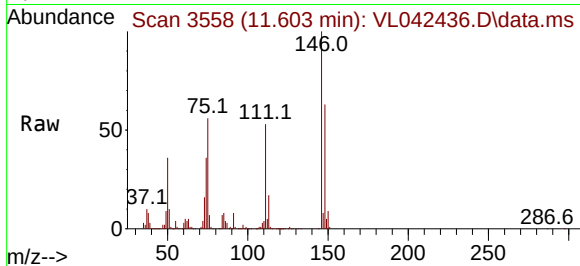




#75  
1,3-Dichlorobenzene  
Concen: 10.024 ppbv  
RT: 11.603 min Scan# 3558  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

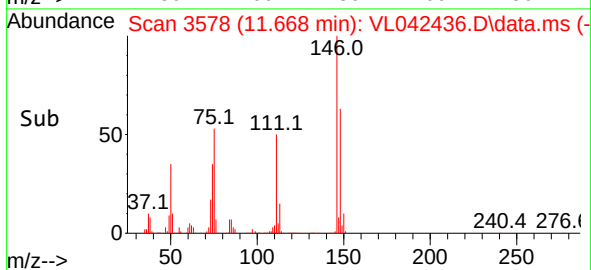
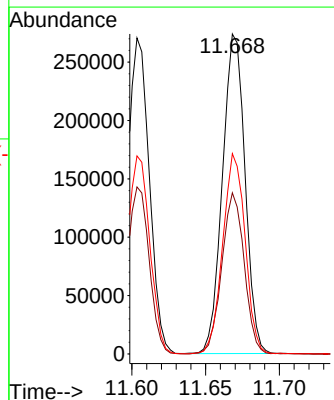
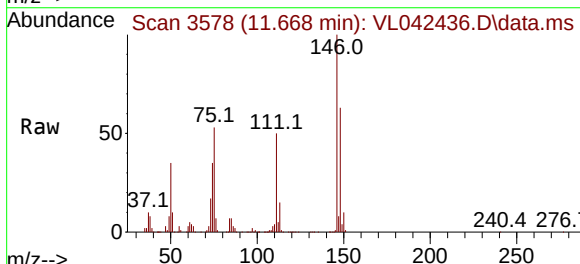
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

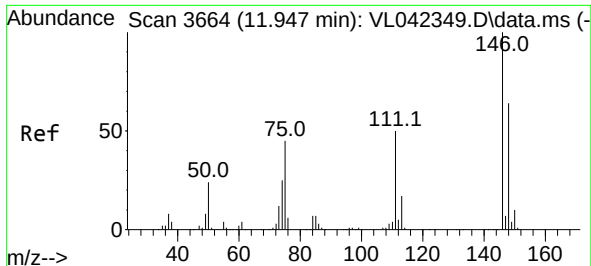
Tgt Ion:146 Resp: 285025  
Ion Ratio Lower Upper  
146 100  
111 52.9 24.3 72.8  
148 63.6 31.6 94.8



#76  
1,4-Dichlorobenzene  
Concen: 10.210 ppbv  
RT: 11.668 min Scan# 3578  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:146 Resp: 291795  
Ion Ratio Lower Upper  
146 100  
111 50.1 24.2 72.6  
148 62.4 32.1 96.5

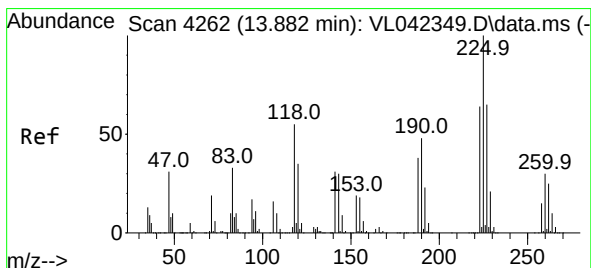
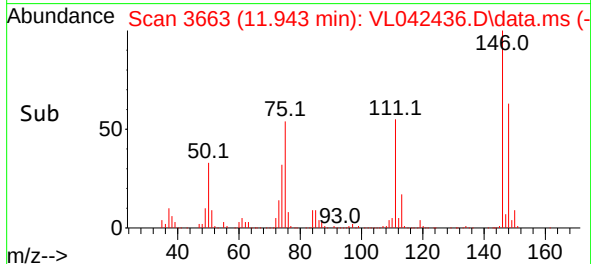
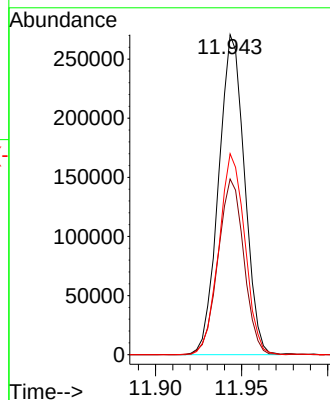
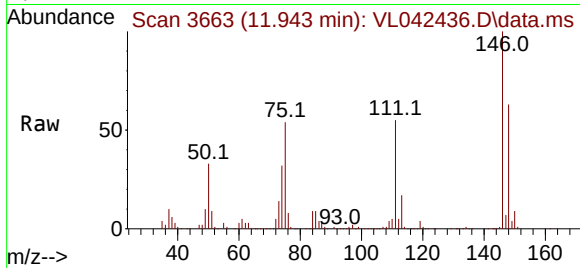




#77  
1,2-Dichlorobenzene  
Concen: 10.261 ppbv  
RT: 11.943 min Scan# 30  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

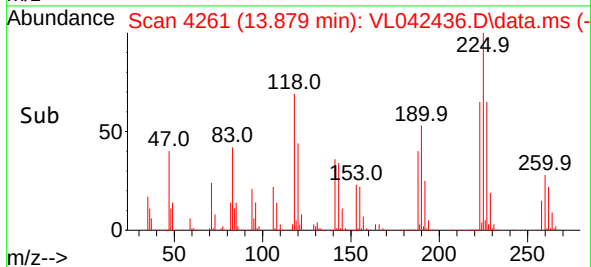
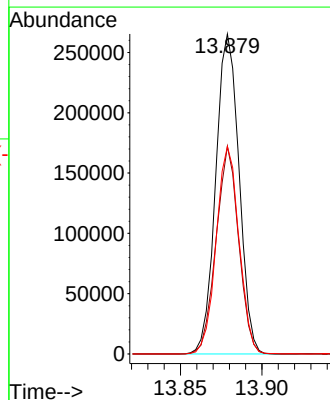
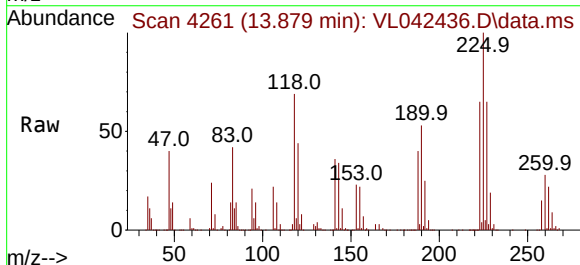
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

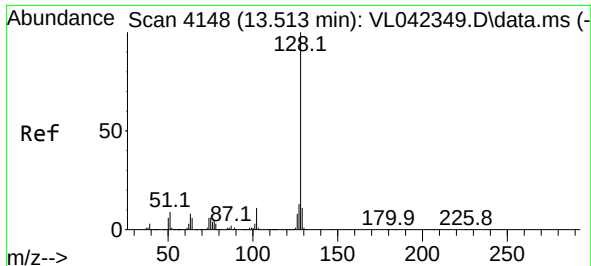
Tgt Ion:146 Resp: 283700  
Ion Ratio Lower Upper  
146 100  
111 54.8 25.3 75.9  
148 63.1 31.5 94.5



#78  
Hexachloro-1,3-Butadiene  
Concen: 9.437 ppbv  
RT: 13.879 min Scan# 4261  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:225 Resp: 263477  
Ion Ratio Lower Upper  
225 100  
223 62.6 50.3 75.5  
227 63.6 51.5 77.3

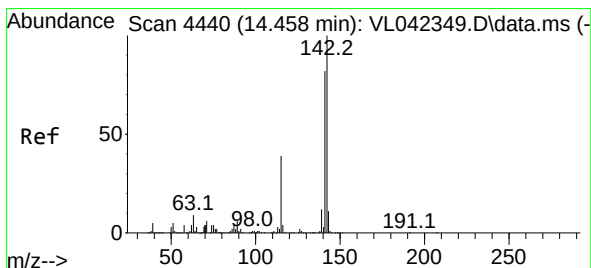
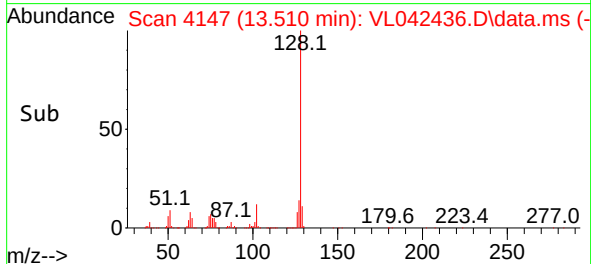
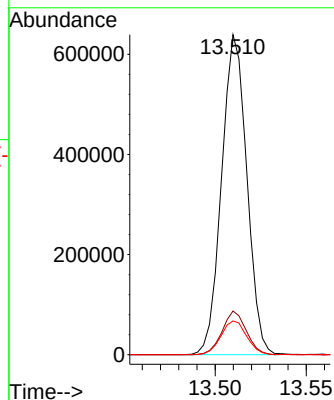
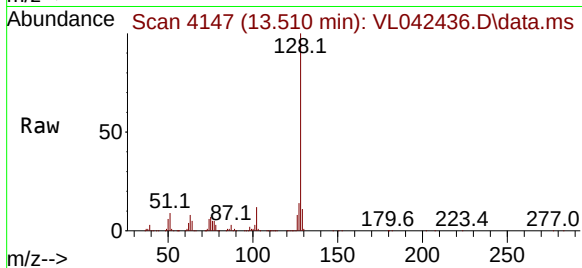




#79  
Naphthalene  
Concen: 9.408 ppbv  
RT: 13.510 min Scan# 4148  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

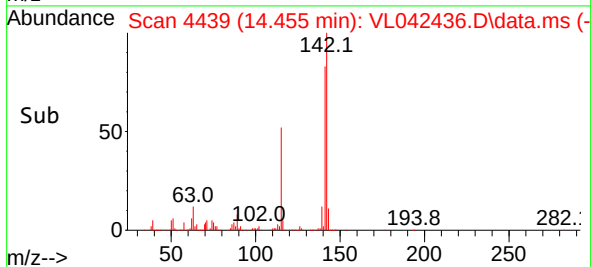
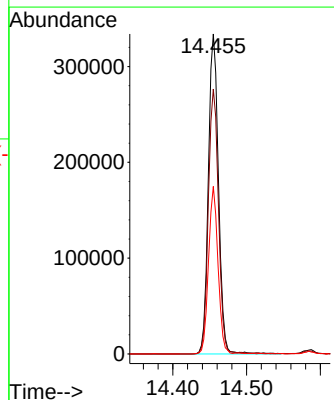
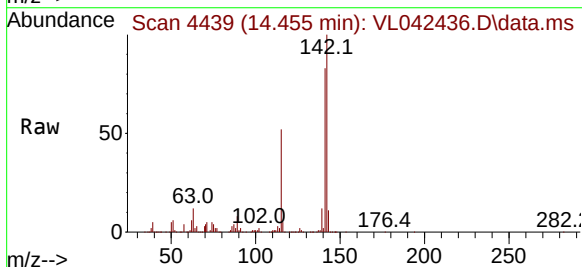
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

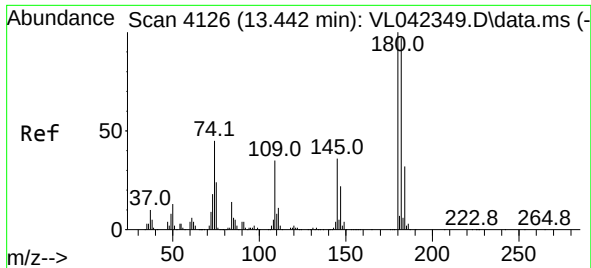
Tgt Ion:128 Resp: 615408  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.6 15.8  
129 10.5 8.6 12.8



#80  
Naphthalene,2-methyl-  
Concen: 8.497 ppbv  
RT: 14.455 min Scan# 4439  
Delta R.T. -0.003 min  
Lab File: VL042436.D  
Acq: 29 Apr 2025 08:39

Tgt Ion:142 Resp: 316788  
Ion Ratio Lower Upper  
142 100  
141 83.6 66.8 100.2  
115 49.6 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.363 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042436.D

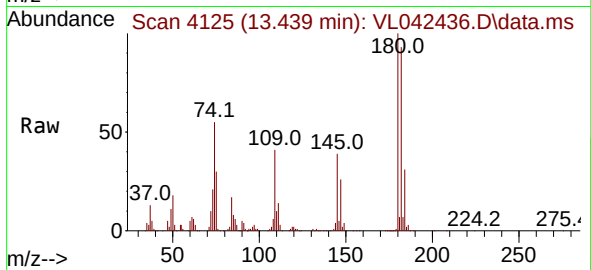
Acq: 29 Apr 2025 08:39

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010



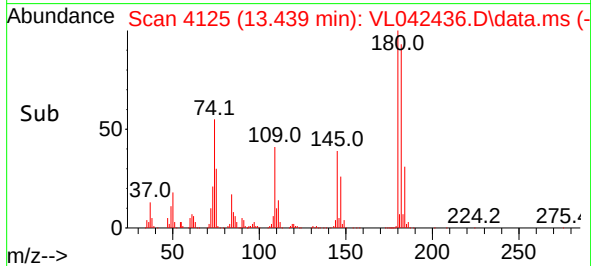
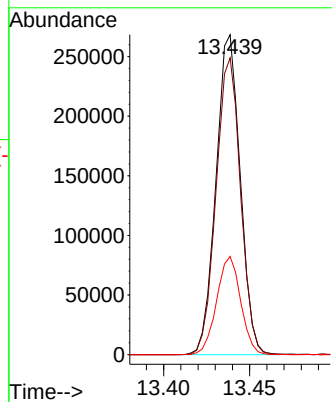
Tgt Ion:180 Resp: 263006

Ion Ratio Lower Upper

180 100

182 93.8 76.8 115.2

184 30.4 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042438.D  
 Acq On : 29 Apr 2025 10:08  
 Operator : SY/MD  
 Sample : VL0429ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

Quant Time: Apr 30 01:17:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 116772   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 317590   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 272312   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 253021   | 11.307   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 113.100% |

| Target Compounds              |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 238539 | 11.562 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 192670 | 9.807  | ppbv   | 92     |
| 4) Chloromethane              | 1.534 | 50  | 89832  | 11.003 | ppbv   | 94     |
| 5) Vinyl Chloride             | 1.580 | 62  | 85334  | 9.601  | ppbv   | 99     |
| 6) Bromomethane               | 1.667 | 94  | 40758  | 10.676 | ppbv   | 94     |
| 7) Chloroethane               | 1.706 | 64  | 33756  | 10.502 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 198106 | 11.184 | ppbv   | 95     |
| 9) Propene                    | 1.486 | 41  | 70111  | 7.836  | ppbv   | 97     |
| 10) Heptane                   | 4.981 | 43  | 190583 | 7.582  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 225308 | 11.484 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 174111 | 10.854 | ppbv   | 97     |
| 13) Ethanol                   | 1.722 | 45  | 4137   | 2.909  | ppbv   | 90     |
| 14) Bromoethene               | 1.783 | 108 | 64544  | 10.674 | ppbv # | 98     |
| 15) Acetone                   | 1.835 | 43  | 189432 | 9.910  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 90473  | 9.895  | ppbv   | 93     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 230217 | 9.718  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 76749  | 10.241 | ppbv   | 96     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 103692 | 9.765  | ppbv # | 36     |
| 20) Methylene Chloride        | 2.062 | 84  | 67298  | 8.989  | ppbv   | 91     |
| 21) Allyl Chloride            | 2.097 | 41  | 130014 | 9.851  | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 84797  | 9.938  | ppbv   | 90     |
| 23) Vinyl Acetate             | 2.463 | 43  | 61036  | 7.888  | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 177233 | 10.934 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.839 | 43  | 416465 | 8.836  | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 157544 | 8.260  | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.149 | 76  | 211824 | 10.372 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 116769 | 9.344  | ppbv   | 94     |
| 29) Chloroform                | 2.852 | 83  | 286397 | 10.623 | ppbv   | 96     |
| 30) Cyclohexane               | 3.858 | 84  | 132615 | 8.601  | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 174328 | 9.613  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.369 | 97  | 312429 | 10.294 | ppbv   | 99     |
| 34) 2-Butanone                | 2.560 | 43  | 233037 | 9.278  | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 317207 | 11.036 | ppbv   | 93     |
| 36) Benzene                   | 3.658 | 78  | 317350 | 9.264  | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 247446 | 12.035 | ppbv # | 96     |
| 38) Trichloroethene           | 4.551 | 130 | 127601 | 8.523  | ppbv   | 91     |
| 39) 1,2-Dichloropropane       | 4.318 | 63  | 115449 | 9.044  | ppbv   | 92     |
| 40) 1,4-Dioxane               | 4.586 | 88  | 52820  | 7.529  | ppbv # | 92     |
| 41) Tetrahydrofuran           | 3.055 | 42  | 124059 | 8.471  | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.493 | 83  | 317253 | 11.088 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.887 | 69  | 61150  | 3.961  | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 4.641 | 57  | 531439 | 8.983  | ppbv   | 95     |
| 45) t-1,3-Dichloropropene     | 6.418 | 75  | 140981 | 8.940  | ppbv   | 100    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042438.D  
 Acq On : 29 Apr 2025 10:08  
 Operator : SY/MD  
 Sample : VL0429ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

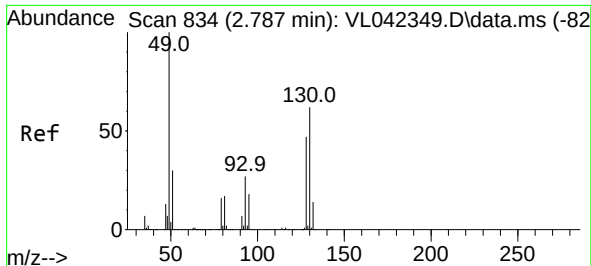
Quant Time: Apr 30 01:17:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 170063   | 8.811  | ppbv # | 84       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 128662   | 9.893  | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.389  | 129  | 233350   | 10.156 | ppbv   | 100      |
| 49) Bromoform                 | 9.487  | 173  | 189484   | 9.431  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 327508   | 7.846  | ppbv   | 98       |
| 51) 2-Hexanone                | 7.438  | 43   | 262697   | 7.018  | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.228  | 164  | 106031   | 8.008  | ppbv   | 90       |
| 53) Toluene                   | 6.936  | 91   | 363707   | 8.848  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 178709   | 9.601  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 180979   | 10.981 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.924  | 112  | 290861   | 10.270 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.357  | 91   | 545497   | 10.111 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.555  | 91   | 424567   | 9.768  | ppbv # | 31       |
| 60) o-Xylene                  | 9.966  | 91   | 465645   | 10.639 | ppbv   | 94       |
| 61) Styrene                   | 9.872  | 104  | 191741   | 9.178  | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.542 | 105  | 667839   | 10.393 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 278491   | 9.819  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 161309   | 9.987  | ppbv   | 91       |
| 65) tert-Butylbenzene         | 11.535 | 119  | 605972   | 10.260 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.620 | 91   | 46913    | 7.229  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 868275   | 10.569 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 733796   | 10.282 | ppbv   | 96       |
| 70) n-Butylbenzene            | 12.283 | 91   | 796622   | 10.717 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.904 | 91   | 534951   | 10.614 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 553879   | 10.351 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 491459   | 10.403 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 548408   | 9.939  | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 284809   | 9.931  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 285571   | 9.907  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 282424   | 10.128 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 280954   | 9.977  | ppbv   | 98       |
| 79) Naphthalene               | 13.516 | 128  | 621879   | 9.425  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 312733   | 8.317  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 269082   | 9.498  | ppbv   | 99       |

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

Quant Time: Apr 30 01:17:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

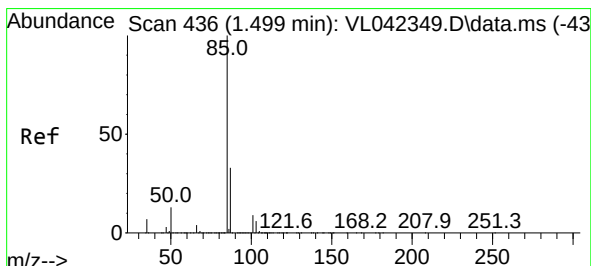
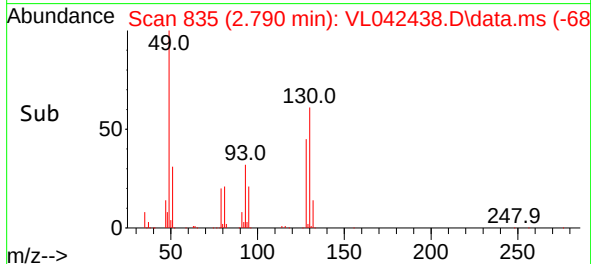
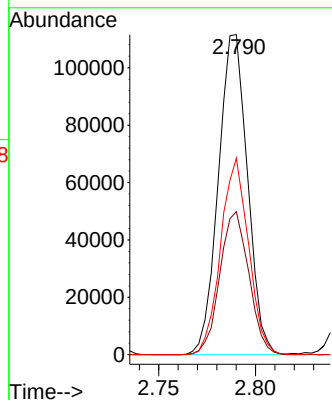
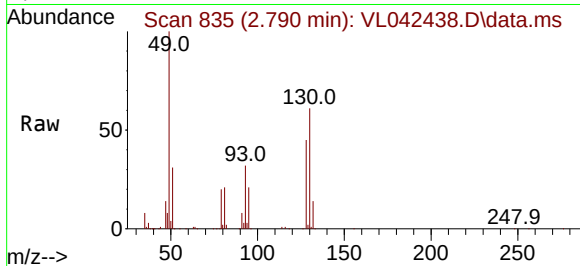




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

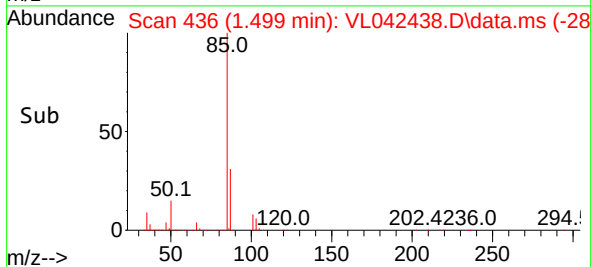
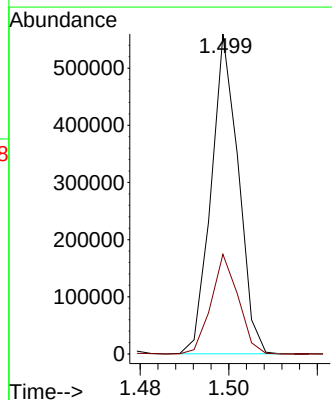
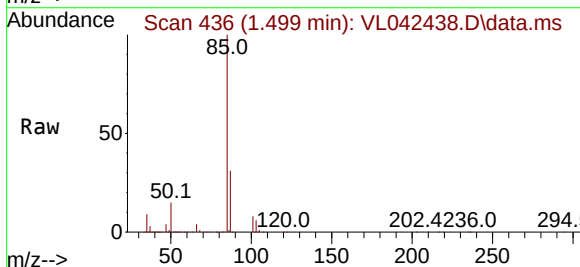
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

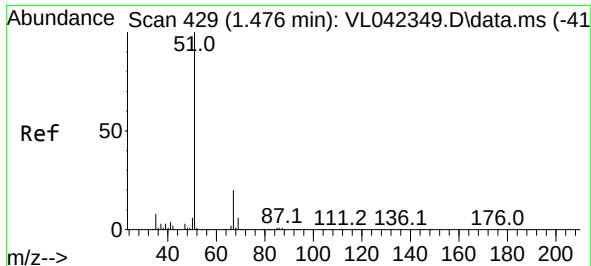
Tgt Ion: 49 Resp: 116772  
Ion Ratio Lower Upper  
49 100  
128 44.5 22.8 68.4  
130 58.8 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 11.562 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 238539  
Ion Ratio Lower Upper  
85 100  
87 31.2 26.6 39.8

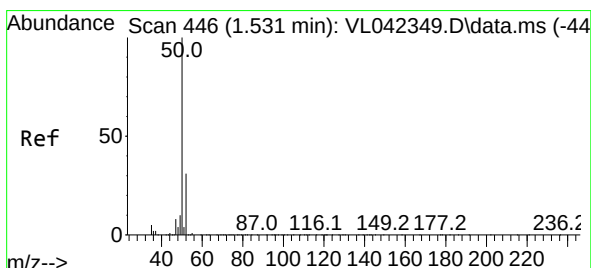
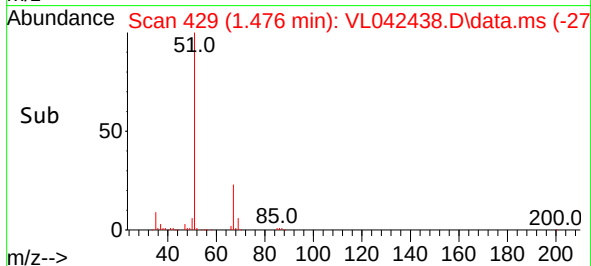
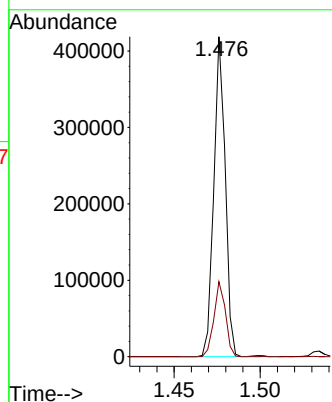
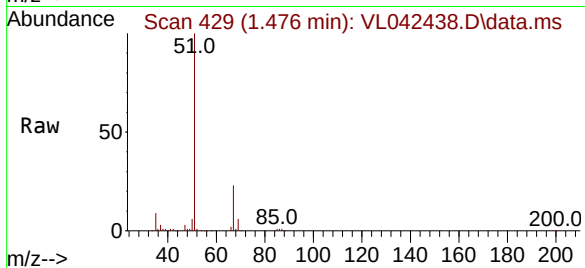




#3  
Chlorodifluoromethane  
Concen: 9.807 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

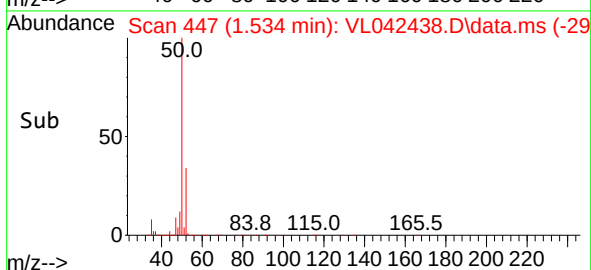
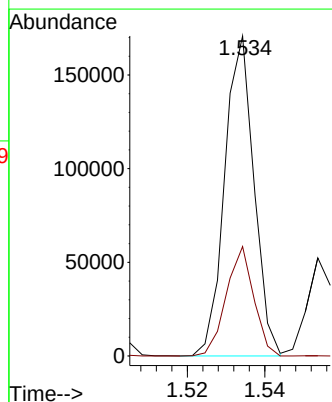
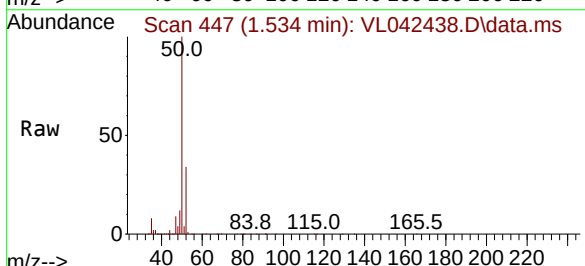
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

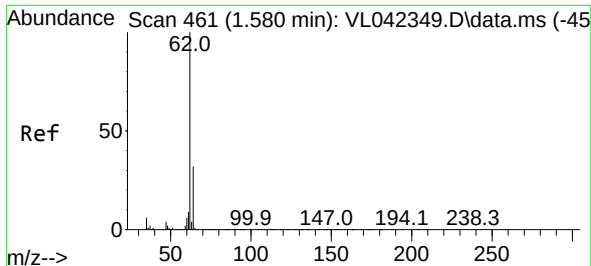
Tgt Ion: 51 Resp: 192670  
Ion Ratio Lower Upper  
51 100  
67 23.8 16.2 24.4



#4  
Chloromethane  
Concen: 11.003 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 50 Resp: 89832  
Ion Ratio Lower Upper  
50 100  
52 34.2 24.7 37.1

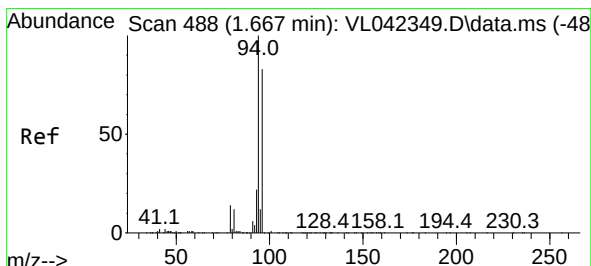
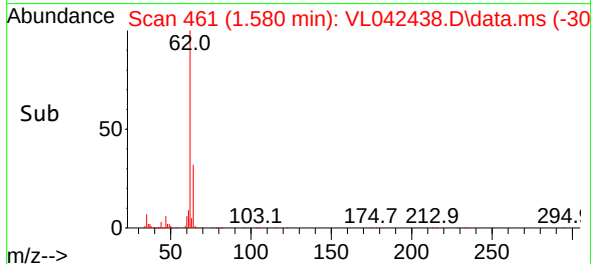
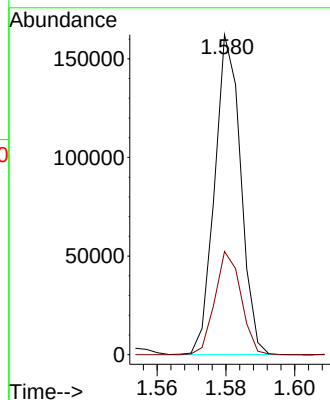
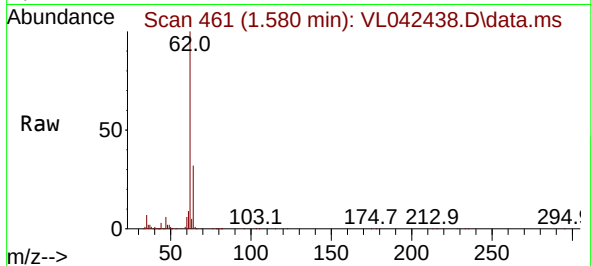




#5  
 Vinyl Chloride  
 Concen: 9.601 ppbv  
 RT: 1.580 min Scan# 461  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

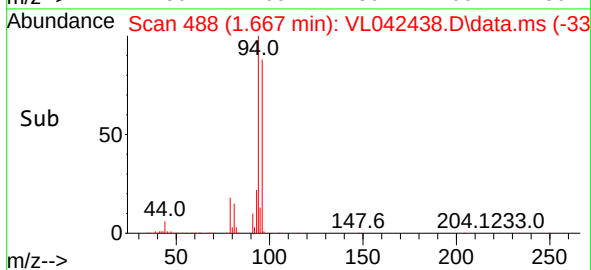
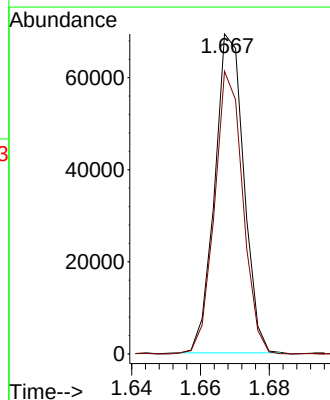
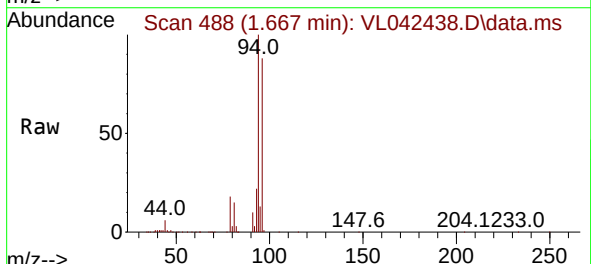
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

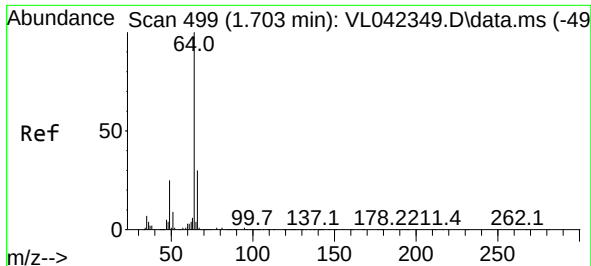
Tgt Ion: 62 Resp: 85334  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 25.4 38.0



#6  
 Bromomethane  
 Concen: 10.676 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 94 Resp: 40758  
 Ion Ratio Lower Upper  
 94 100  
 96 88.5 66.2 99.2

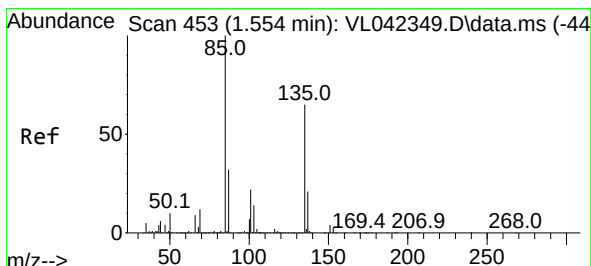
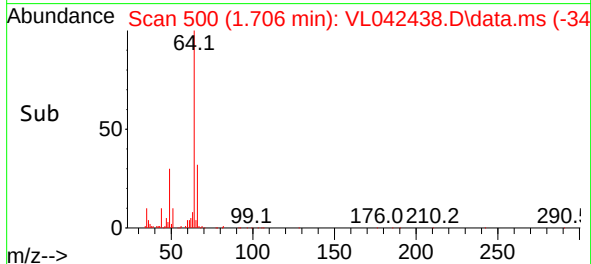
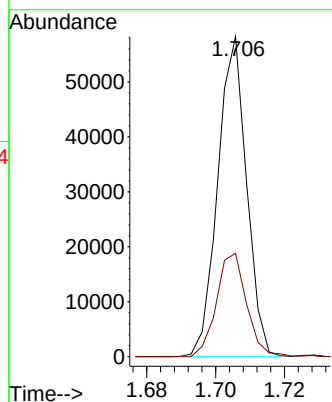
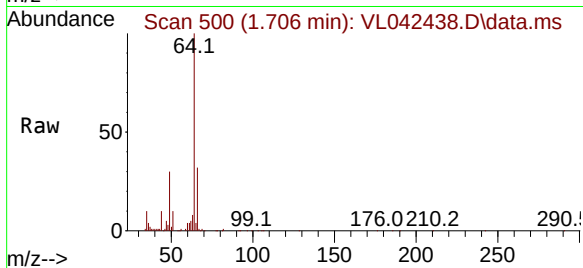




#7  
Chloroethane  
Concen: 10.502 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

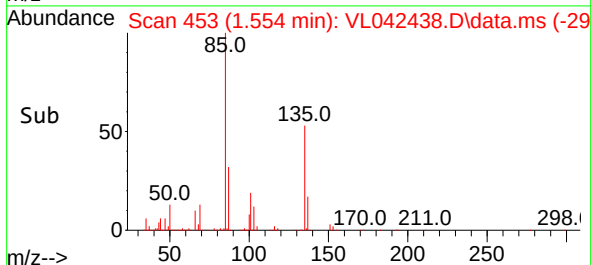
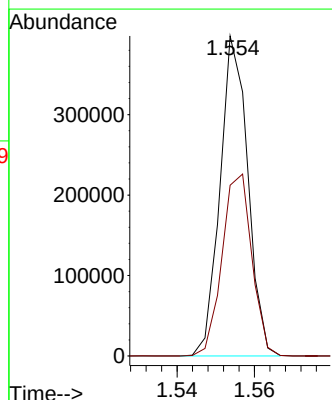
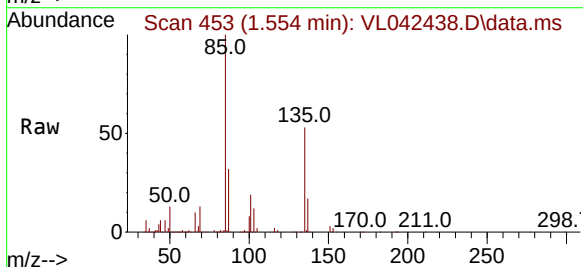
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

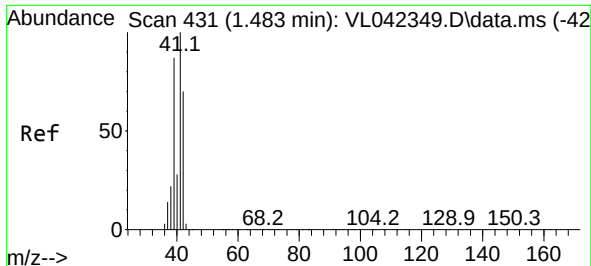
Tgt Ion: 64 Resp: 33756  
Ion Ratio Lower Upper  
64 100  
66 32.3 24.6 37.0



#8  
Dichlorotetrafluoroethane  
Concen: 11.184 ppbv  
RT: 1.554 min Scan# 453  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 85 Resp: 198106  
Ion Ratio Lower Upper  
85 100  
135 61.2 52.2 78.2





#9

Propene

Concen: 7.836 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

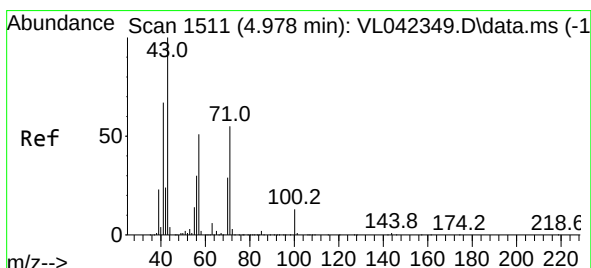
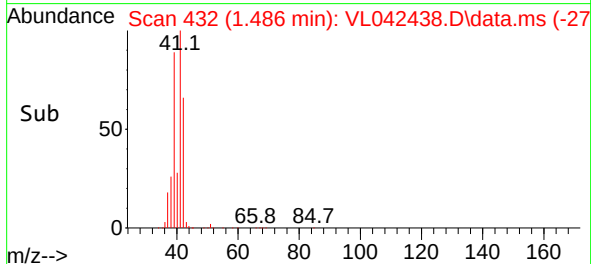
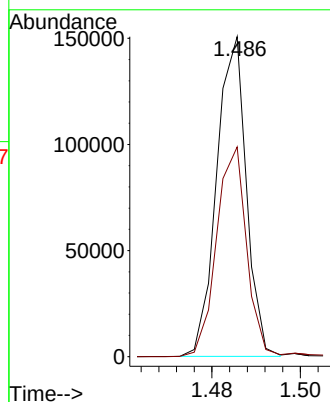
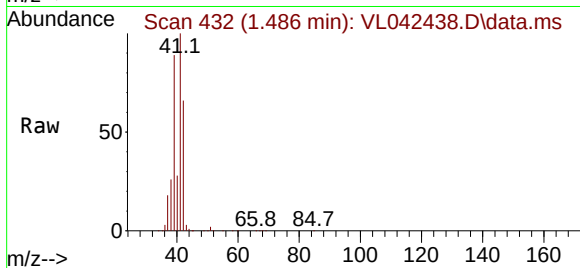
VL0429ABS01

Tgt Ion: 41 Resp: 70111

Ion Ratio Lower Upper

41 100

42 67.7 56.2 84.4



#10

Heptane

Concen: 7.582 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.003 min

Lab File: VL042438.D

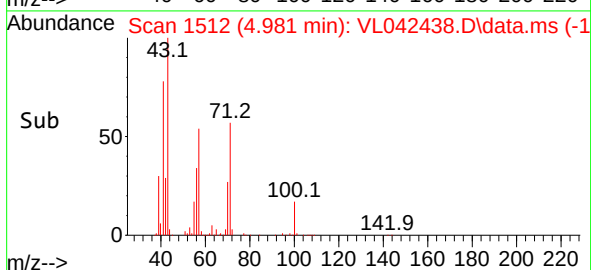
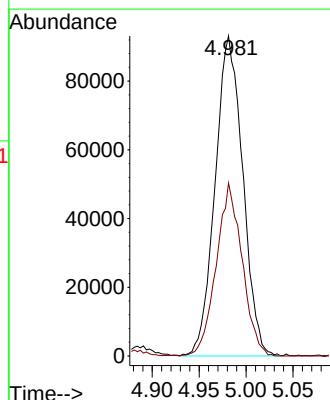
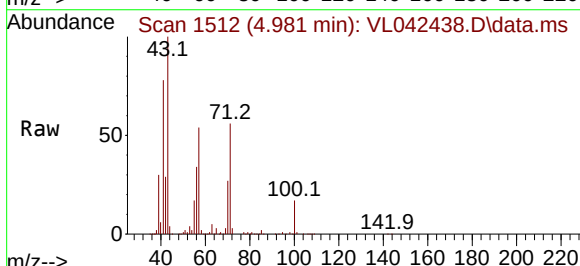
Acq: 29 Apr 2025 10:08

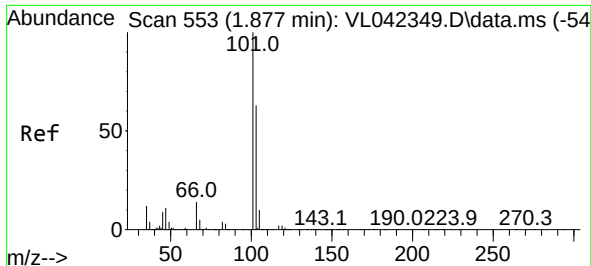
Tgt Ion: 43 Resp: 190583

Ion Ratio Lower Upper

43 100

57 50.6 39.9 59.9

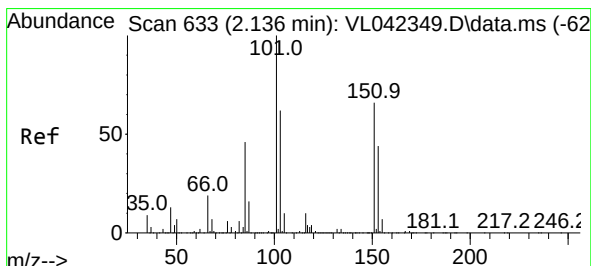
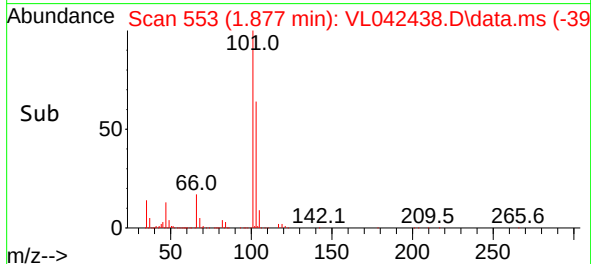
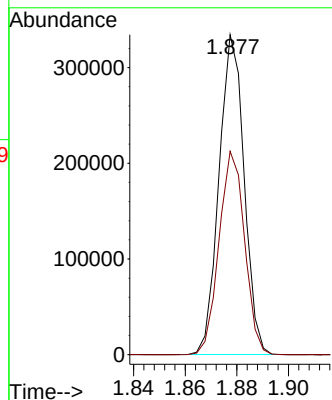
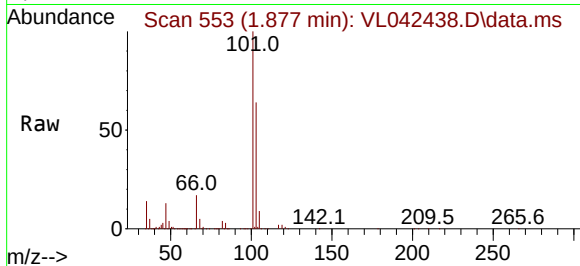




#11  
 Trichlorofluoromethane  
 Concen: 11.484 ppbv  
 RT: 1.877 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

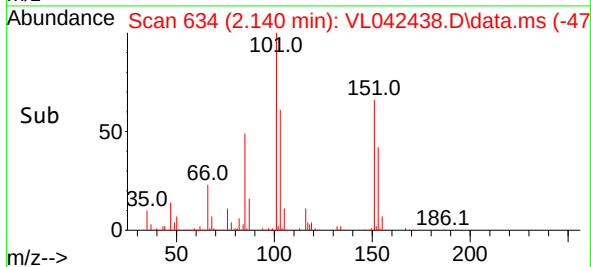
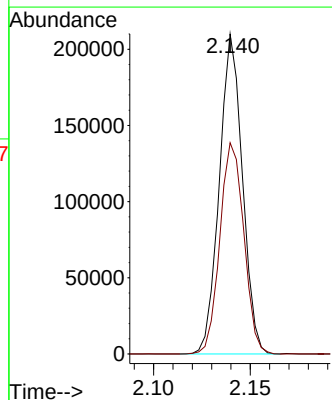
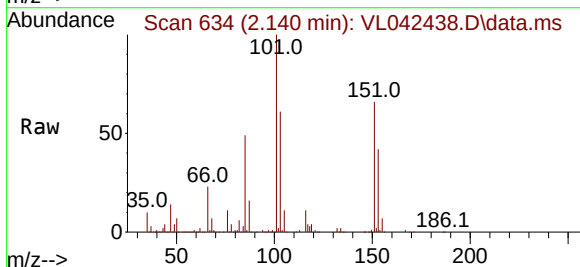
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

Tgt Ion:101 Resp: 225308  
 Ion Ratio Lower Upper  
 101 100  
 103 63.6 50.1 75.1

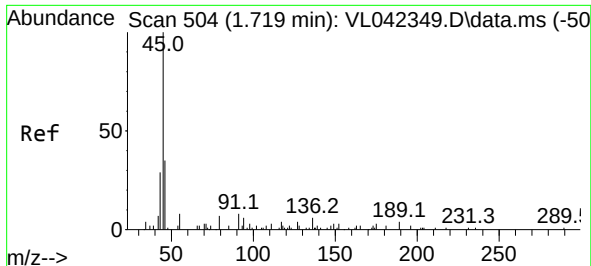


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.854 ppbv  
 RT: 2.140 min Scan# 634  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion:101 Resp: 174111  
 Ion Ratio Lower Upper  
 101 100  
 151 68.5 57.0 85.6



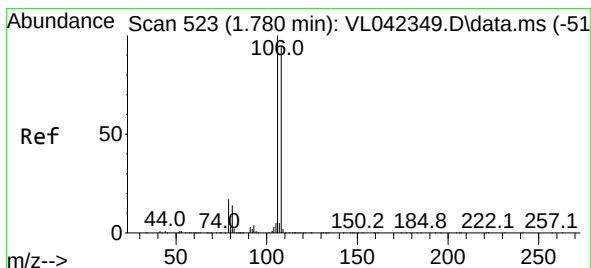
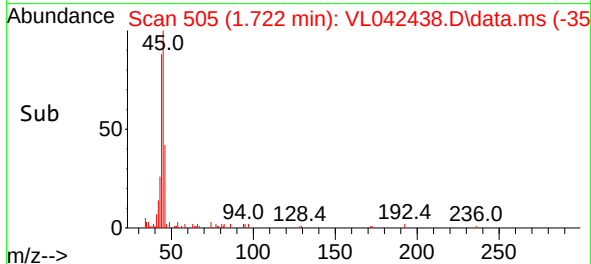
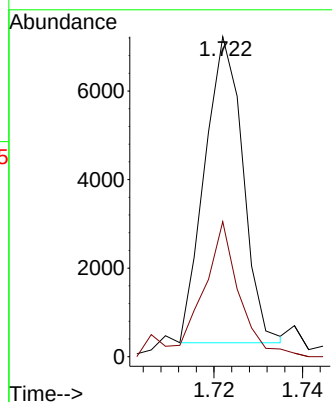
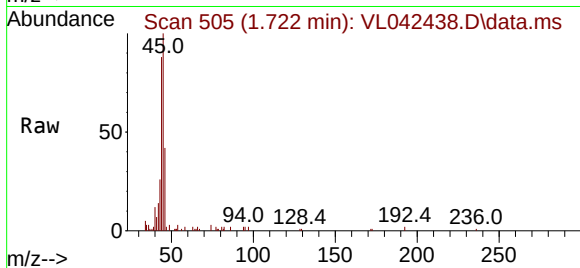




#13  
 Ethanol  
 Concen: 2.909 ppbv  
 RT: 1.722 min Scan# 504  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

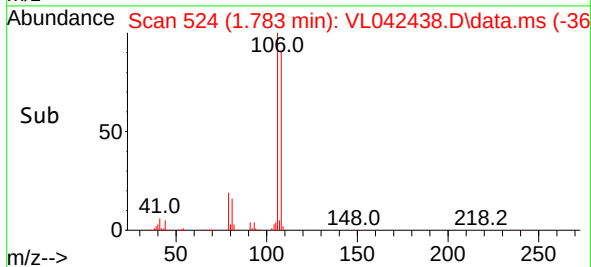
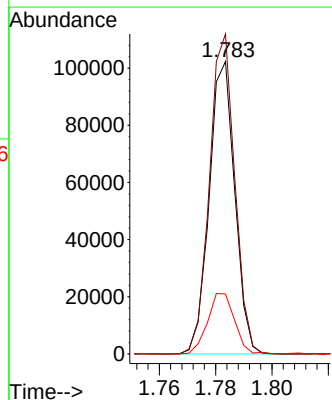
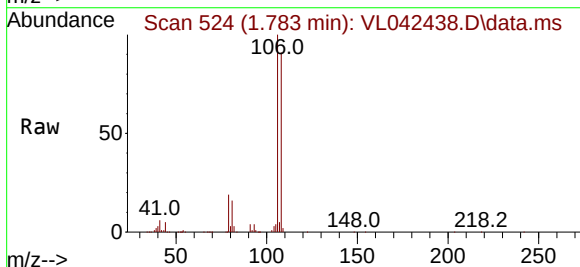
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0429ABS01

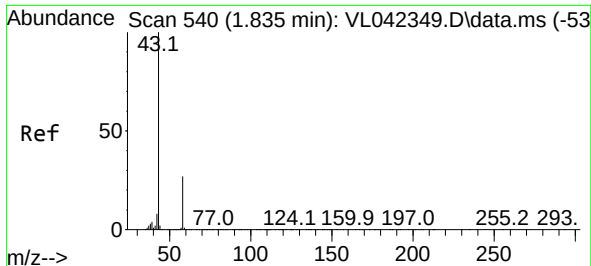
Tgt Ion: 45 Resp: 4137  
 Ion Ratio Lower Upper  
 45 100  
 46 47.5 21.9 87.7



#14  
 Bromoethene  
 Concen: 10.674 ppbv  
 RT: 1.783 min Scan# 524  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 108 Resp: 64544  
 Ion Ratio Lower Upper  
 108 100  
 106 108.0 85.9 128.9  
 79 22.1 13.9 20.9#

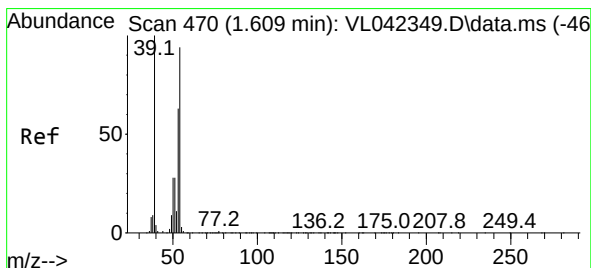
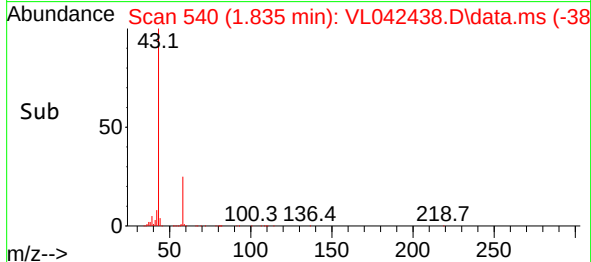
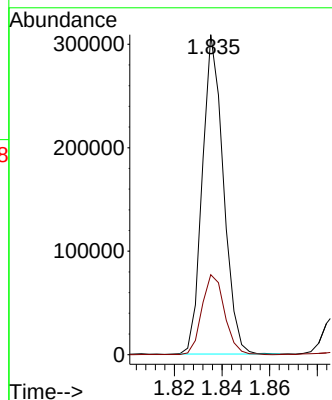
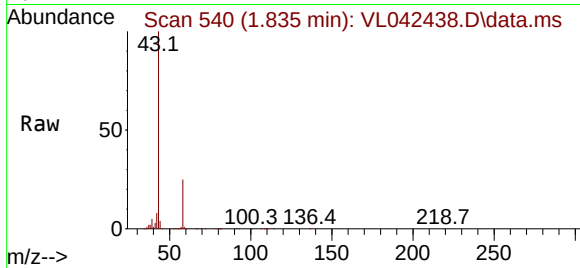




#15  
Acetone  
Concen: 9.910 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

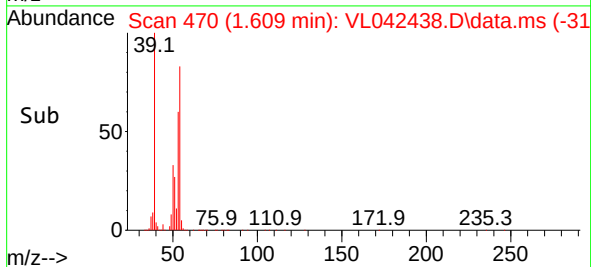
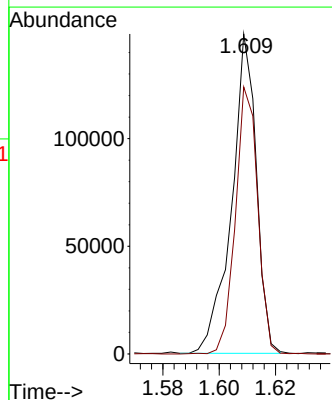
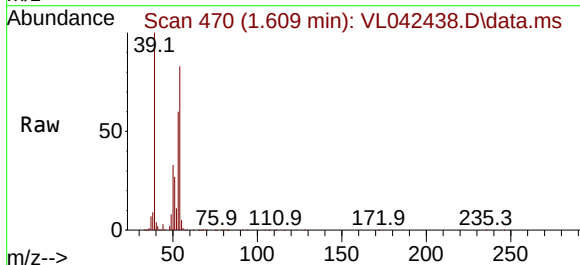
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0429ABS01

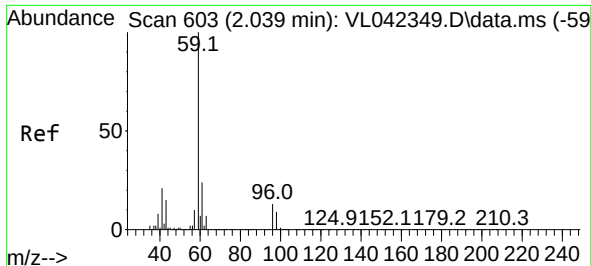
Tgt Ion: 43 Resp: 189432  
Ion Ratio Lower Upper  
43 100  
58 27.1 22.4 33.6



#16  
1,3-Butadiene  
Concen: 9.895 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 39 Resp: 90473  
Ion Ratio Lower Upper  
39 100  
54 75.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.718 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

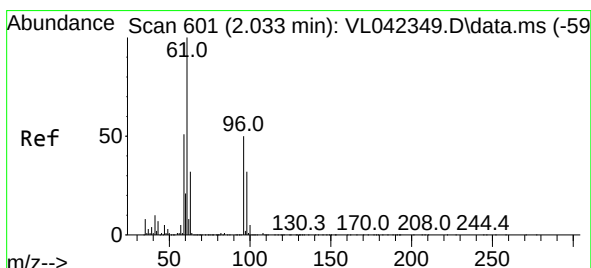
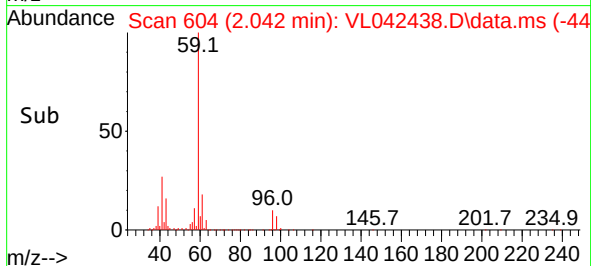
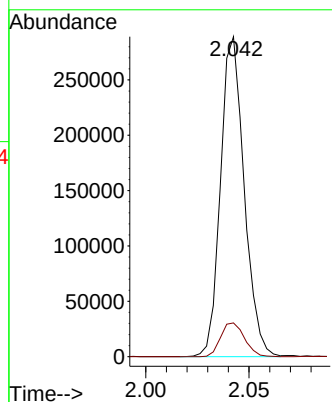
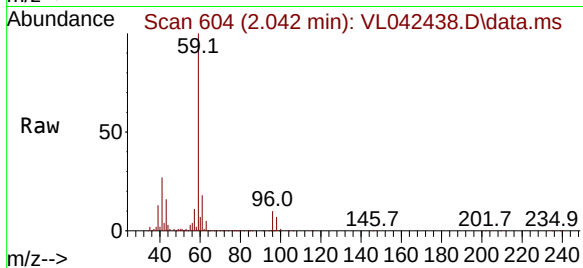
VL0429ABS01

Tgt Ion: 59 Resp: 230217

Ion Ratio Lower Upper

59 100

57 10.7 8.7 13.1



#18

1,1-Dichloroethene

Concen: 10.241 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

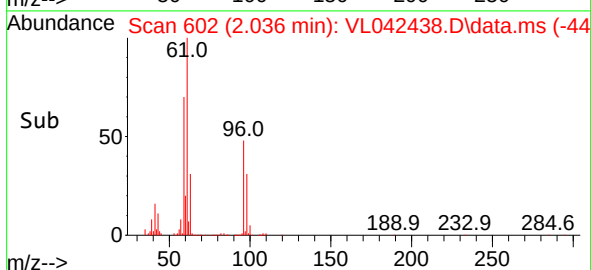
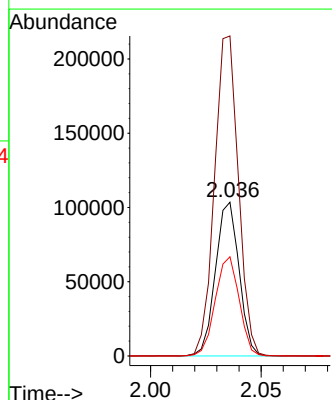
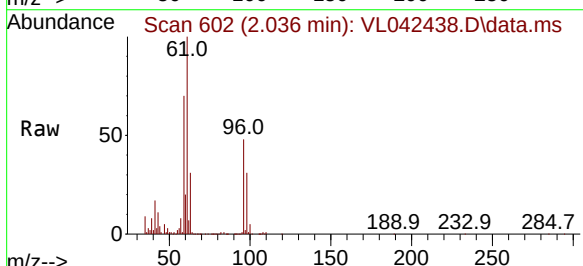
Tgt Ion: 96 Resp: 76749

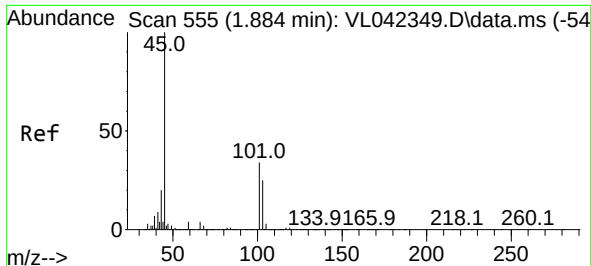
Ion Ratio Lower Upper

96 100

61 208.1 160.2 240.2

98 64.5 51.0 76.4

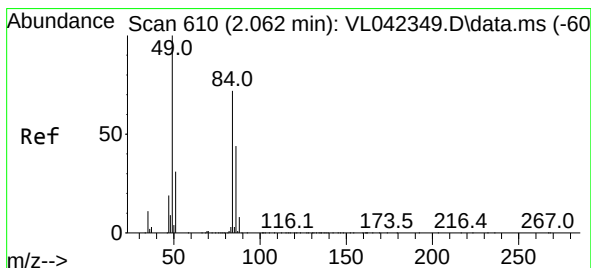
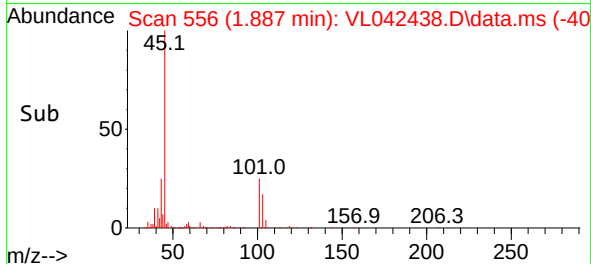
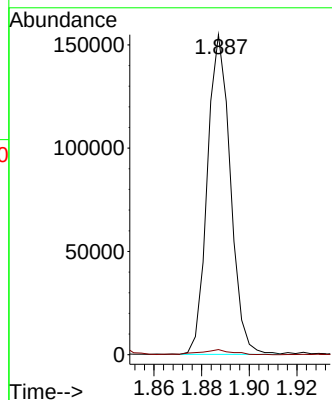
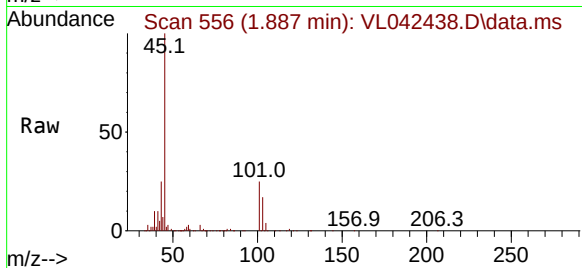




#19  
Isopropyl Alcohol  
Concen: 9.765 ppbv  
RT: 1.887 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

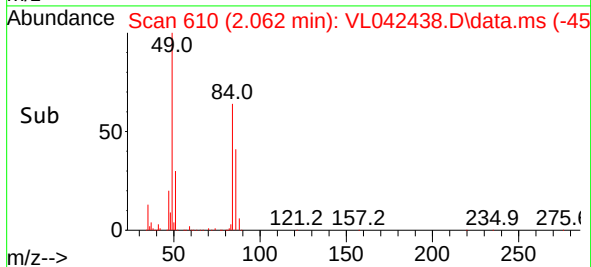
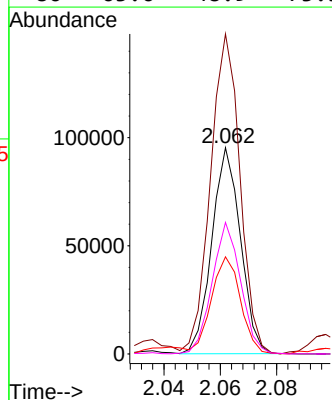
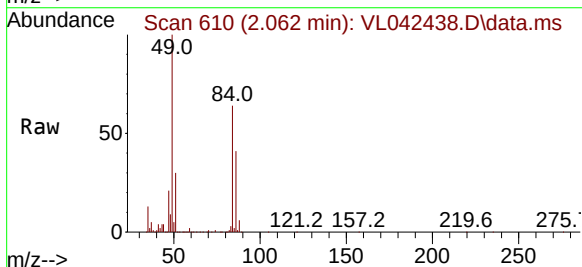
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0429ABS01

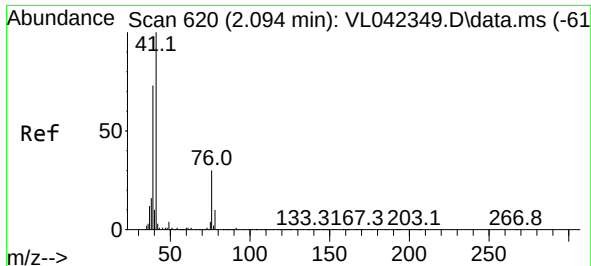
Tgt Ion: 45 Resp: 103692  
Ion Ratio Lower Upper  
45 100  
58 2.2 34.5 51.7#



#20  
Methylene Chloride  
Concen: 8.989 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 84 Resp: 67298  
Ion Ratio Lower Upper  
84 100  
49 155.2 111.6 167.4  
51 47.0 35.1 52.7  
86 63.6 48.9 73.3

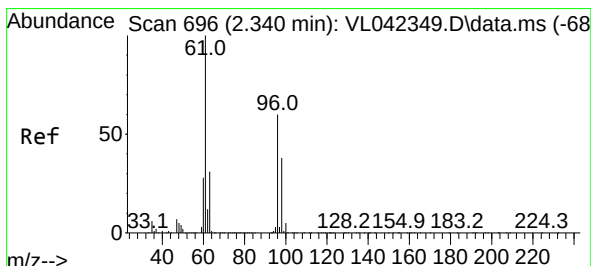
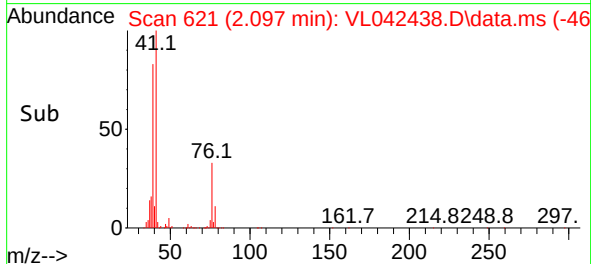
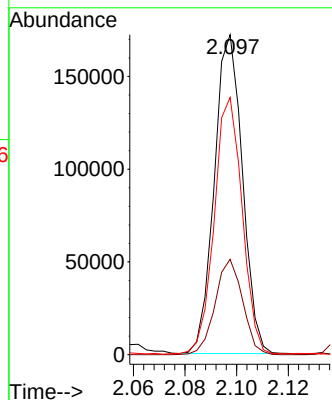
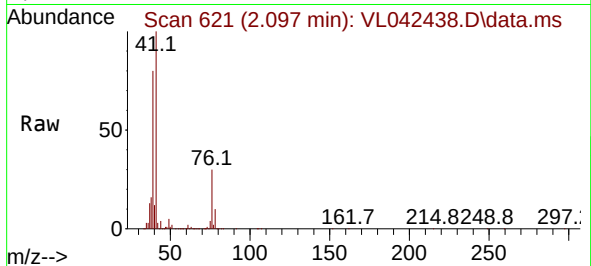




#21  
 Allyl Chloride  
 Concen: 9.851 ppbv  
 RT: 2.097 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

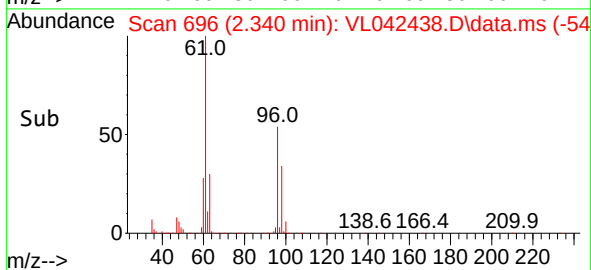
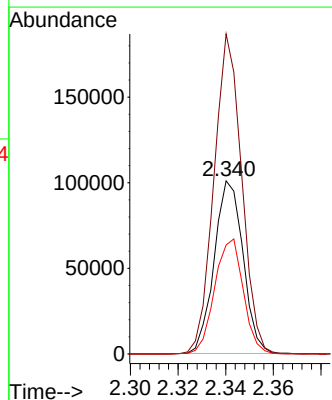
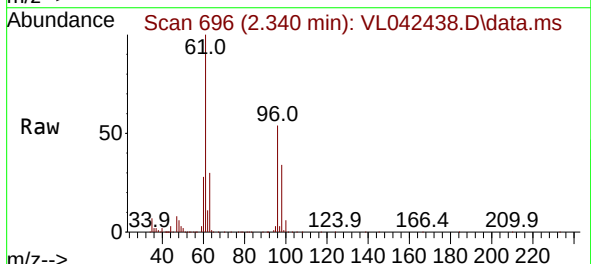
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0429ABS01

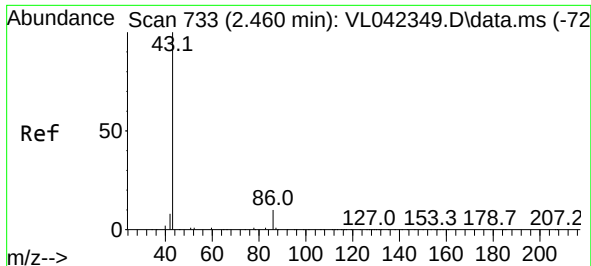
Tgt Ion: 41 Resp: 130014  
 Ion Ratio Lower Upper  
 41 100  
 76 29.2 24.8 37.2  
 39 80.1 60.6 90.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.938 ppbv  
 RT: 2.340 min Scan# 696  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 96 Resp: 84797  
 Ion Ratio Lower Upper  
 96 100  
 61 185.1 133.7 200.5  
 98 63.1 50.3 75.5

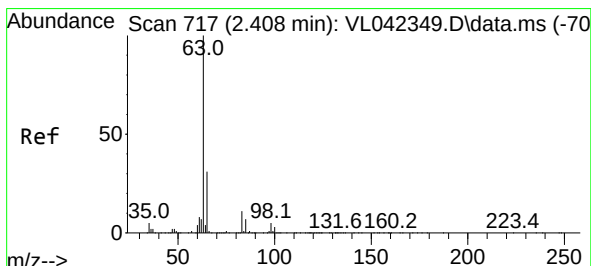
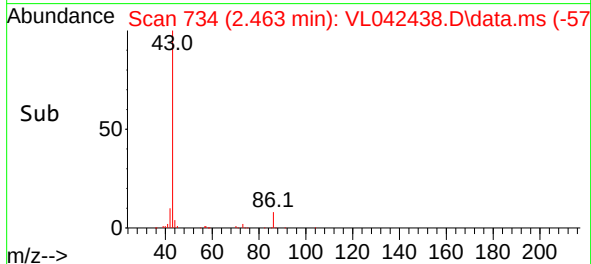
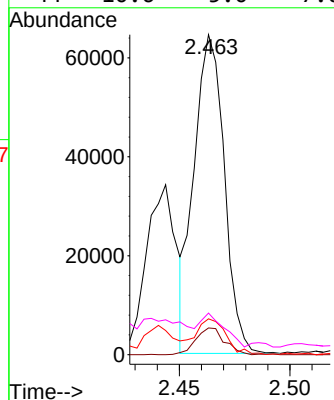
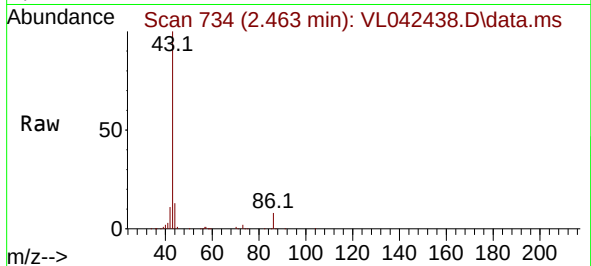




#23  
 Vinyl Acetate  
 Concen: 7.888 ppbv  
 RT: 2.463 min Scan# 717  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

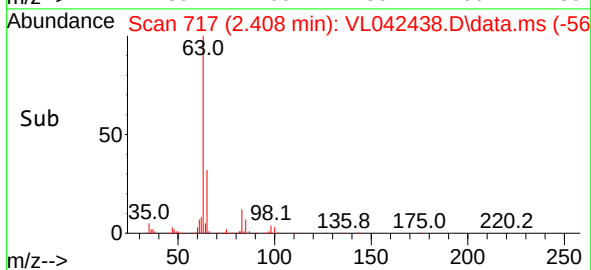
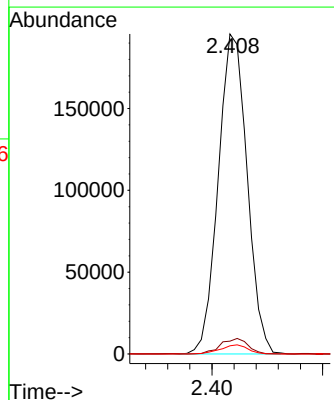
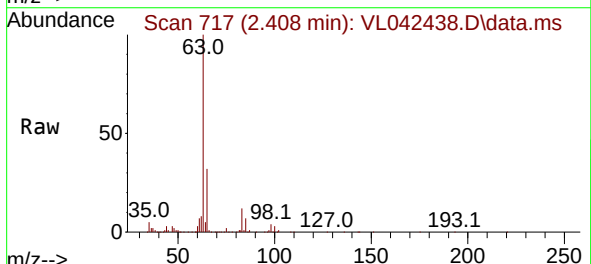
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

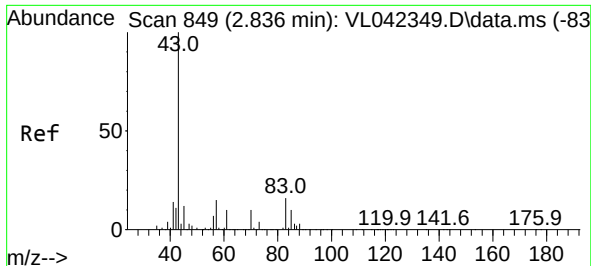
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 61036 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 8.4      | 6.5 9.7     |
| 42 11.0     | 7.8 11.8    |
| 44 10.6     | 5.0 7.6#    |



#24  
 1,1-Dichloroethane  
 Concen: 10.934 ppbv  
 RT: 2.408 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 177233 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 98 4.0      | 2.3 6.8      |
| 100 2.6     | 1.6 4.8      |



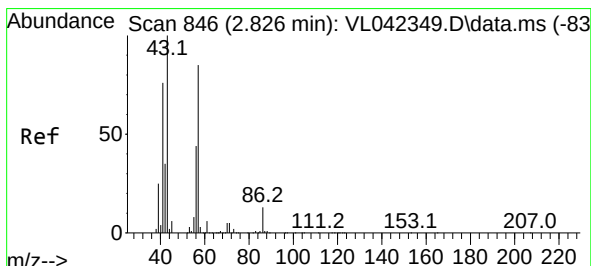
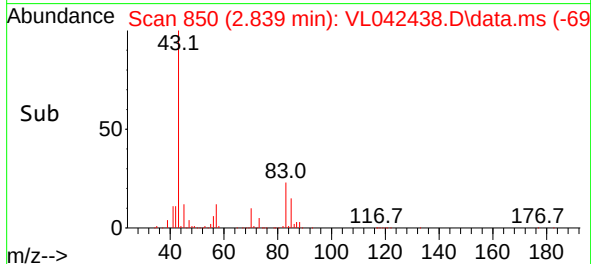
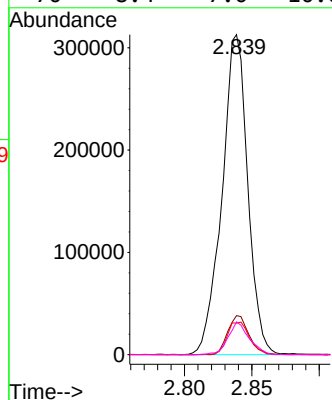
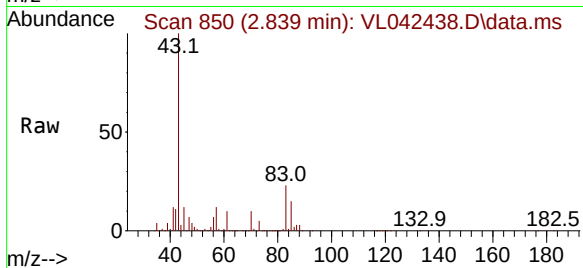


#25  
Ethyl Acetate  
Concen: 8.836 ppbv  
RT: 2.839 min Scan# 849  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 43 Resp: 416465

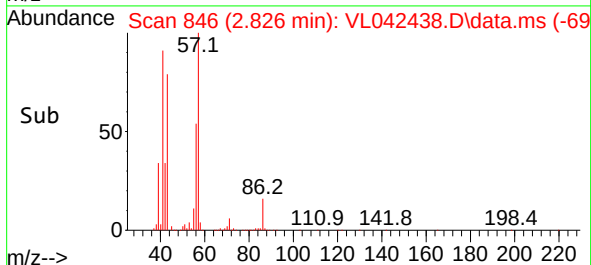
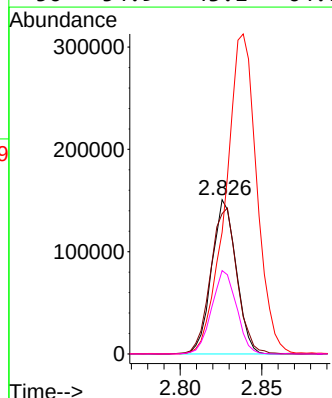
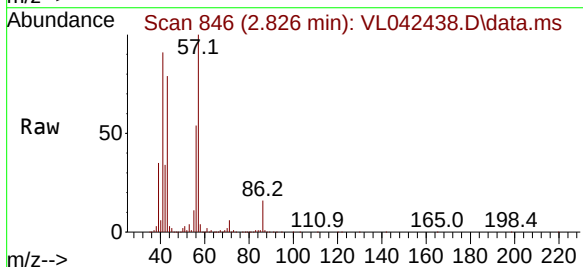
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 8.3   | 12.5  |
| 61  | 8.8   | 7.3   | 10.9  |
| 70  | 8.4   | 7.0   | 10.6  |

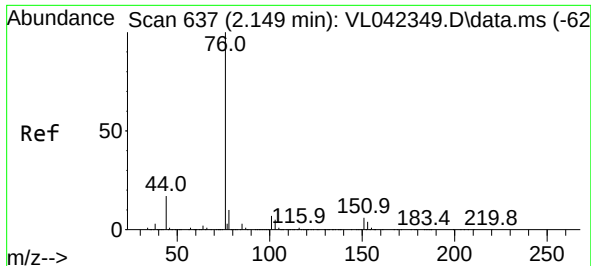


#26  
Hexane  
Concen: 8.260 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 157544

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 103.2 | 77.9  | 116.9 |
| 43  | 265.6 | 208.4 | 312.6 |
| 56  | 54.9  | 43.1  | 64.7  |

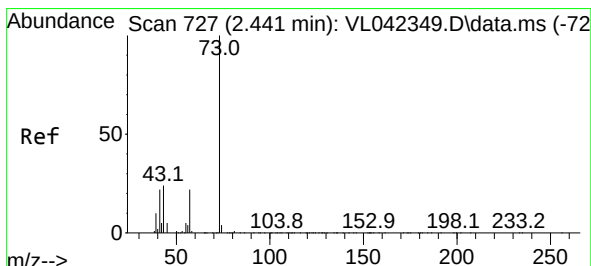
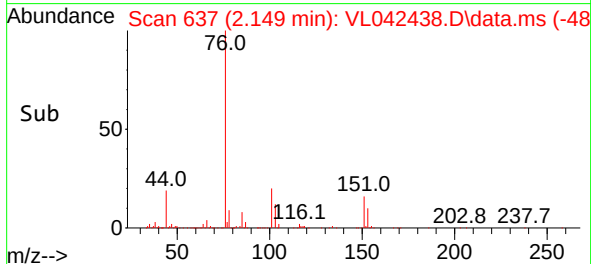
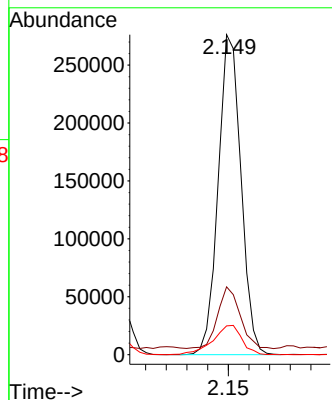
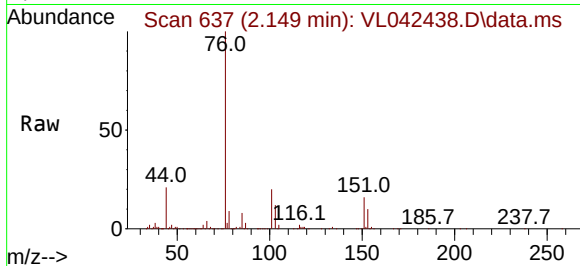




#27  
Carbon Disulfide  
Concen: 10.372 ppbv  
RT: 2.149 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

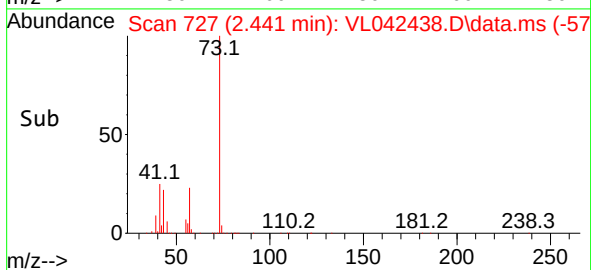
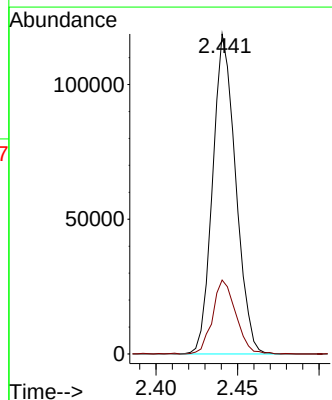
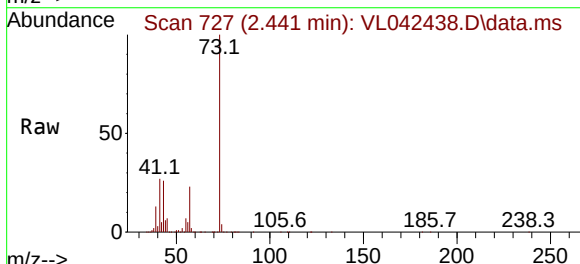
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 76 Resp: 211824  
Ion Ratio Lower Upper  
76 100  
44 19.8 15.5 23.3  
78 11.7 9.3 13.9

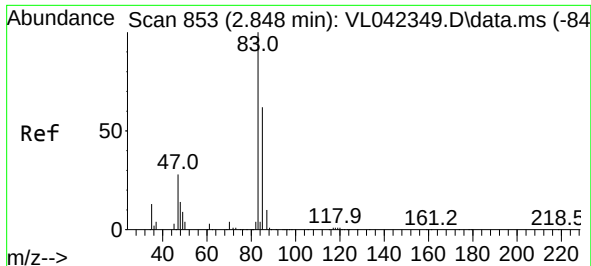


#28  
Methyl tert-Butyl Ether  
Concen: 9.344 ppbv  
RT: 2.441 min Scan# 727  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 73 Resp: 116769  
Ion Ratio Lower Upper  
73 100  
57 23.4 21.3 31.9







#29

Chloroform

Concen: 10.623 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

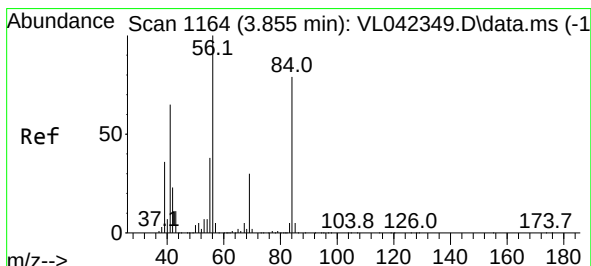
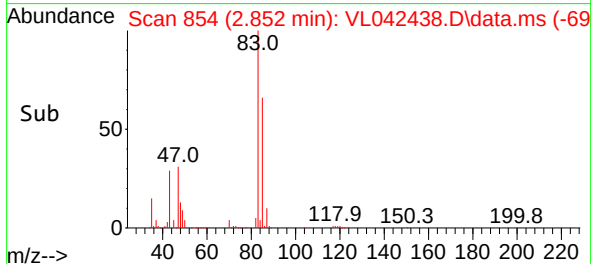
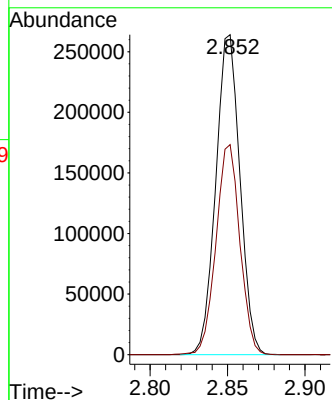
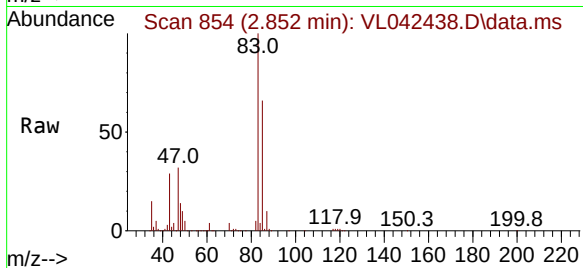
VL0429ABS01

Tgt Ion: 83 Resp: 286397

Ion Ratio Lower Upper

83 100

85 65.6 50.0 75.0



#30

Cyclohexane

Concen: 8.601 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

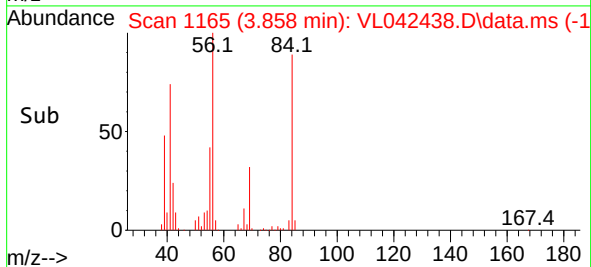
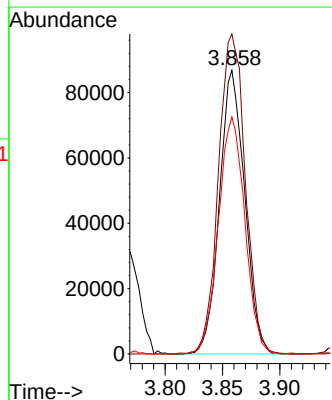
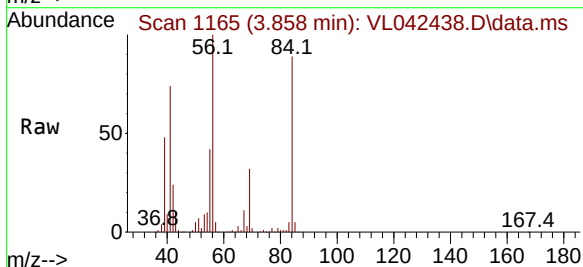
Tgt Ion: 84 Resp: 132615

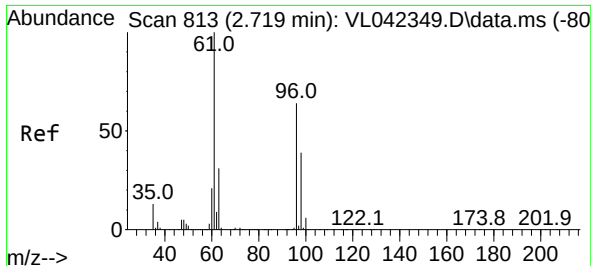
Ion Ratio Lower Upper

84 100

56 119.9 101.0 151.4

41 88.0 67.4 101.0

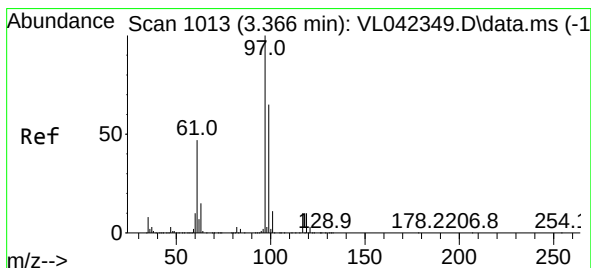
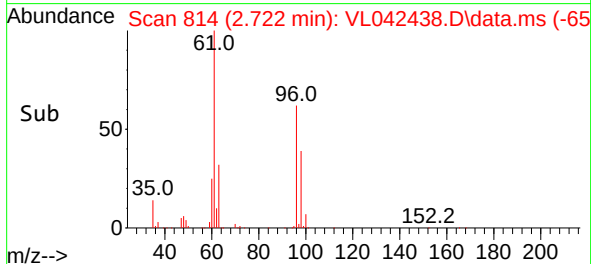
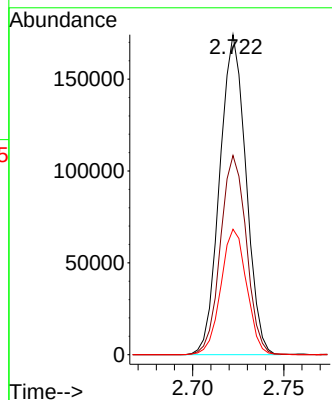
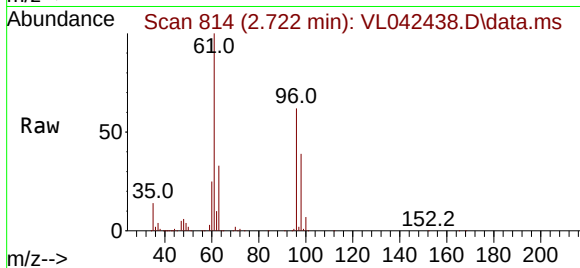




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.613 ppbv  
 RT: 2.722 min Scan# 813  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

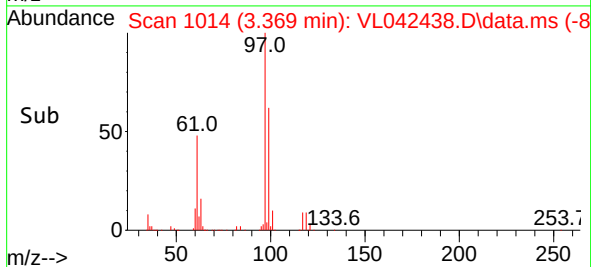
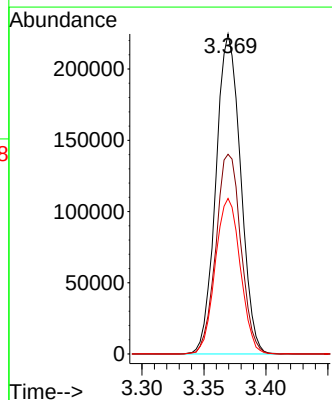
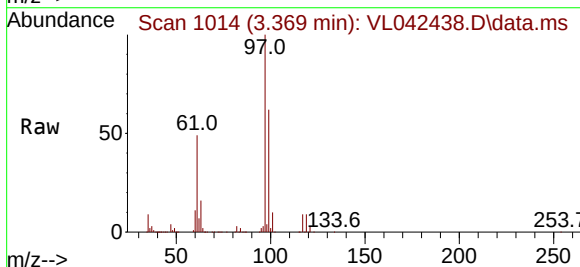
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

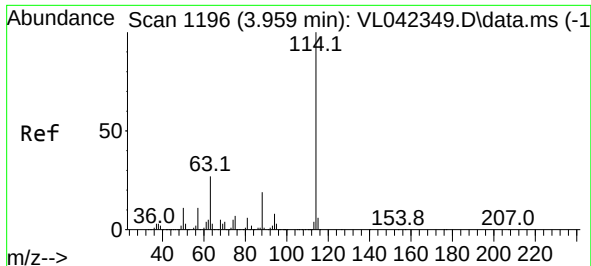
Tgt Ion: 61 Resp: 174328  
 Ion Ratio Lower Upper  
 61 100  
 96 62.3 50.8 76.2  
 98 39.2 30.9 46.3



#32  
 1,1,1-Trichloroethane  
 Concen: 10.294 ppbv  
 RT: 3.369 min Scan# 1014  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 97 Resp: 312429  
 Ion Ratio Lower Upper  
 97 100  
 99 63.2 51.0 76.4  
 61 49.4 38.8 58.2

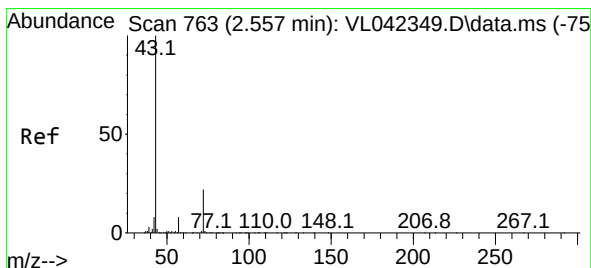
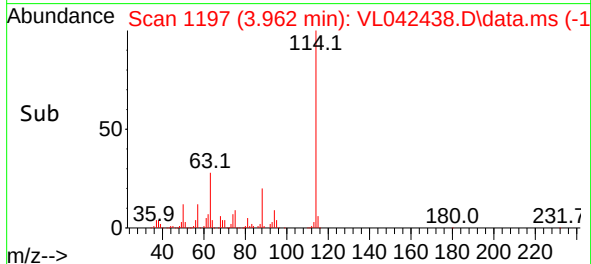
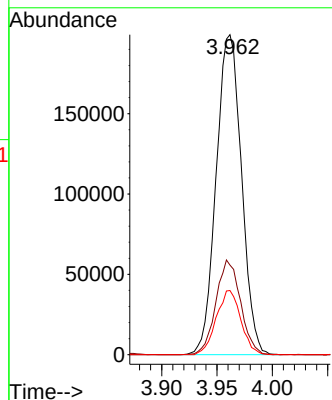
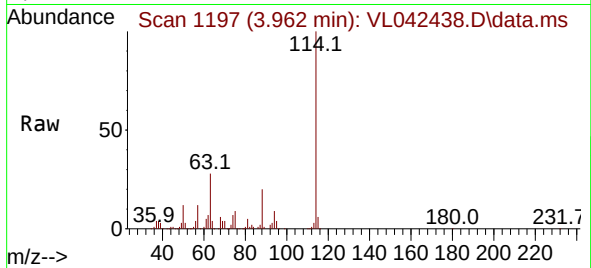




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.962 min Scan# 1196  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

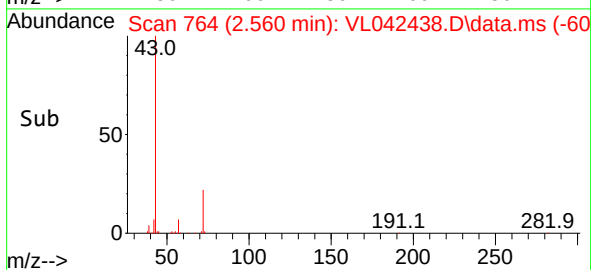
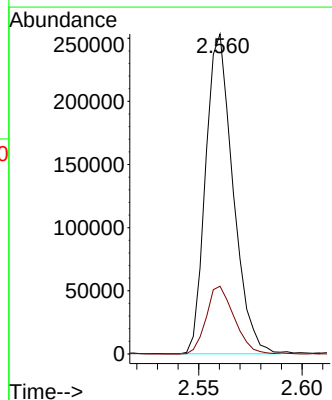
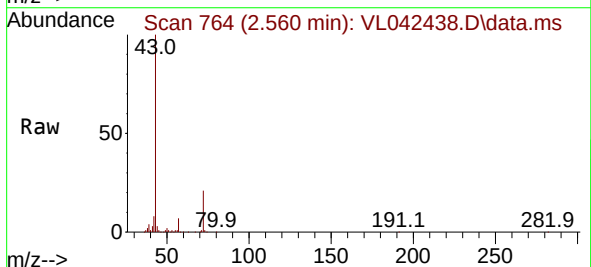
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0429ABS01

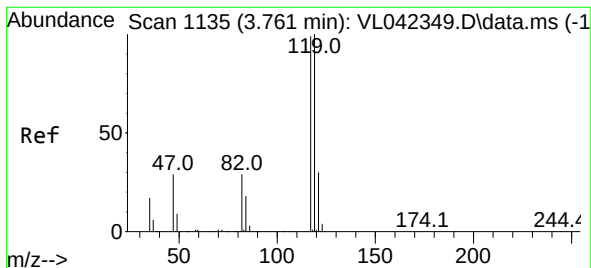
Tgt Ion:114 Resp: 317590  
 Ion Ratio Lower Upper  
 114 100  
 63 28.7 21.8 32.6  
 88 19.4 15.5 23.3



#34  
 2-Butanone  
 Concen: 9.278 ppbv  
 RT: 2.560 min Scan# 764  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 233037  
 Ion Ratio Lower Upper  
 43 100  
 72 21.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 11.036 ppbv

RT: 3.764 min Scan# 1135

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

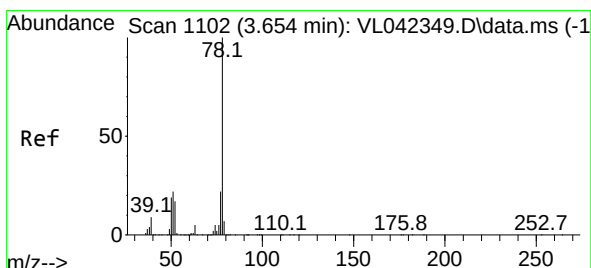
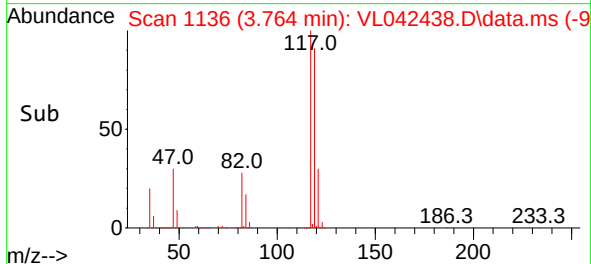
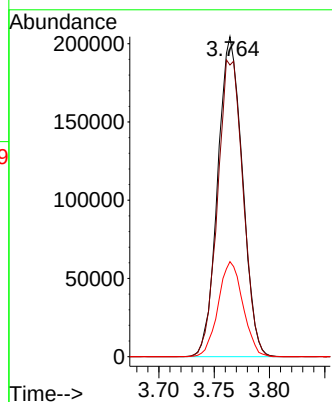
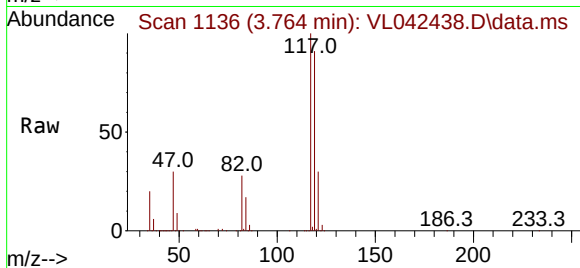
Tgt Ion:117 Resp: 317207

Ion Ratio Lower Upper

117 100

119 91.1 80.5 120.7

121 29.7 24.2 36.2



#36

Benzene

Concen: 9.264 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

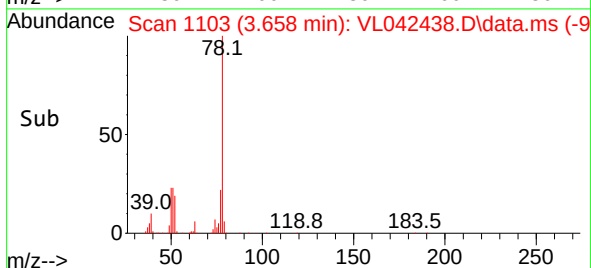
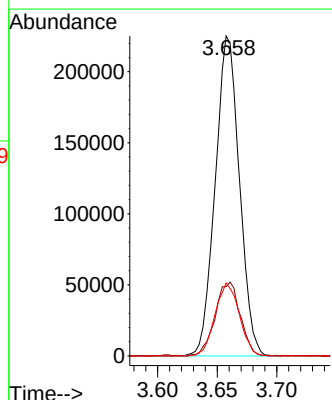
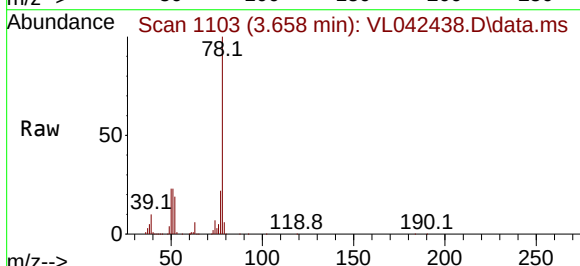
Tgt Ion: 78 Resp: 317350

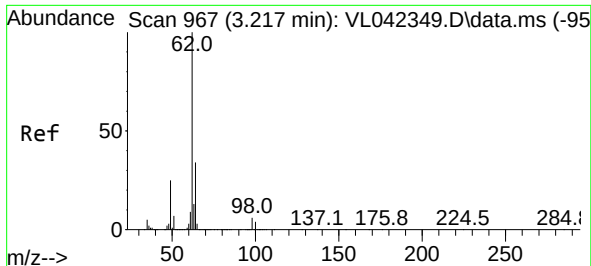
Ion Ratio Lower Upper

78 100

77 21.7 17.4 26.0

50 22.8 15.5 23.3





#37

1,2-Dichloroethane

Concen: 12.035 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

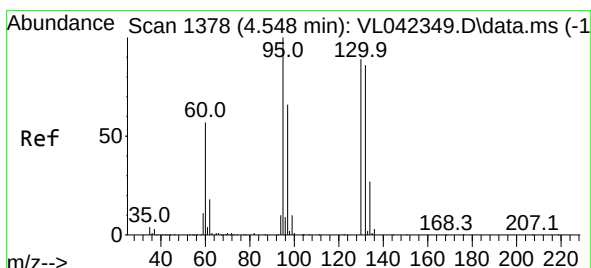
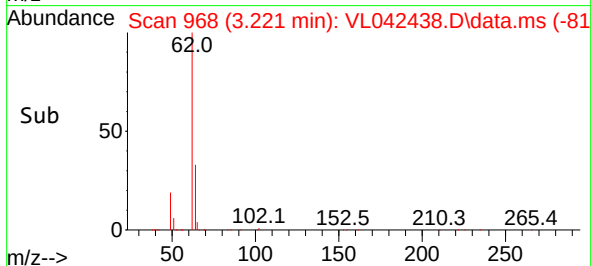
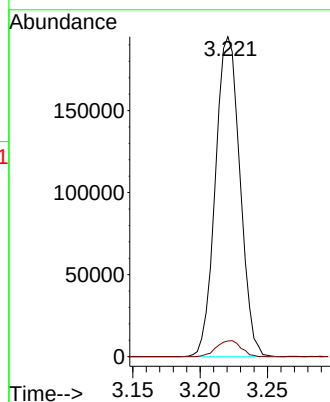
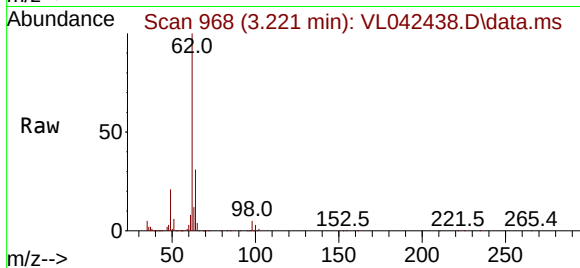
VL0429ABS01

Tgt Ion: 62 Resp: 247446

Ion Ratio Lower Upper

62 100

98 5.0 5.1 7.7#



#38

Trichloroethene

Concen: 8.523 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:130 Resp: 127601

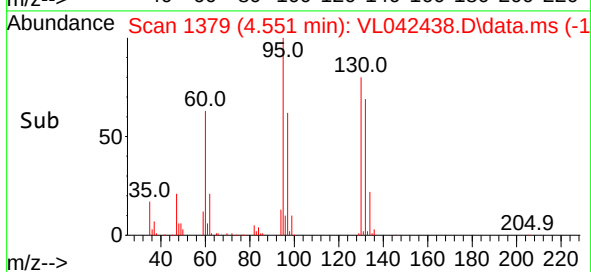
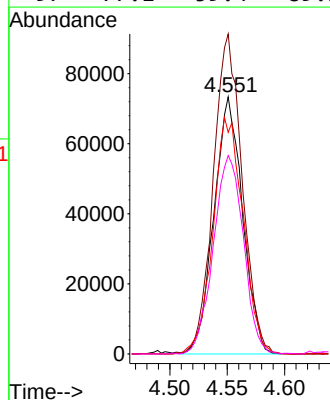
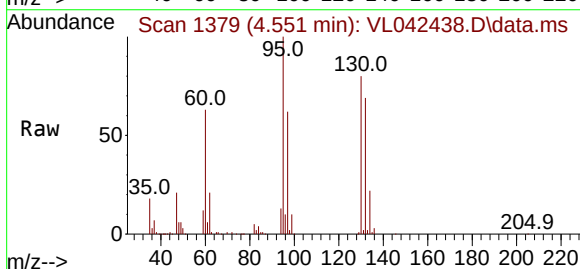
Ion Ratio Lower Upper

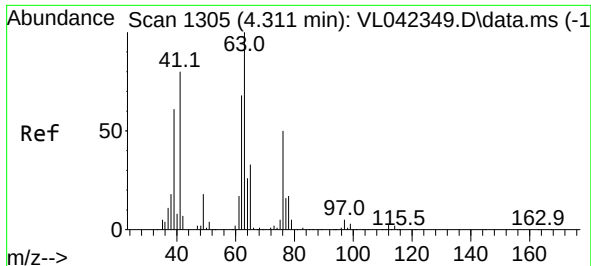
130 100

95 124.2 89.8 134.6

132 86.0 77.7 116.5

97 77.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.044 ppbv

RT: 4.318 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

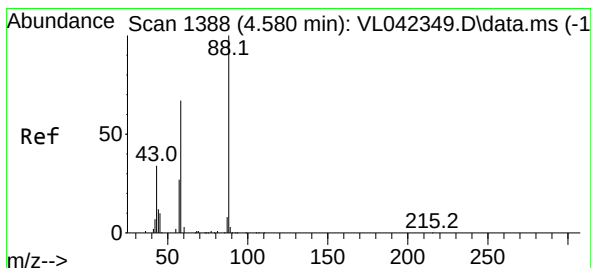
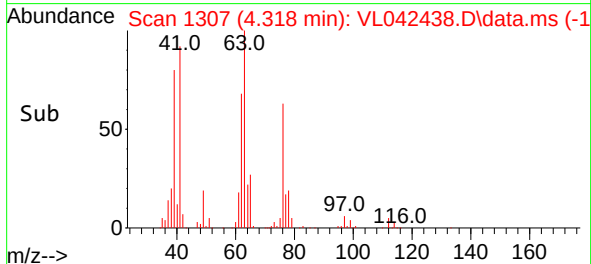
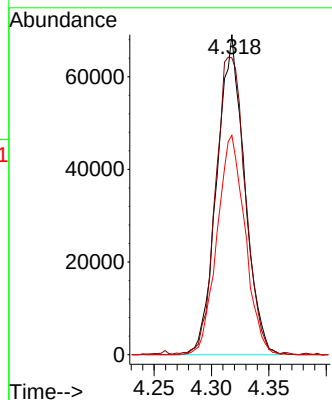
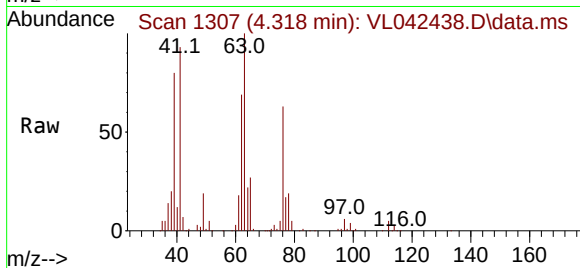
Tgt Ion: 63 Resp: 115449

Ion Ratio Lower Upper

63 100

41 92.4 64.2 96.2

62 68.4 54.3 81.5



#40

1,4-Dioxane

Concen: 7.529 ppbv

RT: 4.586 min Scan# 1390

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion: 88 Resp: 52820

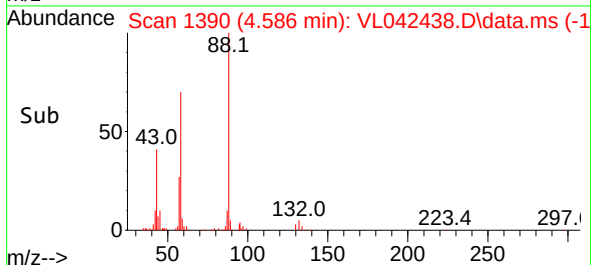
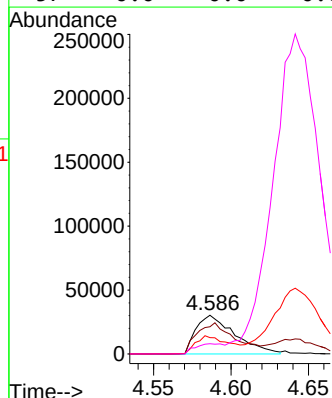
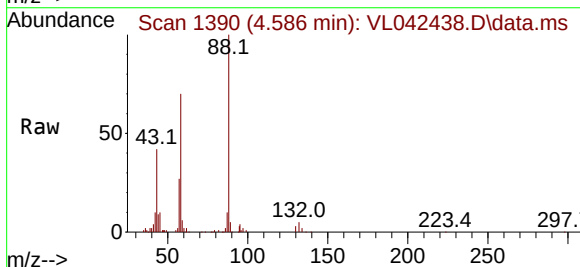
Ion Ratio Lower Upper

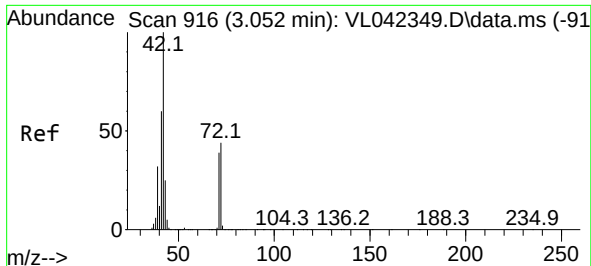
88 100

58 78.5 61.4 92.0

43 41.9 23.2 34.8

57 0.0 0.0 0.0

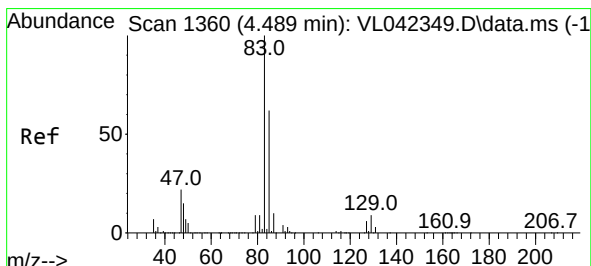
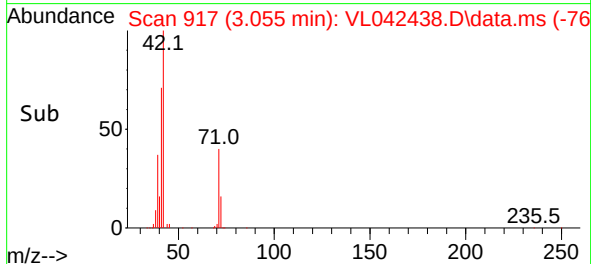
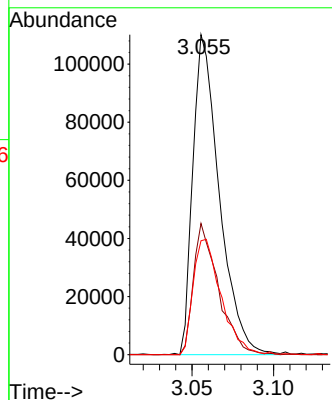
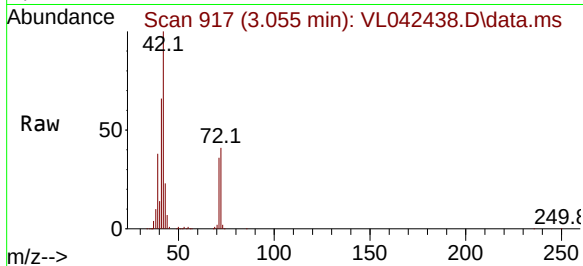




#41  
Tetrahydrofuran  
Concen: 8.471 ppbv  
RT: 3.055 min Scan# 916  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

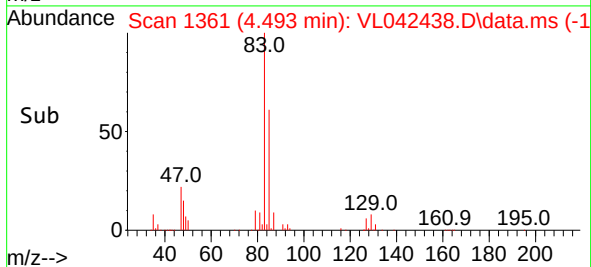
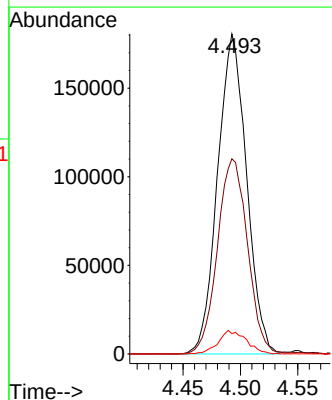
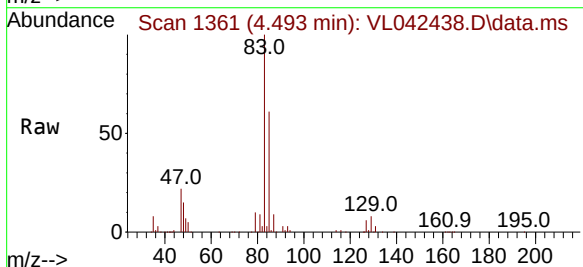
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

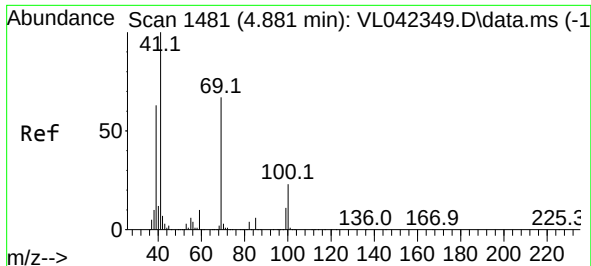
Tgt Ion: 42 Resp: 124059  
Ion Ratio Lower Upper  
42 100  
72 38.9 32.3 48.5  
71 38.4 31.4 47.2



#42  
Bromodichloromethane  
Concen: 11.088 ppbv  
RT: 4.493 min Scan# 1361  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 83 Resp: 317253  
Ion Ratio Lower Upper  
83 100  
85 61.0 49.7 74.5  
127 6.4 5.1 7.7

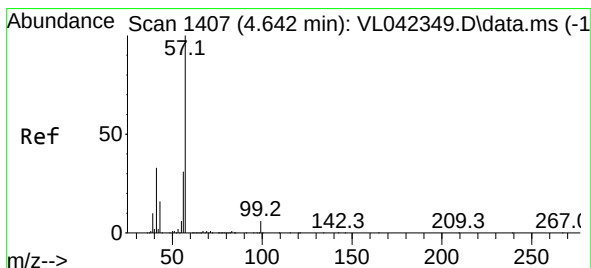
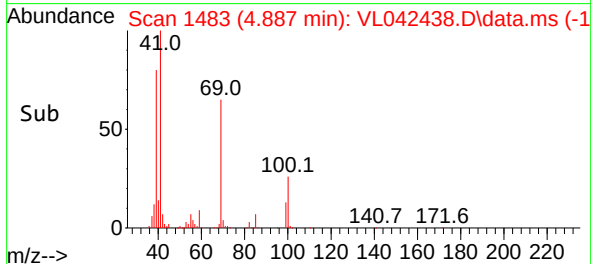
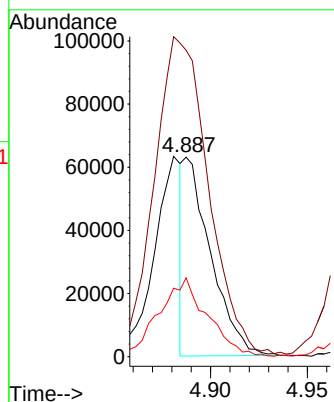
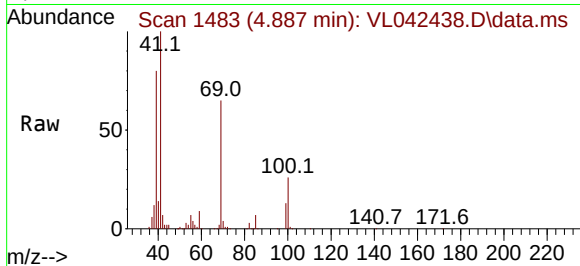




#43  
Methyl Methacrylate  
Concen: 3.961 ppbv  
RT: 4.887 min Scan# 1481  
Delta R.T. 0.006 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

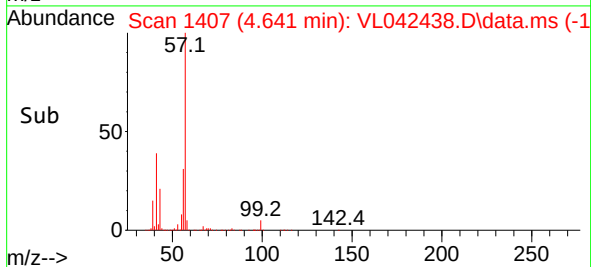
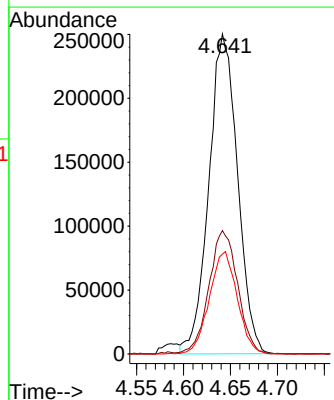
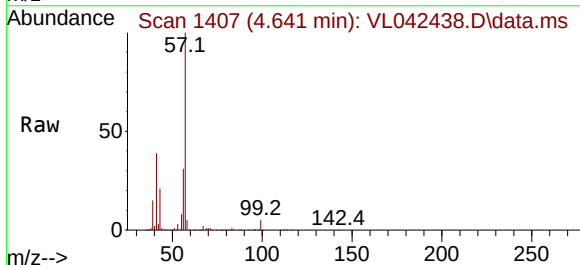
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

Tgt Ion: 69 Resp: 61150  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.6 177.8#  
100 71.6 28.2 42.2#

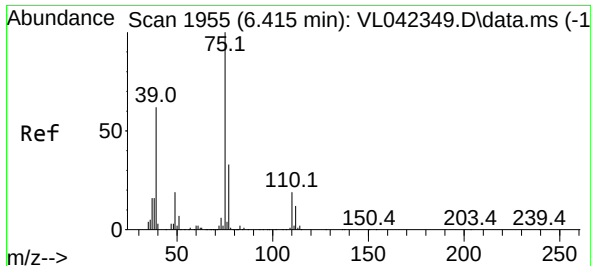


#44  
2,2,4-Trimethylpentane  
Concen: 8.983 ppbv  
RT: 4.641 min Scan# 1407  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 57 Resp: 531439  
Ion Ratio Lower Upper  
57 100  
41 39.1 27.2 40.8  
56 31.1 25.7 38.5







#45

t-1,3-Dichloropropene

Concen: 8.940 ppbv

RT: 6.418 min Scan# 1955

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_1

ClientSampleId :

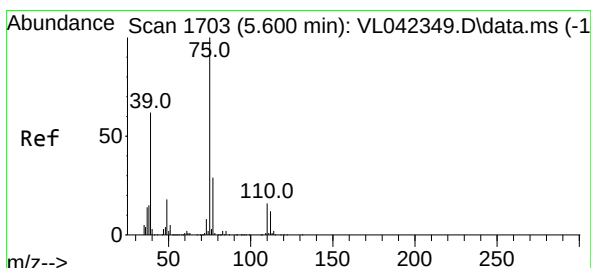
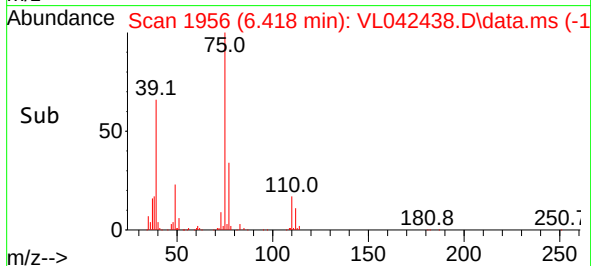
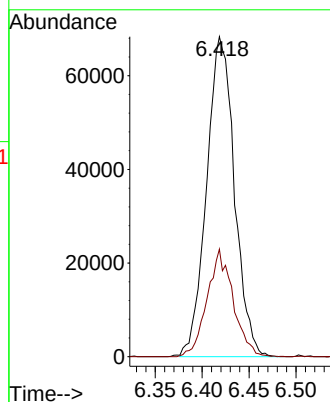
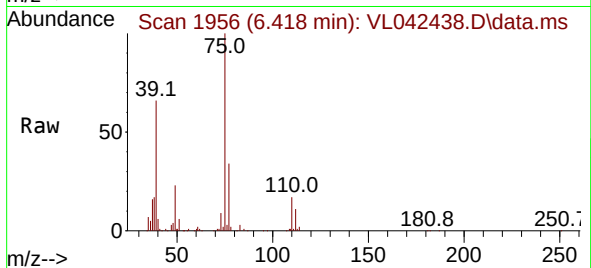
VL0429ABS01

Tgt Ion: 75 Resp: 140981

Ion Ratio Lower Upper

75 100

77 33.6 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 8.811 ppbv

RT: 5.606 min Scan# 1705

Delta R.T. 0.006 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

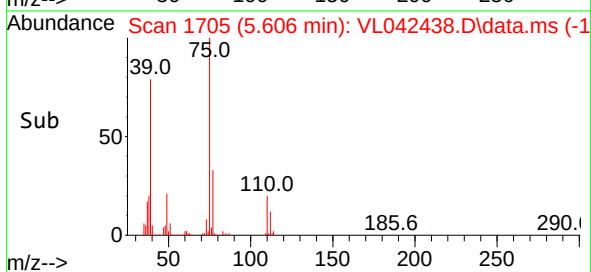
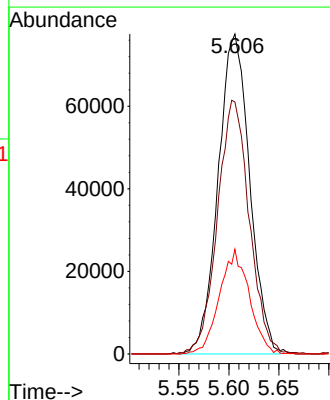
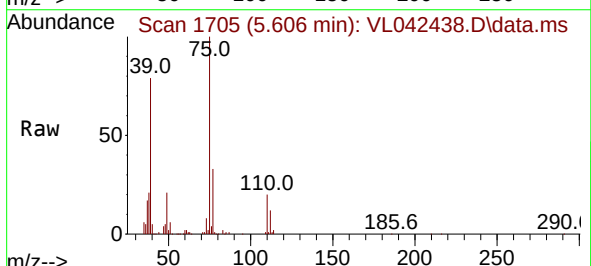
Tgt Ion: 75 Resp: 170063

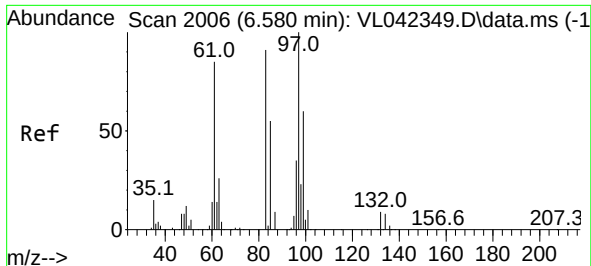
Ion Ratio Lower Upper

75 100

39 78.3 50.0 75.0#

77 32.7 23.0 34.6

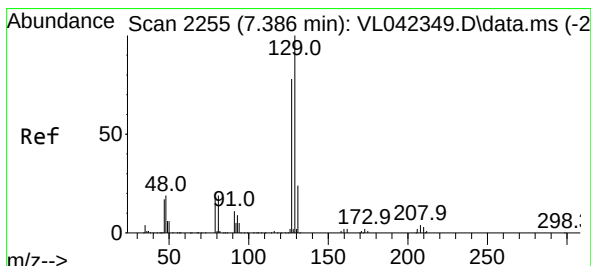
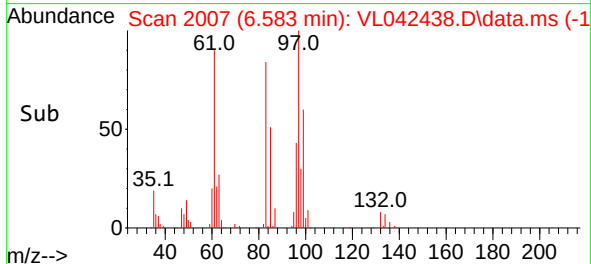
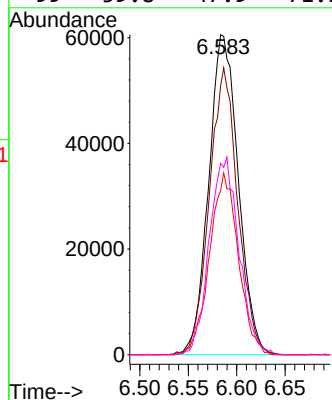
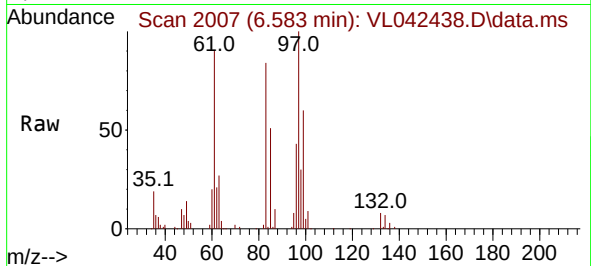




#47  
 1,1,2-Trichloroethane  
 Concen: 9.893 ppbv  
 RT: 6.583 min Scan# 2006  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

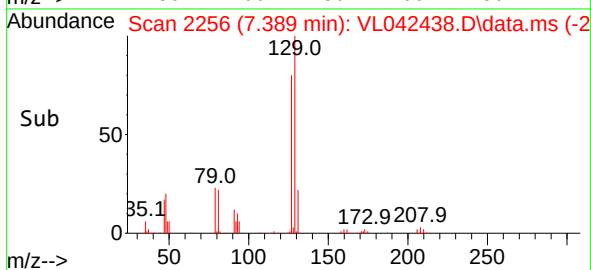
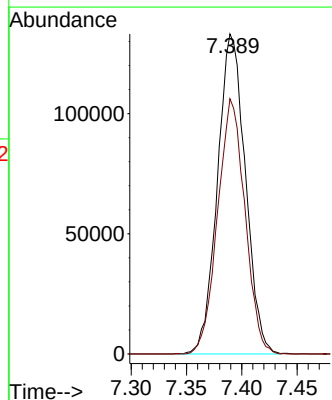
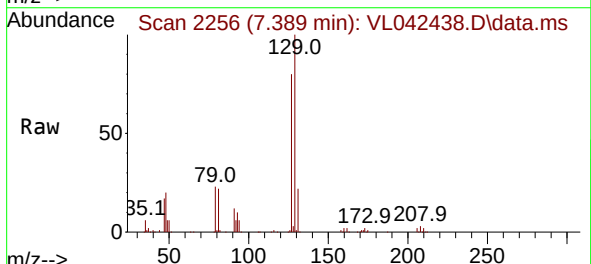
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

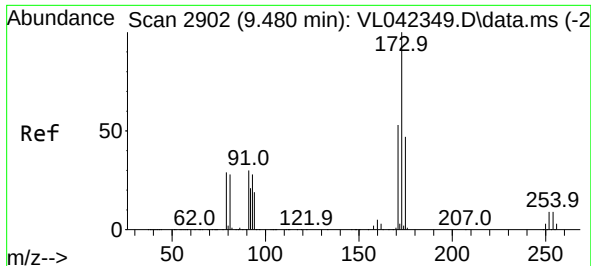
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 128662 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.0  | 72.8  | 109.2  |
| 85       | 51.4  | 44.2  | 66.4   |
| 99       | 59.8  | 47.9  | 71.9   |



#48  
 Dibromochloromethane  
 Concen: 10.156 ppbv  
 RT: 7.389 min Scan# 2256  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 233350 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.1  | 39.1  | 117.3  |

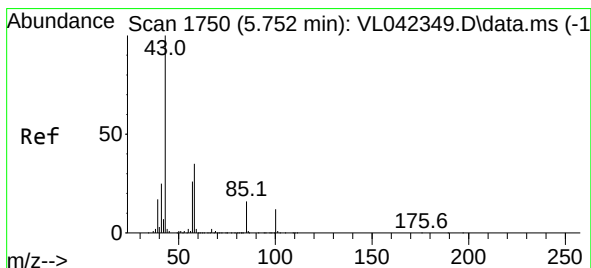
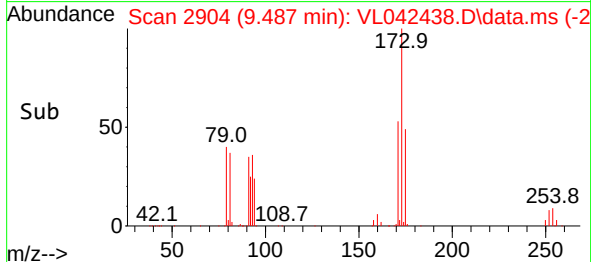
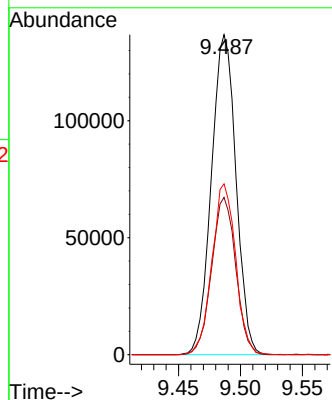
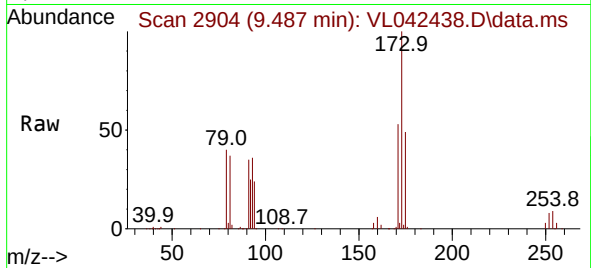




#49  
Bromoform  
Concen: 9.431 ppbv  
RT: 9.487 min Scan# 2904  
Delta R.T. 0.006 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

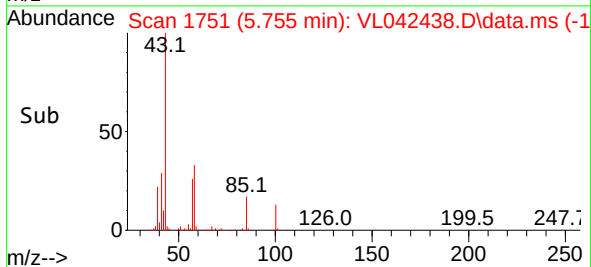
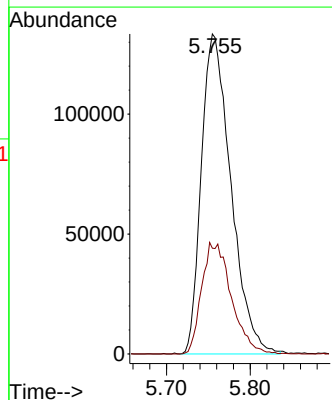
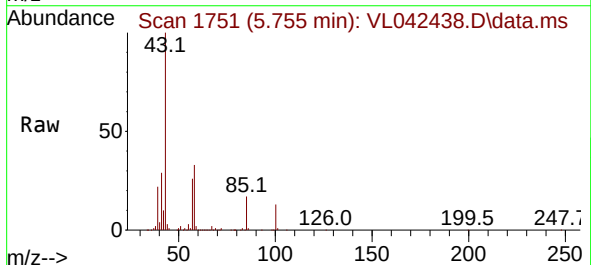
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

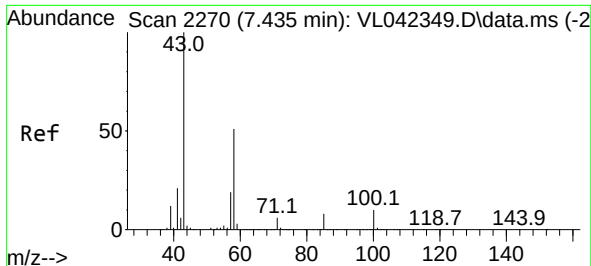
Tgt Ion:173 Resp: 189484  
Ion Ratio Lower Upper  
173 100  
175 48.2 38.2 57.2  
171 51.4 40.9 61.3



#50  
4-Methyl-2-Pentanone  
Concen: 7.846 ppbv  
RT: 5.755 min Scan# 1751  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 43 Resp: 327508  
Ion Ratio Lower Upper  
43 100  
58 34.9 28.6 43.0

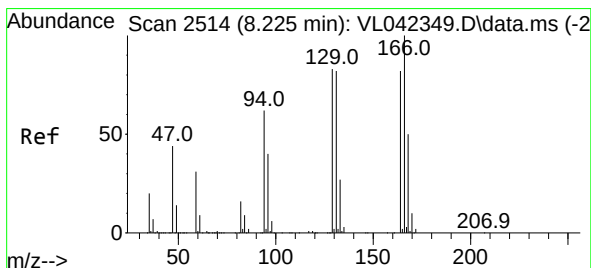
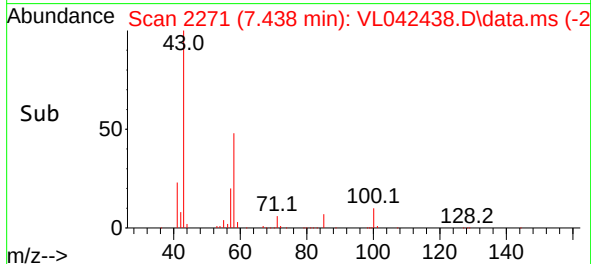
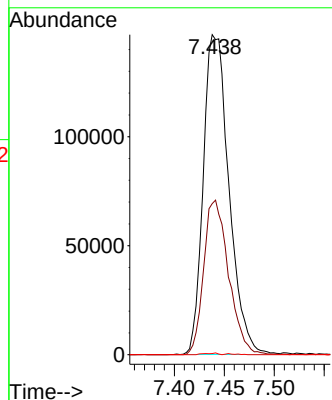
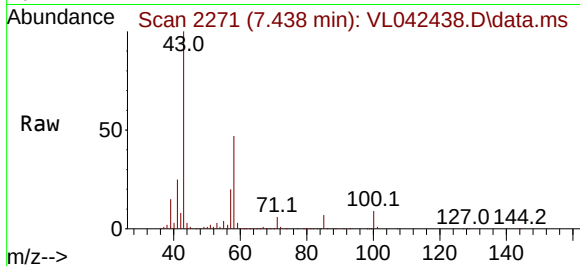




#51  
2-Hexanone  
Concen: 7.018 ppbv  
RT: 7.438 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

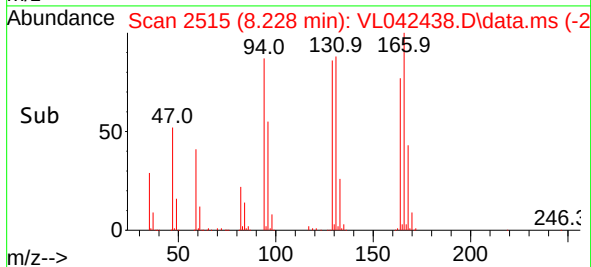
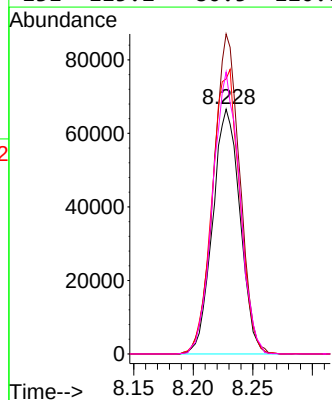
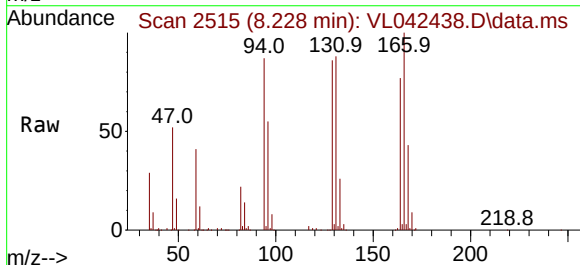
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

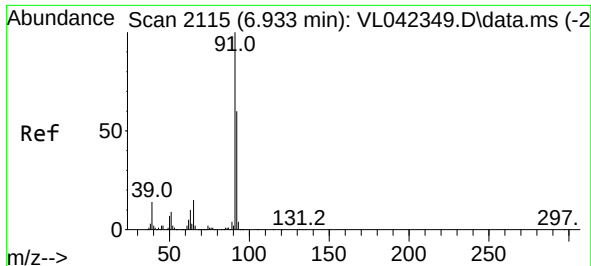
Tgt Ion: 43 Resp: 262697  
Ion Ratio Lower Upper  
43 100  
58 47.0 40.2 60.4  
98 0.4 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.008 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion:164 Resp: 106031  
Ion Ratio Lower Upper  
164 100  
166 130.7 98.2 147.2  
129 112.3 81.8 122.8  
131 115.2 80.5 120.7

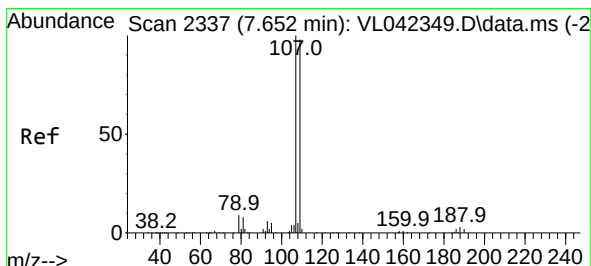
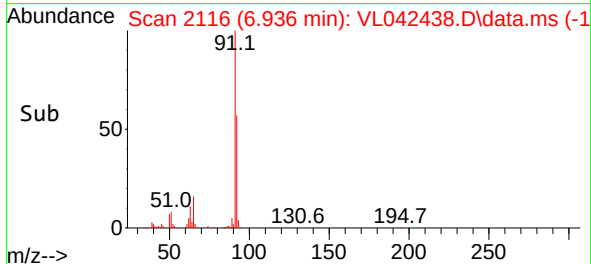
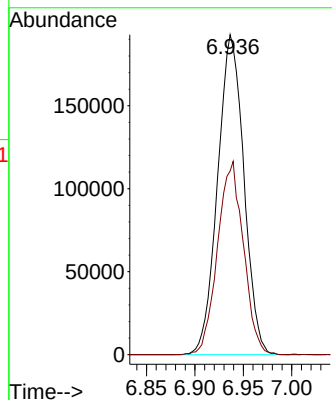
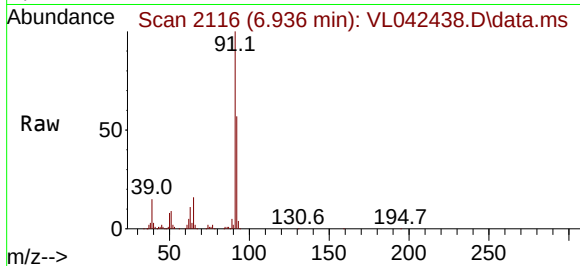




#53  
Toluene  
Concen: 8.848 ppbv  
RT: 6.936 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

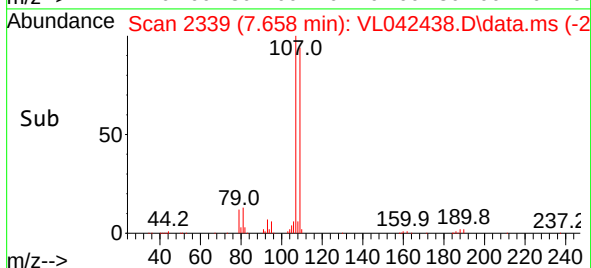
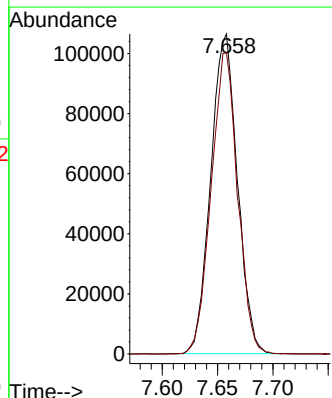
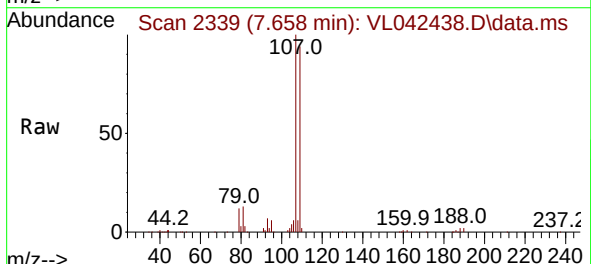
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

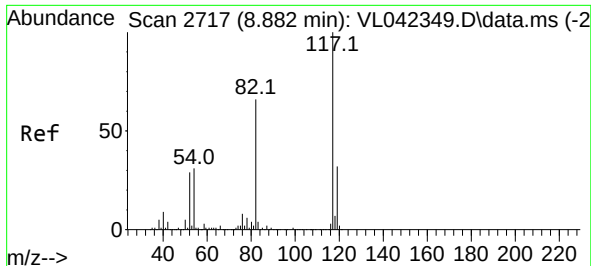
Tgt Ion: 91 Resp: 363707  
Ion Ratio Lower Upper  
91 100  
92 59.6 48.2 72.4



#54  
1,2-Dibromoethane  
Concen: 9.601 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. 0.006 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 107 Resp: 178709  
Ion Ratio Lower Upper  
107 100  
109 94.3 78.2 117.4

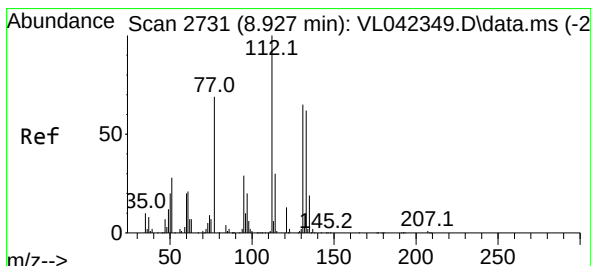
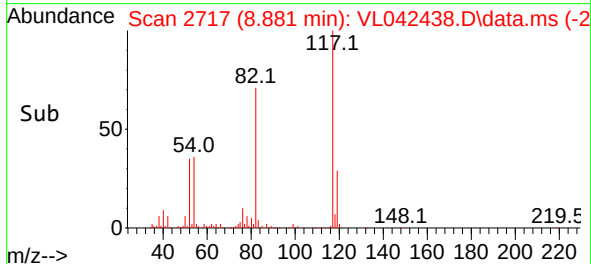
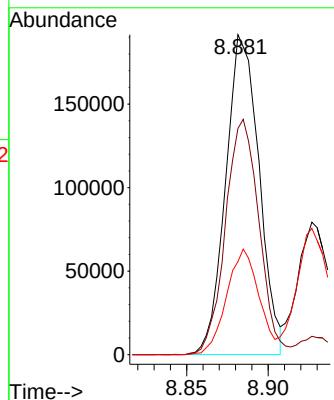
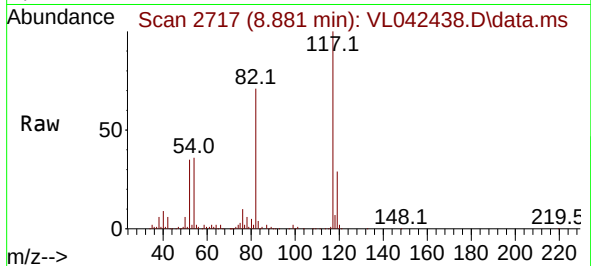




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.881 min Scan# 2717  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

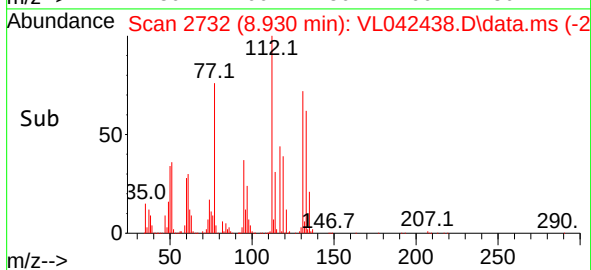
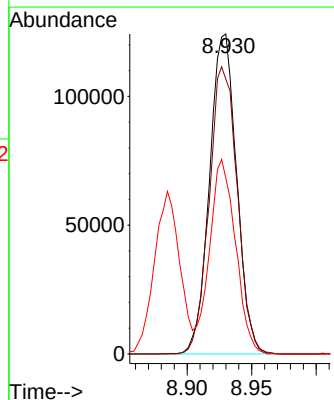
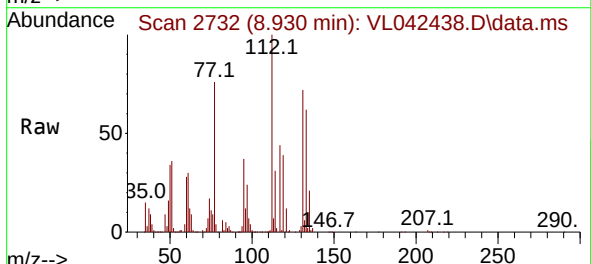
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0429ABS01

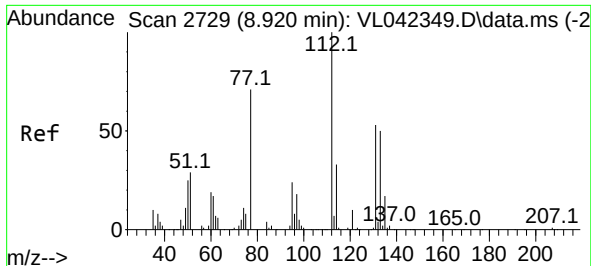
Tgt Ion:117 Resp: 272312  
Ion Ratio Lower Upper  
117 100  
82 79.2 57.8 86.6  
119 32.0 25.2 37.8



#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.981 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion:131 Resp: 180979  
Ion Ratio Lower Upper  
131 100  
133 93.2 78.3 117.5  
119 58.6 48.7 73.1

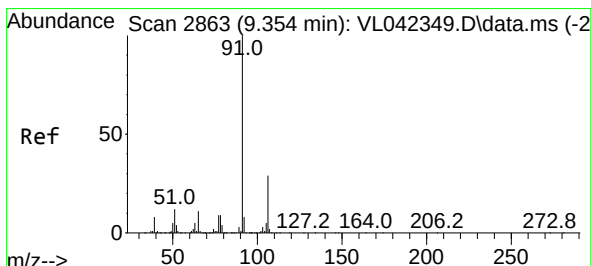
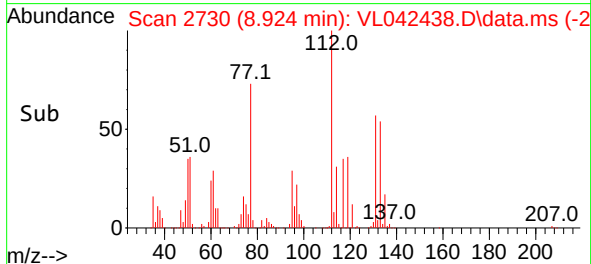
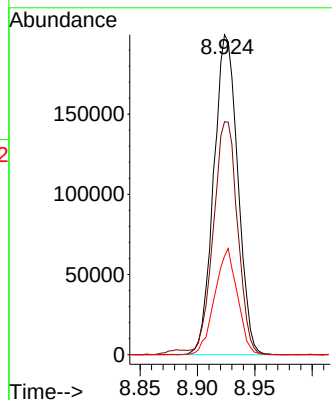
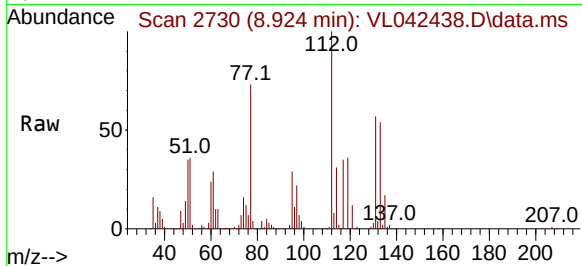




#57  
Chlorobenzene  
Concen: 10.270 ppbv  
RT: 8.924 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

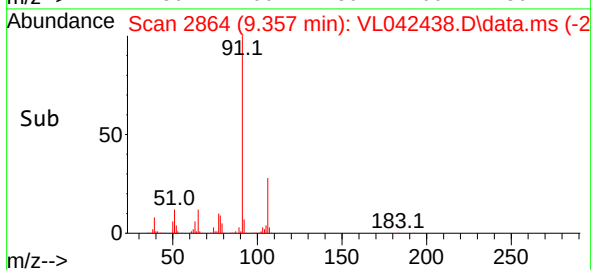
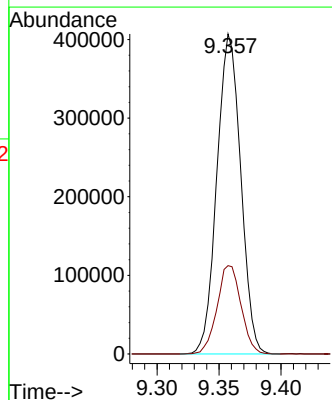
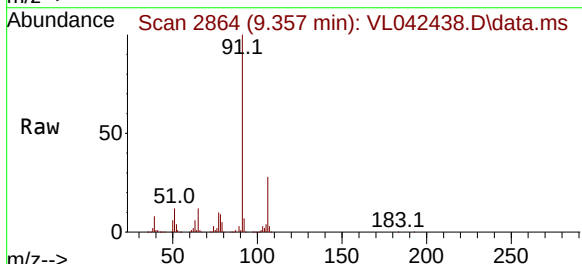
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

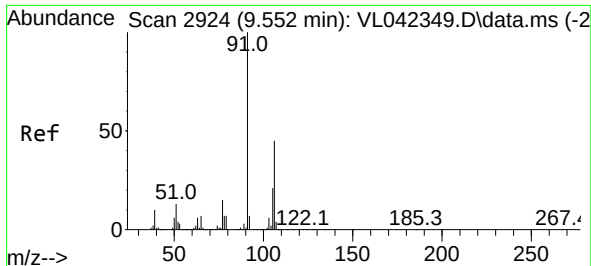
Tgt Ion: 112 Resp: 290861  
Ion Ratio Lower Upper  
112 100  
77 72.8 57.8 86.6  
114 30.8 29.3 35.9



#58  
Ethyl Benzene  
Concen: 10.111 ppbv  
RT: 9.357 min Scan# 2864  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 545497  
Ion Ratio Lower Upper  
91 100  
106 27.6 23.0 34.4





#59

m/p-Xylene

Concen: 9.768 ppbv

RT: 9.555 min Scan# 2924

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

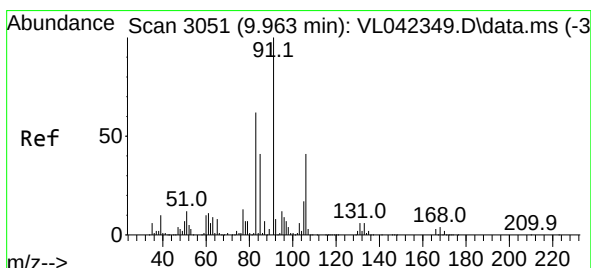
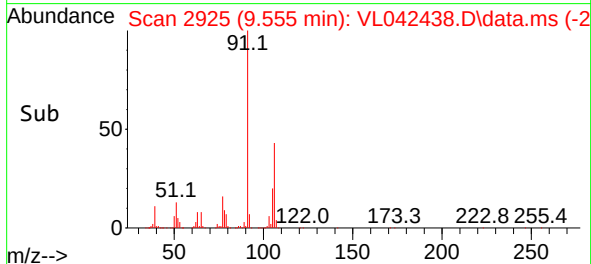
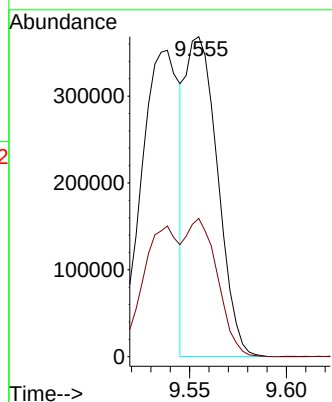
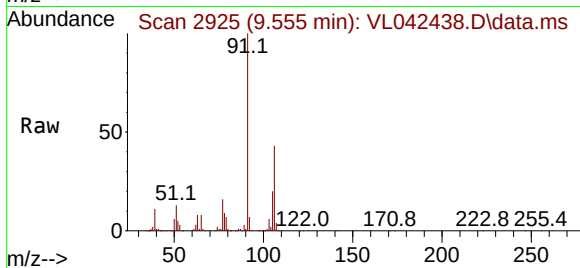
VL0429ABS01

Tgt Ion: 91 Resp: 424567

Ion Ratio Lower Upper

91 100

106 89.3 35.4 53.2#



#60

o-Xylene

Concen: 10.639 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042438.D

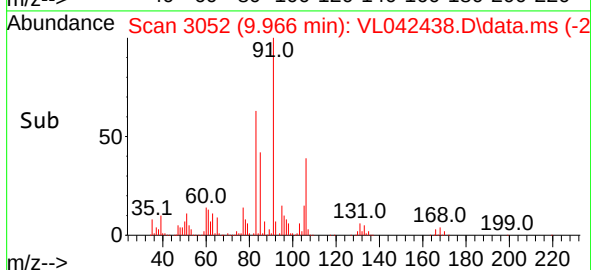
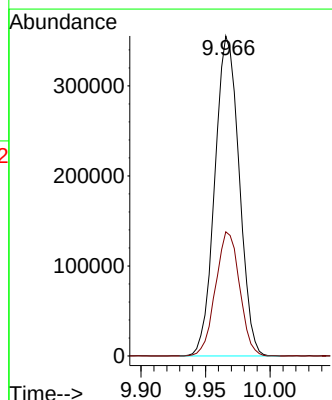
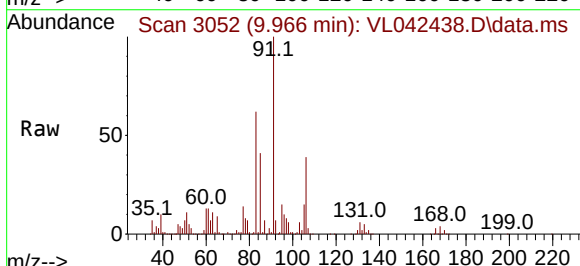
Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 465645

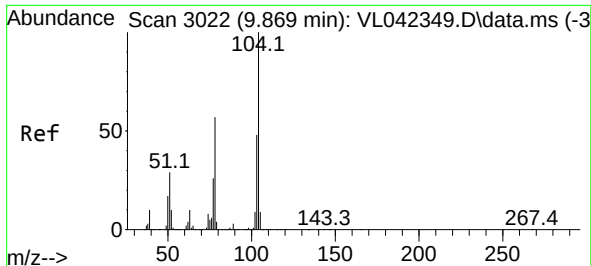
Ion Ratio Lower Upper

91 100

106 38.4 21.1 63.4



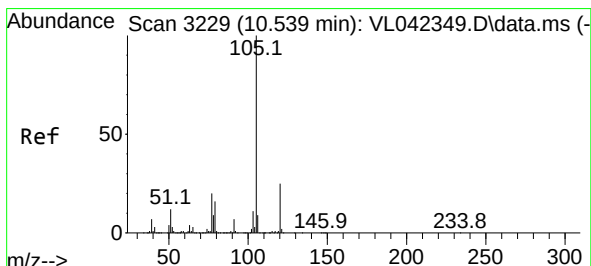
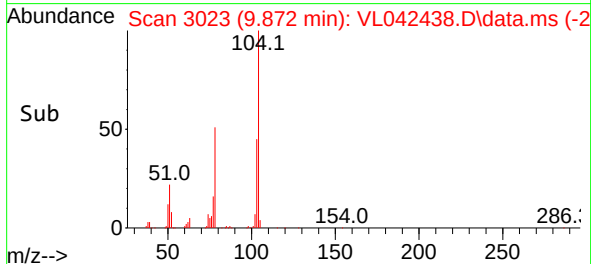
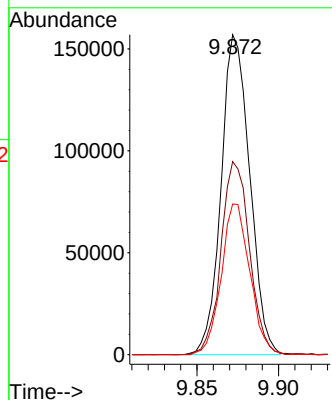
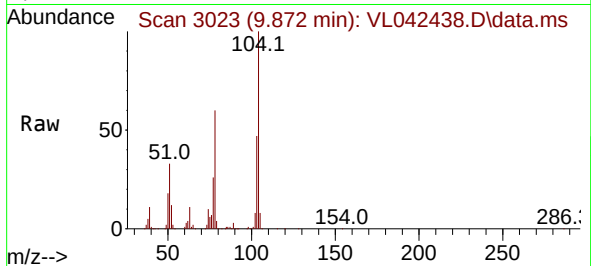




#61  
Styrene  
Concen: 9.178 ppbv  
RT: 9.872 min Scan# 3022  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

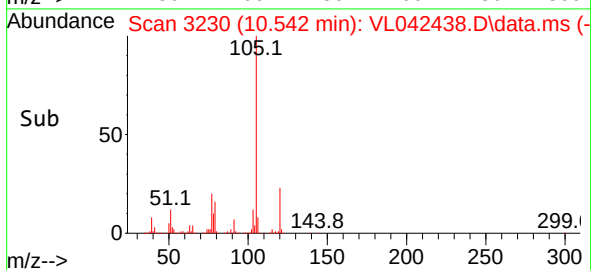
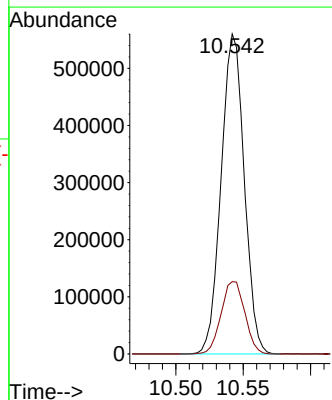
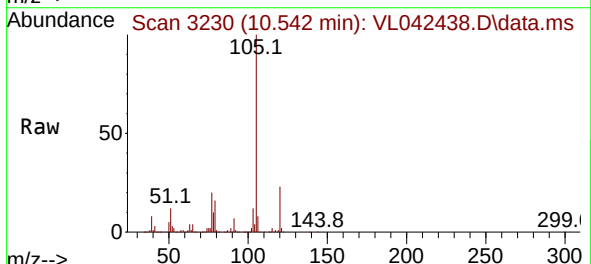
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

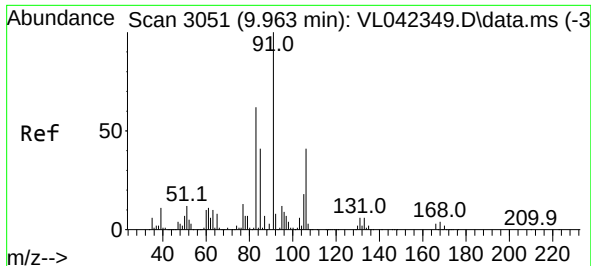
Tgt Ion:104 Resp: 191741  
Ion Ratio Lower Upper  
104 100  
78 60.1 44.6 66.8  
103 47.0 37.4 56.0



#62  
Isopropylbenzene  
Concen: 10.393 ppbv  
RT: 10.542 min Scan# 3230  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 667839  
Ion Ratio Lower Upper  
105 100  
120 23.2 19.8 29.8

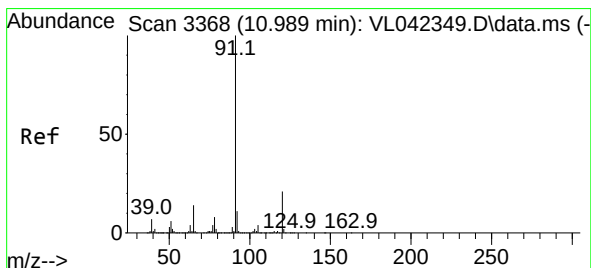
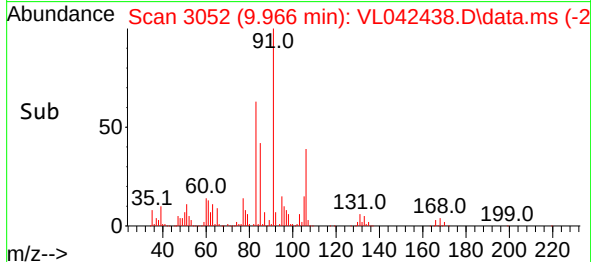
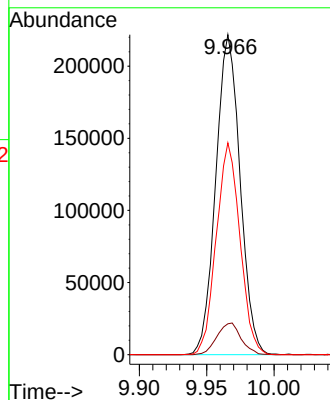
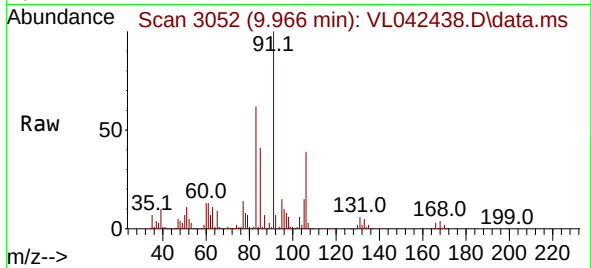




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.819 ppbv  
 RT: 9.966 min Scan# 3051  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

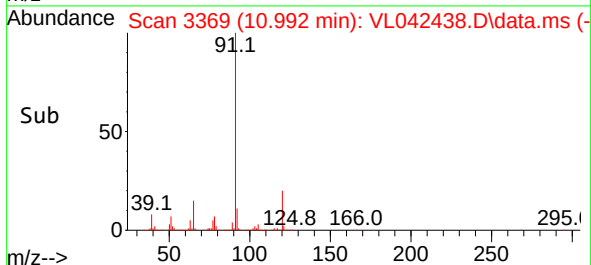
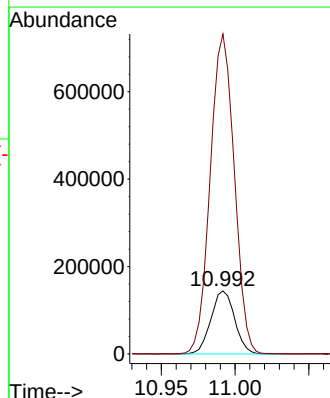
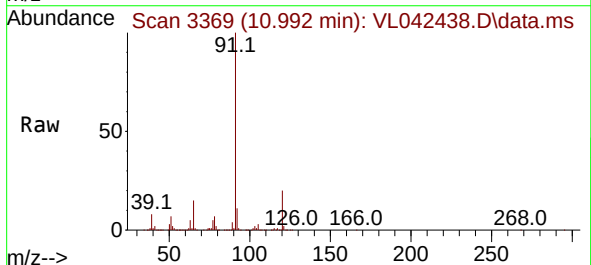
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0429ABS01

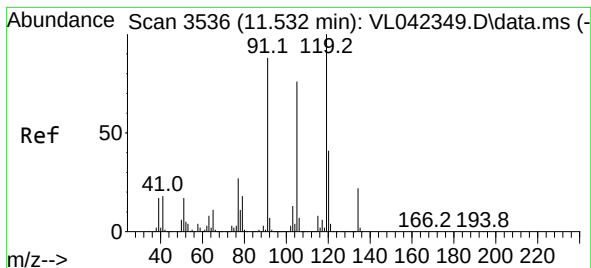
Tgt Ion: 83 Resp: 278491  
 Ion Ratio Lower Upper  
 83 100  
 131 9.8 4.5 13.7  
 85 64.4 32.4 97.0



#64  
 n-propylbenzene  
 Concen: 9.987 ppbv  
 RT: 10.992 min Scan# 3369  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 120 Resp: 161309  
 Ion Ratio Lower Upper  
 120 100  
 91 515.8 392.4 588.6





#65

tert-Butylbenzene

Concen: 10.260 ppbv

RT: 11.535 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

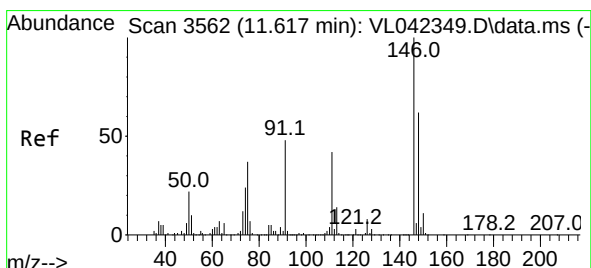
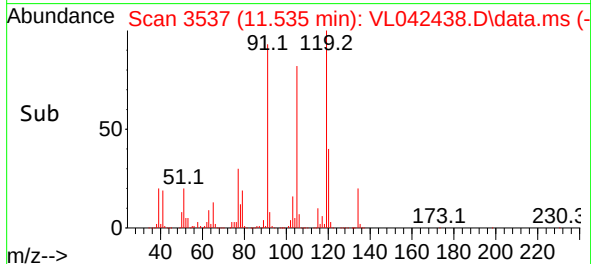
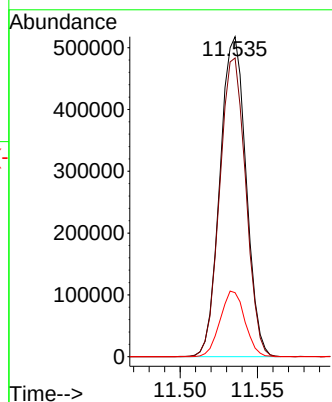
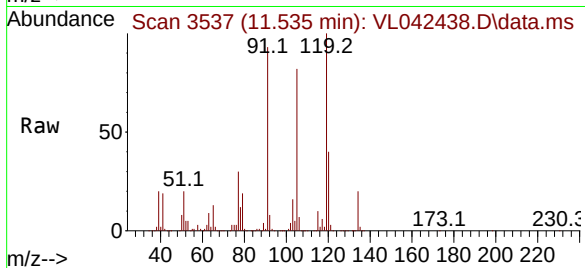
Tgt Ion:119 Resp: 605972

Ion Ratio Lower Upper

119 100

91 93.3 74.6 111.8

134 19.5 18.8 28.2



#66

Benzyl Chloride

Concen: 7.229 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

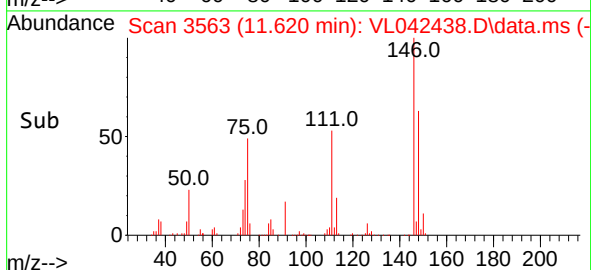
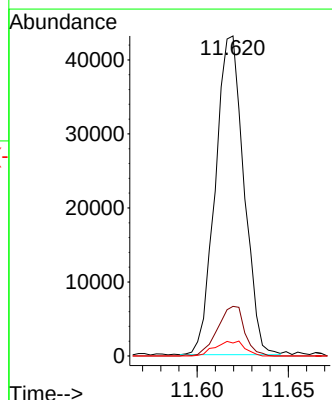
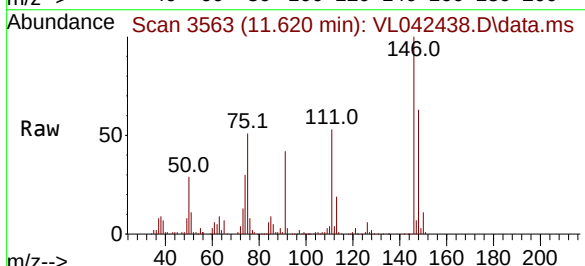
Tgt Ion: 91 Resp: 46913

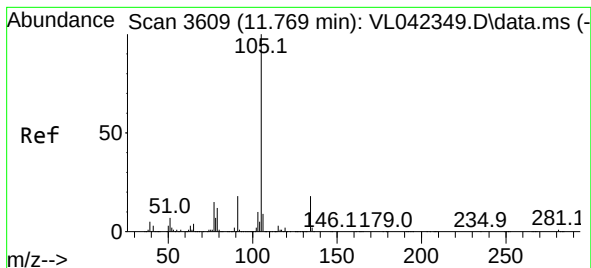
Ion Ratio Lower Upper

91 100

126 14.8 11.8 17.6

128 4.8 4.5 6.7

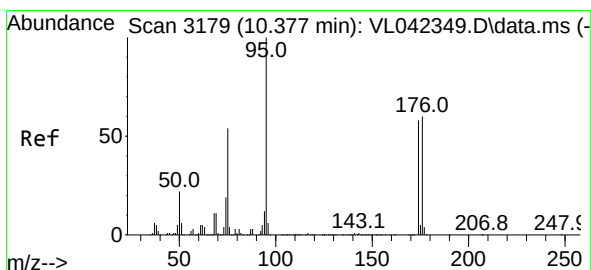
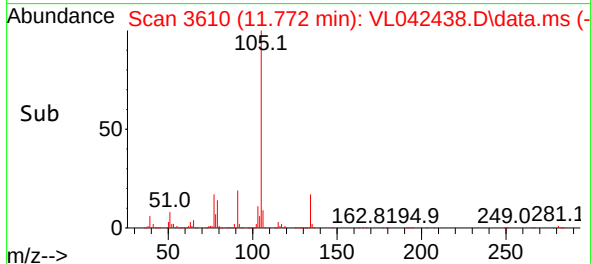
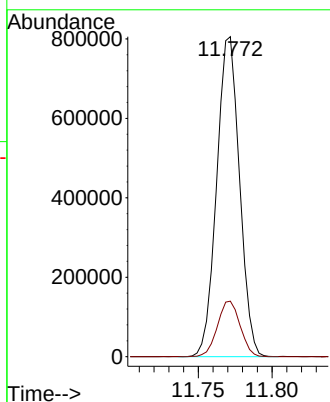
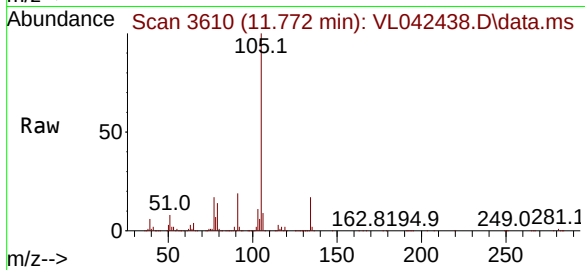




#67  
 sec-Butylbenzene  
 Concen: 10.569 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

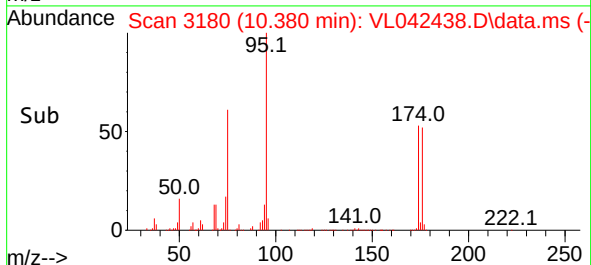
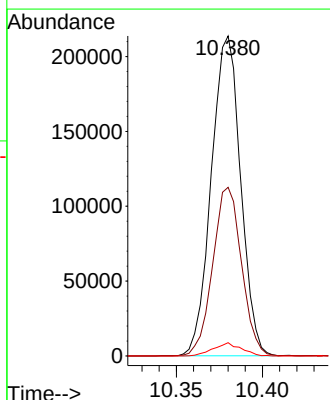
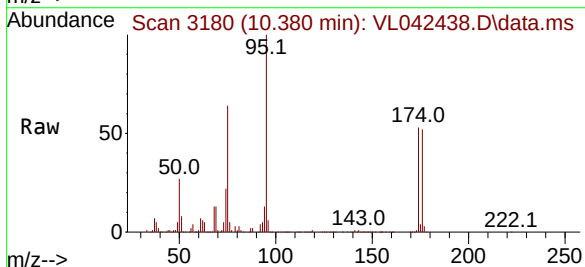
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0429ABS01

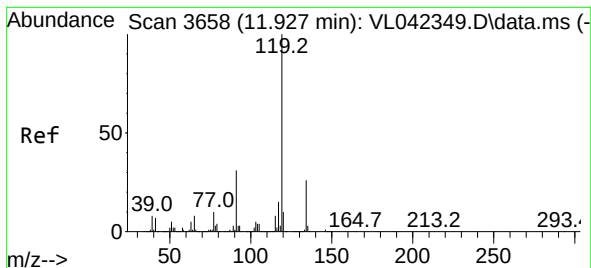
Tgt Ion:105 Resp: 868275  
 Ion Ratio Lower Upper  
 105 100  
 134 17.3 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.307 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. 0.003 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 95 Resp: 253021  
 Ion Ratio Lower Upper  
 95 100  
 174 52.0 48.5 72.7  
 175 3.9 3.7 5.5

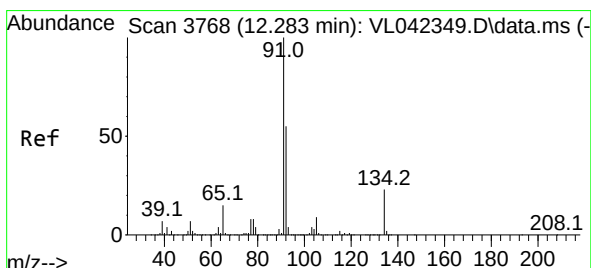
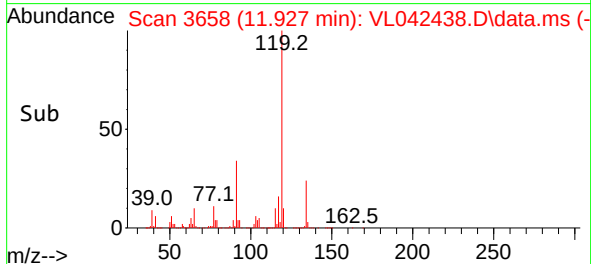
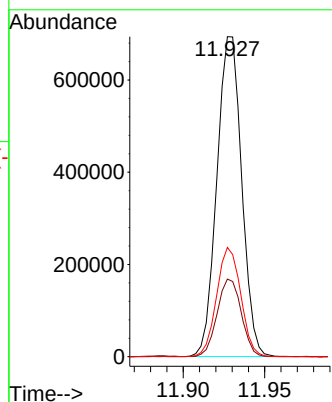
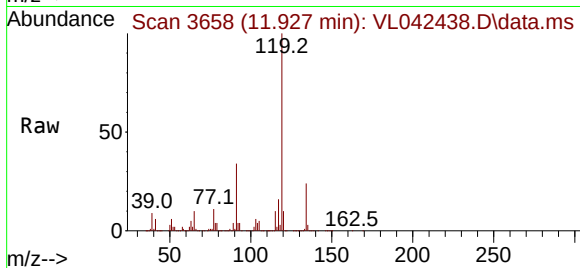




#69  
 p-Isopropyltoluene  
 Concen: 10.282 ppbv  
 RT: 11.927 min Scan# 3658  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

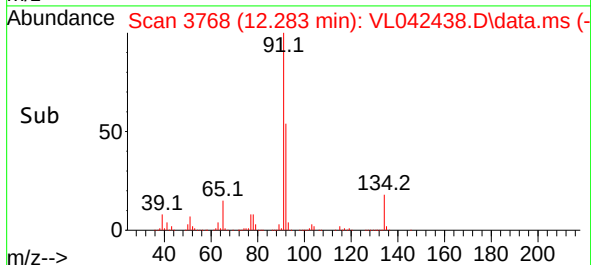
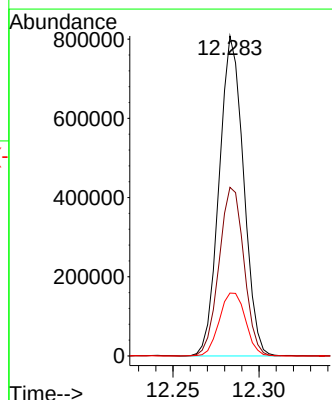
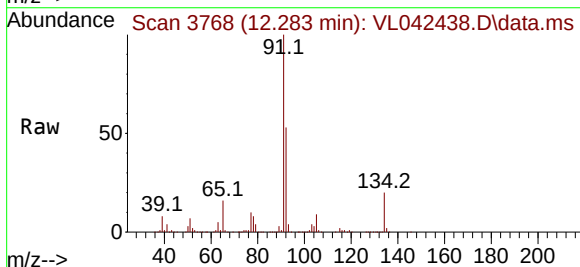
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0429ABS01

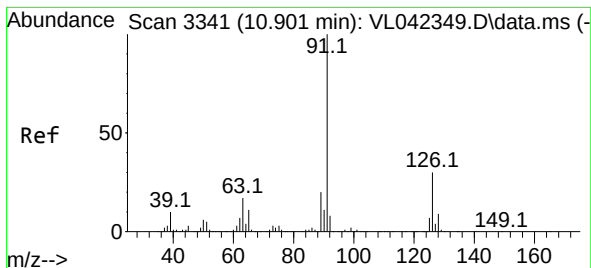
Tgt Ion:119 Resp: 733796  
 Ion Ratio Lower Upper  
 119 100  
 134 23.7 20.0 30.0  
 91 33.4 24.4 36.6



#70  
 n-Butylbenzene  
 Concen: 10.717 ppbv  
 RT: 12.283 min Scan# 3768  
 Delta R.T. -0.000 min  
 Lab File: VL042438.D  
 Acq: 29 Apr 2025 10:08

Tgt Ion: 91 Resp: 796622  
 Ion Ratio Lower Upper  
 91 100  
 92 54.1 44.2 66.4  
 134 21.1 18.2 27.4





#71

2-Chlorotoluene

Concen: 10.614 ppbv

RT: 10.904 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_1

ClientSampleId :

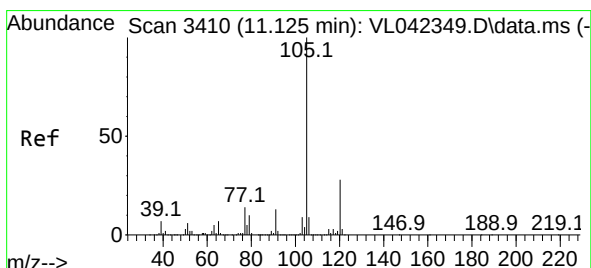
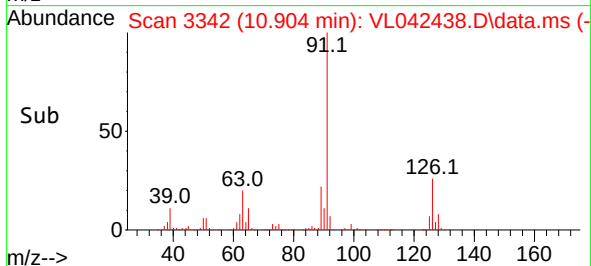
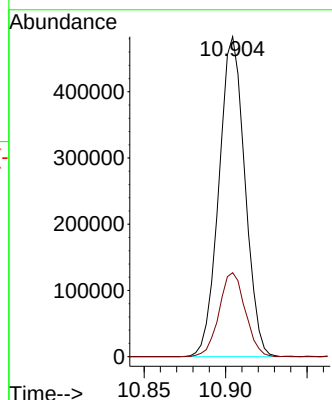
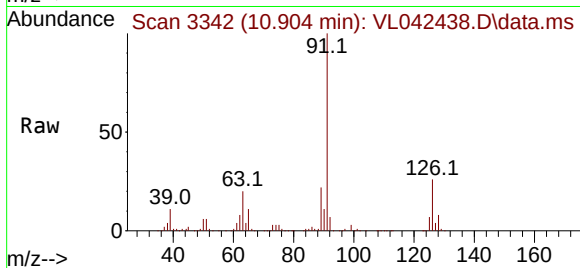
VL0429ABS01

Tgt Ion: 91 Resp: 534951

Ion Ratio Lower Upper

91 100

126 26.4 11.4 45.4



#72

4-Ethyltoluene

Concen: 10.351 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 553879

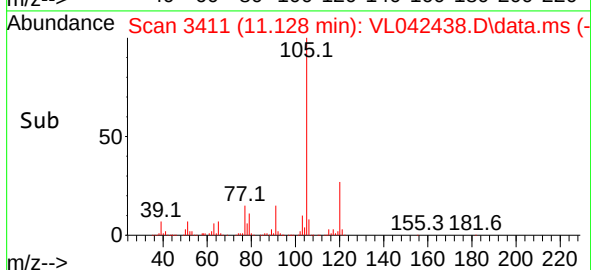
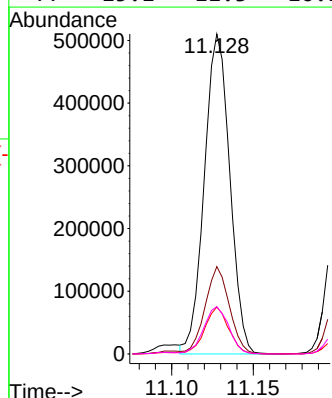
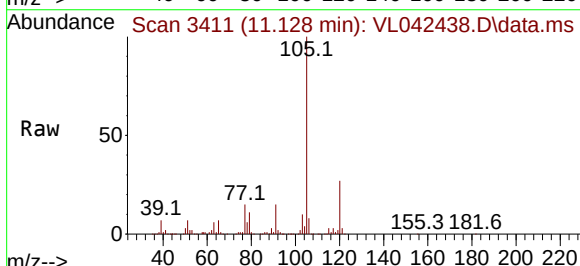
Ion Ratio Lower Upper

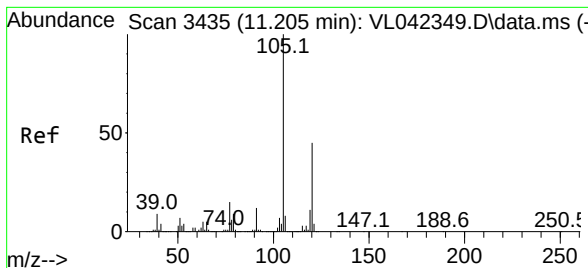
105 100

120 26.9 23.2 34.8

91 14.3 10.4 15.6

77 15.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.403 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_1

ClientSampleId :

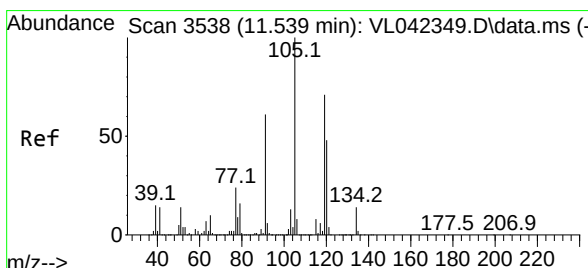
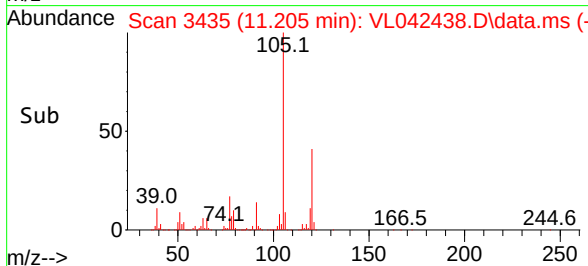
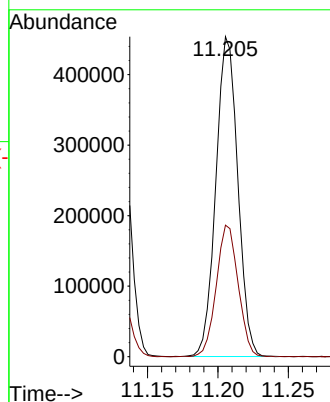
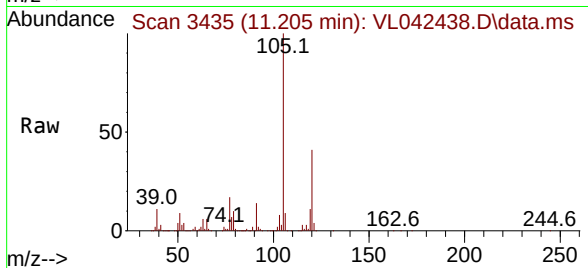
VL0429ABS01

Tgt Ion:105 Resp: 491459

Ion Ratio Lower Upper

105 100

120 41.1 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 9.939 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Tgt Ion:105 Resp: 548408

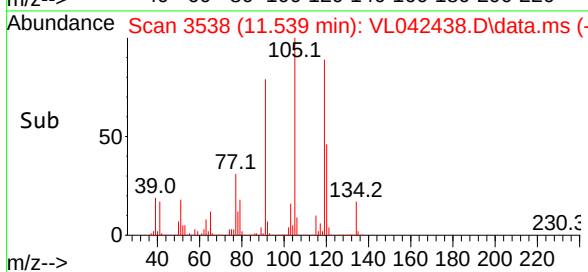
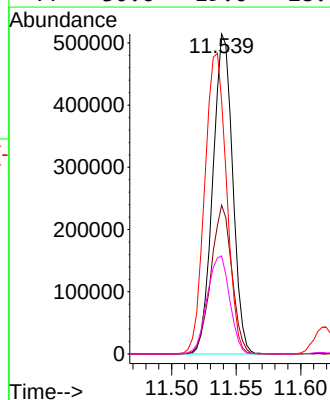
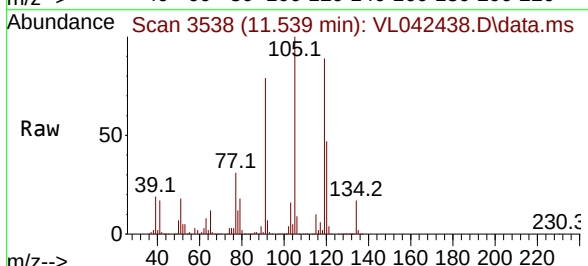
Ion Ratio Lower Upper

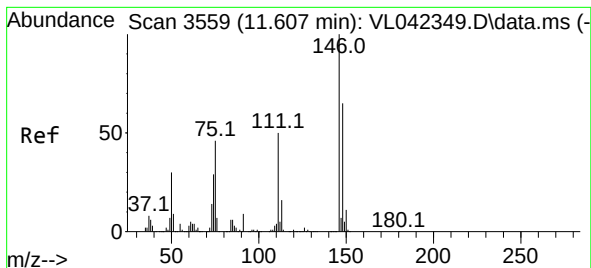
105 100

120 46.5 38.1 57.1

91 79.0 48.8 73.2#

77 30.6 19.0 28.4#





#75

1,3-Dichlorobenzene

Concen: 9.931 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

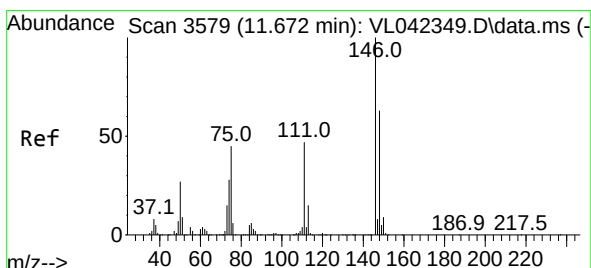
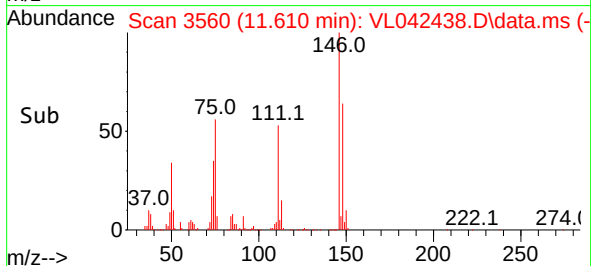
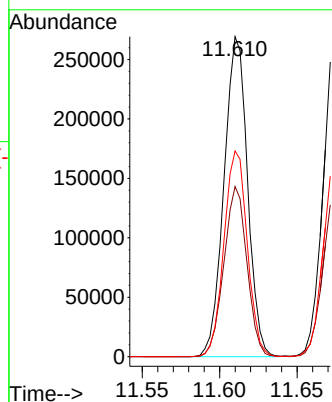
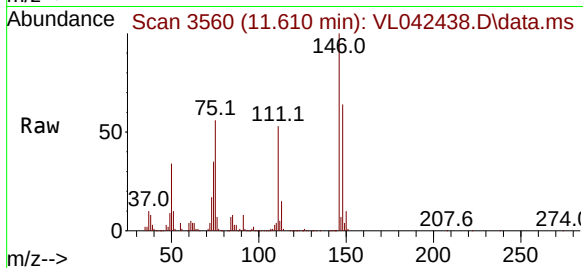
Tgt Ion:146 Resp: 284809

Ion Ratio Lower Upper

146 100

111 52.1 24.3 72.8

148 63.8 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 9.907 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

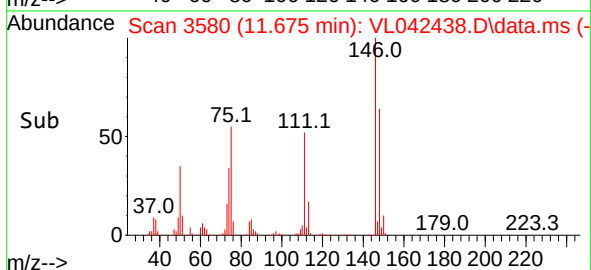
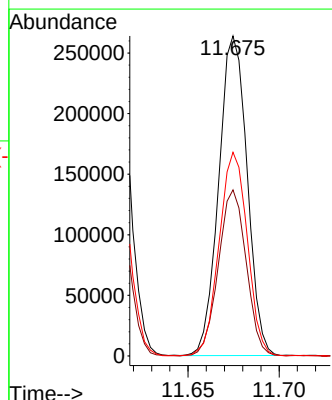
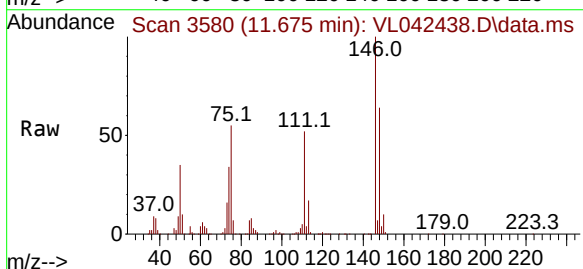
Tgt Ion:146 Resp: 285571

Ion Ratio Lower Upper

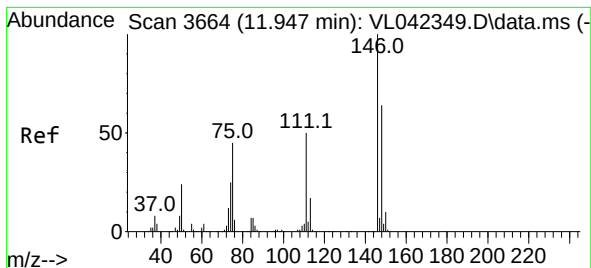
146 100

111 51.1 24.2 72.6

148 63.6 32.1 96.5







#77

1,2-Dichlorobenzene

Concen: 10.128 ppbv

RT: 11.950 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01

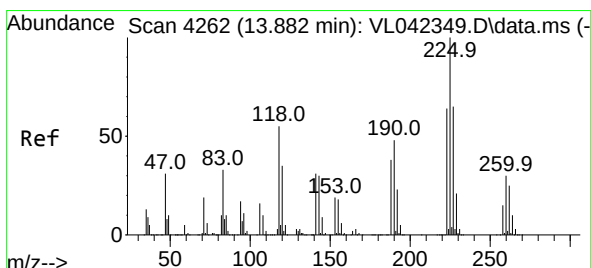
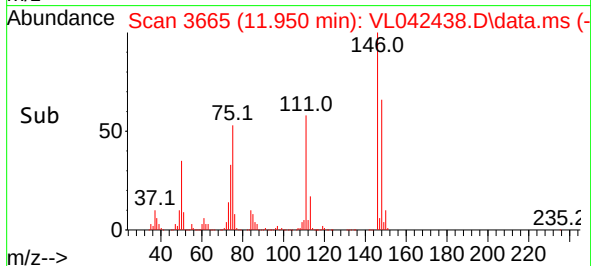
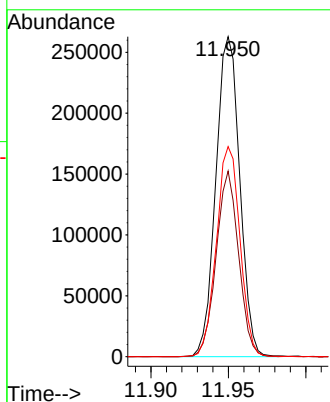
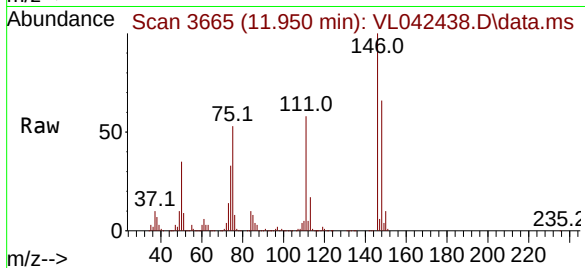
Tgt Ion:146 Resp: 282424

Ion Ratio Lower Upper

146 100

111 54.6 25.3 75.9

148 64.8 31.5 94.5



#78

Hexachloro-1,3-Butadiene

Concen: 9.977 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. 0.003 min

Lab File: VL042438.D

Acq: 29 Apr 2025 10:08

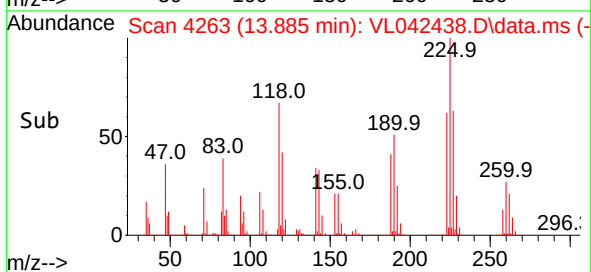
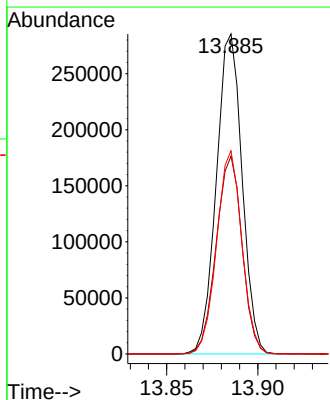
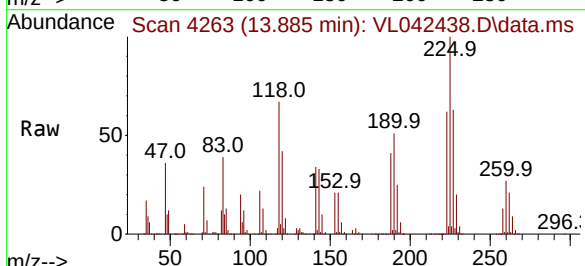
Tgt Ion:225 Resp: 280954

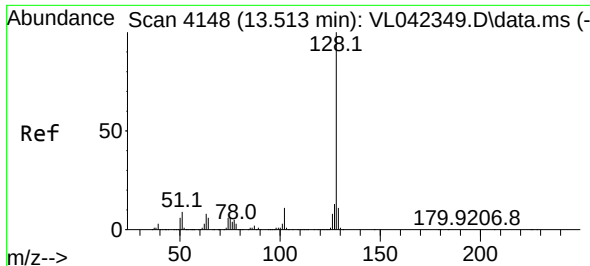
Ion Ratio Lower Upper

225 100

223 61.8 50.3 75.5

227 61.9 51.5 77.3

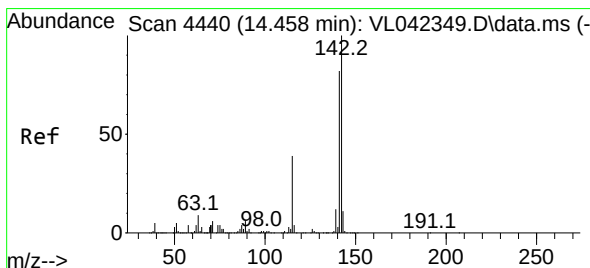
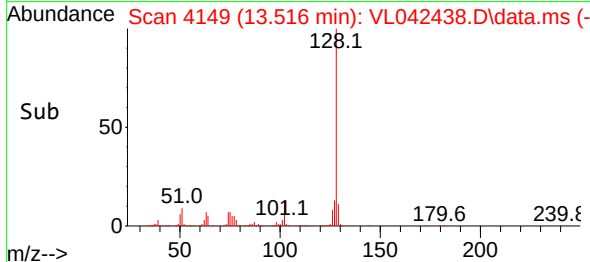
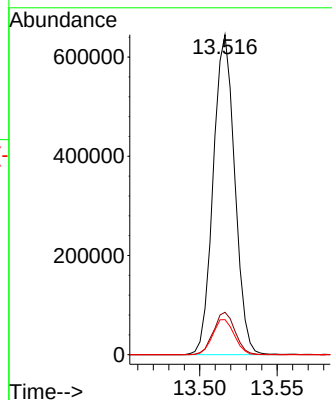
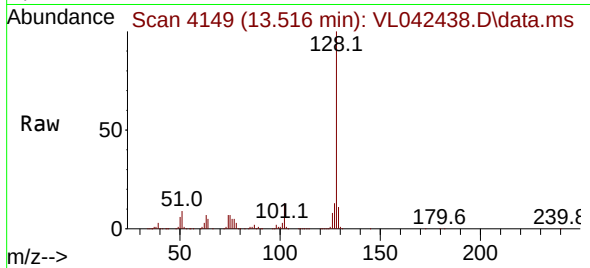




#79  
Naphthalene  
Concen: 9.425 ppbv  
RT: 13.516 min Scan# 4148  
Delta R.T. 0.003 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

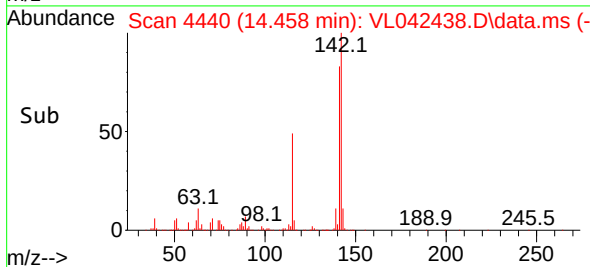
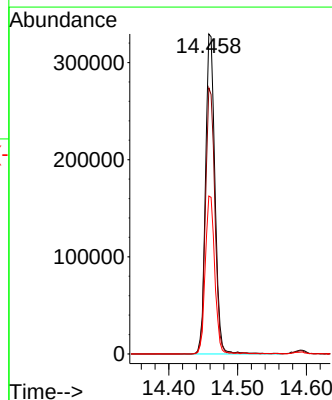
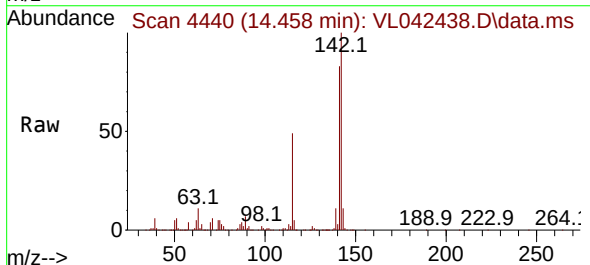
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0429ABS01

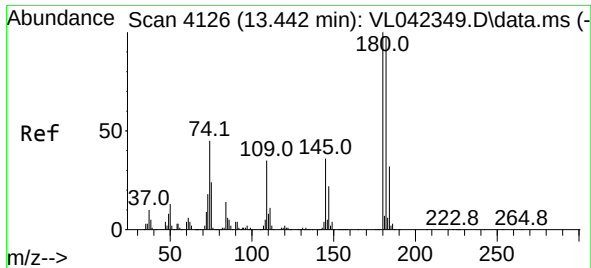
Tgt Ion:128 Resp: 621879  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 11.0 8.6 12.8



#80  
Naphthalene,2-methyl-  
Concen: 8.317 ppbv  
RT: 14.458 min Scan# 4440  
Delta R.T. -0.000 min  
Lab File: VL042438.D  
Acq: 29 Apr 2025 10:08

Tgt Ion:142 Resp: 312733  
Ion Ratio Lower Upper  
142 100  
141 84.1 66.8 100.2  
115 49.9 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.498 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042438.D

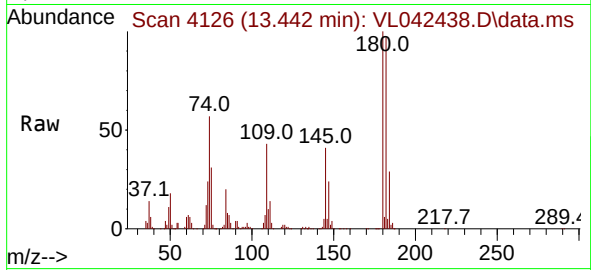
Acq: 29 Apr 2025 10:08

Instrument :

MSVOA\_L

ClientSampleId :

VL0429ABS01



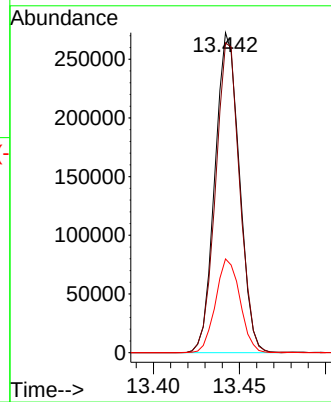
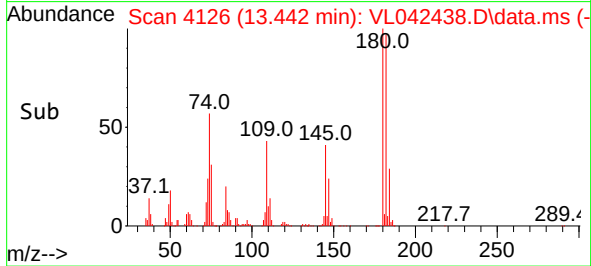
Tgt Ion:180 Resp: 269082

Ion Ratio Lower Upper

180 100

182 95.8 76.8 115.2

184 29.3 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042443.D  
 Acq On : 29 Apr 2025 13:11  
 Operator : SY/MD  
 Sample : Q1908-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-1

Quant Time: Apr 30 01:19:56 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 116167   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 309224   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 265424   | 10.000 | ppbv  | 0.00     |

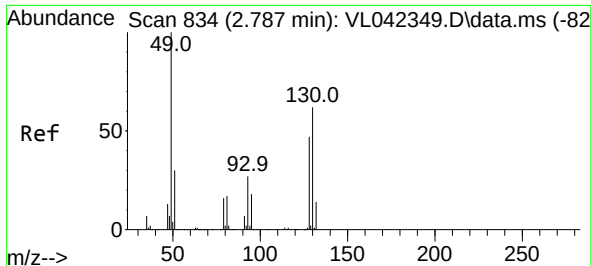
|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 240596   | 11.031   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 110.300% |

| Target Compounds              |        |     |        |        |        | Qvalue |
|-------------------------------|--------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 10046  | 0.489  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 6435   | 0.329  | ppbv   | 98     |
| 4) Chloromethane              | 1.534  | 50  | 3300   | 0.406  | ppbv   | 100    |
| 9) Propene                    | 1.486  | 41  | 1749   | 0.197  | ppbv   | 92     |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 4172   | 0.214  | ppbv   | 86     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101 | 1267   | 0.079  | ppbv # | 79     |
| 13) Ethanol                   | 1.728  | 45  | 15309  | 10.821 | ppbv   | 80     |
| 15) Acetone                   | 1.839  | 43  | 209166 | 10.999 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.612  | 39  | 274    | 0.030  | ppbv # | 9      |
| 17) tert-Butyl alcohol        | 2.052  | 59  | 1884   | 0.080  | ppbv # | 67     |
| 19) Isopropyl Alcohol         | 1.894  | 45  | 15167  | 1.436  | ppbv # | 1      |
| 20) Methylene Chloride        | 2.065  | 84  | 4052   | 0.544  | ppbv   | 91     |
| 23) Vinyl Acetate             | 2.457  | 43  | 10243  | 1.331  | ppbv # | 71     |
| 25) Ethyl Acetate             | 2.848  | 43  | 1953   | 0.042  | ppbv # | 17     |
| 26) Hexane                    | 2.829  | 57  | 4458   | 0.235  | ppbv # | 1      |
| 34) 2-Butanone                | 2.564  | 43  | 58507  | 2.392  | ppbv   | 95     |
| 35) Carbon Tetrachloride      | 3.764  | 117 | 1618   | 0.058  | ppbv # | 63     |
| 39) 1,2-Dichloropropane       | 3.965  | 63  | 90929  | 7.316  | ppbv # | 24     |
| 41) Tetrahydrofuran           | 3.078  | 42  | 653    | 0.046  | ppbv # | 40     |
| 52) Tetrachloroethene         | 8.228  | 164 | 484    | 0.038  | ppbv # | 19     |
| 53) Toluene                   | 6.943  | 91  | 2557   | 0.064  | ppbv # | 1      |
| 69) p-Isopropyltoluene        | 11.927 | 119 | 5582   | 0.080  | ppbv   | 99     |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105 | 2303   | 0.050  | ppbv   | 92     |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105 | 7145   | 0.133  | ppbv # | 61     |

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

Quant Time: Apr 30 01:19:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

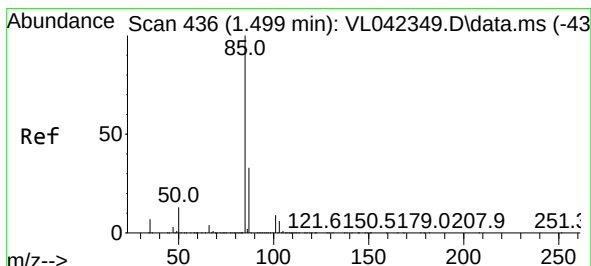
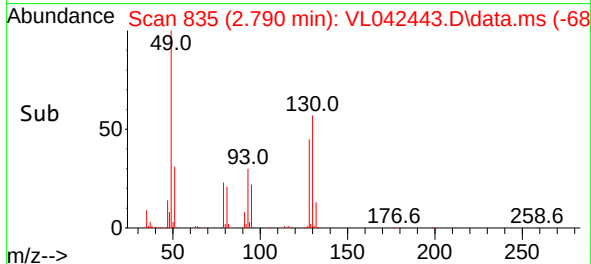
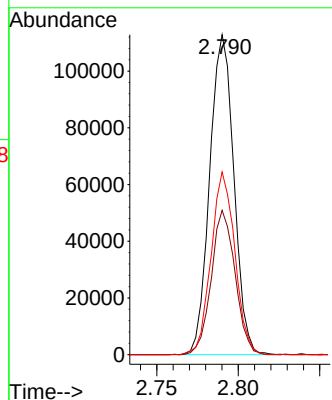
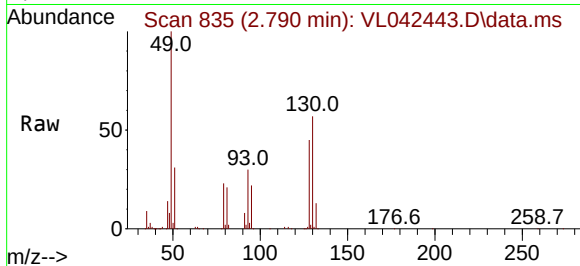




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 834  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

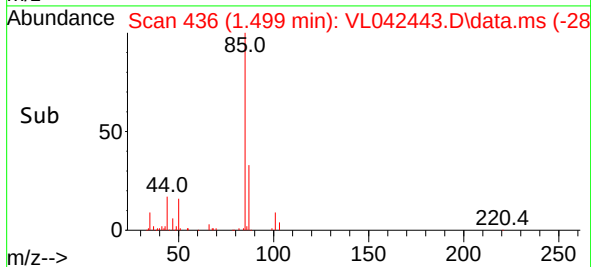
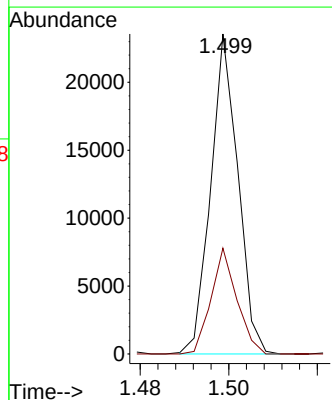
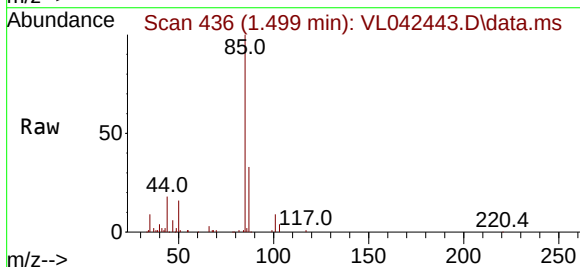
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

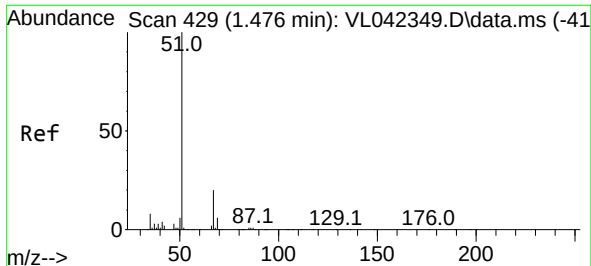
Tgt Ion: 49 Resp: 116167  
Ion Ratio Lower Upper  
49 100  
128 44.6 22.8 68.4  
130 56.3 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 0.489 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 85 Resp: 10046  
Ion Ratio Lower Upper  
85 100  
87 33.0 26.6 39.8

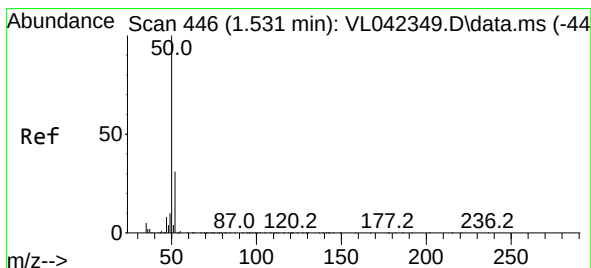
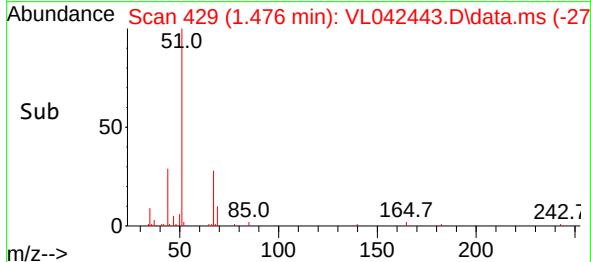
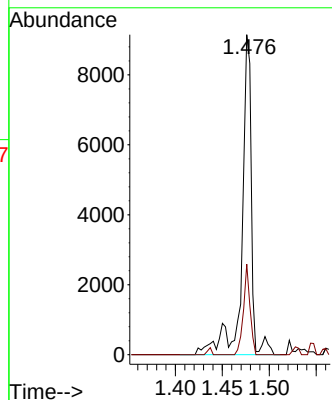
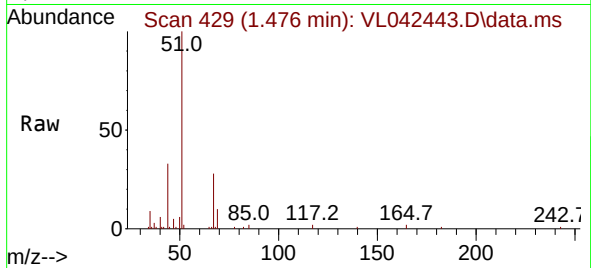




#3  
Chlorodifluoromethane  
Concen: 0.329 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

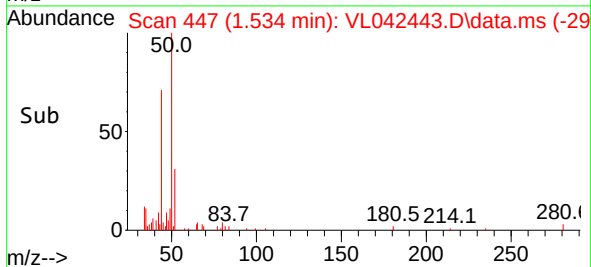
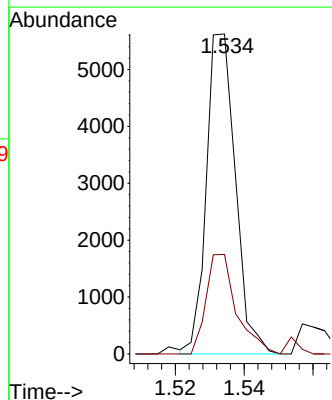
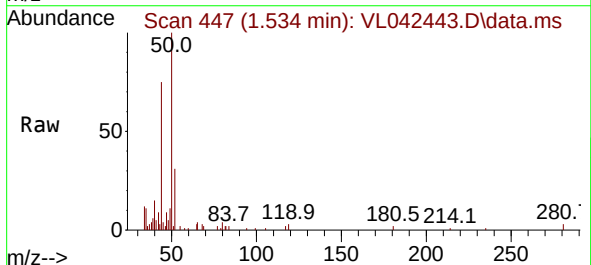
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

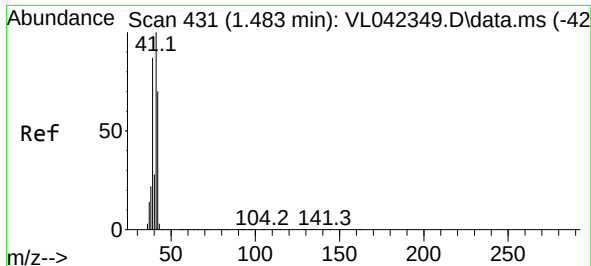
Tgt Ion: 51 Resp: 6435  
Ion Ratio Lower Upper  
51 100  
67 19.6 16.2 24.4



#4  
Chloromethane  
Concen: 0.406 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 50 Resp: 3300  
Ion Ratio Lower Upper  
50 100  
52 31.1 24.7 37.1





#9

Propene

Concen: 0.197 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA\_L

ClientSampleId :

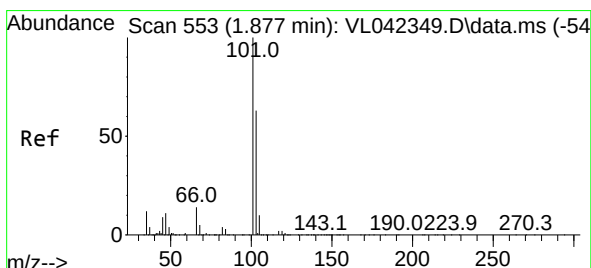
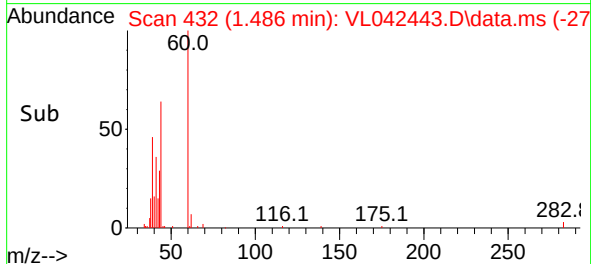
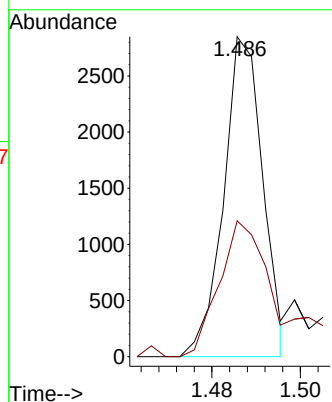
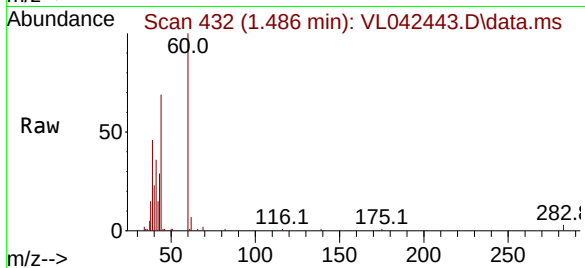
B-1

Tgt Ion: 41 Resp: 1749

Ion Ratio Lower Upper

41 100

42 64.1 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042443.D

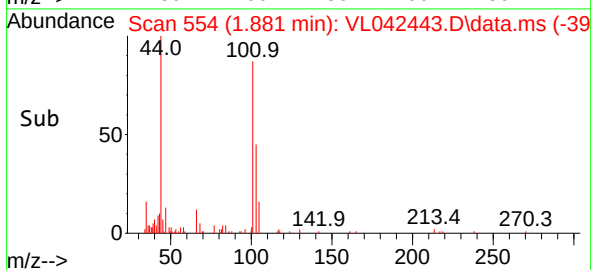
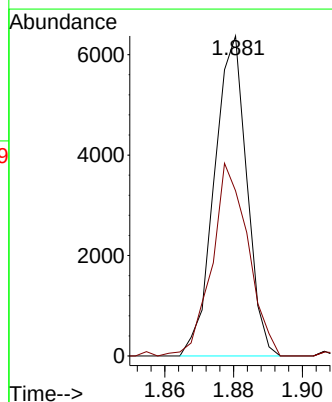
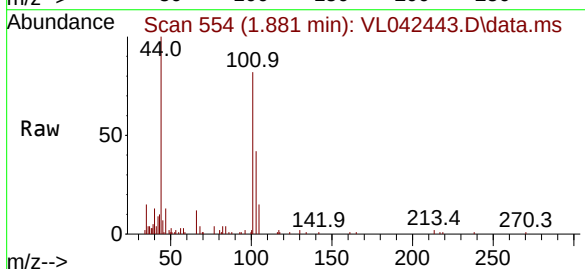
Acq: 29 Apr 2025 13:11

Tgt Ion: 101 Resp: 4172

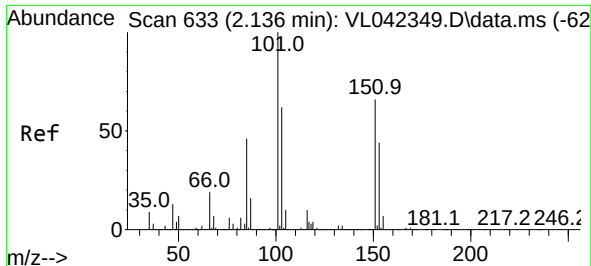
Ion Ratio Lower Upper

101 100

103 51.6 50.1 75.1



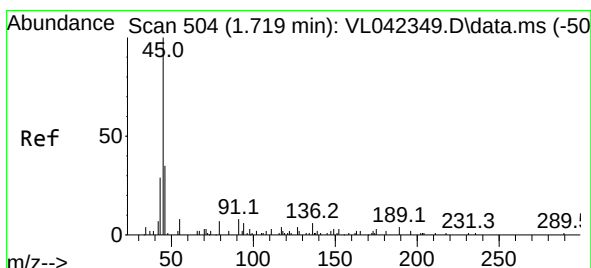
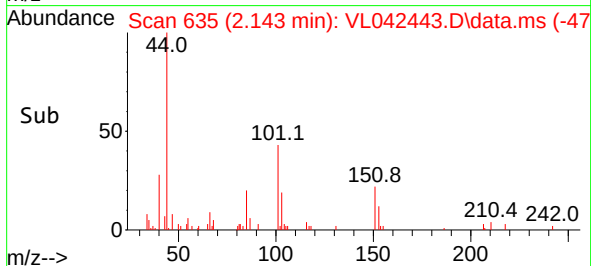
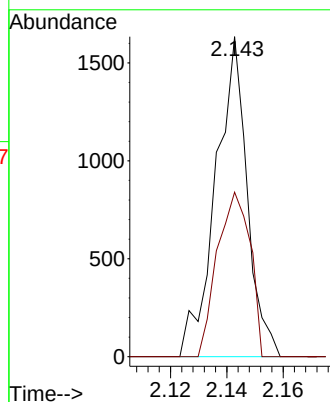
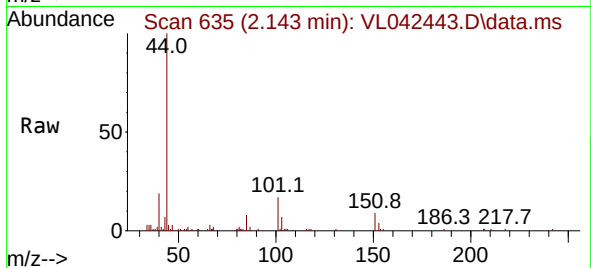




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.079 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

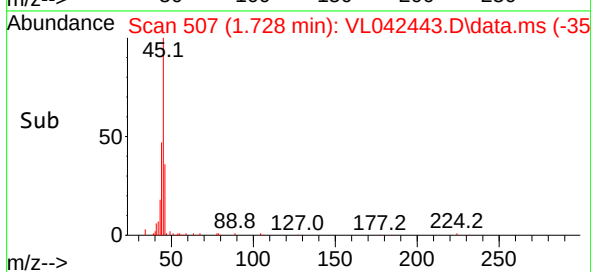
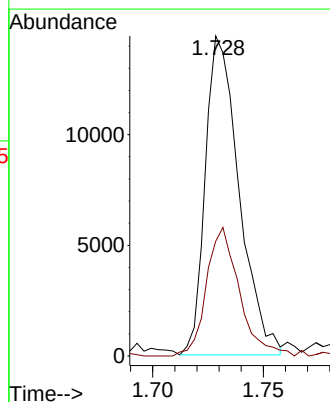
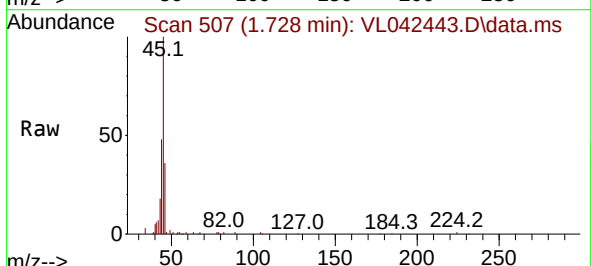
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

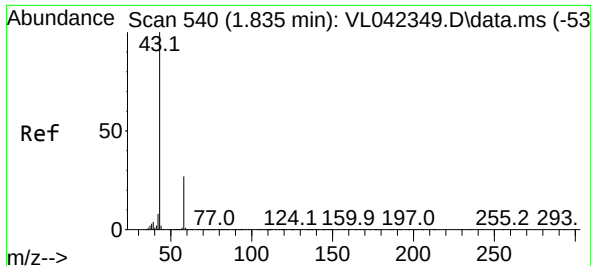
Tgt Ion:101 Resp: 1267  
Ion Ratio Lower Upper  
101 100  
151 53.7 57.0 85.6#



#13  
Ethanol  
Concen: 10.821 ppbv  
RT: 1.728 min Scan# 507  
Delta R.T. 0.010 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 45 Resp: 15309  
Ion Ratio Lower Upper  
45 100  
46 40.3 21.9 87.7

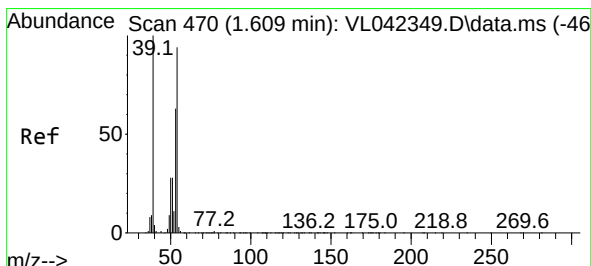
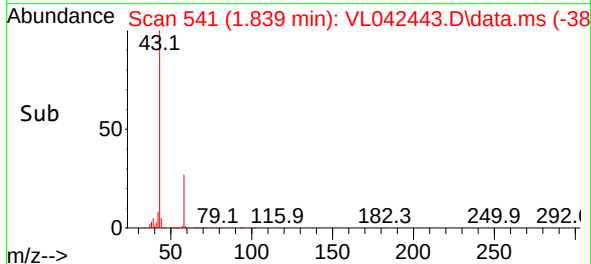
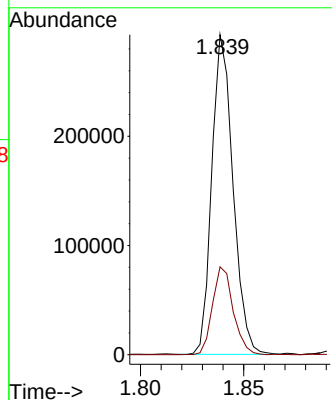
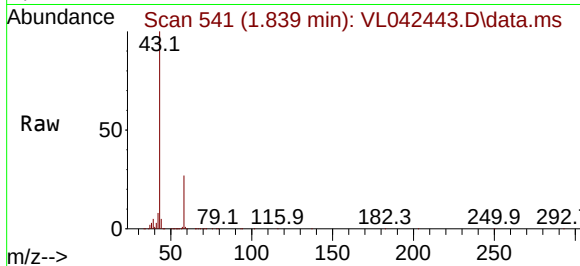




#15  
Acetone  
Concen: 10.999 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

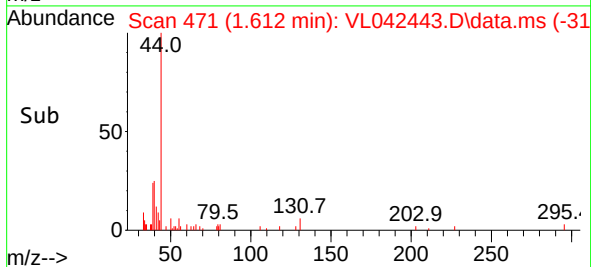
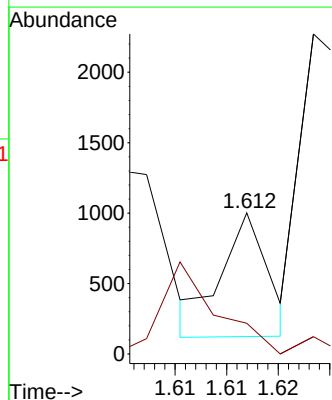
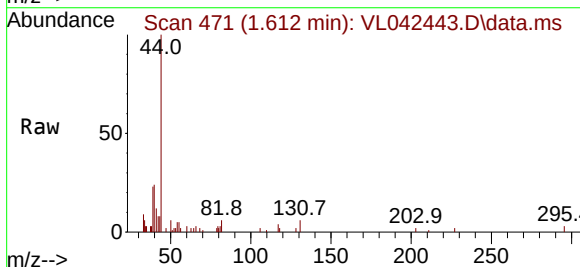
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

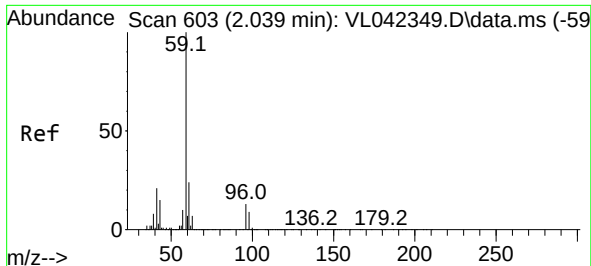
Tgt Ion: 43 Resp: 209166  
Ion Ratio Lower Upper  
43 100  
58 26.8 22.4 33.6



#16  
1,3-Butadiene  
Concen: 0.030 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 39 Resp: 274  
Ion Ratio Lower Upper  
39 100  
54 0.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.080 ppbv

RT: 2.052 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA\_L

ClientSampleId :

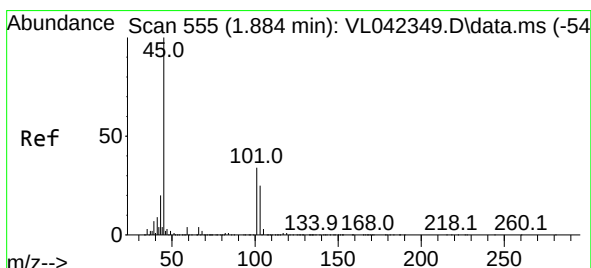
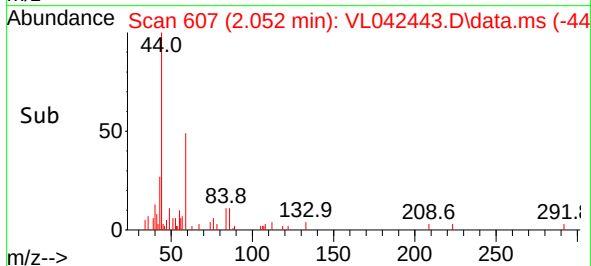
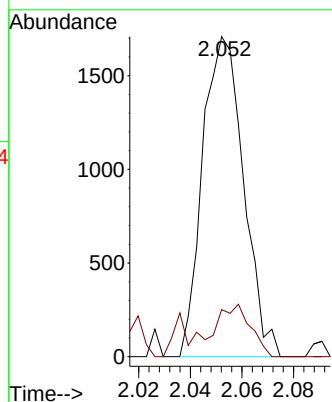
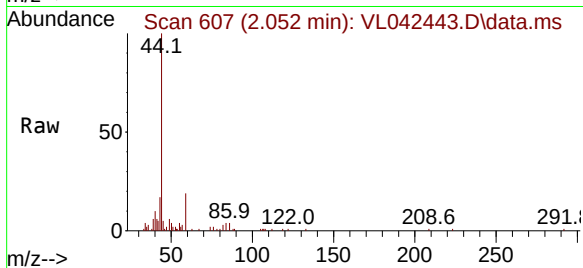
B-1

Tgt Ion: 59 Resp: 1884

Ion Ratio Lower Upper

59 100

57 23.5 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.436 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042443.D

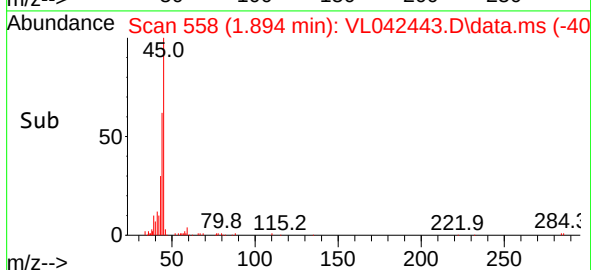
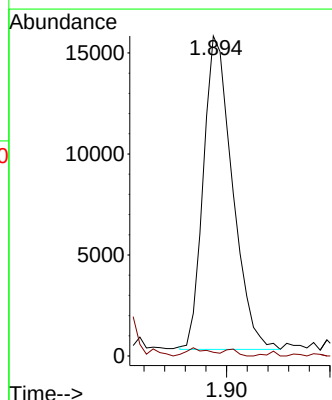
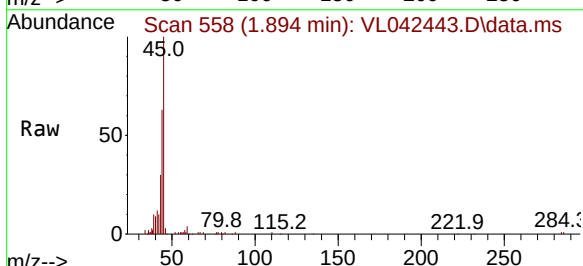
Acq: 29 Apr 2025 13:11

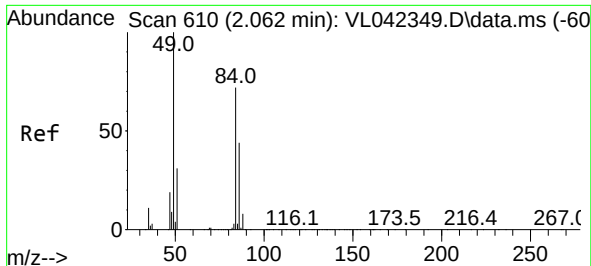
Tgt Ion: 45 Resp: 15167

Ion Ratio Lower Upper

45 100

58 369.6 34.5 51.7#





#20

Methylene Chloride

Concen: 0.544 ppbv

RT: 2.065 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA\_L

ClientSampleId :

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Tgt Ion: 84 Resp: 4052

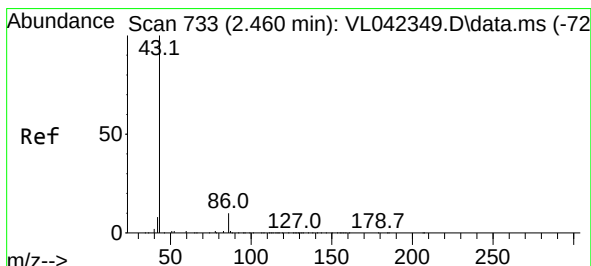
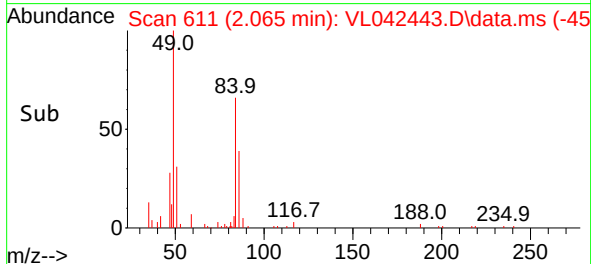
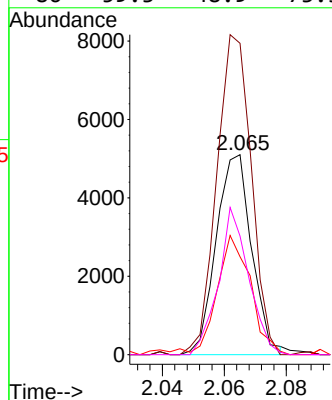
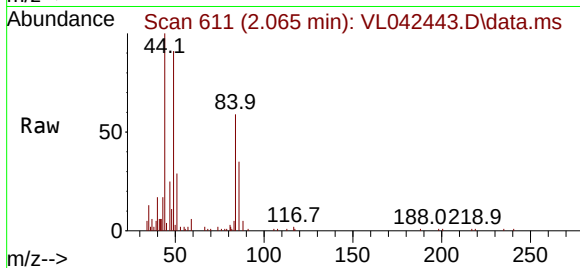
Ion Ratio Lower Upper

84 100

49 155.6 111.6 167.4

51 47.2 35.1 52.7

86 59.3 48.9 73.3



#23

Vinyl Acetate

Concen: 1.331 ppbv

RT: 2.457 min Scan# 732

Delta R.T. -0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Tgt Ion: 43 Resp: 10243

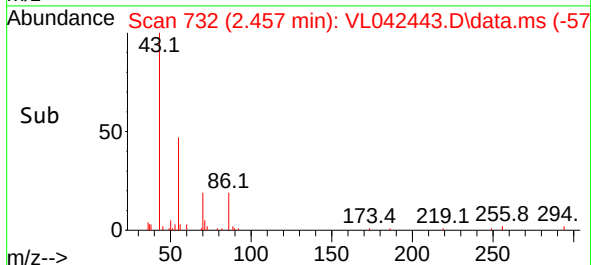
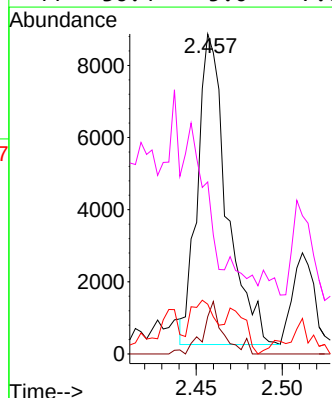
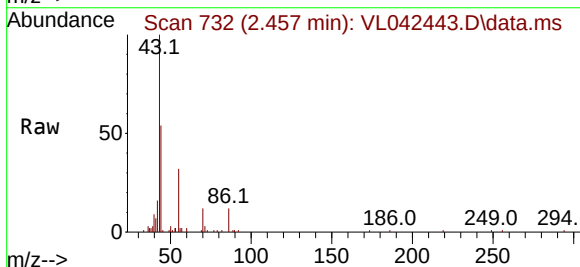
Ion Ratio Lower Upper

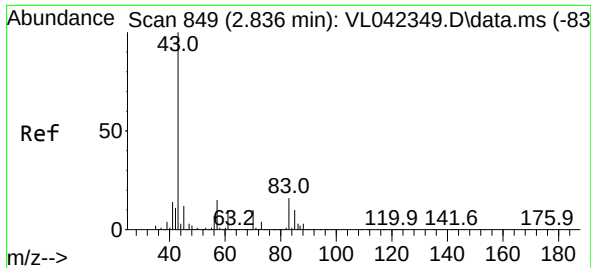
43 100

86 12.0 6.5 9.7#

42 11.9 7.8 11.8#

44 36.4 5.0 7.6#

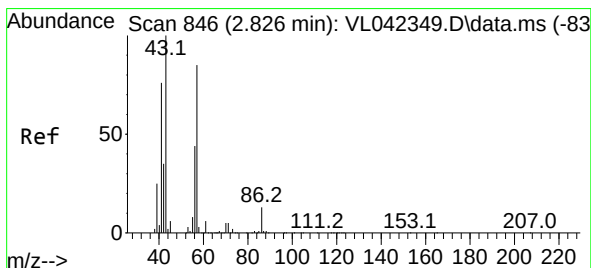
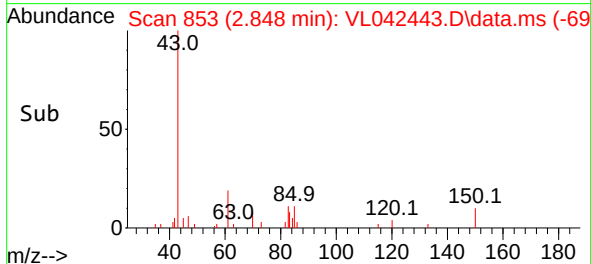
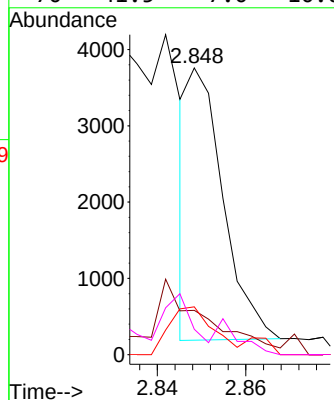
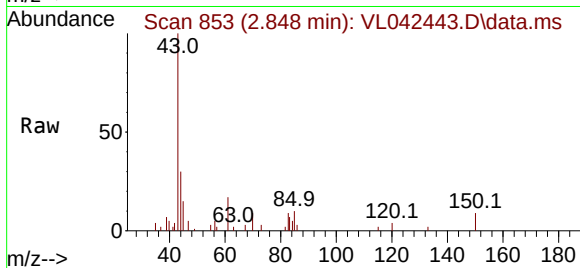




#25  
Ethyl Acetate  
Concen: 0.042 ppbv  
RT: 2.848 min Scan# 81  
Delta R.T. 0.013 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

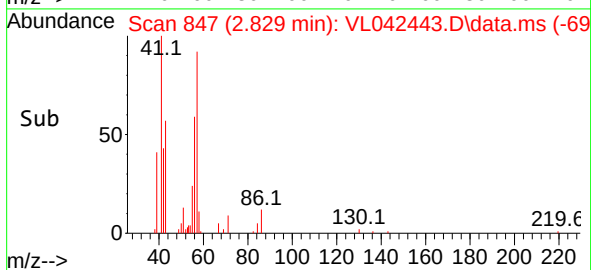
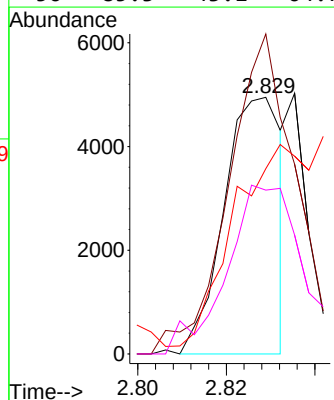
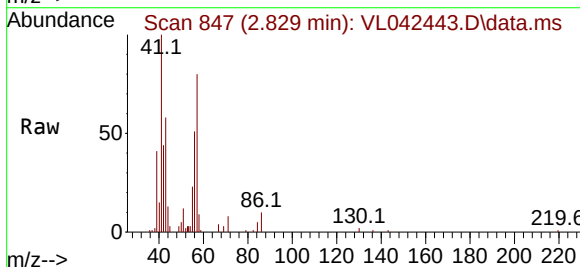
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

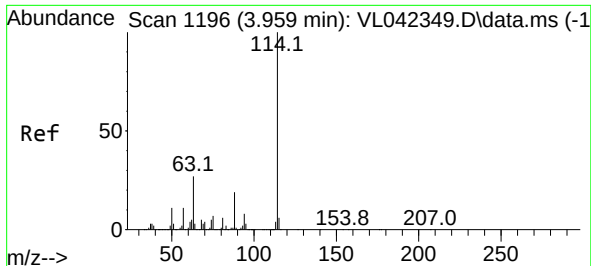
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1953  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 50.2  | 8.3   | 12.5# |
| 61       | 26.9  | 7.3   | 10.9# |
| 70       | 41.5  | 7.0   | 10.6# |



#26  
Hexane  
Concen: 0.235 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 4458   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 146.5 | 77.9  | 116.9# |
| 43       | 0.0   | 208.4 | 312.6# |
| 56       | 85.3  | 43.1  | 64.7#  |

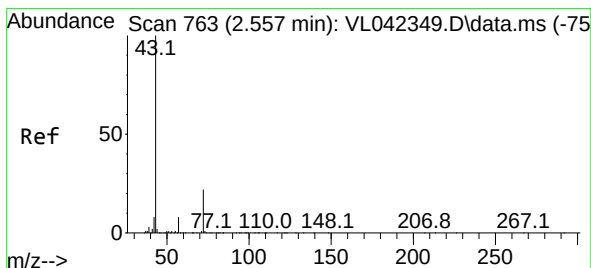
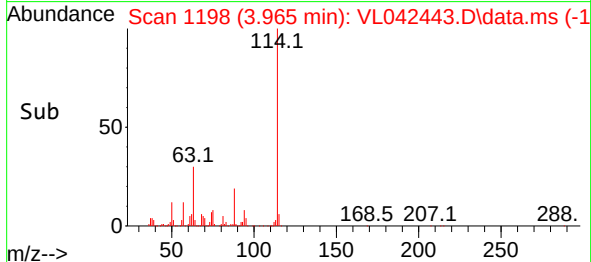
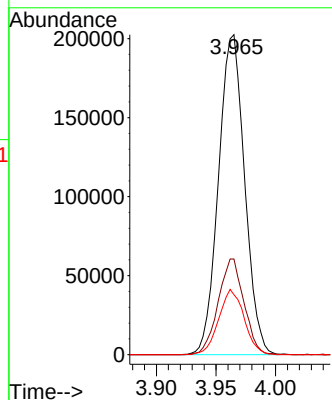
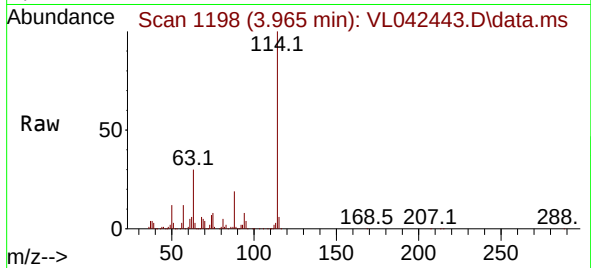




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1196  
Delta R.T. 0.006 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

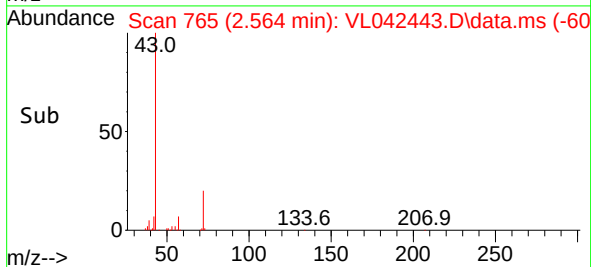
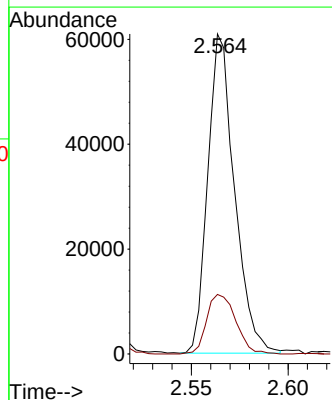
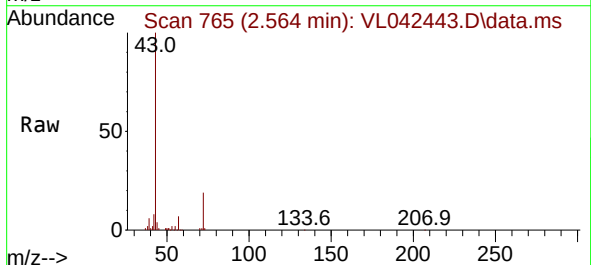
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

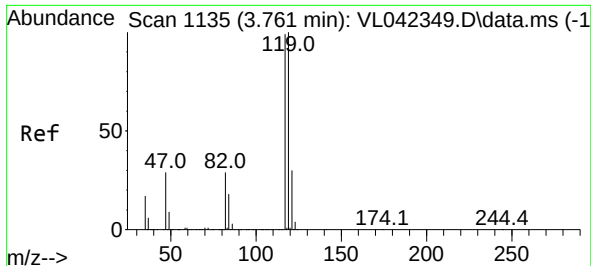
Tgt Ion:114 Resp: 309224  
Ion Ratio Lower Upper  
114 100  
63 29.4 21.8 32.6  
88 19.8 15.5 23.3



#34  
2-Butanone  
Concen: 2.392 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.006 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 43 Resp: 58507  
Ion Ratio Lower Upper  
43 100  
72 20.4 18.2 27.2

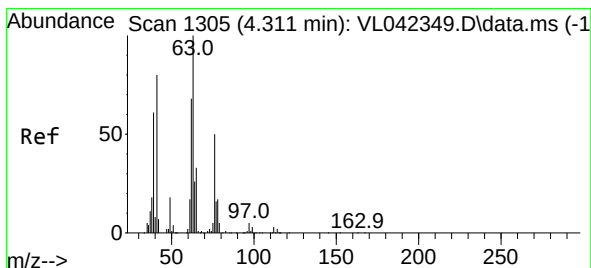
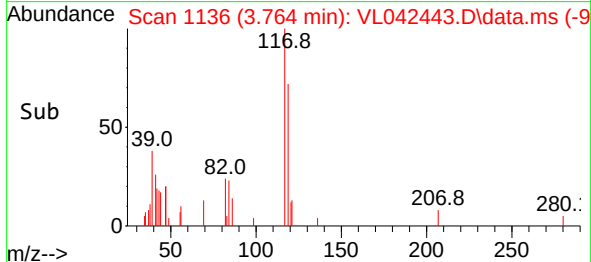
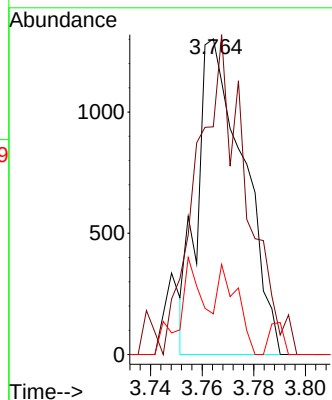
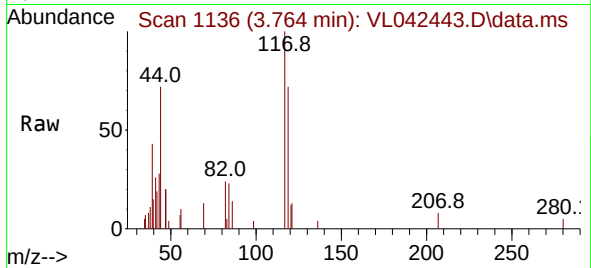




#35  
Carbon Tetrachloride  
Concen: 0.058 ppbv  
RT: 3.764 min Scan# 1135  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

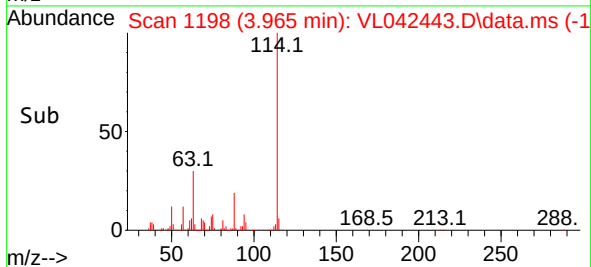
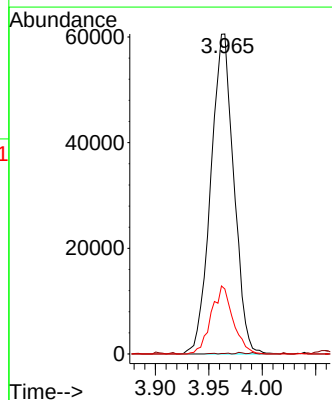
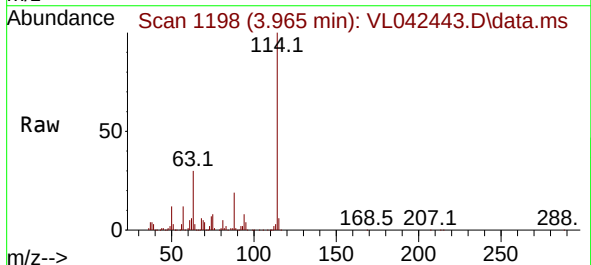
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

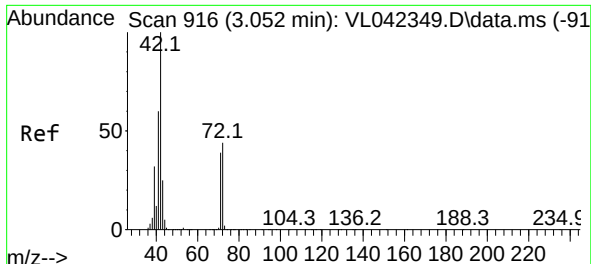
Tgt Ion:117 Resp: 1618  
Ion Ratio Lower Upper  
117 100  
119 65.9 80.5 120.7#  
121 5.1 24.2 36.2#



#39  
1,2-Dichloropropane  
Concen: 7.316 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. -0.346 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 63 Resp: 90929  
Ion Ratio Lower Upper  
63 100  
41 0.1 64.2 96.2#  
62 20.3 54.3 81.5#

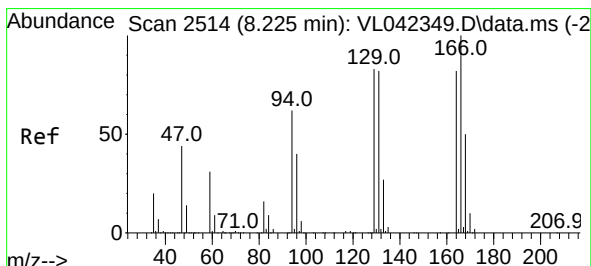
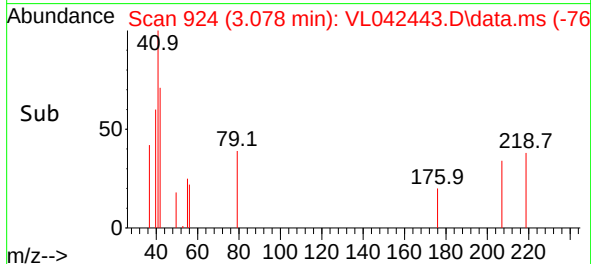
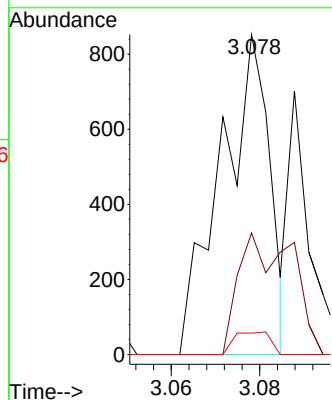
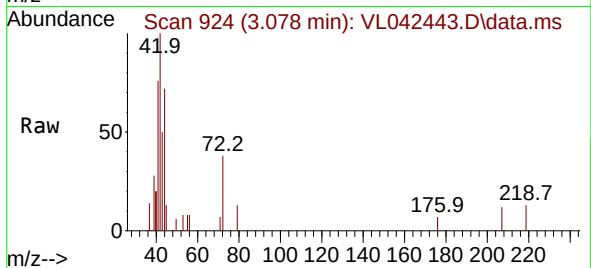




#41  
Tetrahydrofuran  
Concen: 0.046 ppbv  
RT: 3.078 min Scan# 916  
Delta R.T. 0.026 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

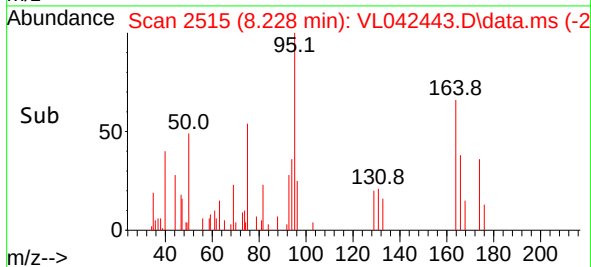
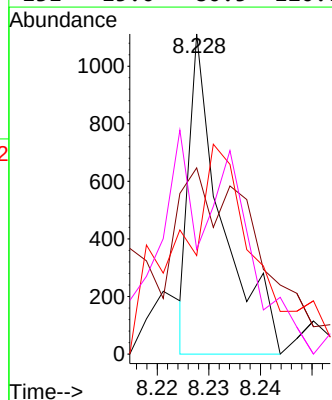
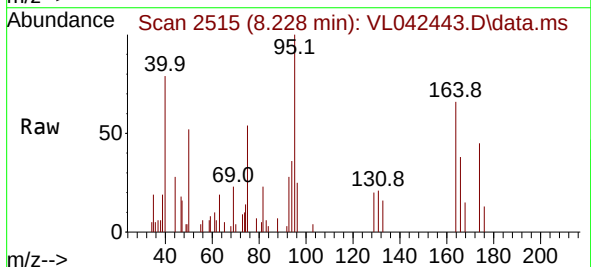
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

Tgt Ion: 42 Resp: 653  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.3 48.5#  
71 5.2 31.4 47.2#

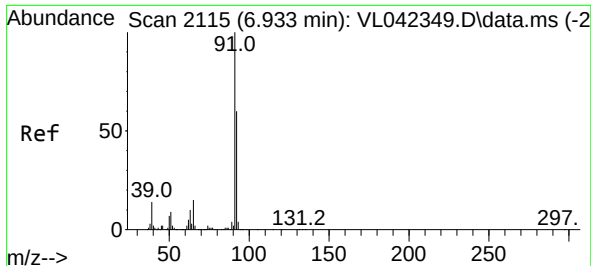


#52  
Tetrachloroethene  
Concen: 0.038 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 164 Resp: 484  
Ion Ratio Lower Upper  
164 100  
166 36.6 98.2 147.2#  
129 17.4 81.8 122.8#  
131 15.0 80.5 120.7#







#53

Toluene

Concen: 0.064 ppbv

RT: 6.943 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA\_L

ClientSampleId :

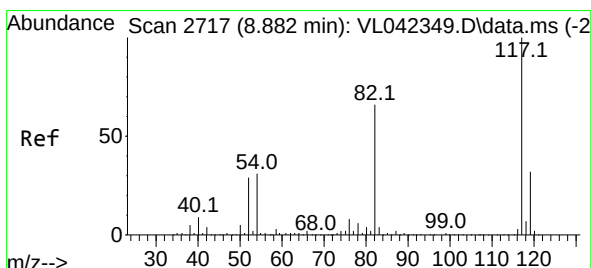
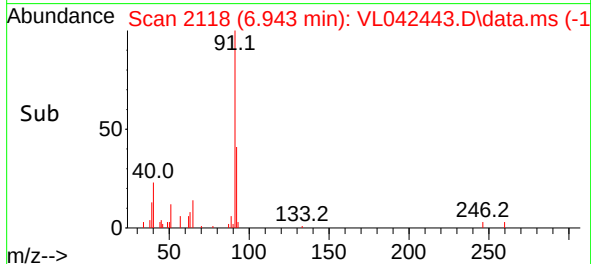
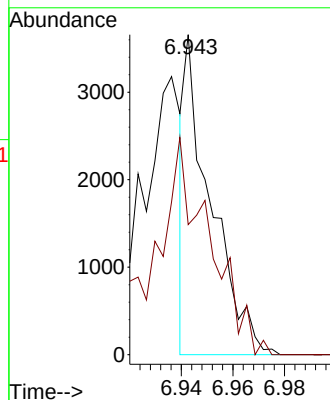
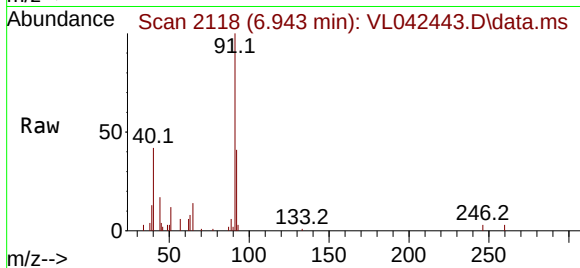
B-1

Tgt Ion: 91 Resp: 2557

Ion Ratio Lower Upper

91 100

92 142.0 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.006 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

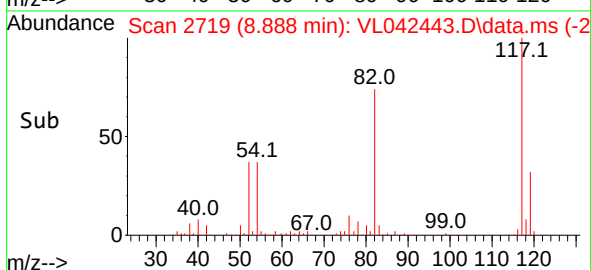
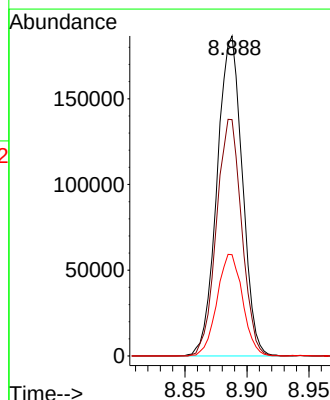
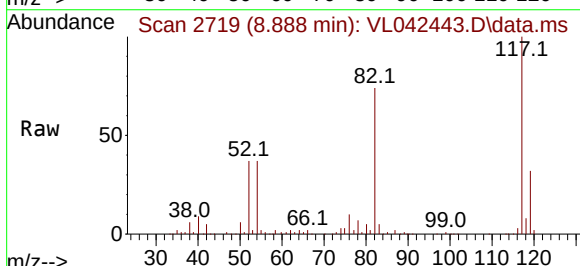
Tgt Ion: 117 Resp: 265424

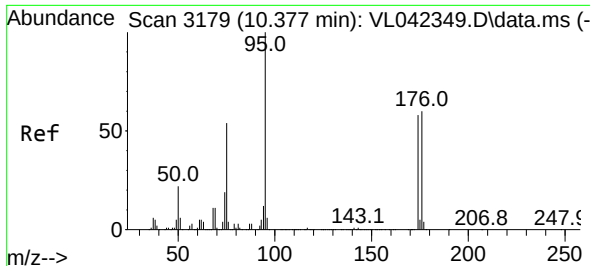
Ion Ratio Lower Upper

117 100

82 73.9 57.8 86.6

119 32.1 25.2 37.8

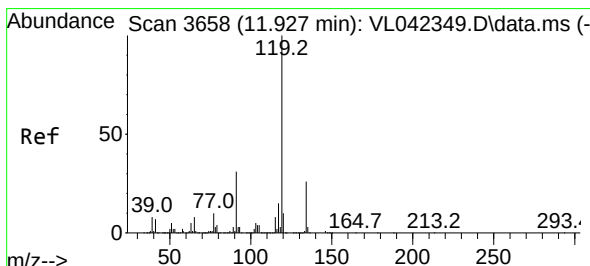
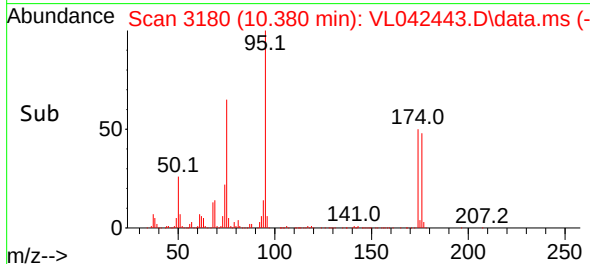
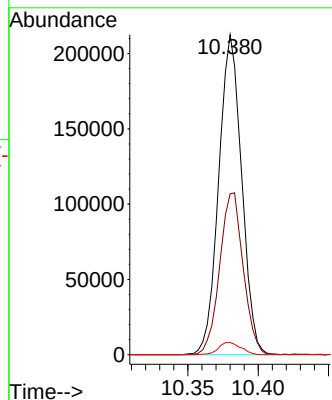
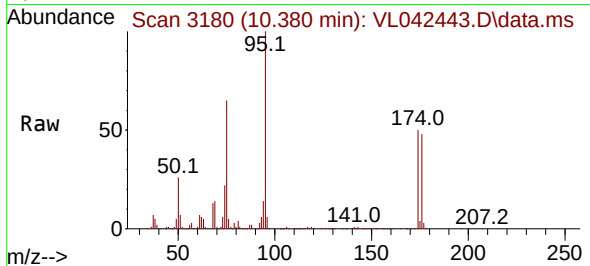




#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.031 ppbv  
RT: 10.380 min Scan# 3179  
Delta R.T. 0.003 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

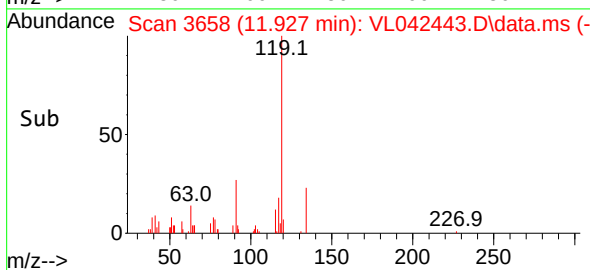
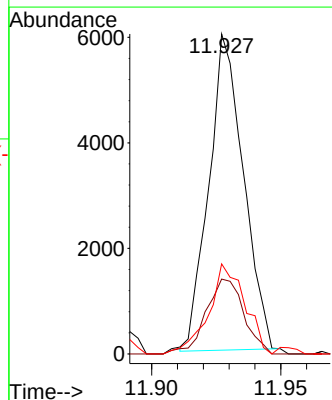
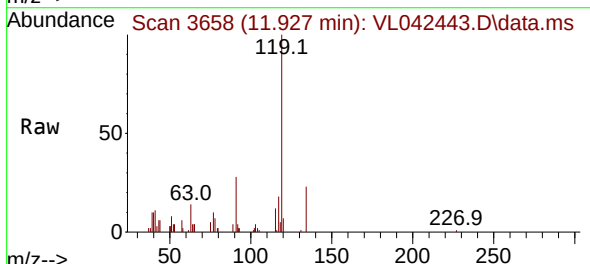
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-1

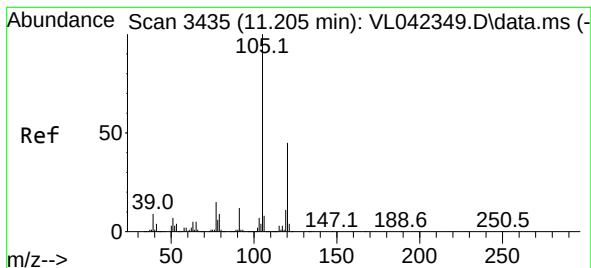
Tgt Ion: 95 Resp: 240596  
Ion Ratio Lower Upper  
95 100  
174 52.0 48.5 72.7  
175 3.7 3.7 5.5



#69  
p-Isopropyltoluene  
Concen: 0.080 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. -0.000 min  
Lab File: VL042443.D  
Acq: 29 Apr 2025 13:11

Tgt Ion: 119 Resp: 5582  
Ion Ratio Lower Upper  
119 100  
134 25.9 20.0 30.0  
91 30.8 24.4 36.6





#73

1,3,5-Trimethylbenzene

Concen: 0.050 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA\_L

ClientSampleId :

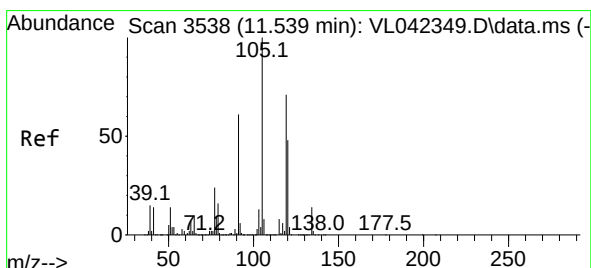
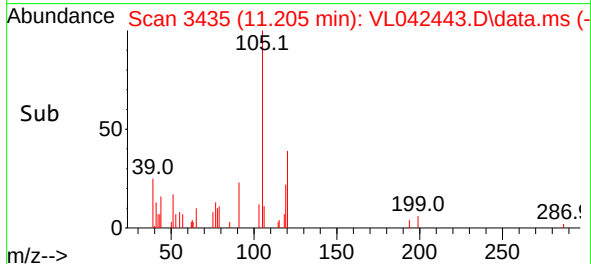
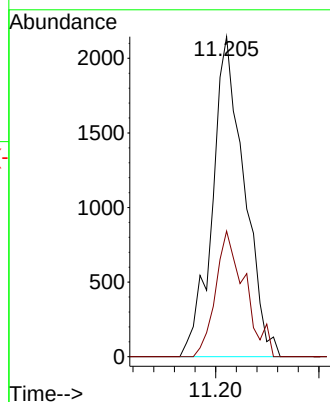
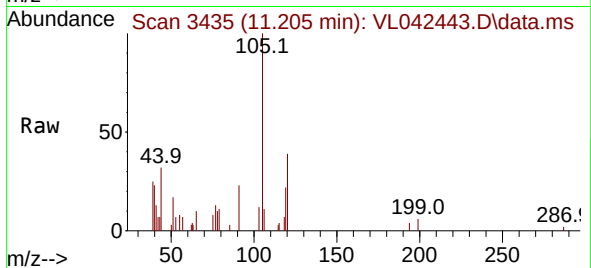
B-1

Tgt Ion:105 Resp: 2303

Ion Ratio Lower Upper

105 100

120 39.3 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.133 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Tgt Ion:105 Resp: 7145

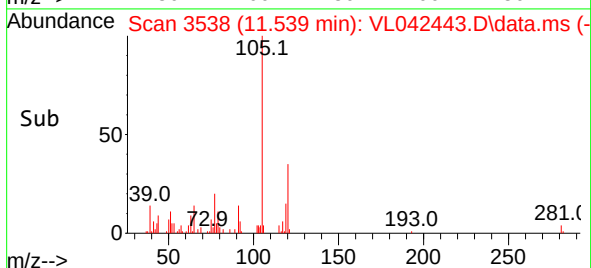
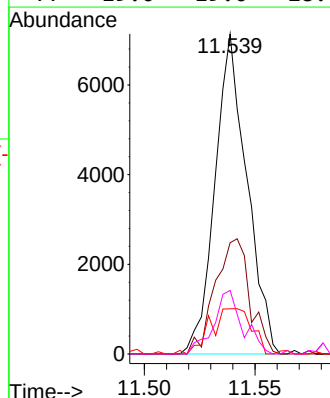
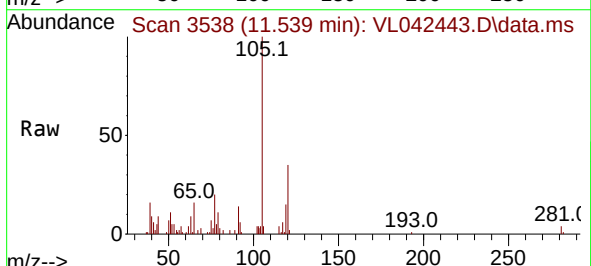
Ion Ratio Lower Upper

105 100

120 33.3 38.1 57.1#

91 12.7 48.8 73.2#

77 19.0 19.0 28.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042445.D  
 Acq On : 29 Apr 2025 14:19  
 Operator : SY/MD  
 Sample : Q1908-03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-3

Quant Time: Apr 30 01:20:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

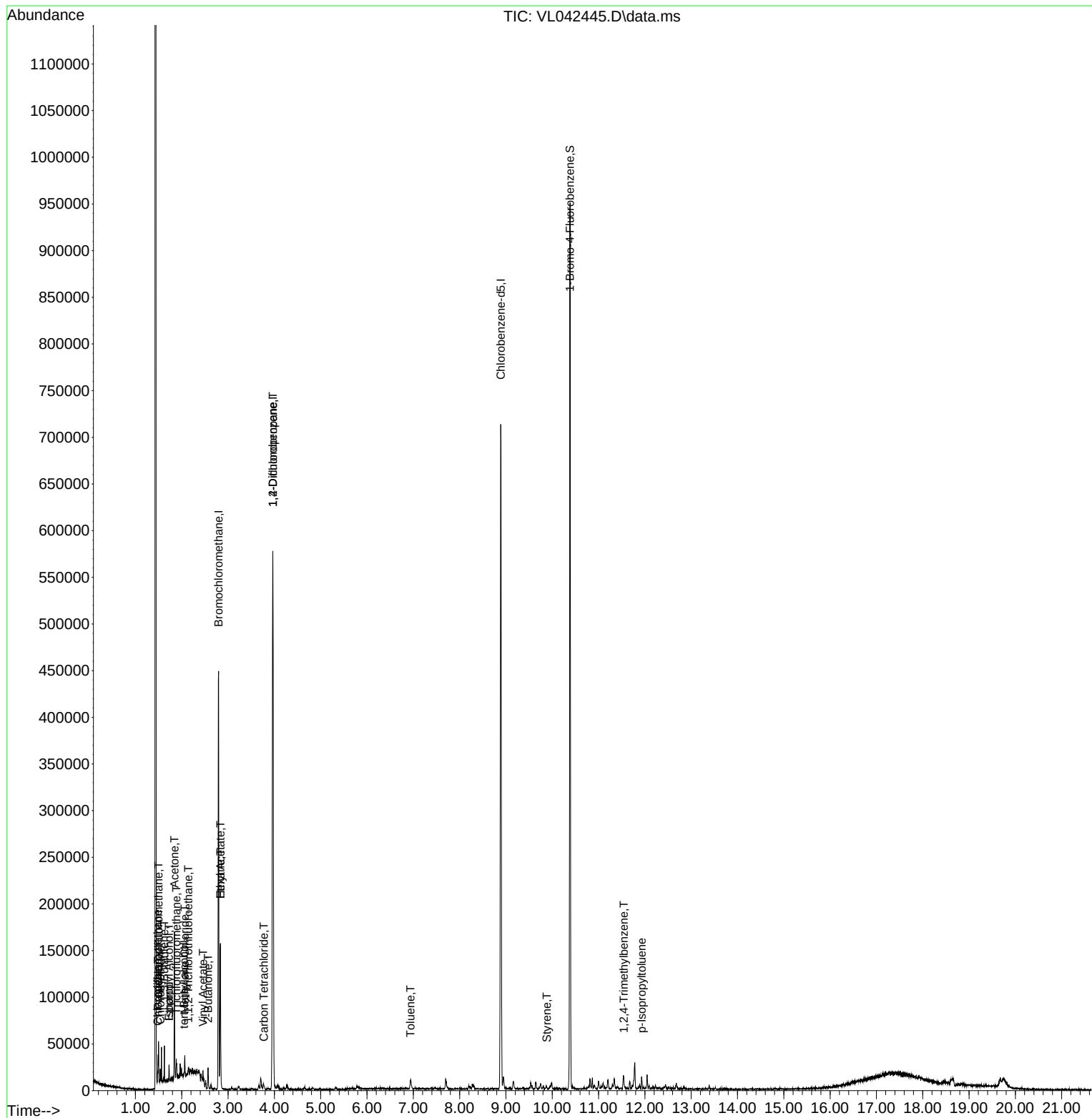
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.794  | 49    | 116924   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.966  | 114   | 304231   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.889  | 117   | 256038   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.381 | 95    | 232994   | 11.074   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 110.700% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 10212    | 0.494    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 1.480  | 51    | 6658     | 0.338    | ppbv   | 100      |
| 4) Chloromethane              | 1.535  | 50    | 3848     | 0.471    | ppbv   | 94       |
| 9) Propene                    | 1.490  | 41    | 2081     | 0.232    | ppbv   | 96       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 4449     | 0.226    | ppbv   | 95       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 978      | 0.061    | ppbv # | 75       |
| 13) Ethanol                   | 1.726  | 45    | 6146     | 4.316    | ppbv # | 24       |
| 15) Acetone                   | 1.839  | 43    | 66029    | 3.450    | ppbv   | 97       |
| 16) 1,3-Butadiene             | 1.622  | 39    | 2347     | 0.256    | ppbv # | 16       |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 965      | 0.041    | ppbv # | 71       |
| 19) Isopropyl Alcohol         | 1.726  | 45    | 6146     | 0.578    | ppbv # | 63       |
| 20) Methylene Chloride        | 2.062  | 84    | 2823     | 0.377    | ppbv # | 81       |
| 23) Vinyl Acetate             | 2.457  | 43    | 5316     | 0.686    | ppbv # | 81       |
| 25) Ethyl Acetate             | 2.833  | 43    | 24301    | 0.515    | ppbv # | 77       |
| 26) Hexane                    | 2.833  | 57    | 34265    | 1.794    | ppbv # | 30       |
| 34) 2-Butanone                | 2.567  | 43    | 12554    | 0.522    | ppbv   | 97       |
| 35) Carbon Tetrachloride      | 3.775  | 117   | 1499     | 0.054    | ppbv # | 64       |
| 39) 1,2-Dichloropropane       | 3.966  | 63    | 85815    | 7.018    | ppbv # | 24       |
| 53) Toluene                   | 6.940  | 91    | 6054     | 0.154    | ppbv   | 97       |
| 61) Styrene                   | 9.882  | 104   | 590      | 0.030    | ppbv # | 30       |
| 69) p-Isopropyltoluene        | 11.931 | 119   | 4106     | 0.061    | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 11.543 | 105   | 2714     | 0.052    | ppbv # | 60       |
| -----                         |        |       |          |          |        |          |

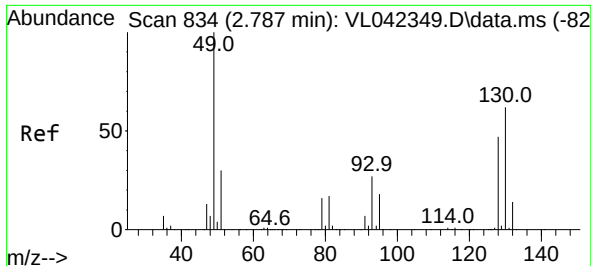
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
Data File : VL042445.D  
Acq On : 29 Apr 2025 14:19  
Operator : SY/MD  
Sample : Q1908-03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

Quant Time: Apr 30 01:20:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration

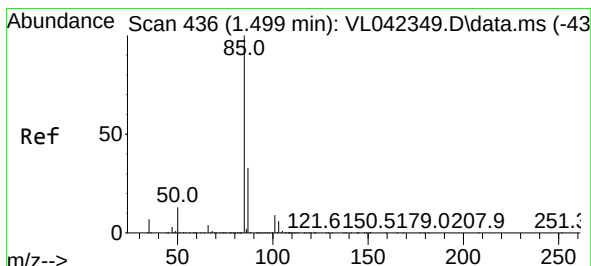
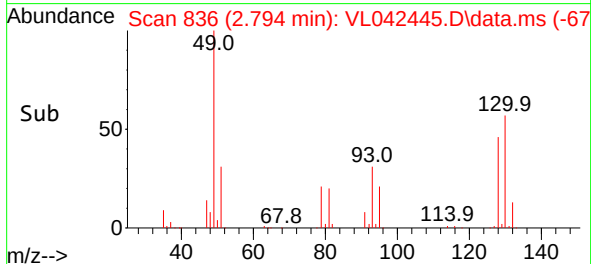
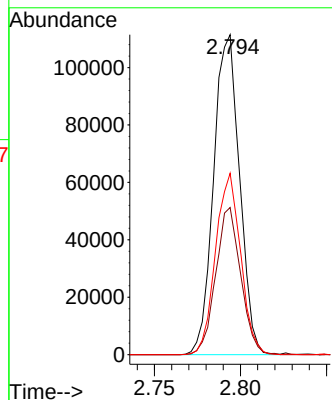
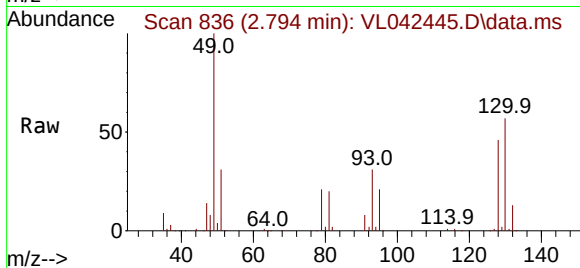




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 81  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

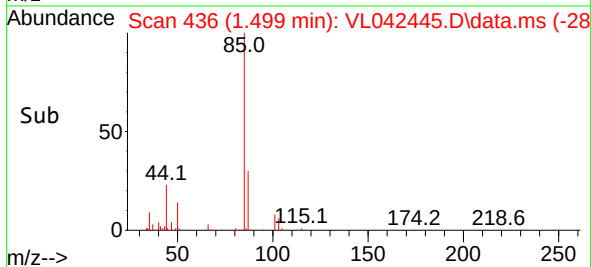
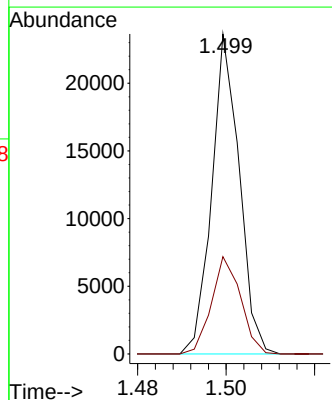
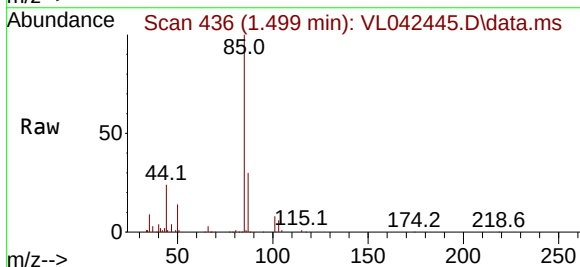
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

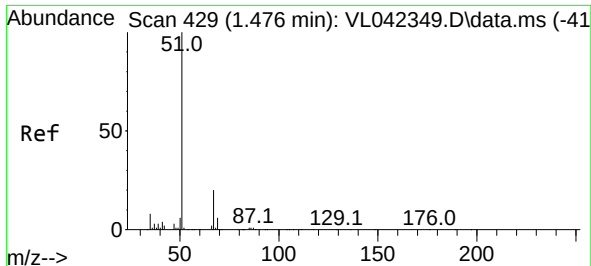
Tgt Ion: 49 Resp: 116924  
Ion Ratio Lower Upper  
49 100  
128 44.4 22.8 68.4  
130 54.8 29.3 88.0



#2  
Dichlorodifluoromethane  
Concen: 0.494 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.001 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 85 Resp: 10212  
Ion Ratio Lower Upper  
85 100  
87 30.4 26.6 39.8

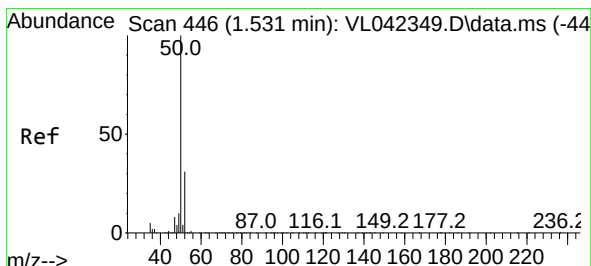
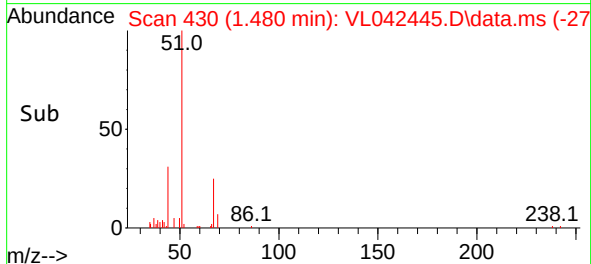
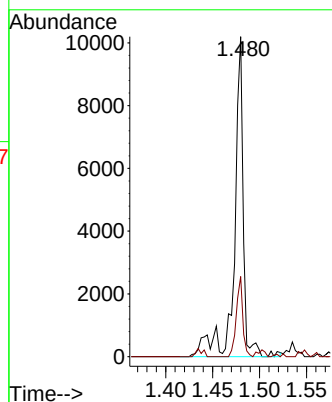
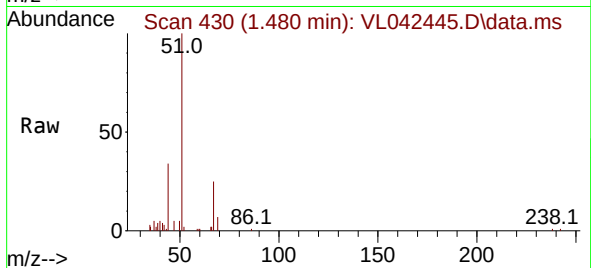




#3  
Chlorodifluoromethane  
Concen: 0.338 ppbv  
RT: 1.480 min Scan# 41  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

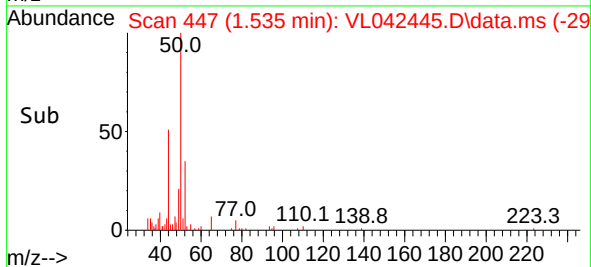
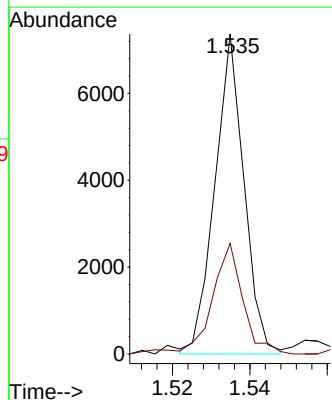
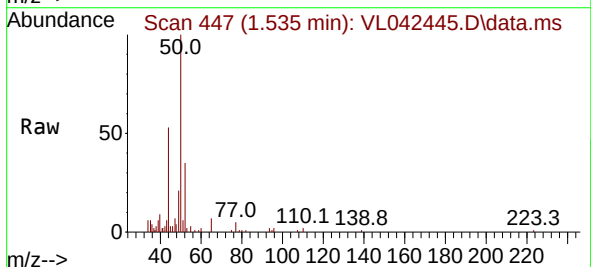
Instrument :  
MSVOA\_1  
ClientSampleId :  
B-3

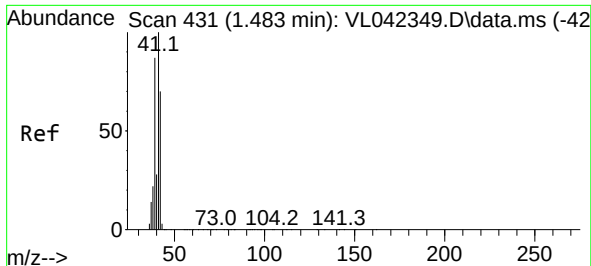
Tgt Ion: 51 Resp: 6658  
Ion Ratio Lower Upper  
51 100  
67 20.4 16.2 24.4



#4  
Chloromethane  
Concen: 0.471 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 50 Resp: 3848  
Ion Ratio Lower Upper  
50 100  
52 34.2 24.7 37.1





#9

Propene

Concen: 0.232 ppbv

RT: 1.490 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA\_L

ClientSampleId :

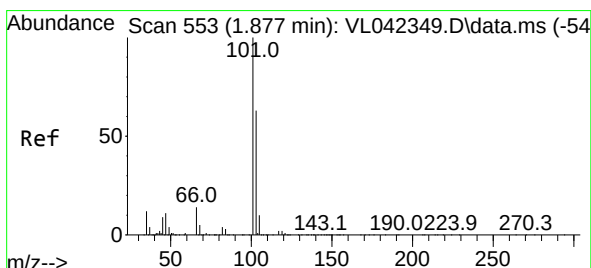
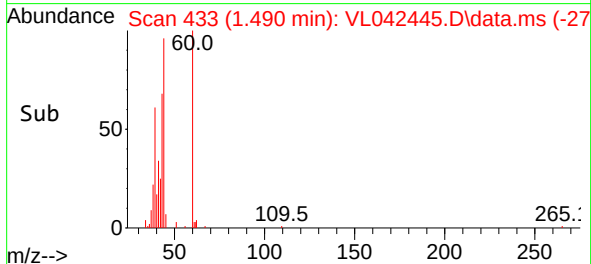
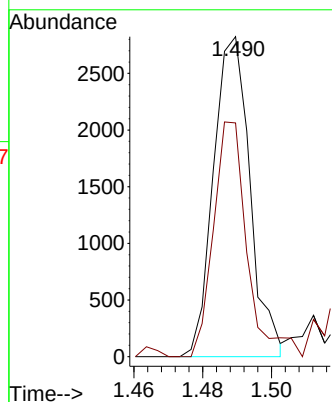
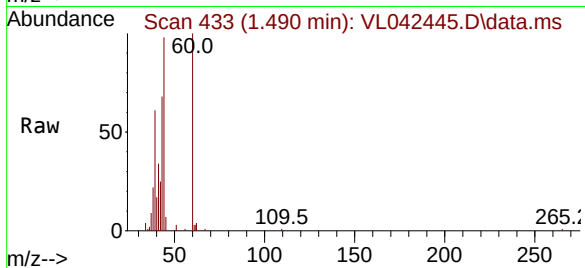
B-3

Tgt Ion: 41 Resp: 2081

Ion Ratio Lower Upper

41 100

42 67.3 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.004 min

Lab File: VL042445.D

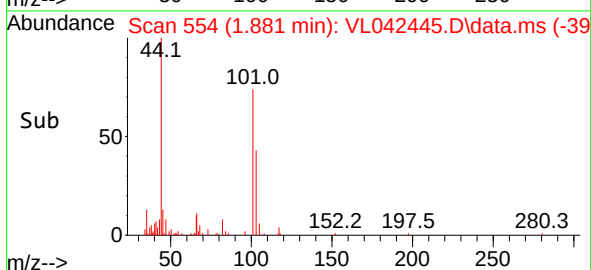
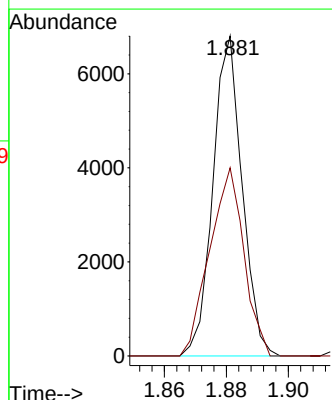
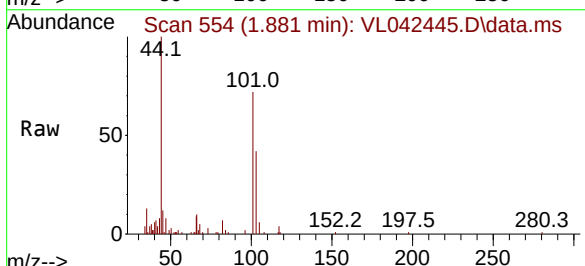
Acq: 29 Apr 2025 14:19

Tgt Ion: 101 Resp: 4449

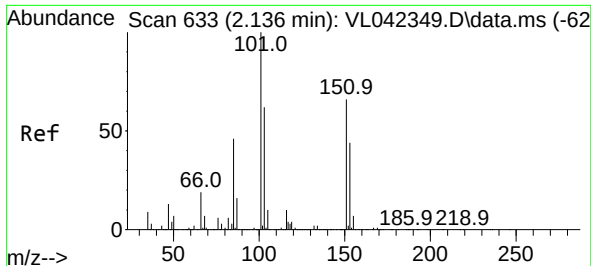
Ion Ratio Lower Upper

101 100

103 58.8 50.1 75.1



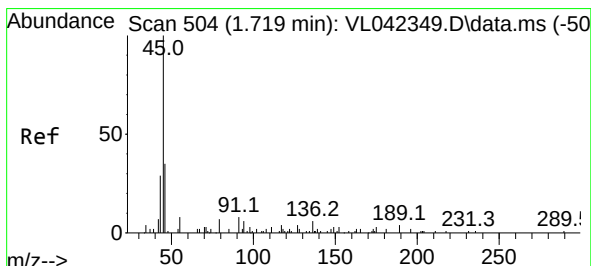
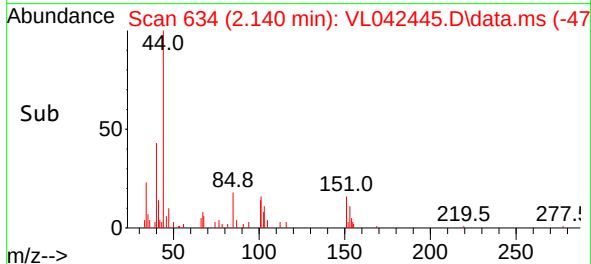
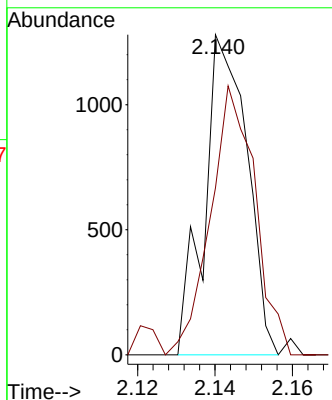
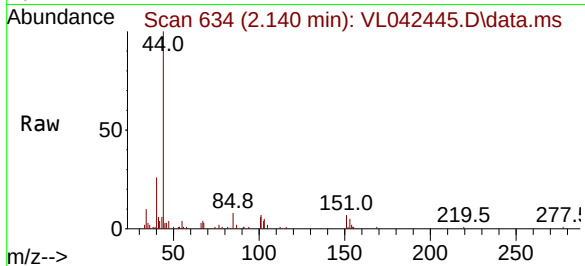




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.061 ppbv  
RT: 2.140 min Scan# 61  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

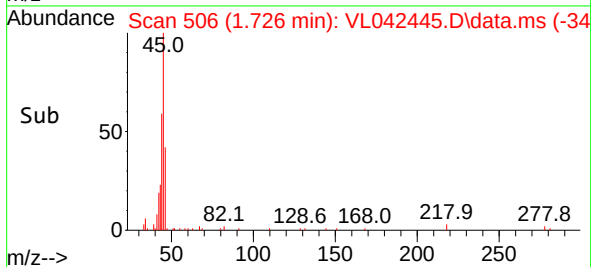
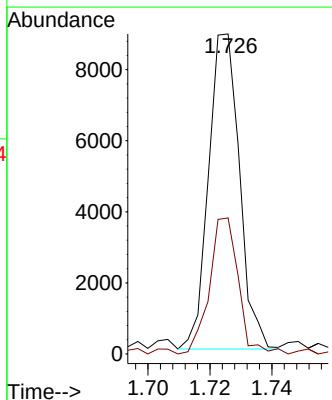
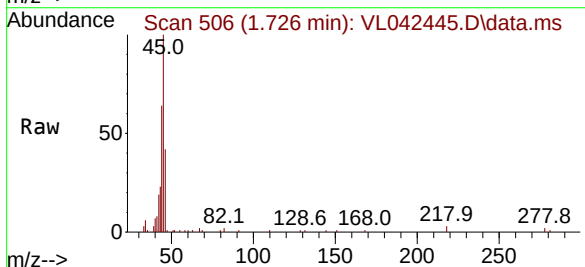
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

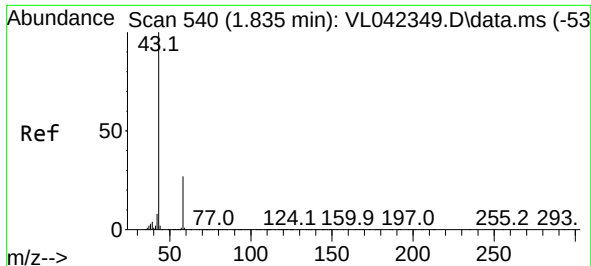
Tgt Ion:101 Resp: 978  
Ion Ratio Lower Upper  
101 100  
151 91.8 57.0 85.6#



#13  
Ethanol  
Concen: 4.316 ppbv  
RT: 1.726 min Scan# 506  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 45 Resp: 6146  
Ion Ratio Lower Upper  
45 100  
46 0.0 21.9 87.7#





#15

Acetone

Concen: 3.450 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA\_L

ClientSampleId :

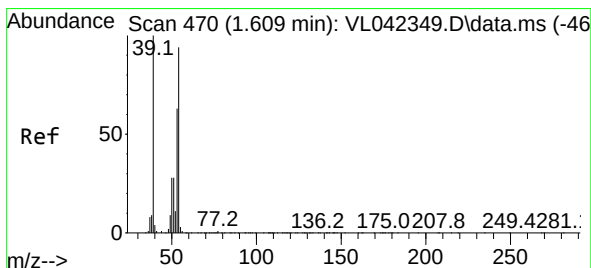
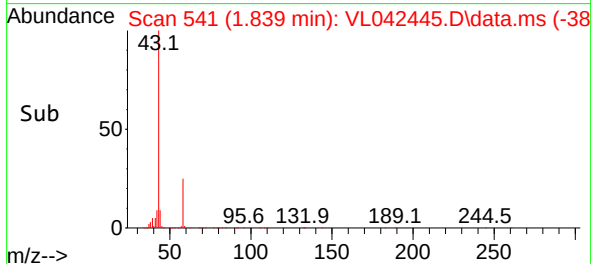
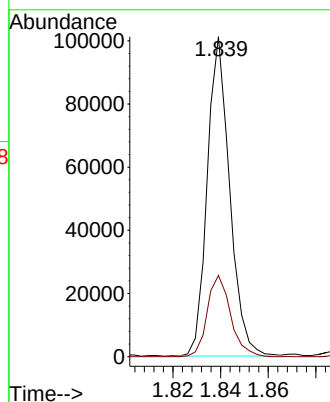
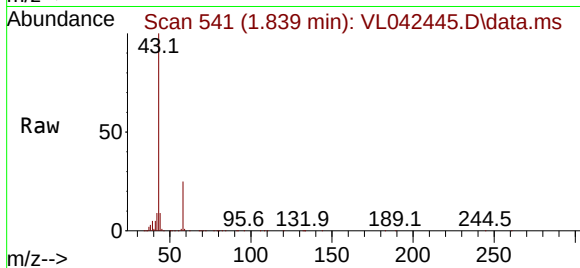
B-3

Tgt Ion: 43 Resp: 66029

Ion Ratio Lower Upper

43 100

58 26.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.256 ppbv

RT: 1.622 min Scan# 474

Delta R.T. 0.013 min

Lab File: VL042445.D

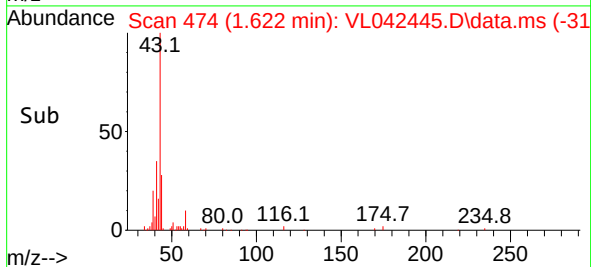
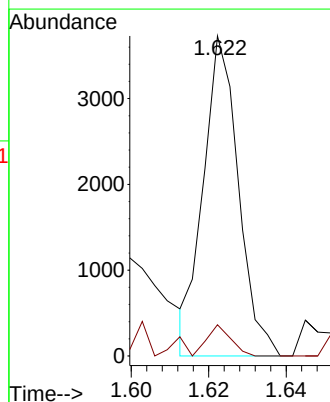
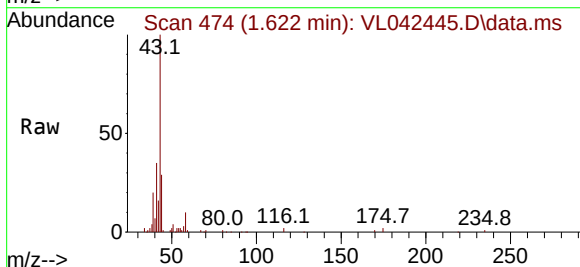
Acq: 29 Apr 2025 14:19

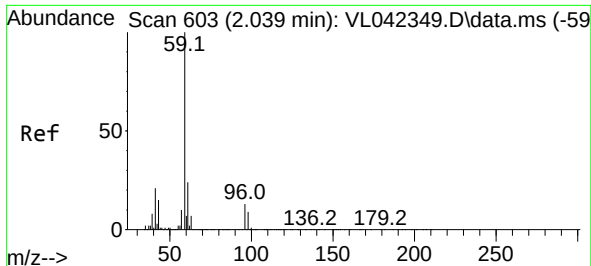
Tgt Ion: 39 Resp: 2347

Ion Ratio Lower Upper

39 100

54 6.6 64.9 97.3#

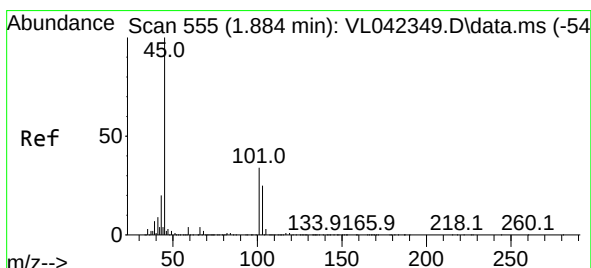
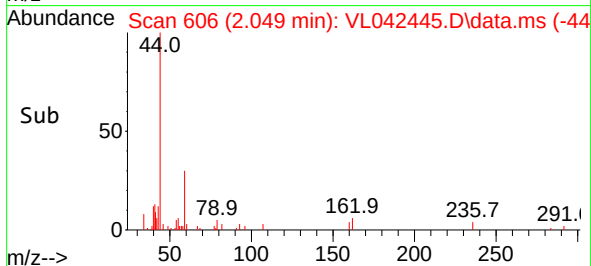
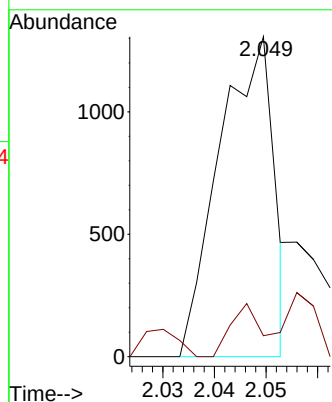
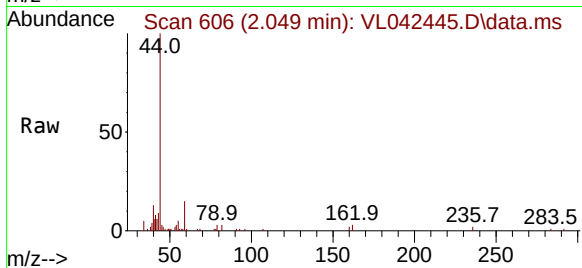




#17  
tert-Butyl alcohol  
Concen: 0.041 ppbv  
RT: 2.049 min Scan# 603  
Delta R.T. 0.010 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

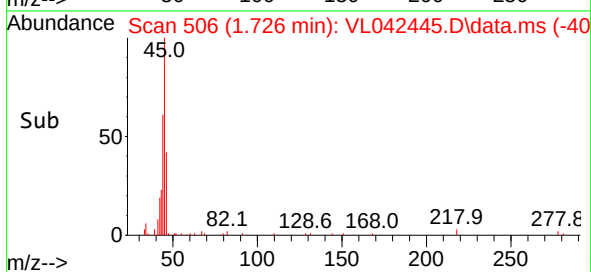
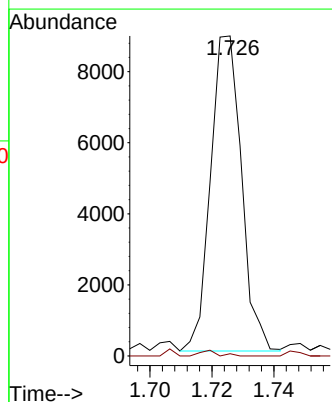
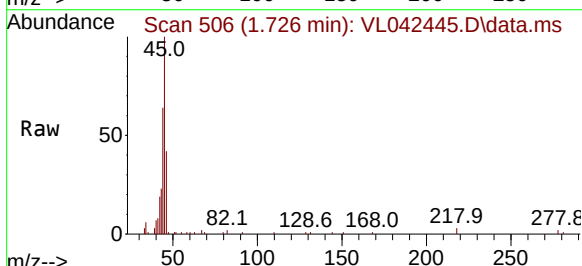
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

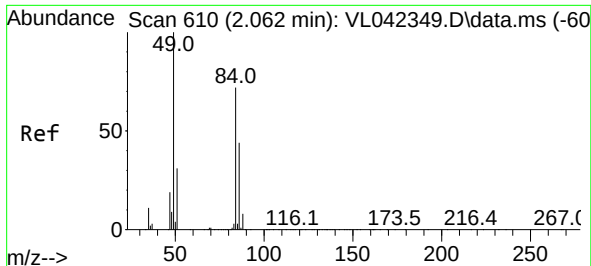
Tgt Ion: 59 Resp: 965  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



#19  
Isopropyl Alcohol  
Concen: 0.578 ppbv  
RT: 1.726 min Scan# 506  
Delta R.T. -0.158 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 45 Resp: 6146  
Ion Ratio Lower Upper  
45 100  
58 19.3 34.5 51.7#





#20

Methylene Chloride

Concen: 0.377 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.000 min

Lab File: VL042445.D

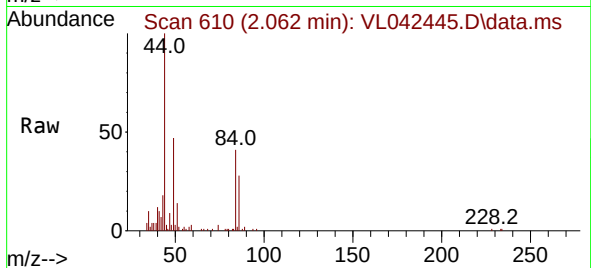
Acq: 29 Apr 2025 14:19

Instrument :

MSVOA\_L

ClientSampleId :

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Tgt Ion: 84 Resp: 2823

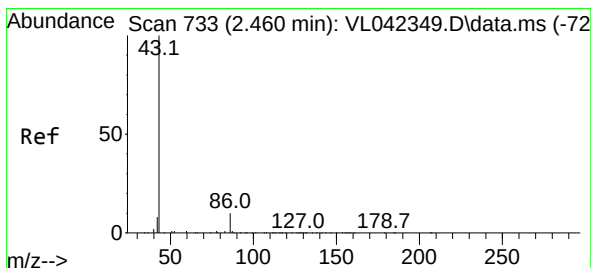
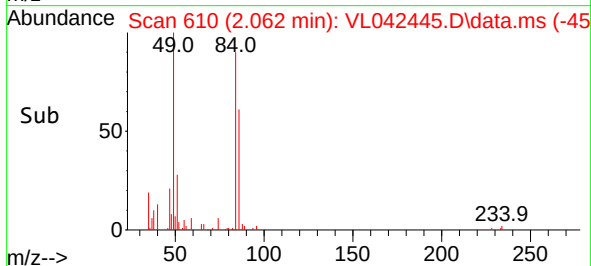
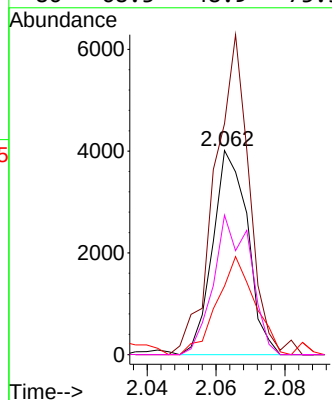
Ion Ratio Lower Upper

84 100

49 110.9 111.6 167.4#

51 33.6 35.1 52.7#

86 68.3 48.9 73.3



#23

Vinyl Acetate

Concen: 0.686 ppbv

RT: 2.457 min Scan# 732

Delta R.T. -0.003 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Tgt Ion: 43 Resp: 5316

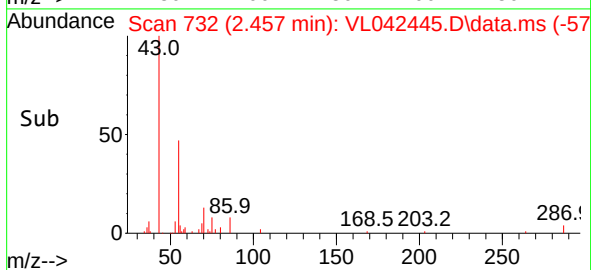
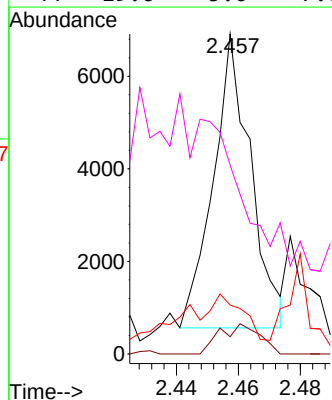
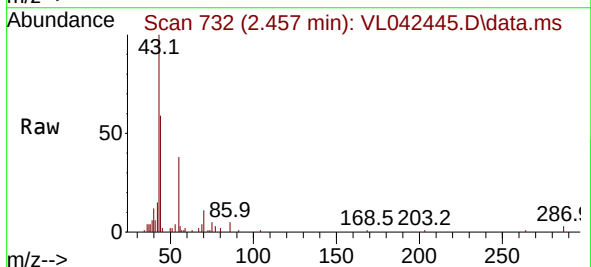
Ion Ratio Lower Upper

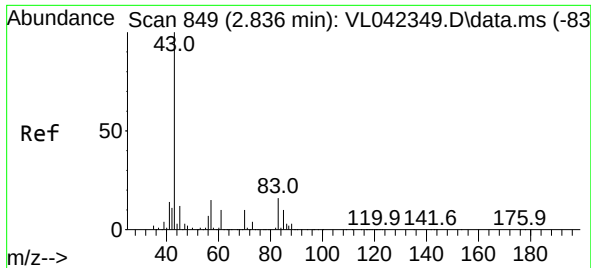
43 100

86 5.9 6.5 9.7#

42 4.1 7.8 11.8#

44 19.6 5.0 7.6#

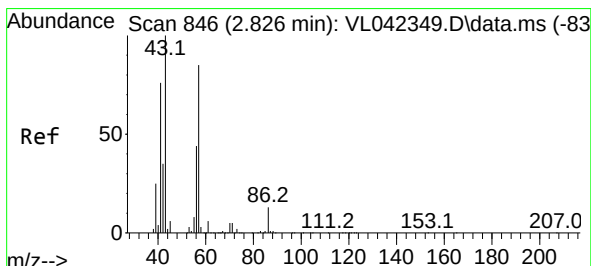
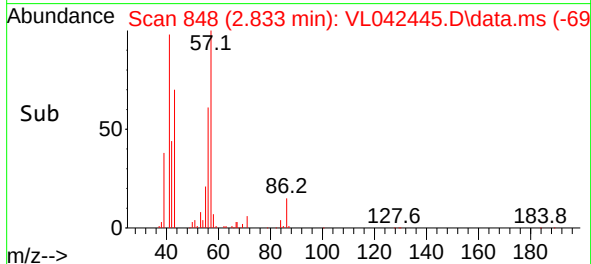
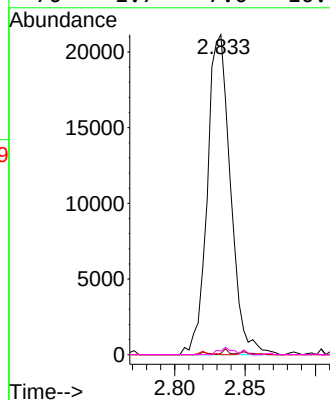
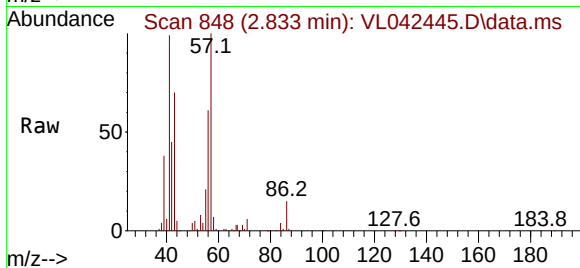




#25  
Ethyl Acetate  
Concen: 0.515 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. -0.003 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

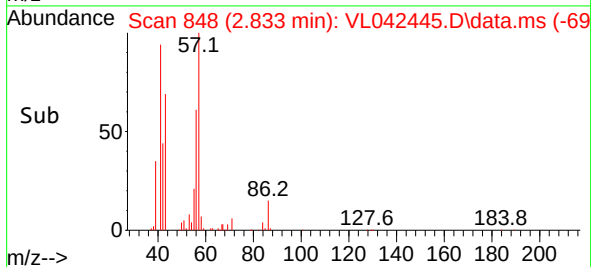
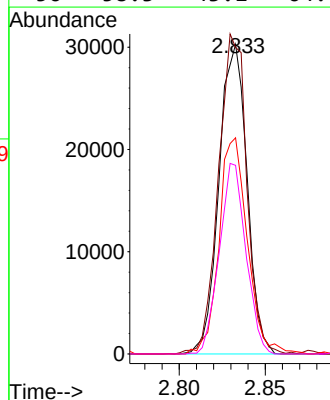
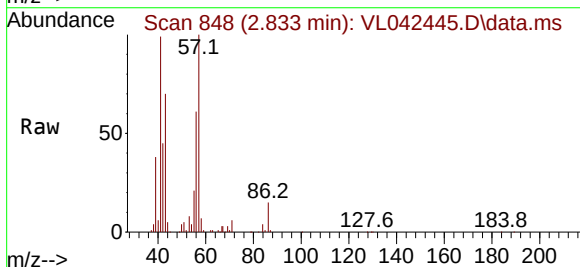
Instrument :  
MSVOA\_L  
ClientSampleId :  
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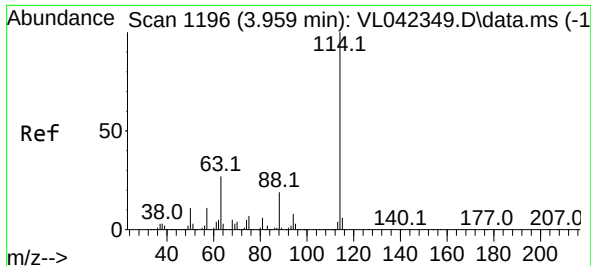
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 24301 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 1.2   | 8.3   | 12.5# |
| 61       | 0.4   | 7.3   | 10.9# |
| 70       | 1.7   | 7.0   | 10.6# |



#26  
Hexane  
Concen: 1.794 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 34265  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 105.5 | 77.9  | 116.9  |
| 43       | 70.9  | 208.4 | 312.6# |
| 56       | 58.3  | 43.1  | 64.7   |

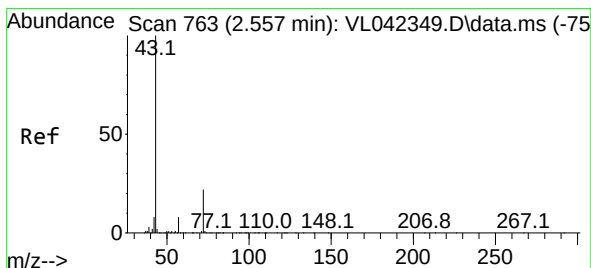
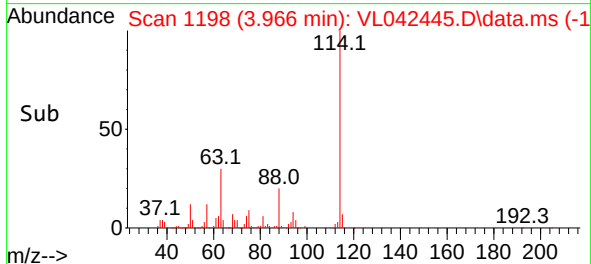
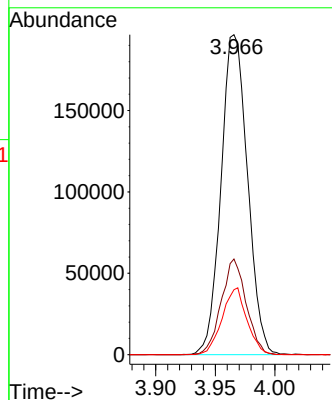
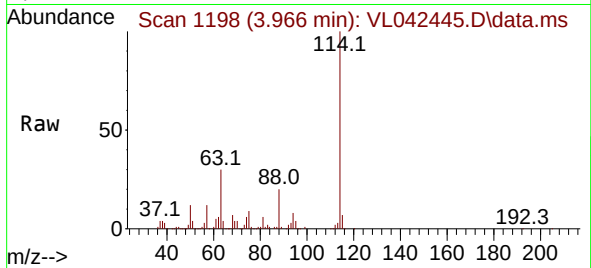




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.966 min Scan# 1196  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

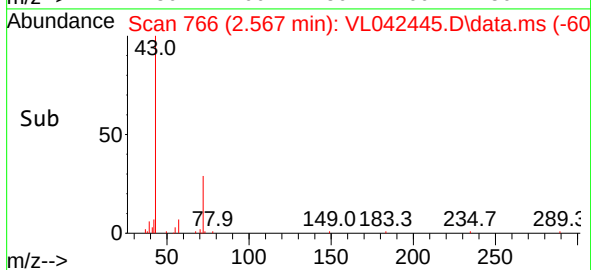
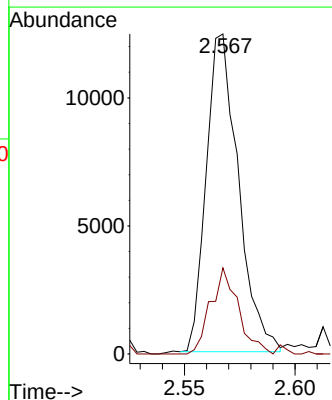
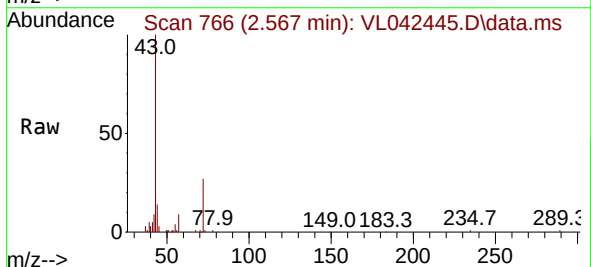
Instrument :  
MSVOA\_L  
ClientSampleId :  
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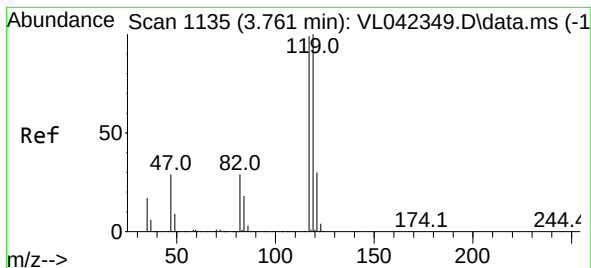
Tgt Ion:114 Resp: 304231  
Ion Ratio Lower Upper  
114 100  
63 28.3 21.8 32.6  
88 19.6 15.5 23.3



#34  
2-Butanone  
Concen: 0.522 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.010 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 43 Resp: 12554  
Ion Ratio Lower Upper  
43 100  
72 24.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.054 ppbv

RT: 3.775 min Scan# 1135

Delta R.T. 0.013 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA\_L

ClientSampleId :

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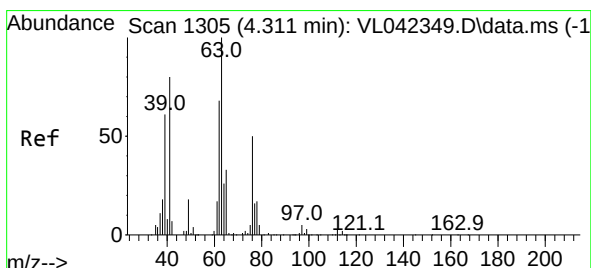
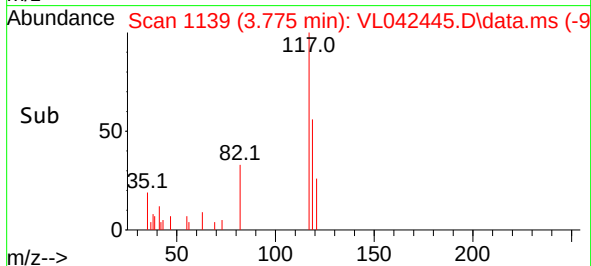
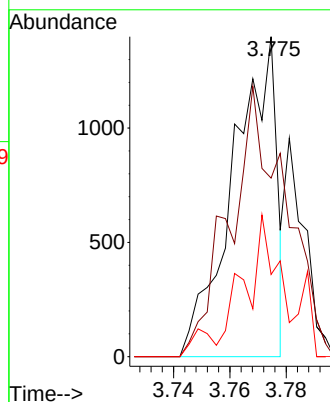
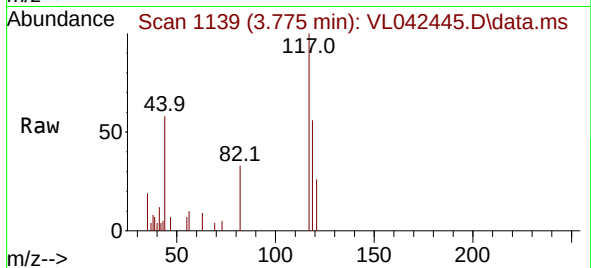
Tgt Ion:117 Resp: 1499

Ion Ratio Lower Upper

117 100

119 55.8 80.5 120.7#

121 25.7 24.2 36.2



#39

1,2-Dichloropropane

Concen: 7.018 ppbv

RT: 3.966 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

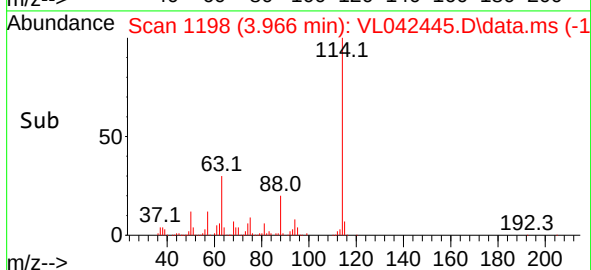
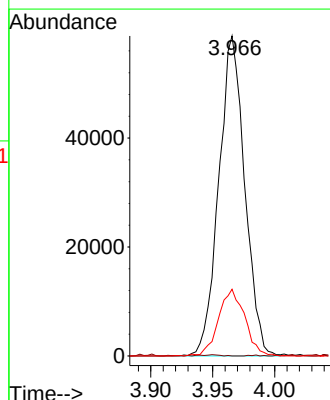
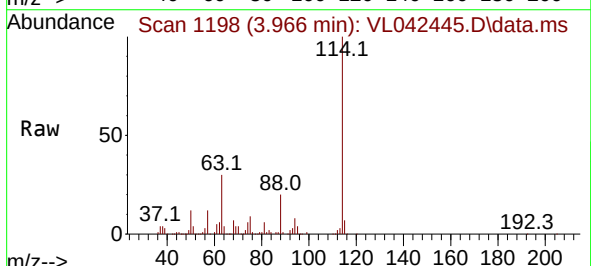
Tgt Ion: 63 Resp: 85815

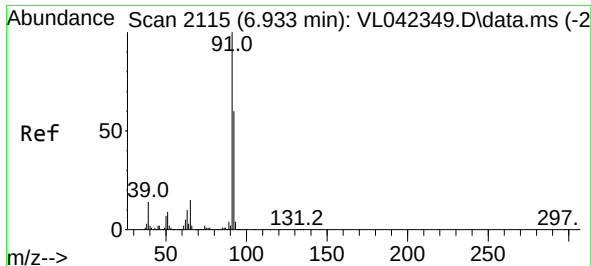
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 20.9 54.3 81.5#

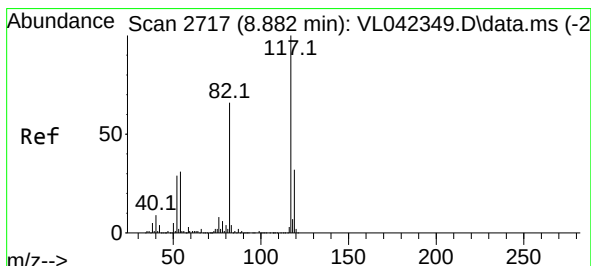
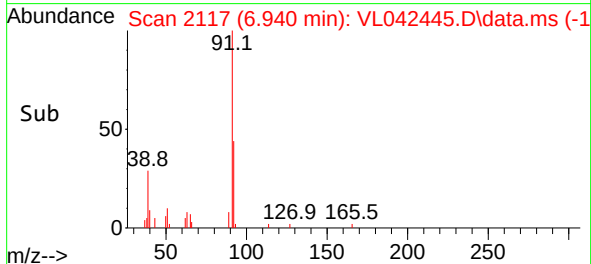
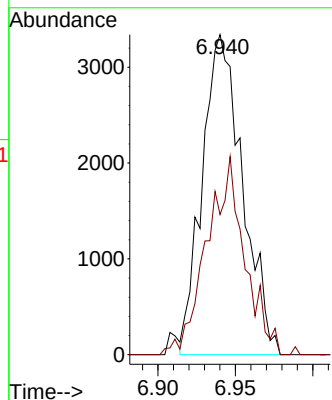
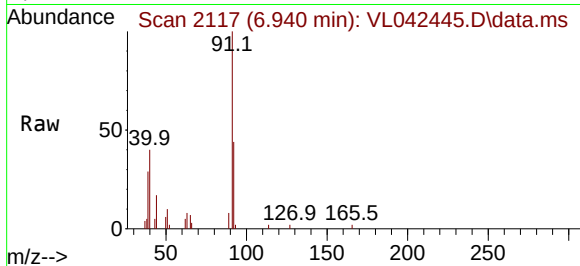




#53  
Toluene  
Concen: 0.154 ppbv  
RT: 6.940 min Scan# 2115  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

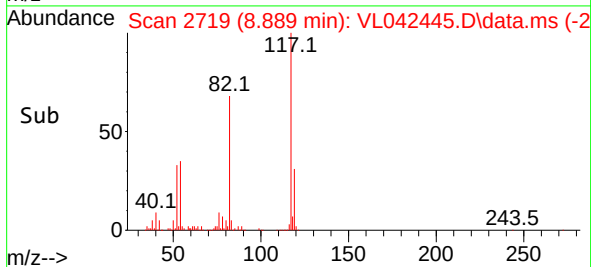
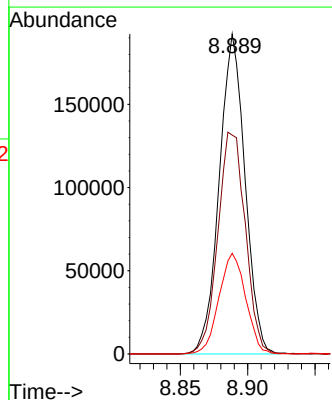
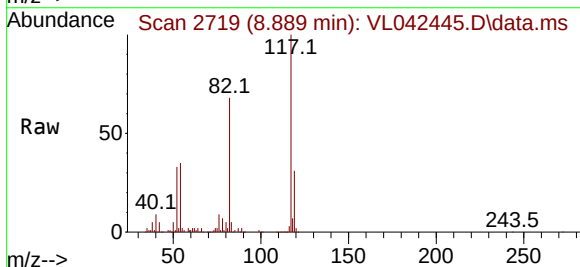
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

Tgt Ion: 91 Resp: 6054  
Ion Ratio Lower Upper  
91 100  
92 58.1 48.2 72.4

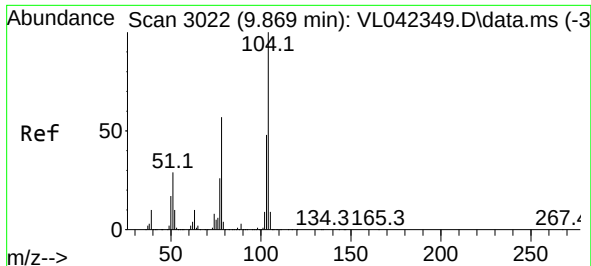


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.889 min Scan# 2719  
Delta R.T. 0.007 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 117 Resp: 256038  
Ion Ratio Lower Upper  
117 100  
82 73.8 57.8 86.6  
119 32.7 25.2 37.8



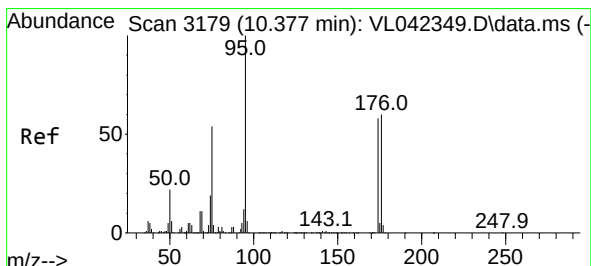
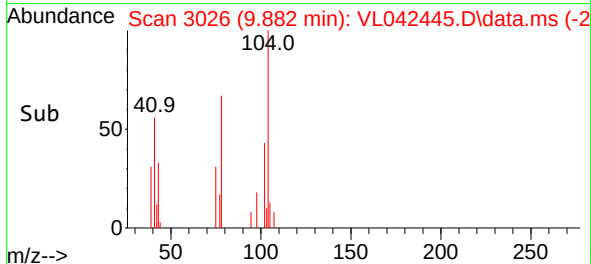
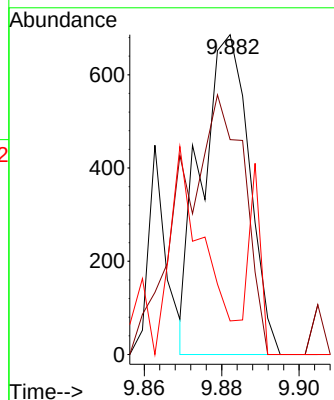
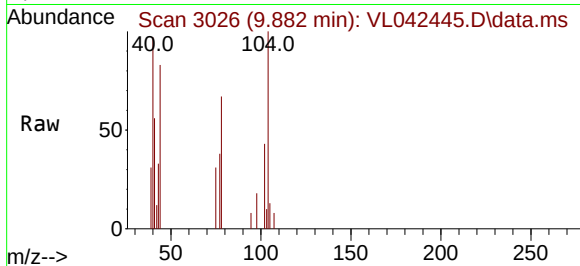




#61  
Styrene  
Concen: 0.030 ppbv  
RT: 9.882 min Scan# 3026  
Delta R.T. 0.013 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

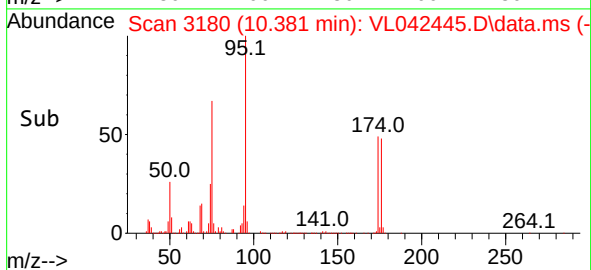
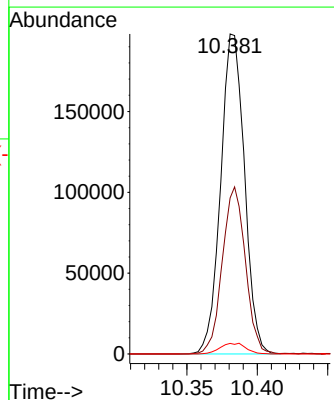
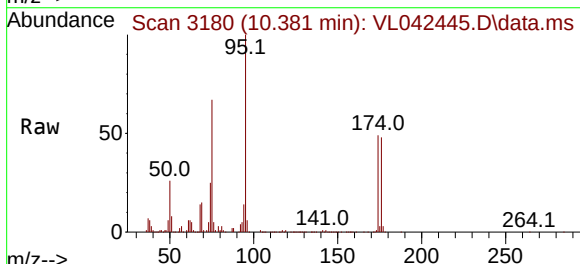
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-3

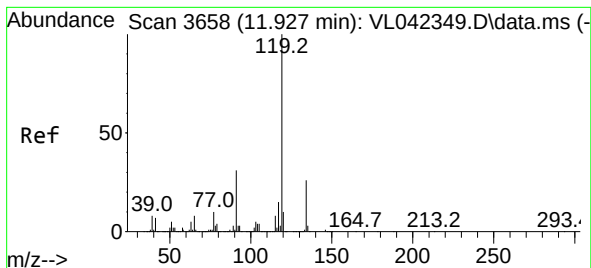
Tgt Ion:104 Resp: 590  
Ion Ratio Lower Upper  
104 100  
78 106.3 44.6 66.8#  
103 0.0 37.4 56.0#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.074 ppbv  
RT: 10.381 min Scan# 3180  
Delta R.T. 0.004 min  
Lab File: VL042445.D  
Acq: 29 Apr 2025 14:19

Tgt Ion: 95 Resp: 232994  
Ion Ratio Lower Upper  
95 100  
174 50.6 48.5 72.7  
175 3.6 3.7 5.5#





#69

p-Isopropyltoluene

Concen: 0.061 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

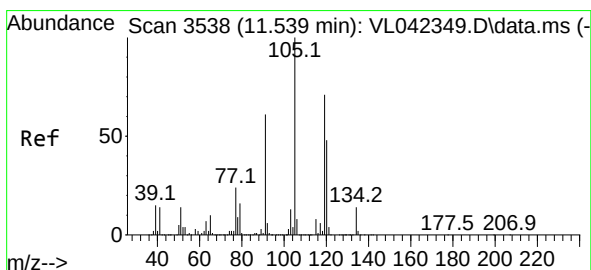
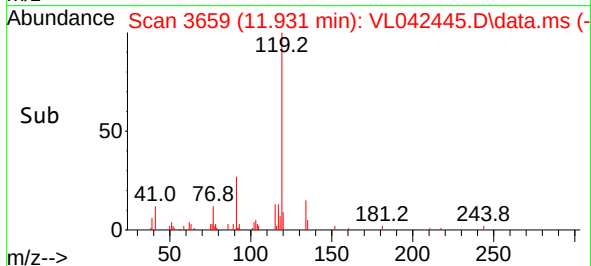
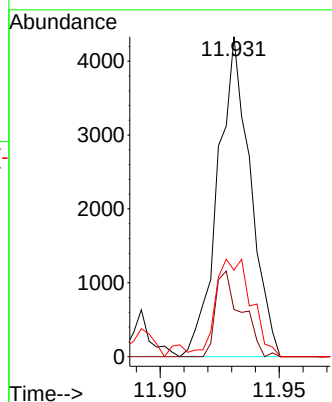
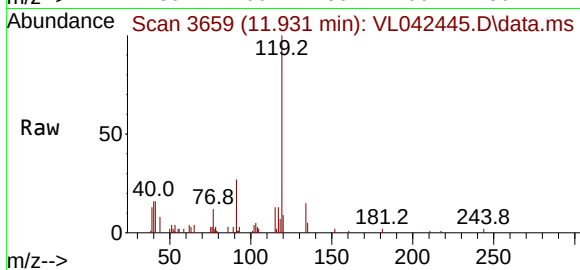
Instrument :

MSVOA\_L

ClientSampleId :

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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 4106  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 21.3  | 20.0  | 30.0  |
| 91       | 35.3  | 24.4  | 36.6  |



#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

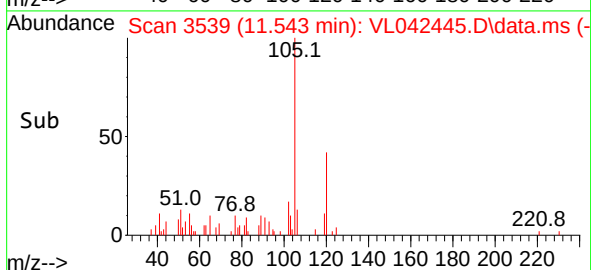
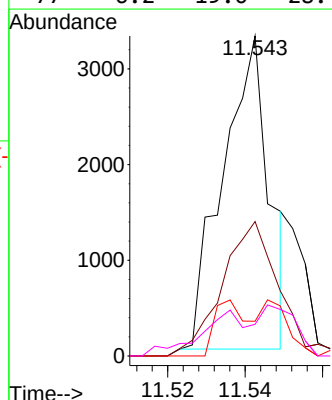
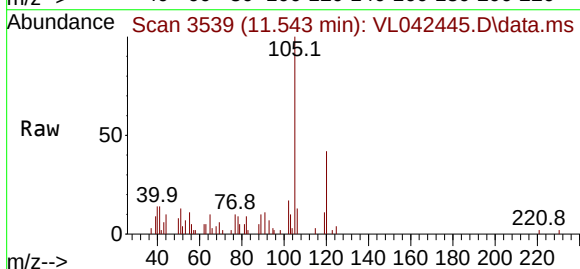
RT: 11.543 min Scan# 3539

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 2714  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 40.5  | 38.1  | 57.1  |
| 91       | 11.1  | 48.8  | 73.2# |
| 77       | 6.2   | 19.0  | 28.4# |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
 Data File : VL042456.D  
 Acq On : 29 Apr 2025 21:58  
 Operator : SY/MD  
 Sample : Q1908-02  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-2

Quant Time: May 01 07:05:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Apr 18 02:14:00 2025  
 Response via : Initial Calibration

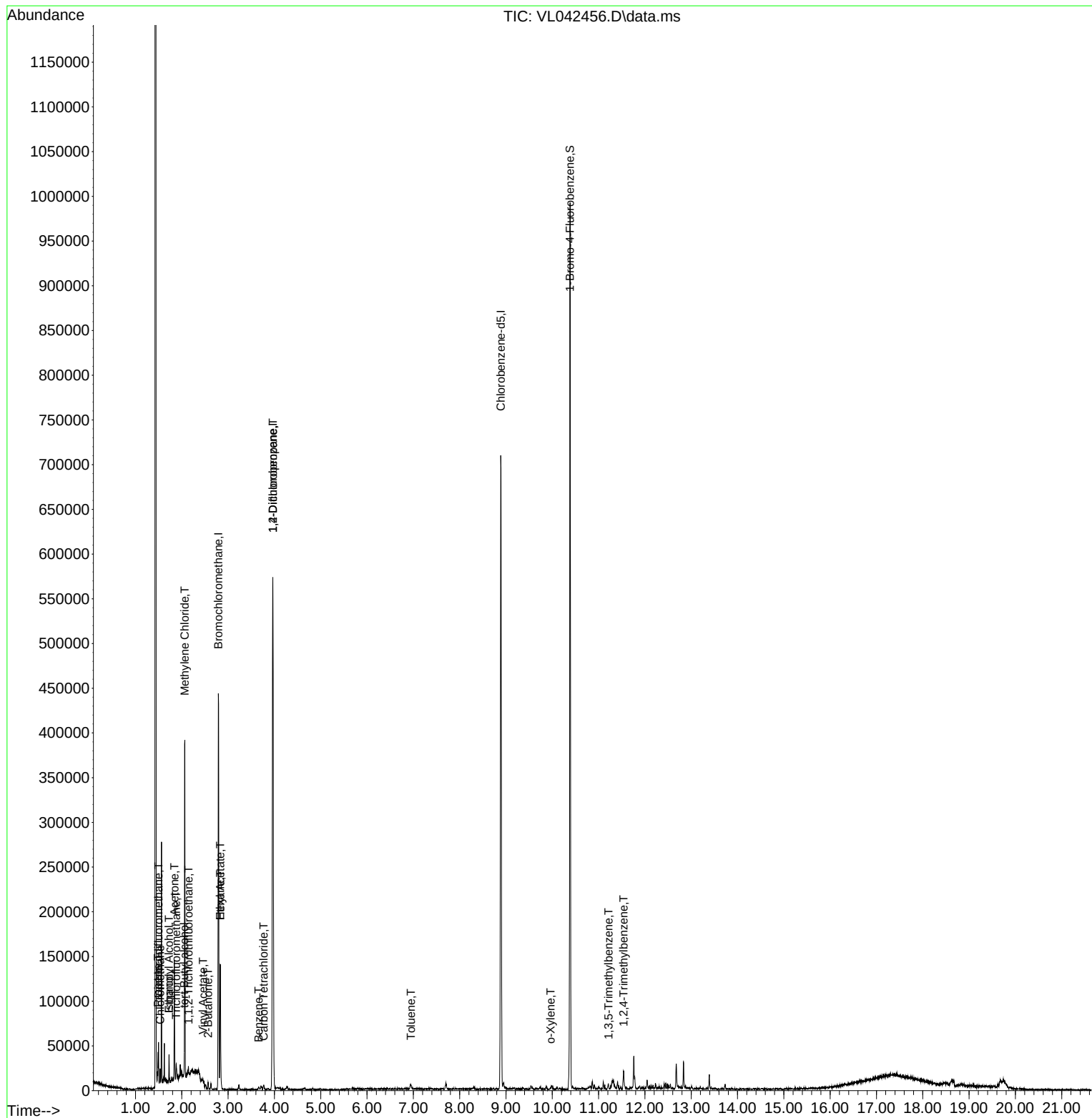
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 111841   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 295318   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 246635   | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.383 | 95    | 229841   | 11.341   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 113.400% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 9601     | 0.486    | ppbv   | 94       |
| 4) Chloromethane              | 1.531  | 50    | 3721     | 0.476    | ppbv # | 81       |
| 9) Propene                    | 1.489  | 41    | 2343     | 0.273    | ppbv   | 93       |
| 11) Trichlorofluoromethane    | 1.877  | 101   | 4603     | 0.245    | ppbv   | 94       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 946      | 0.062    | ppbv   | 98       |
| 13) Ethanol                   | 1.722  | 45    | 10654    | 7.822    | ppbv # | 24       |
| 15) Acetone                   | 1.839  | 43    | 57407    | 3.136    | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.052  | 59    | 959      | 0.042    | ppbv # | 71       |
| 19) Isopropyl Alcohol         | 1.722  | 45    | 10654    | 1.048    | ppbv # | 52       |
| 20) Methylene Chloride        | 2.065  | 84    | 57764    | 8.056    | ppbv   | 93       |
| 23) Vinyl Acetate             | 2.457  | 43    | 1592     | 0.215    | ppbv # | 1        |
| 25) Ethyl Acetate             | 2.829  | 43    | 21953    | 0.486    | ppbv # | 82       |
| 26) Hexane                    | 2.829  | 57    | 28892    | 1.582    | ppbv # | 31       |
| 34) 2-Butanone                | 2.567  | 43    | 4598     | 0.197    | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 1519     | 0.057    | ppbv # | 85       |
| 36) Benzene                   | 3.658  | 78    | 1247     | 0.039    | ppbv # | 83       |
| 39) 1,2-Dichloropropane       | 3.965  | 63    | 87069    | 7.335    | ppbv # | 21       |
| 53) Toluene                   | 6.946  | 91    | 2460     | 0.064    | ppbv # | 72       |
| 60) o-Xylene                  | 9.966  | 91    | 1209     | 0.030    | ppbv   | 88       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105   | 1755     | 0.041    | ppbv # | 69       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105   | 5427     | 0.109    | ppbv # | 59       |
| -----                         |        |       |          |          |        |          |

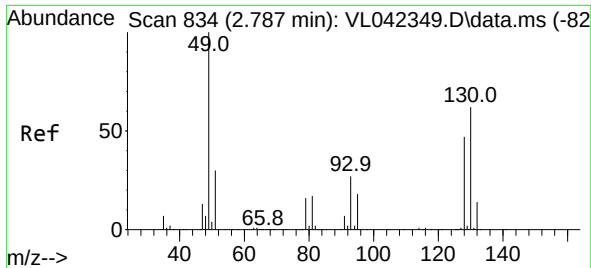
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL042925\  
Data File : VL042456.D  
Acq On : 29 Apr 2025 21:58  
Operator : SY/MD  
Sample : Q1908-02  
Misc : 400mL/MSVOA\_L  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

Quant Time: May 01 07:05:42 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri Apr 18 02:14:00 2025  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_L

ClientSampleId :

B-2

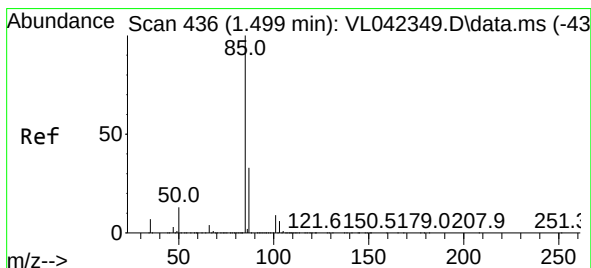
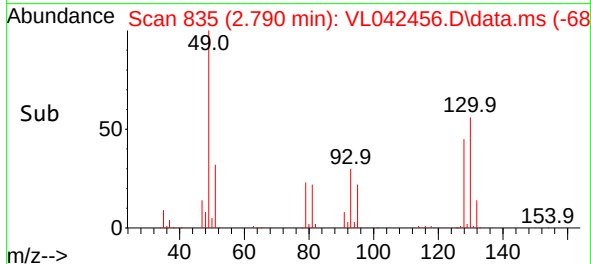
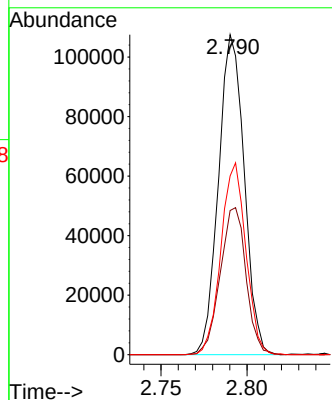
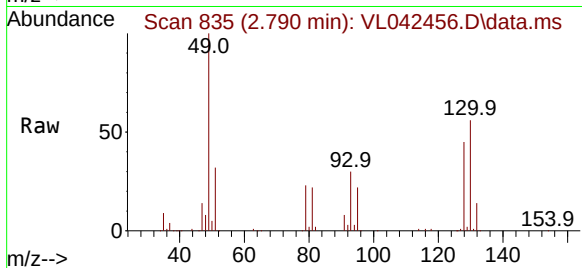
Tgt Ion: 49 Resp: 111841

Ion Ratio Lower Upper

49 100

128 46.1 22.8 68.4

130 58.0 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 0.486 ppbv

RT: 1.499 min Scan# 436

Delta R.T. -0.000 min

Lab File: VL042456.D

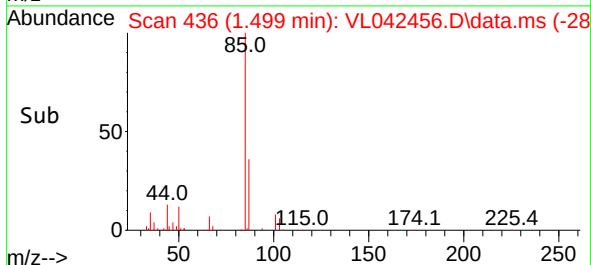
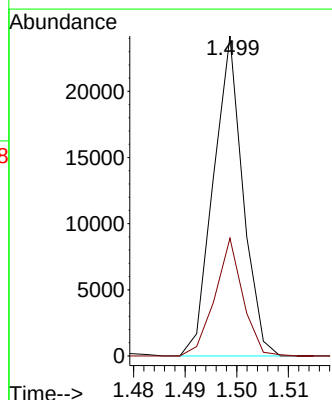
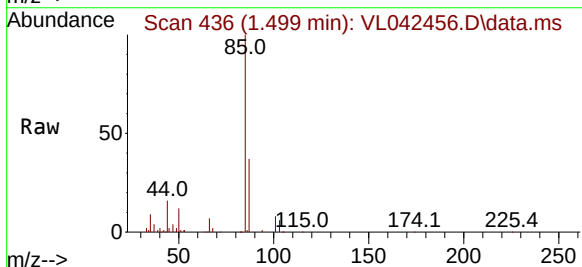
Acq: 29 Apr 2025 21:58

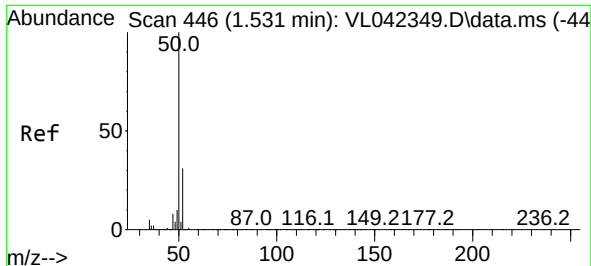
Tgt Ion: 85 Resp: 9601

Ion Ratio Lower Upper

85 100

87 36.8 26.6 39.8

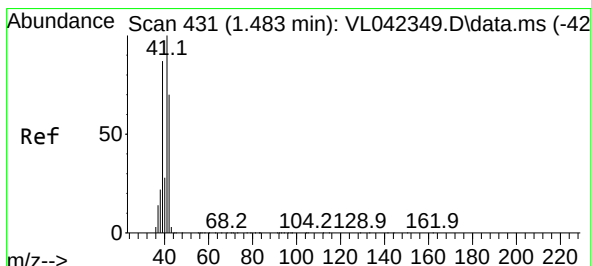
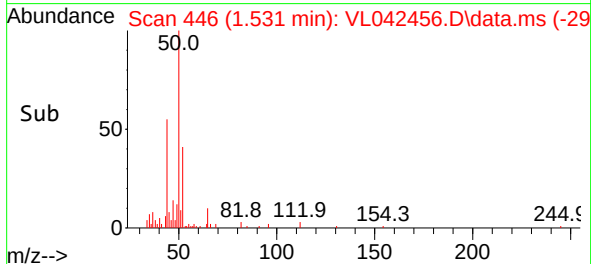
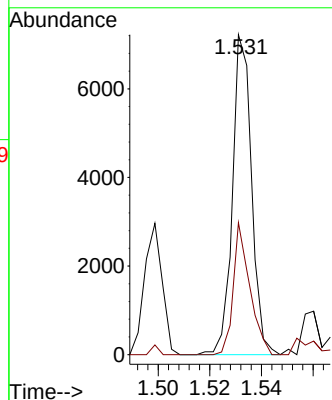
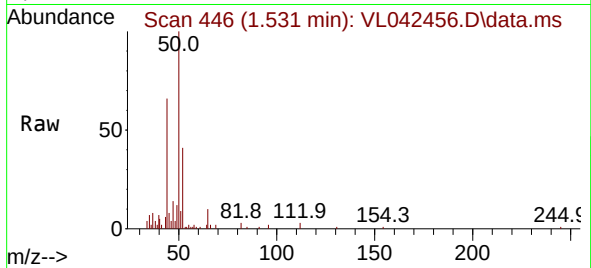




#4  
Chloromethane  
Concen: 0.476 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

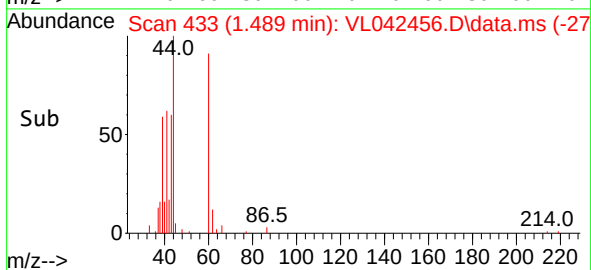
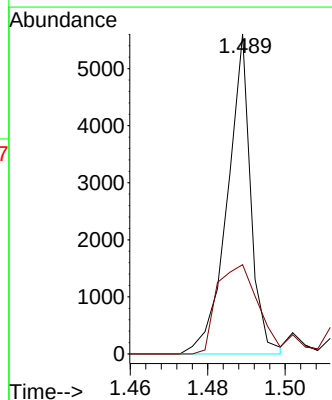
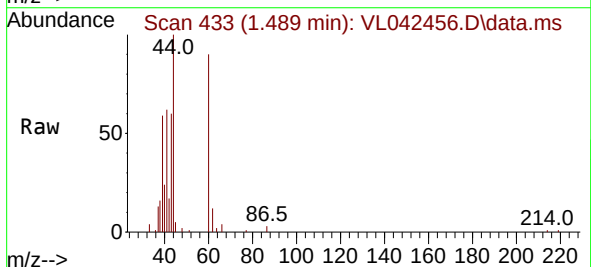
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

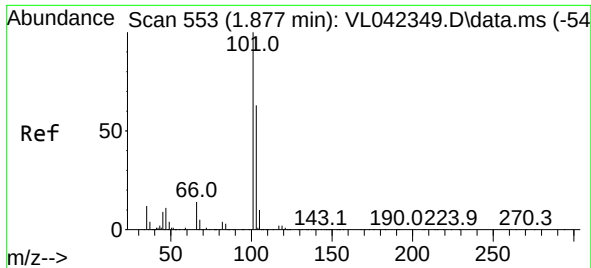
Tgt Ion: 50 Resp: 3721  
Ion Ratio Lower Upper  
50 100  
52 41.2 24.7 37.1#



#9  
Propene  
Concen: 0.273 ppbv  
RT: 1.489 min Scan# 433  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

Tgt Ion: 41 Resp: 2343  
Ion Ratio Lower Upper  
41 100  
42 64.7 56.2 84.4

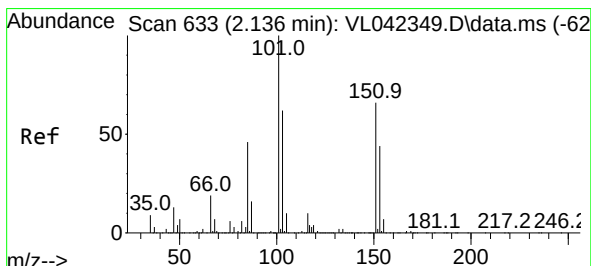
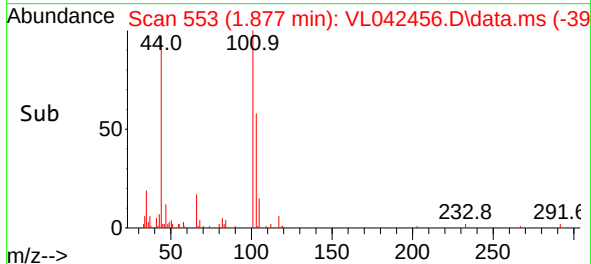
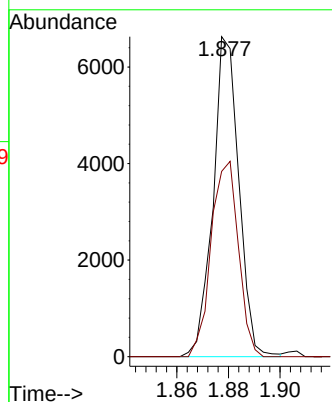
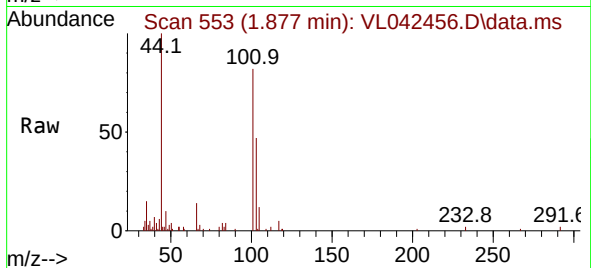




#11  
 Trichlorofluoromethane  
 Concen: 0.245 ppbv  
 RT: 1.877 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042456.D  
 Acq: 29 Apr 2025 21:58

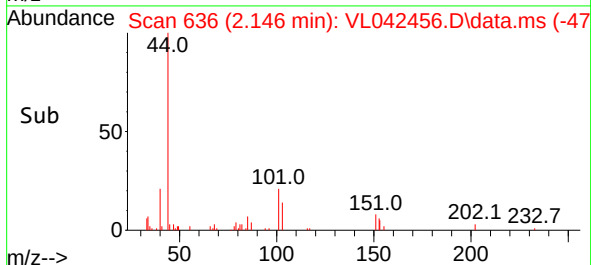
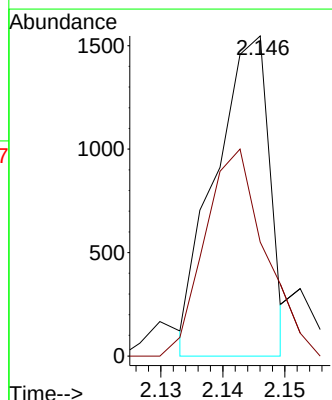
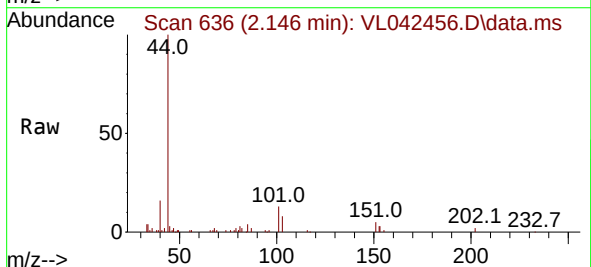
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-2

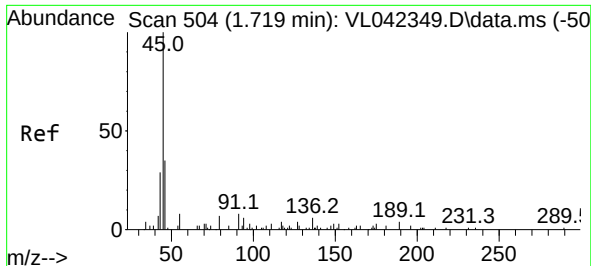
Tgt Ion:101 Resp: 4603  
 Ion Ratio Lower Upper  
 101 100  
 103 57.9 50.1 75.1



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.062 ppbv  
 RT: 2.146 min Scan# 636  
 Delta R.T. 0.010 min  
 Lab File: VL042456.D  
 Acq: 29 Apr 2025 21:58

Tgt Ion:101 Resp: 946  
 Ion Ratio Lower Upper  
 101 100  
 151 73.0 57.0 85.6

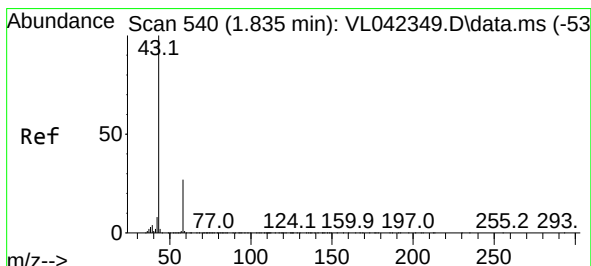
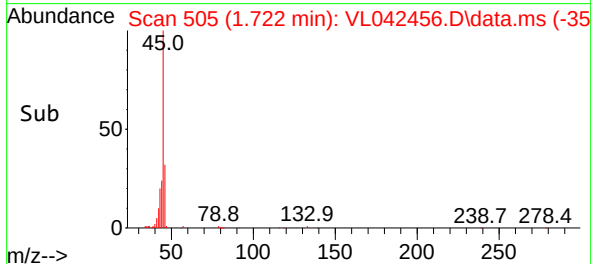
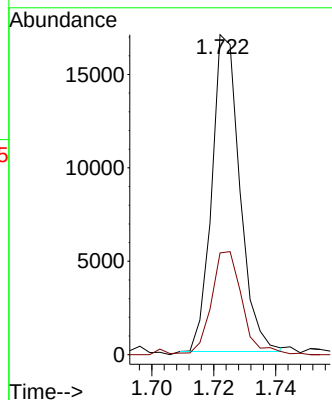
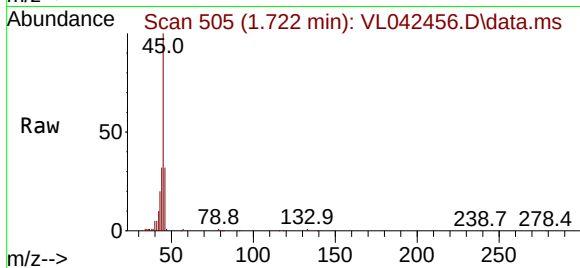




#13  
Ethanol  
Concen: 7.822 ppbv  
RT: 1.722 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

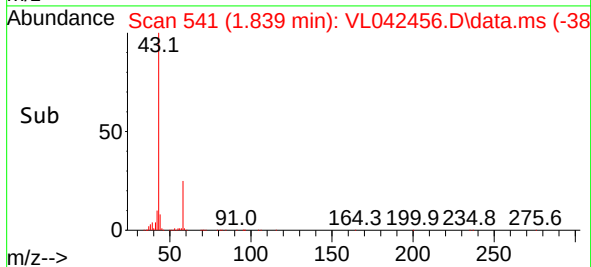
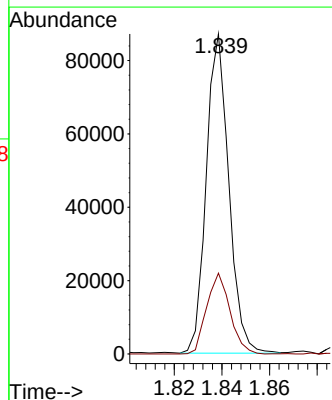
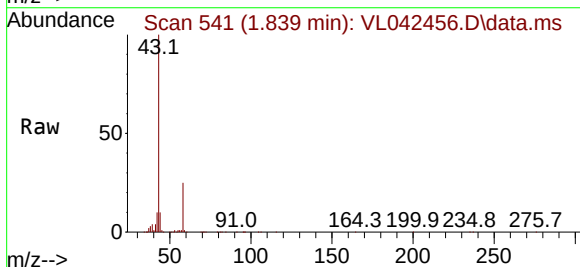
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

Tgt Ion: 45 Resp: 10654  
Ion Ratio Lower Upper  
45 100  
46 0.0 21.9 87.7#

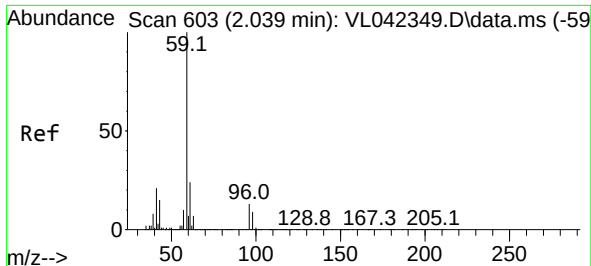


#15  
Acetone  
Concen: 3.136 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

Tgt Ion: 43 Resp: 57407  
Ion Ratio Lower Upper  
43 100  
58 26.2 22.4 33.6







#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 2.052 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_1

ClientSampleId :

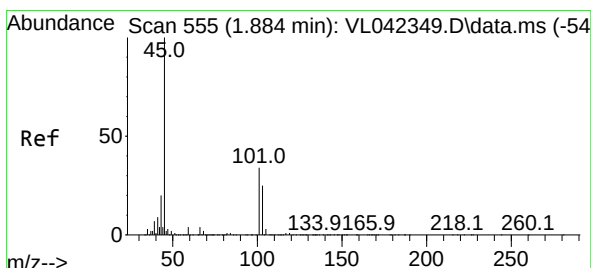
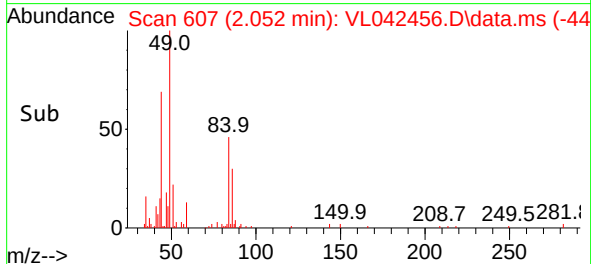
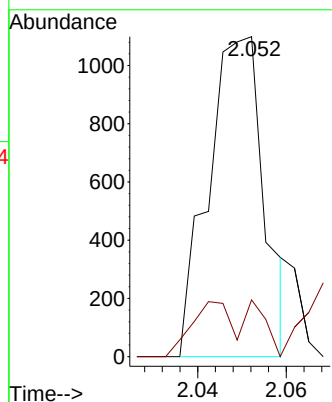
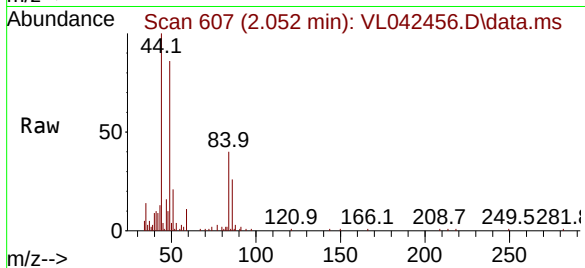
B-2

Tgt Ion: 59 Resp: 959

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.048 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042456.D

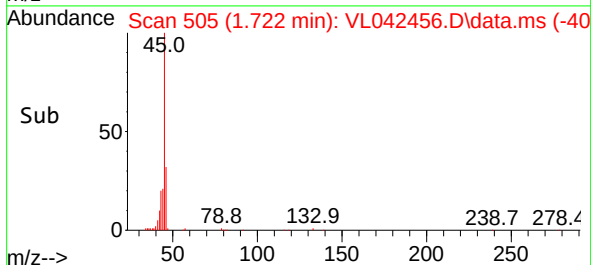
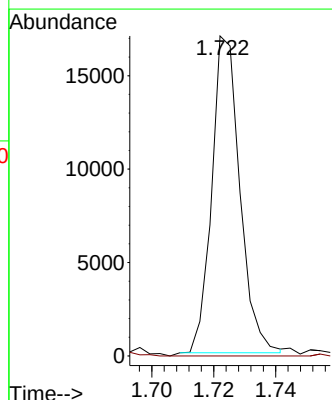
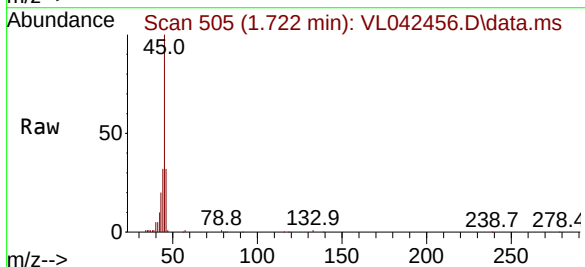
Acq: 29 Apr 2025 21:58

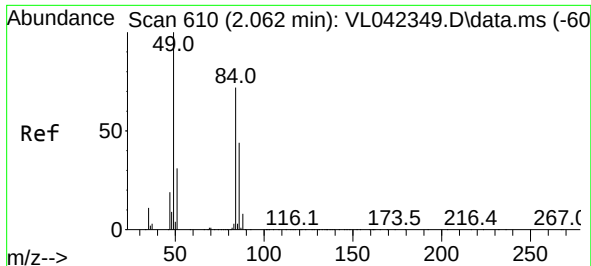
Tgt Ion: 45 Resp: 10654

Ion Ratio Lower Upper

45 100

58 12.4 34.5 51.7#

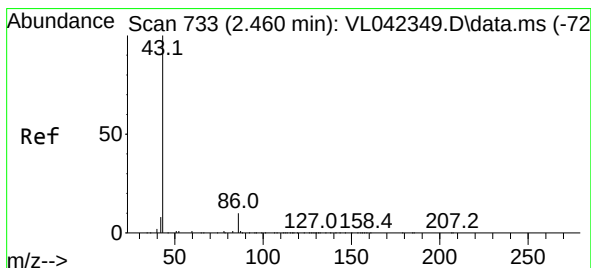
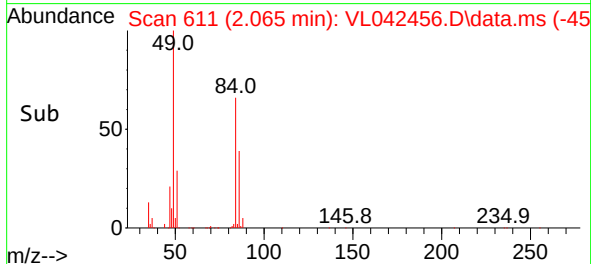
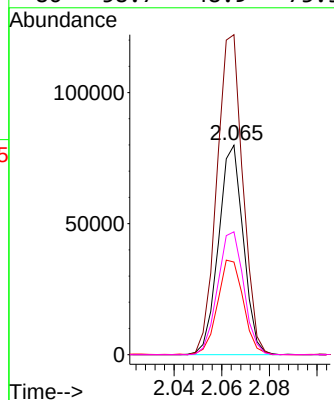
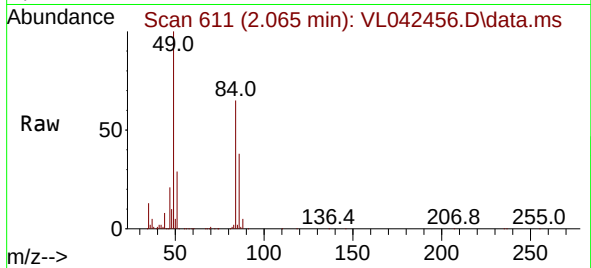




#20  
Methylene Chloride  
Concen: 8.056 ppbv  
RT: 2.065 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

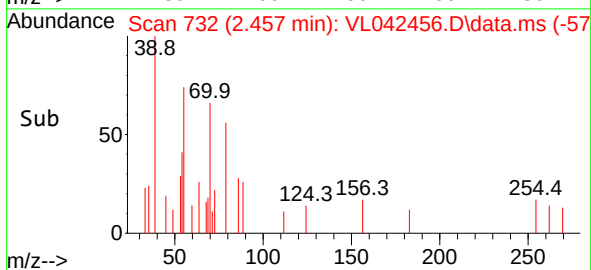
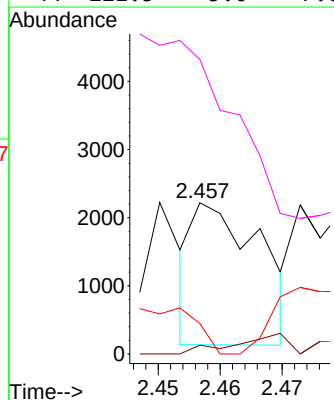
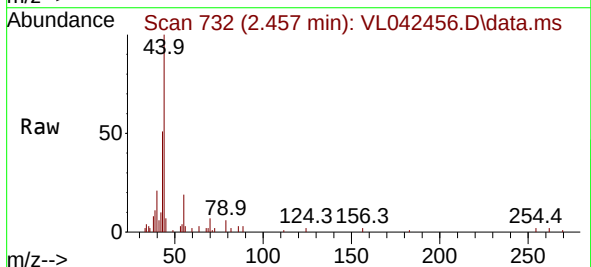
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

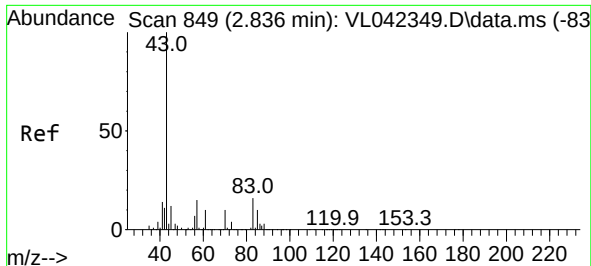
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 57764 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 152.8 | 111.6 | 167.4 |
| 51       | 44.1  | 35.1  | 52.7  |
| 86       | 58.7  | 48.9  | 73.3  |



#23  
Vinyl Acetate  
Concen: 0.215 ppbv  
RT: 2.457 min Scan# 732  
Delta R.T. -0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1592  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 12.6  | 6.5   | 9.7#  |
| 42       | 0.0   | 7.8   | 11.8# |
| 44       | 221.5 | 5.0   | 7.6#  |

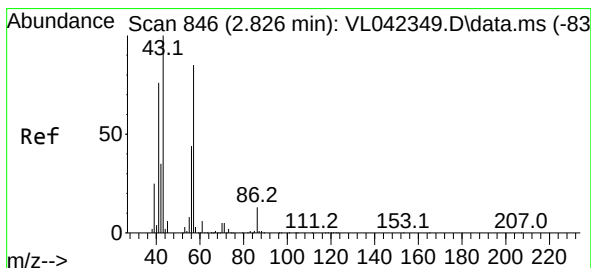
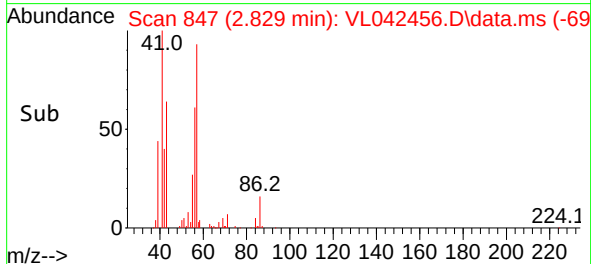
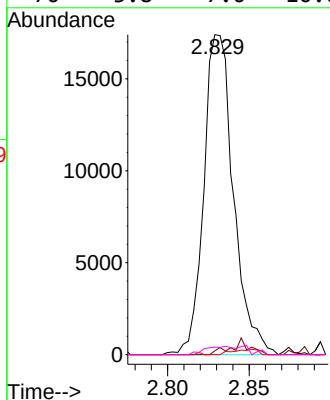
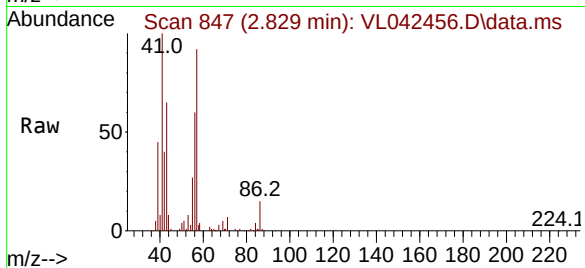




#25  
Ethyl Acetate  
Concen: 0.486 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. -0.007 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

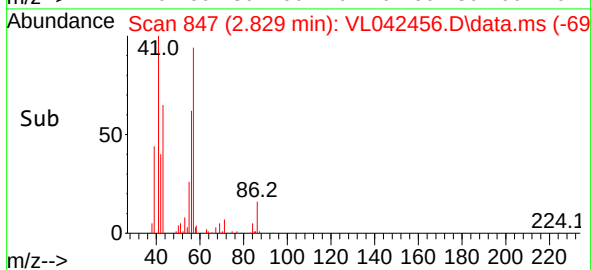
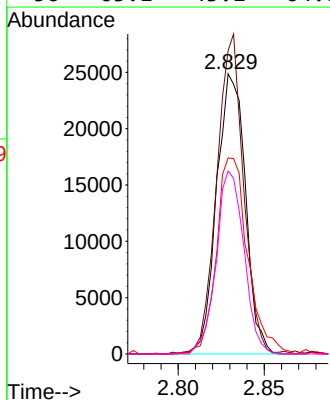
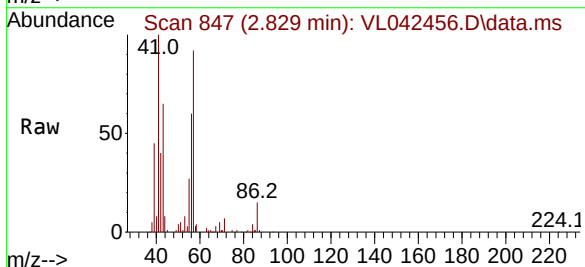
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

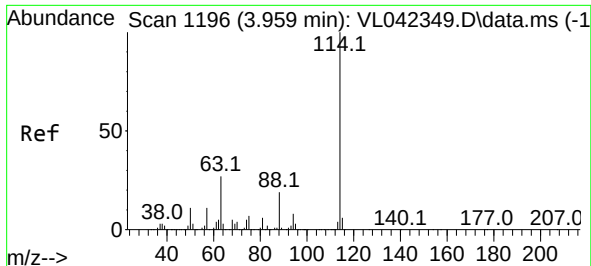
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 21953 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 3.1   | 8.3   | 12.5# |
| 61       | 1.4   | 7.3   | 10.9# |
| 70       | 3.8   | 7.0   | 10.6# |



#26  
Hexane  
Concen: 1.582 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 28892  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 107.2 | 77.9  | 116.9  |
| 43       | 77.9  | 208.4 | 312.6# |
| 56       | 63.1  | 43.1  | 64.7   |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_L

ClientSampleId :

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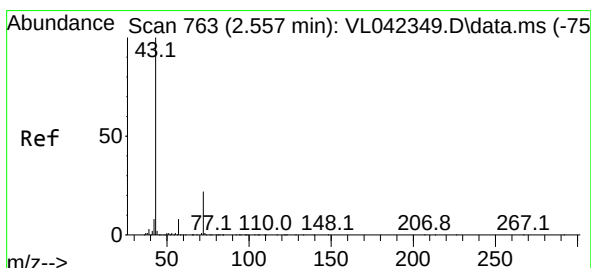
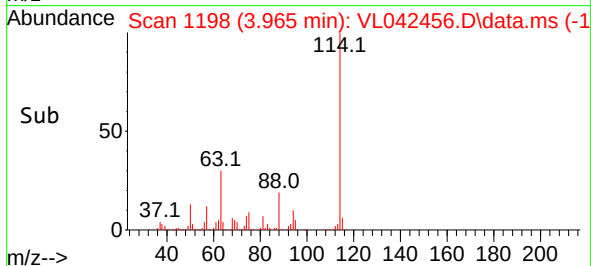
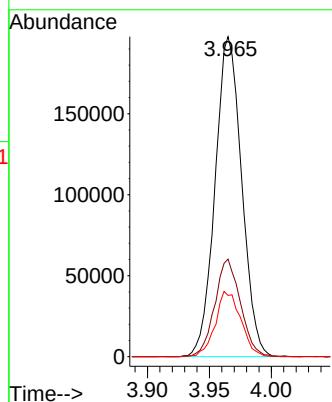
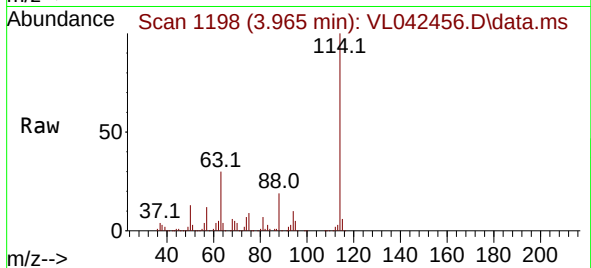
Tgt Ion:114 Resp: 295318

Ion Ratio Lower Upper

114 100

63 29.6 21.8 32.6

88 19.6 15.5 23.3



#34

2-Butanone

Concen: 0.197 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.010 min

Lab File: VL042456.D

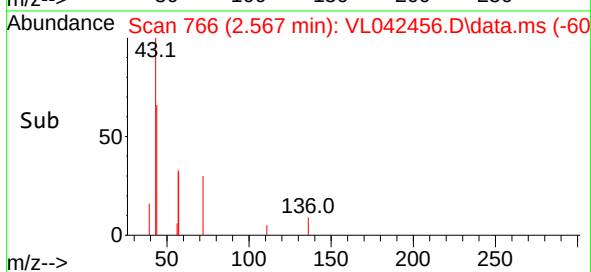
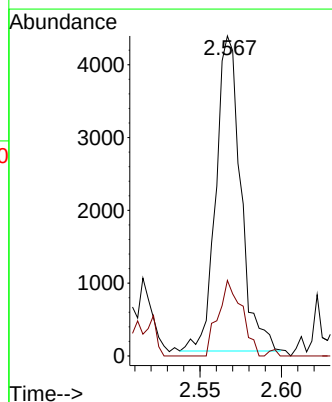
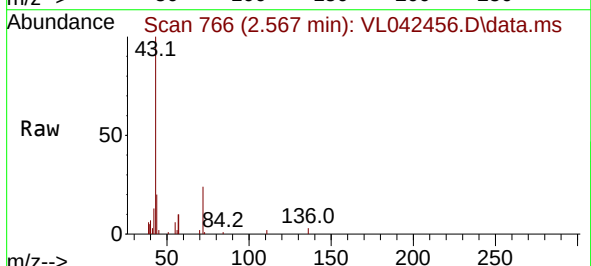
Acq: 29 Apr 2025 21:58

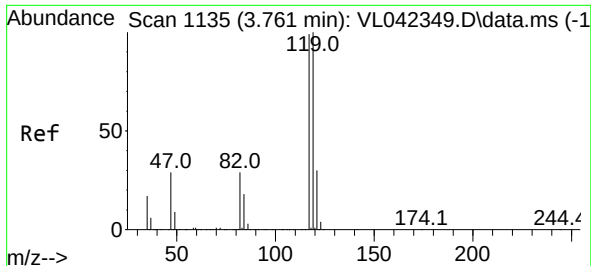
Tgt Ion: 43 Resp: 4598

Ion Ratio Lower Upper

43 100

72 23.4 18.2 27.2

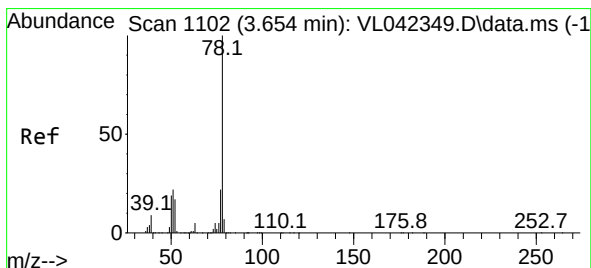
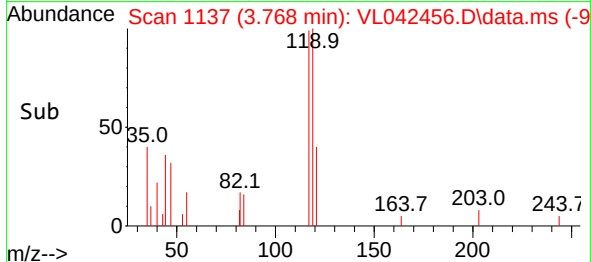
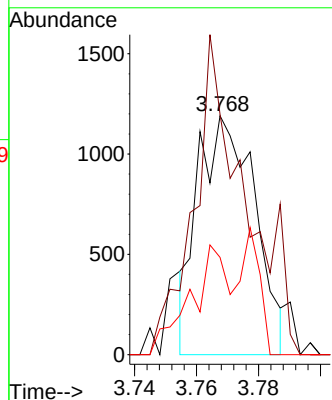
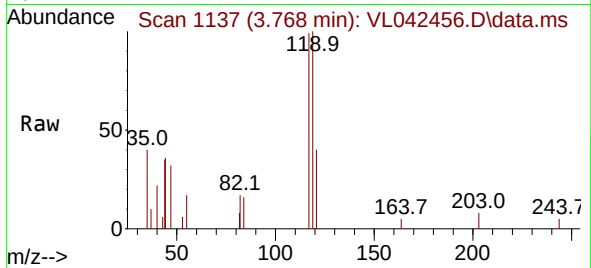




#35  
Carbon Tetrachloride  
Concen: 0.057 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

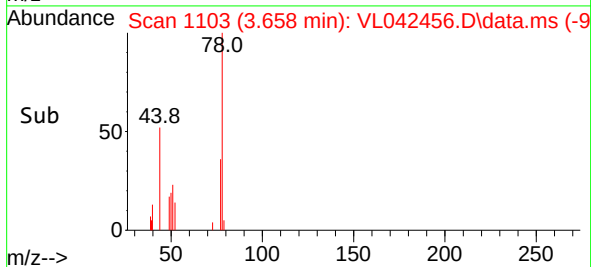
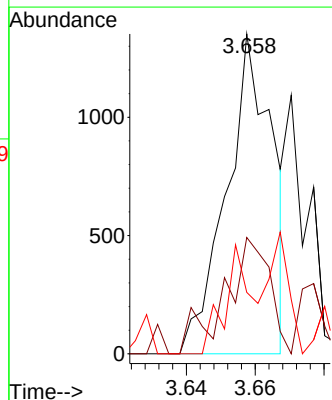
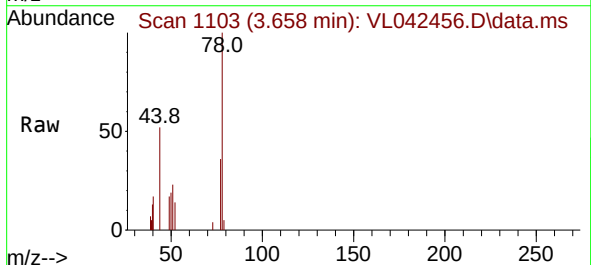
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

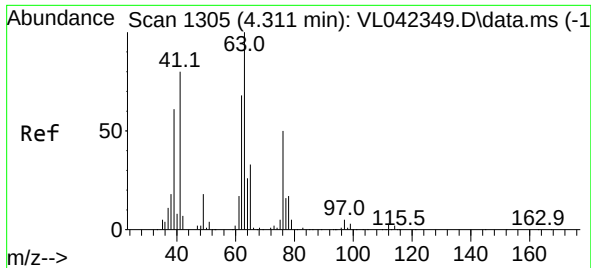
Tgt Ion:117 Resp: 1519  
Ion Ratio Lower Upper  
117 100  
119 91.8 80.5 120.7  
121 50.6 24.2 36.2#



#36  
Benzene  
Concen: 0.039 ppbv  
RT: 3.658 min Scan# 1103  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

Tgt Ion: 78 Resp: 1247  
Ion Ratio Lower Upper  
78 100  
77 36.4 17.4 26.0#  
50 19.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 7.335 ppbv

RT: 3.965 min Scan# 1119

Delta R.T. -0.346 min

Lab File: VL042456.D

Acq: 29 Apr 2025 21:58

Instrument :

MSVOA\_L

ClientSampleId :

B-2

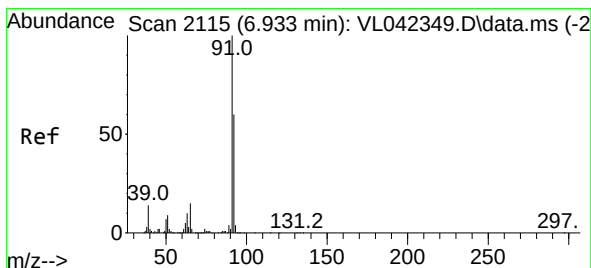
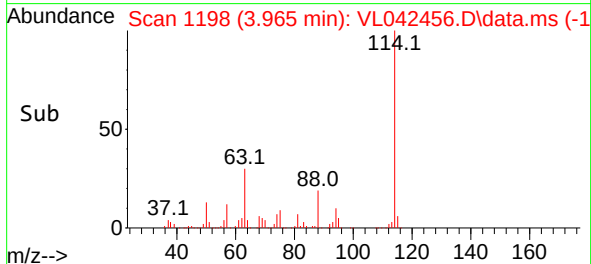
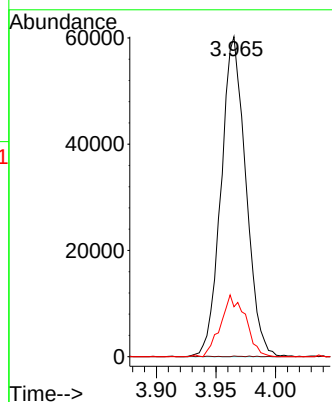
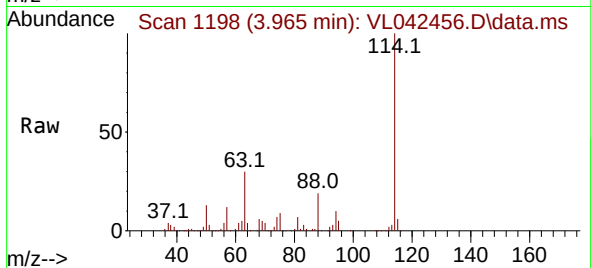
Tgt Ion: 63 Resp: 87069

Ion Ratio Lower Upper

63 100

41 0.2 64.2 96.2#

62 15.6 54.3 81.5#



#53

Toluene

Concen: 0.064 ppbv

RT: 6.946 min Scan# 2119

Delta R.T. 0.013 min

Lab File: VL042456.D

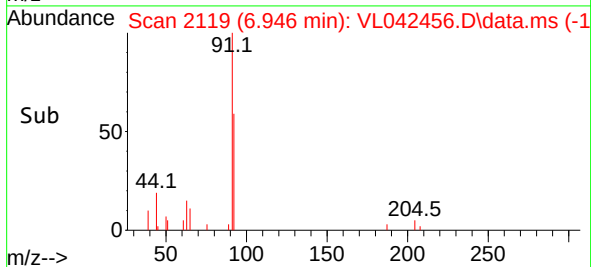
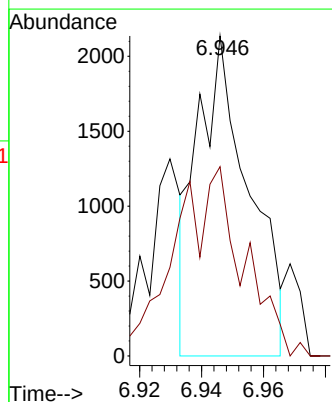
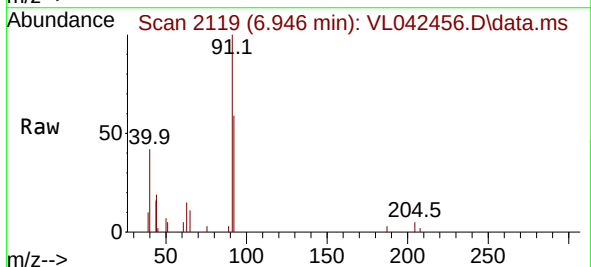
Acq: 29 Apr 2025 21:58

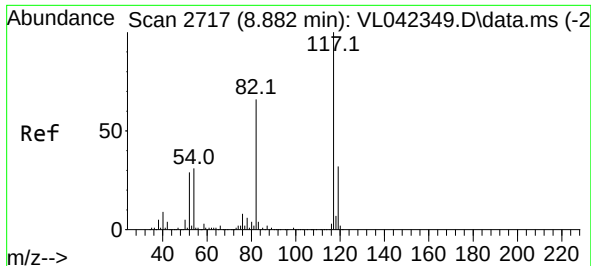
Tgt Ion: 91 Resp: 2460

Ion Ratio Lower Upper

91 100

92 81.2 48.2 72.4#

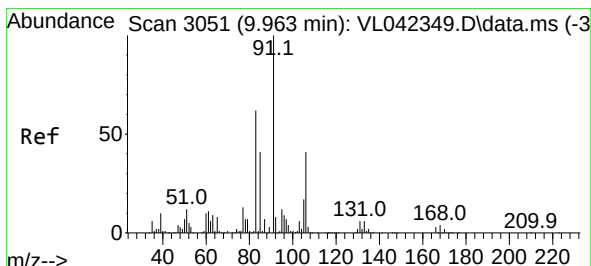
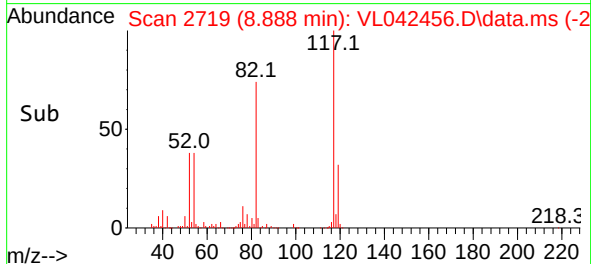
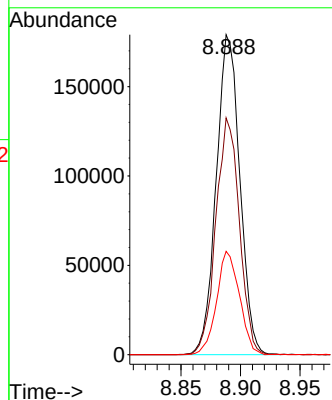
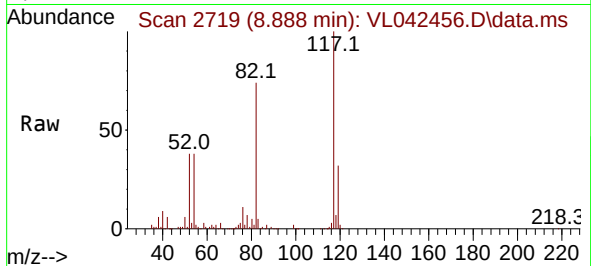




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

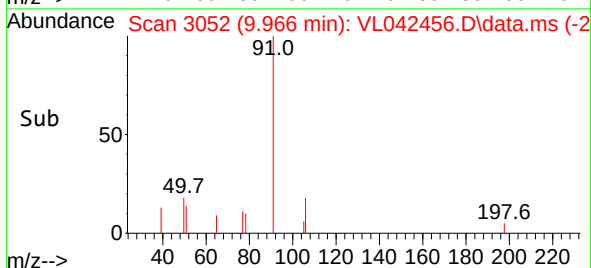
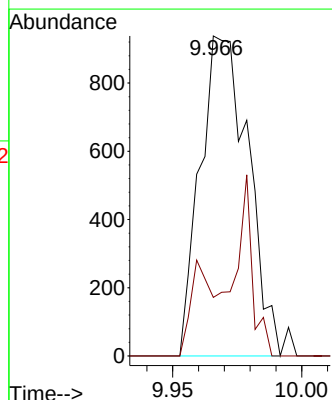
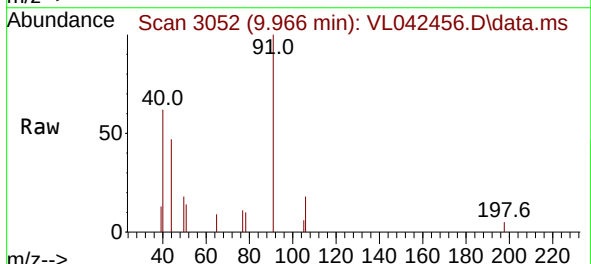
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

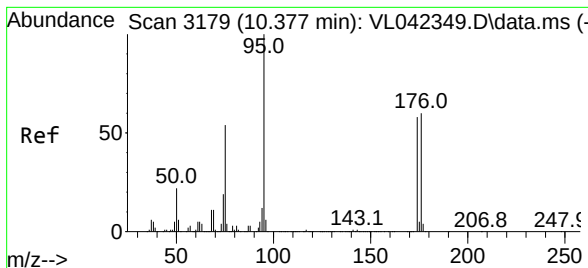
Tgt Ion:117 Resp: 246635  
Ion Ratio Lower Upper  
117 100  
82 73.7 57.8 86.6  
119 31.3 25.2 37.8



#60  
o-Xylene  
Concen: 0.030 ppbv  
RT: 9.966 min Scan# 3052  
Delta R.T. 0.003 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

Tgt Ion: 91 Resp: 1209  
Ion Ratio Lower Upper  
91 100  
106 34.4 21.1 63.4

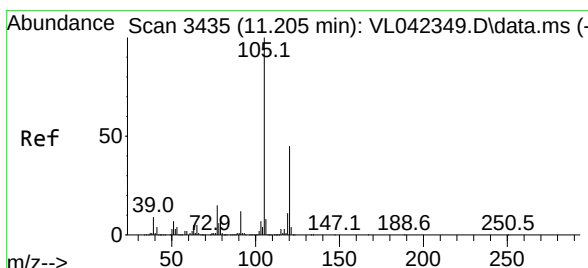
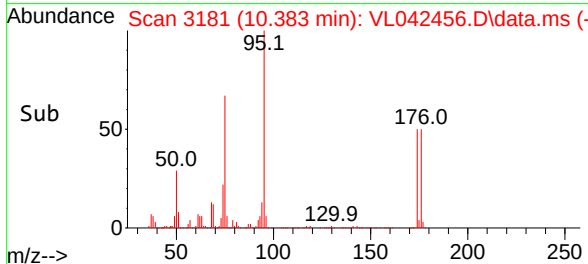
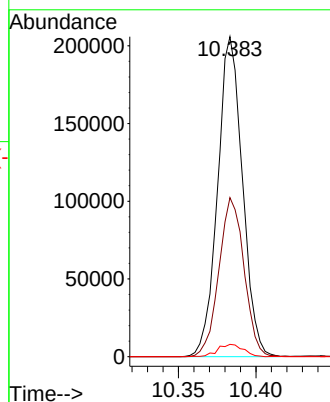
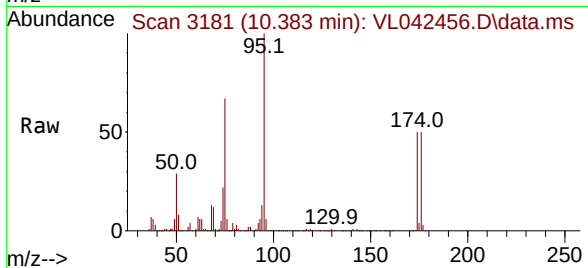




#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.341 ppbv  
RT: 10.383 min Scan# 3179  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

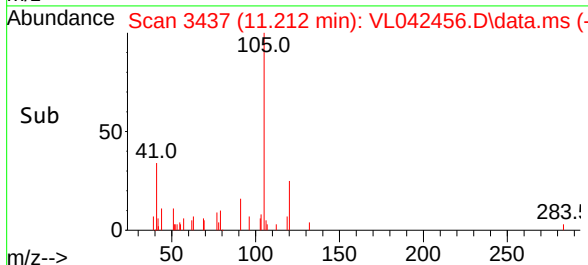
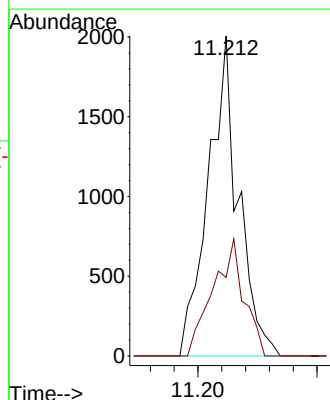
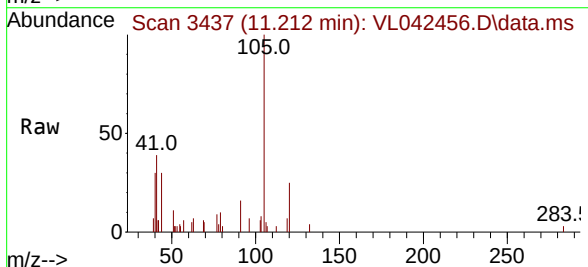
Instrument :  
MSVOA\_L  
ClientSampleId :  
B-2

Tgt Ion: 95 Resp: 229841  
Ion Ratio Lower Upper  
95 100  
174 50.3 48.5 72.7  
175 4.0 3.7 5.5

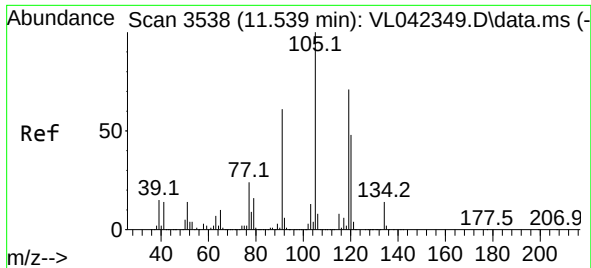


#73  
1,3,5-Trimethylbenzene  
Concen: 0.041 ppbv  
RT: 11.212 min Scan# 3437  
Delta R.T. 0.006 min  
Lab File: VL042456.D  
Acq: 29 Apr 2025 21:58

Tgt Ion: 105 Resp: 1755  
Ion Ratio Lower Upper  
105 100  
120 24.6 35.6 53.4#

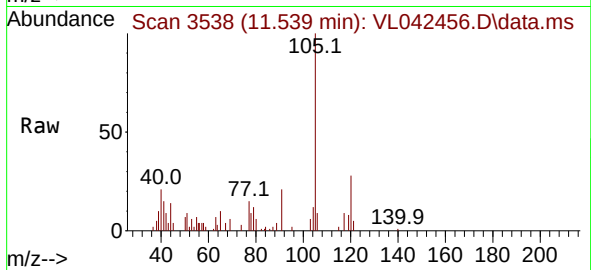






#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.109 ppbv  
 RT: 11.539 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VL042456.D  
 Acq: 29 Apr 2025 21:58

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 B-2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 5427  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 22.4  | 38.1  | 57.1# |
| 91       | 21.2  | 48.8  | 73.2# |
| 77       | 13.9  | 19.0  | 28.4# |

